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Search Terms: "Artificial Intelligence" OR "AI" AND "disaster"

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news

Narrowed by

: Newswires & Press Releases Source Location: North America Source Location: United States Timeline: 01 Jan, 2024 to 31 Dec, 2024

1. AI For All Phases of Disaster Management

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2. AI FOR ALL PHASES OF DISASTER MANAGEMENT

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3. NATIONAL GUARD EMPLOYS AI TO BATTLE WILDFIRES, IMPROVE DISASTER RESPONSE

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4. INTERNATIONAL PATENT: REPUBLIC OF KOREA(NATIONAL DISASTER MANAGEMENT RESEARCH INSTITUTE),

대한민국(행정안전부
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5. OPERATION HOPE BECOMES THE FIRST FINANCIAL LITERACY NONPROFIT TO EMBED ARTIFICIAL INTELLIGENCE INTO ITS MODEL

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6. NSF and philanthropic partners invest more than \$18M to prioritize ethical and societal considerations in the creation of emerging technologies

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7. USPTO ISSUES TRADEMARK:

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8. USPTO ISSUES TRADEMARK:

Aug 16, 2024 US Fed News

9. NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

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10. CEC Research Optimizes Autonomous Drone Swarms With AI for Potential Disaster Response Applications

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11. CU BOULDER PIONEERS CULTURALLY SENSITIVE AI SOLUTIONS FOR DISASTERS

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12. ERNST EXPOSES SBA'S LACK OF IT SECURITY AS THE AGENCY PURSUES AI TECHNOLOGY

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13. Ernst Exposes SBA's Lack of IT Security as the Agency Pursues AI Technology

May 29, 2024 Targeted News Service Targeted News Service

14. CHANGING THE MAP: NEW AI TECHNOLOGY, GEOSPATIAL MAPPING CERTIFICATES OFFERED

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15. DHS Launches First-of-its-Kind Initiative to Hire 50 Artificial Intelligence Experts in 2024

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16. Augmented Intelligence for Disaster Response: Beeline Kazakhstan Mobilises AI to Fight Forest Fires

Feb 06, 2024 GlobeNewswire COMPANY ANNOUNCEMENT; PRESS RELEASES; OTHER NEWS; EUROPEAN REGULATORY NEWS

17. House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear Energy, and Natural Disasters Committee-Passed Legislation Includes Provisions from McClellan's BUILT Act Rep. Jennifer McClellan (D- VA) News Release

Sep 25, 2024 Congressional Documents and Publications (Federal Information & News Dispatch, Inc.) U.S. HOUSE OF REPRESENTATIVES DOCUMENTS

18. House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear Energy, and Natural Disasters

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19. DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

Feb 06, 2024 US Fed News

20. DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

Feb 06, 2024 States News Service States News Service

21. UAE 's First SAR Satellite Enters Space as Bayanat AI, Al Yah Satellite Boost Earth Observation Program

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22. Pano AI Achieves ISO/IEC 27001:2022 Certification, Elevating Its Commitment to Information Security in Wildfire Detection Technology

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23. OHIO STATE PRESIDENT DISCUSSES AI IN HIGHER ED AT STATEHOUSE SUMMIT

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24. AI Ethics Council Welcomes LinkedIn Co-Founder Reid Hoffman and Commentator, Founder and Author Van Jones as Newest Members

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26. California Potentially Faces Worst Fire Season Ever: AX's FireScout AI SaaS Technology Can Help Minimize the Crisis

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27. JACOBS' DREAM: IMPROVING DISASTER RISK MANAGEMENT USING VISUAL CLUES IN THE AGE OF AI AND MACHINE LEARNING

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28. Nfina Technologies Releases the 4508T-AI, a High-Precision AI Computing Workstation

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29. Fake Hurricane Helene images go viral, experts discuss the problem and how to counteract

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30. FAKE HURRICANE HELENE IMAGES GO VIRAL, EXPERTS DISCUSS THE PROBLEM AND HOW TO COUNTERACT

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31. Microsoft: Another Important Step in Advancing Responsible AI to Serve The World

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32. Three Mile Island is reopening and selling its power to Microsoft

Sep 20, 2024 CNN Wire By Jordan Valinsky, CNN

33. UNITED IN SCIENCE: REBOOT CLIMATE ACTION

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34. Latin America Embraces Satellite Data and Artificial Intelligence for Law Enforcement, Forest Protection, and Civil Government Initiatives

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35. INDIA TO HOST WORLD CONFERENCE ON PRIORITIES FOR TECHNOLOGY STANDARDS

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36. DISASTER READINESS, QUALITY, BEHAVIORAL HEALTH LEAD FALL EDUCATIONAL OPPORTUNITIES

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37. Department of Homeland Security Unveils Artificial Intelligence Roadmap, Announces Pilot Projects to Maximize Benefits of Technology, Advance Homeland Security Mission

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38. Rising Demand Drives Enterprise Data Storage Market to USD 670.82 Billion by 2032| Market Research Future Recent Study

Sep 26, 2024 iCrowdNewswire (English)

39. USPTO ISSUES TRADEMARK: CARE.AI SMART

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40. Joint Economic Committee Issues Testimony From R Street Institute Senior Fellow Thierer (Part 1 of 2)

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43. Virginia Tech research team uses AI, satellite imagery to detail Debby's damage

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44. VIRGINIA TECH RESEARCH TEAM USES AI, SATELLITE IMAGERY TO DETAIL DEBBY'S DAMAGE

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45. International Rescue Committee: OpenAI X International Rescue Committee - Leveraging AI to Scale Ed-Tech in Crisis Affected Settings

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46. NetApp Fights Ransomware in Real-Time With Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions

Mar 06, 2024 Targeted News Service Targeted News Service

47. NetApp Fights Ransomware in Real-Time with Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions Amid increasing ransomware threats, new capabilities expand NetApp leadership in providing t...

Mar 05, 2024 Business Wire

48. Senate Joint Economic Committee Committee Hearing "Artificial Intelligence and Its Potential to Fuel Economic Growth and Improve Governance." Testimony by Adam Thierer, Resident Senior Fellow, Technology and Innovation, R Street Institute, Washington, DC

Jun 04, 2024 Congressional Documents and Publications (Federal Information & News Dispatch, Inc.) U.S. SENATE DOCUMENTS

49. University of Washington School of Medicine: Sky-is-Falling Scenarios Distract From Risks AI Poses Today

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50. USPTO ISSUES TRADEMARK: EOLIANN

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51. UAH Researcher Publishes Study Tapping Social Media and AI to Speed Supply Chain Assistance During Disasters

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52. Acterys Adds New AI-Driven Business Planning Features in Latest Release

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53. AI Ethics Council Founded by Open AI and Operation HOPE Holds Inaugural Meeting

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54. UNITED NATIONS AI MEET GIVES EVERYONE A VOICE COMMITMENTS ON INCLUSIVE AI STANDARDS AND CAPACITY BUILDING ANNOUNCED AT ITU 'S AI FOR GOOD GLOBAL SUMMIT

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55. TUM and Creditreform on the Hunt for Greenwashing

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57. FEMA Awards ICF New \$17 Million Cloud and Analytics Delivery Contract

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58. VIRGINIA TECH RESEARCH TEAM USES AI, SATELLITE IMAGERY TO DETAIL DEBBY'S DAMAGE

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59. USPTO ISSUES TRADEMARK: C C

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60. AI-Media Unveils Enhanced Lexi Tool Kit at NAB 2024 World Leader in AI -Powered Captioning Solutions Introduces the new LEXI DR (Disaster Recovery) and LEXI Recorded

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63. USPTO ISSUES TRADEMARK: SPACES THAT CARE

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64. Expedient Unveils Secure AI Gateway : Simplifying Access while Unlocking the Value of Generative AI Technologies

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65. Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

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66. MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE Sen. Markey J Edward (D - MA) News Release

Feb 01, 2024 Congressional Documents and Publications (Federal Information & News Dispatch, Inc.) U.S. SENATE DOCUMENTS

67. CAN AI BE A FORCE FOR INCLUSION?

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68. DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY MISSION

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69. ADDING MULTIMEDIA Atmo Signs Historic Commercial Agreement with the Philippines to Bring AI-Powered Weather Forecasting to the Country Atmo and DOST partner to deliver the first AI-based national weather forecasting system in Asia...

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70. INTERNATIONAL PATENT: "STANBUL GEL" UN
"VERS" FILES APPLICATION FOR "ARTIFICIAL INTELLIGENCE
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71. International Telecommunication Union: India to Host World Conference on Priorities for Technology Standards

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72. MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

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73. Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

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74. NEW COMPUTER VISION TOOL WINS PRIZE FOR SOCIAL IMPACT

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75. Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Don Beyer (D- VA) News Release

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76. REPS. ESHOO AND BEYER, SENATORS MARKEY AND HEINRICH INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

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77. 27TH CSTD SIDE EVENT: PANEL DISCUSSION ON DATA-DRIVEN SERVICES FOR COUNTRIES: ADVANCING DEVELOPMENT THROUGH EARTH INTELLIGENCE

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78. Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Anna G. Eshoo (D- CA) News Release

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79. EDDY HIGHLIGHTS AI, ANALYTICS, EMERGENCY MANAGEMENT

Jan 10, 2024 States News Service States News Service

80. EXPERTS AVAILABLE: HURRICANE HELENE RESPONSE AND RECOVERY, VICE PRESIDENTIAL DEBATE, AND MORE

Oct 01, 2024 US Fed News

81. Experts available: Hurricane Helene response and recovery, Vice Presidential debate, and more

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82. GSA Announces New Cohort of U.S. Digital Corps Fellows

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83. Association of the U.S. Army: National Guard Readies for Busy Disaster Response Season

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84. NATIONAL GUARD READIES FOR BUSY DISASTER RESPONSE SEASON

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85. University of Exeter : AI Can Support Humanitarian Organizations in Situations of Armed Conflict or Crisis - But They Should Understand the Potential Risks, Study Warns

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86. PolyU harnesses GeoAI technologies to enable sustainable urban development

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87. National Environmental Health Association Provides Thought Leadership at World Congress on Environmental Health

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88. New Nasuni Research Reveals Crucial Need for Hybrid Cloud Storage Strategies

Jul 16, 2024 PR Newswire

89. Flowcore: Synthetik Insurance Analytics announces successful demonstration of AI powered flood modeling and loss prediction tool

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90. PolyU Harnesses GeoAI Technologies to Enable Sustainable Urban Development

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91. Over 100 Experts From Home and Abroad Discuss Smart City Development at UM

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92. NEW AI-LED SCIENCE INITIATIVE WILL HELP PROTECT COMMUNITIES HIT BY CLIMATE CHANGE IN EAST AFRICA

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93. PR NO. 174 GOVERNMENT OF PAKISTAN HAS ESTABLISHED A MULTI-SECTOR PARTNERSHIP PROGRAM "GENERATION UNLIMITED" AND A NATIONAL YOUTH COUNCIL TO EMPOWER YOUTH LEADERSHIP; CHAIRMAN PM'S YOUTH PROGRAM, RANA MASHOOD LONDON: JULY 19, 2024

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94. Artificial Intelligence A Threat to Climate Change, Energy Usage and Disinformation

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95. OAS AND VIVE CON ESPERANZA FOUNDATION TO COOPERATE IN PROMOTING SUSTAINABLE DEVELOPMENT AND DISASTER RISK MANAGEMENT

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96. Wireless Broadband in Public Safety Market: In-Depth Analysis by Market Research Future

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97. Scientific Systems Conducts Groundbreaking Research Pairing Cutting-Edge Autonomy with Search and Rescue Dogs

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98. StockSnips Unveils their first AI-powered ETF: NEWZ, now trading on Nasdaq

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99. APEC BUSINESSES CALL FOR GREATER ACTION AMID INSUFFICIENT ECONOMIC GROWTH AND INCREASING CLIMATE RISK

Aug 05, 2024 States News Service States News Service

100. A NIST FOUNDATION TO SUPPORT THE AGENCY'S AI MANDATE

Jun 24, 2024 States News Service States News Service

AI For All Phases of Disaster Management

Targeted News Service

July 18, 2024 Thursday 9:20 AM EST

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Length: 810 words

Byline: Targeted News Service

Dateline: COLLEGE STATION, Texas

Body

(TNSres) -- Texas A&M University's College of Engineering issued the following news:

* * *

Texas A&M researchers are using **AI** to improve the management of disasters like hurricanes before, during and after the events.

* * *

By Justin Agan

Hurricane season is here, with Hurricane Beryl already leaving a trail of damage after hitting Texas' shorelines. The National Oceanic and Atmospheric Administration (NOAA) is predicting a record number of named storms in the Atlantic this year. As these events continue to increase, it's imperative to find solutions to help manage the inevitable hazards.

Dr. Ali Mostafavi, associate professor in the Zachry Department of Civil and Environmental Engineering at Texas A&M University, and his research team have been utilizing **artificial intelligence (AI)** to address **disaster** management through each phase of a hazard event. They want to bring cutting-edge **AI** to the forefront of community resilience and **disaster** management efforts.

AI has become a very popular evolving technology, especially in research. When given large amounts of data, images or text, it can identify and analyze key features much quicker than a whole team of people.

Mitigation and Preparedness

A crucial step of the mitigation phase of **disaster** management is assessing risk to communities. Hurricanes bring significant flooding risks, but current flood risk assessments can be time-intensive and costly.

Mostafavi's team developed a machine-learning model called Flood Genome that determines flood risk in different communities based on factors like hydrological, topographic and built environment features. Just like genetic

AI For All Phases of Disaster Management

features can indicate health risks for people, Flood Genome analyzes different features of communities to assign flood risk levels.

"We used historical flood damages from the National Flood Insurance Program to test this model to determine how well it can predict high-risk areas, and the model performed beautifully," Mostafavi said. "It can inform flood mitigation and community resilience efforts by understanding the flood risk level of different areas."

Another AI tool developed by the Mostafavi lab, called Elev-vision, determines the lowest floor elevation of structures using Google Street View images.

For a city like Houston, with hundreds of thousands of properties, surveying each property with traditional methods is not feasible. This new tool significantly cuts labor and expenses and provides updated vital information on flood risk to properties.

Response and Recovery

Response efforts would ideally start before an event develops, but the fast-paced nature of a hurricane makes evacuations and supply distribution difficult to manage. The research team has developed solutions to this problem as well.

"We leverage location-based data and graph analytic methods to determine the preparedness and evacuation patterns of communities before a hurricane or storm arrives and provide that in near-real-time to decision-makers to understand what areas have or have not evacuated," Mostafavi said.

He added that not only can this new technology tell which areas have evacuated, but it also monitors which routes and destinations are being used the most. Getting accurate and timely evacuation information to decision-makers would greatly improve public safety before and during disasters.

This tool can also determine a community's preparedness before a storm arrives. By analyzing patterns of human mobility and visitations to grocery stores, it can gauge how prepared a community is to weather the storm.

Quick response efforts can also impact recovery after events.

Rapid damage assessments in the wake of disasters are vital to making more resilient communities. This can lead to faster local and federal aid. The team's AI research tackles this issue by using satellite images and computer vision techniques to classify properties based on the extent of damage.

Many of the models and tools Mostafavi's team developed were tested during or after previous events like hurricanes in Florida and Louisiana, and all performed very well.

"AI technologies can improve resilience capabilities of communities at different stages," Mostafavi said. "We see AI as the next defense barrier against disasters because it improves risk mapping, situational awareness and impact assessment."

There may not be a long wait for these improvements since the team has already begun a start-up company and developed prototypes to commercialize these technologies for public use.

Mostafavi and his team have been working extensively on AI disaster management for many years, resulting in numerous publications and innovations.

* * *

Original text here: <https://engineering.tamu.edu/news/2024/07/ai-for-all-phases-of-disaster-management.html>

Contact: Engineering News

engineeringnews@tamu.edu

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Organization: TEXAS A & M UNIVERSITY (91%); NATIONAL OCEANIC & ATMOSPHERIC ADMINISTRATION (57%)

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States News Service

July 19, 2024 Friday

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AI FOR ALL PHASES OF DISASTER MANAGEMENT

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Geographic: HOUSTON, TX, USA (79%); TEXAS, USA (94%); ATLANTIC OCEAN (79%)

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NATIONAL GUARD EMPLOYS AI TO BATTLE WILDFIRES, IMPROVE DISASTER RESPONSE

States News Service

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Body

The following information was released by the U.S. Army-Asia Pacific:

By Master Sgt. Erich Smith, National Guard Bureau April 8, 2024

ARLINGTON, Va. Inside the bustling confines of an operations center, National Guard members quickly assemble information from multiple sources, piecing together the "big picture" from ground and air personnel as they fight a devastating wildfire threatening lives and property.

As the day progresses, their report meant to be a timely representation of the situation makes its way up the ladder, subjected to revisions and interpretations at every level.

By the time the information reaches key decision makers, however, the realities on the ground have long since evolved: homes destroyed, wildlife scattered, vegetation wasted, and most importantly, lives lost a devastating situation exacerbated by delays in communication.

For Michael Wisniewski, chief data officer with the Army National Guard's communications and computers directorate, such a scenario should never become a reality in the fast-paced world of natural **disaster** response.

"Back in the day, we'd fly over a fire or **disaster** site, then come back, look at a map, make some marks on it, and then go out again and come back," said Wisniewski. "I jokingly say it's also like using World War II-level communications: Somebody delivers a sheet to somebody else, and then they read it to the commander."

However, those holdover processes are becoming a thing of the past as the National Guard begins to embrace **artificial intelligence** to help it see and understand situations quickly and employ resources faster to help save lives and property.

And significantly reducing that lag in communication via **AI** is the aim of Project Theia an example of how the Guard is committed to modernization, said Army Gen. Daniel R. Hokanson, chief of the National Guard Bureau.

"It is widely known the National Guard has been at the forefront of domestic response efforts especially during the past few decades," he said. "And this technology, simply put, is going to take us to the next level in not only how we coordinate with local agencies, but the speed in which we can help save lives."

NATIONAL GUARD EMPLOYS AI TO BATTLE WILDFIRES, IMPROVE DISASTER RESPONSE

Named after the Greek goddess of sight, Theia centralizes video data and then applies AI solutions to increase situational awareness among those responding to natural or human-caused disasters.

"We are trying to get all the imagery that exists in the Guard and other military assets, dump it into one platform and distribute it accordingly," said Wisniewski.

The technical aspects of the project begin with taking in video streams from military air assets along with imagery and other information from ground assets.

"But whether it's a [UH-72A] Lakota military helicopter, MQ-9 Reaper [unmanned aerial system] or a civilian partner's assets, the process of getting that footage is entirely different for each platform," said Wisniewski.

This presented the challenge, he said, of rapidly creating a common operating picture for response forces.

"So we built a system that said, 'Look, we'll handle the integration of all the systems, and then standardize the metadata behind the full-motion imagery coming in to the point where I can run AI algorithms on it,'" Wisniewski said.

The result is a web-based tool that provides clearer depictions of disaster areas, said Air Force Capt. Douglas Witherspoon, with the California Air National Guard's 163rd Attack Wing.

"Now, artificial intelligence can take data from a video and create an overlay and then allow the aircraft's video program to connect to it," he said. An overlay involves using Theia's software to render markings on top of a digital map of the disaster site.

Because the overlay is constantly updating the imagery, Witherspoon added, analysts can better track fires. Whereas before, he said, those same analysts manually created overlays on a printed map or applied them to a digital one both time-consuming tasks.

"The technology we have now is more advanced and fully automated," Witherspoon said. "Using artificial intelligence to visually augment live video feeds with highly accurate overlays of roads, key landmarks, and other mission-critical data allows analysts to make time-sensitive decisions."

But first-line responders and ground operators benefit too, said Army Col. Daniel Bowles, vice director for the National Guard Bureau's communications and computers directorate.

"You still have radio and satellite communications," he said. But one of Theia's key features is "getting real-time information to the very person that's on the ground, as fast as we can make it and [enhancing] decision-making capabilities."

The project also was an exercise in collaborating with academia. Through Hacking For Defense, a Defense Department-sponsored university course, students work with defense and intelligence communities to rapidly address the nation's emerging threats and security challenges.

"In the National Guard, we have a warrior's mindset when it comes to fixing a problem, which is not a bad thing," said Bowles. "But then we also have the mindset of a Citizen-Soldier or Airman meaning that we come from industry, we come from the workforce, we come from academia, and we can provide multiple viewpoints."

Tapping into the talent of young minds in academia, he added, is a natural fit for the Guard.

"There are so many different solutions that are out there and when we look outside the box, we can leverage those different things," Bowles said.

Yet with the technological wonders of AI, Wisniewski said the project highlighted another accomplishment.

"The real takeaway is the transformative approach to standardizing all these different formats of videos that are coming in so we can apply AI solutions," he said.

NATIONAL GUARD EMPLOYS AI TO BATTLE WILDFIRES, IMPROVE DISASTER RESPONSE

With nearly 400 domestic response operations under its belt last year, Bowles said the Guard will continue to strategize how it can integrate **AI** to better support federal and local officials during disasters.

"We're not just using new technology just to use it," said Bowles. "There's got to be a reason an understanding on how it makes a process better."

Project officials expect to support the California National Guard during the upcoming wildfire season. They think the system will be fully operational by the end of the year.

Classification

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Publication-Type: Newswire

Subject: ARMIES (93%); ACCIDENTS & DISASTERS (92%); FIRES (90%); NATURAL DISASTERS (90%); NEGATIVE NEWS (90%); SAFETY, ACCIDENTS & DISASTERS (90%); US ARMY (90%); WILDFIRES (90%); **ARTIFICIAL INTELLIGENCE** (89%); GOVERNMENT DEPARTMENTS & AUTHORITIES (79%); ARMED FORCES (78%); WORLD WAR II (73%); WILDLIFE (69%); EXECUTIVES (68%)

Industry: ARMIES (93%); US ARMY (90%); **ARTIFICIAL INTELLIGENCE** (89%); ARMED FORCES (78%); UNMANNED MILITARY AIRCRAFT (78%); MILITARY HELICOPTERS (73%); UNMANNED AIRCRAFT (72%); HELICOPTERS (60%)

Geographic: VIRGINIA, USA (92%); UNITED STATES (79%)

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INTERNATIONAL PATENT: REPUBLIC OF KOREA(NATIONAL DISASTER MANAGEMENT RESEARCH INSTITUTE), 대한민국(행정안전ǥ....

INTERNATIONAL PATENT: REPUBLIC OF KOREA(NATIONAL DISASTER MANAGEMENT RESEARCH INSTITUTE),
대한민국(행정안전부
국립재난안전연구원장) FILES APPLICATION FOR "SYSTEM FOR INTEGRATED MANAGEMENT OF DISASTER SAFETY KNOWLEDGE USING AI"

US Fed News

April 16, 2024 Tuesday 2:17 AM EST

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Length: 684 words

Dateline: GENEVA

Body

GENEVA, April 16 -- REPUBLIC OF KOREA(NATIONAL **DISASTER** MANAGEMENT RESEARCH INSTITUTE) (365 Jongga-roJung-guUlsan 44538), 대한민국(행정안전부국립재난안전연구원장)(울산광역시중구종가로 365) filed a patent application (PCT/KR2023/003258) for "SYSTEM FOR INTEGRATED MANAGEMENT OF **DISASTER** SAFETY KNOWLEDGE USING **AI**" on Mar 09, 2023. With publication no. WO/2024/075911, the details related to the patent application was published on Apr 11, 2024.

Notably, the patent application was submitted under the International Patent Classification (IPC) system, which is managed by the World Intellectual Property Organization (WIPO). Inventor(s): LEE, Dong Man (111-1102 FoilXi Apartment, 13 Naeson-roUiwang-siGyeonggi-do 16034), 이동만(경기도의왕시내손로 13, 포일자이아파트 111동 1102호), CHOI, Seon Hwa (106-201, 73 Baksangjin 3-roBuk-guUlsan 44236), 최선화(울산광역시북구박상진3로 73, 106동 201호), YOON, Sang Hoon (502, Hansol Village, 45 Seongan 3-gilJung-guUlsan 44421), 윤상훈(울산광역시중구성안3길 45, 한솔빌리지 502호), SON, Jong Yeong (202, Prime Villa, 13 Seongan 2-gilJung-guUlsan 44420), 손종영(울산광역시중구성안2길 13, 프라임빌라 202호), KIM, Mi Song (208-1904, Easy the One 2nd round,

INTERNATIONAL PATENT: REPUBLIC OF KOREA(NATIONAL DISASTER MANAGEMENT RESEARCH INSTITUTE), 대한민국(행정안전ǥ...

9 Jeonggwan 2-ro, Jeonggwan-eupGijang-gunBusan 46007), 김미송 (부산광역시기장군정관읍정관2로 9, 이지더원2차 208동 1904호), YOON, Hee Won (708-107, Hansol Greenville, 1617 Samdong-ro, Ungchon-myeonUlju-gunUlsan 44962), 윤희원 (울산광역시울주군웅촌면삼동로 1617 한솔그린빌 708동 107호), RYU, Shin Hye (301, Leaders Officetel,215 Jongga-roJung-guUlsan 44536), 류신혜 (울산광역시중구종가로 215, 리더스오피스텔 301호) Abstract: The present invention relates to a system for the integrated management of disaster safety knowledge using AI, the system enabling a question and answer service about professional knowledge in the field of disaster safety and an automatic reporting service supporting policy planning and report material generation for a specific subject by utilizing an intelligent analysis service for disaster safety data. The system comprises: a disaster safety knowledge base unit connected to a data network; and an artificial intelligence unit for implementing higher-order information processing using artificial intelligence. The disaster safety knowledge base unit includes: a data collection unit for collecting and gathering various kinds of information from external organizations; a data transmission unit for transmitting the gathered information to a server through LTE, 5G, WIFI, or the like; and a big data unit for analyzing and accumulating the transmitted data. The artificial intelligence unit makes determinations and inferences through the cognitive ability (language, voice, vision, sensitivity, etc.) and learning and inference functions of a human to impart intelligence to a machine using fast learning utilizing data. For more information: <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2024075911> For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htlive.com

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Subject: PATENTS (93%); RESEARCH INSTITUTES (90%); SAFETY, ACCIDENTS & DISASTERS (90%); ACCIDENTS & DISASTERS (89%); INTELLECTUAL PROPERTY (78%)

Organization: WORLD INTELLECTUAL PROPERTY ORGANIZATION (82%)

Geographic: SOUTH KOREA (88%)

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OPERATION HOPE BECOMES THE FIRST FINANCIAL LITERACY NONPROFIT TO EMBED ARTIFICIAL INTELLIGENCE INTO ITS MODEL

OPERATION HOPE BECOMES THE FIRST FINANCIAL LITERACY NONPROFIT TO EMBED ARTIFICIAL INTELLIGENCE INTO ITS MODEL

PR Newswire

July 9, 2024 Tuesday 7:00 AM EST

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Length: 706 words

Dateline: ATLANTA, July 9, 2024

Body

PR NewswireThe pioneering organization was awarded a \$500,000 grant from Open **AI** to explore how **artificial intelligence** can increase its impactATLANTA, July 9, 2024 /PRNewswire/ --Operation HOPEhas become the first financial literacy nonprofit organization to embed **artificial intelligence** into its model. Open **AI** awarded its first-ever grant to a community-based organization with \$500,000 to help build out Operation HOPE's financial coaching and support services. The grant was announced in December 2023 during theHOPE Global Forums | Annual Meeting in Atlanta. Operation HOPE CEO John Hope Bryant and Open **AI** CEO Sam Altman also announced the formation of a first-of-its-kind **AI** Ethics Council, which held its inaugural meeting on June 28th.

The pioneering organization was awarded a \$500,000 grant to explore how **artificial intelligence** can increase its impact.To date, Operation HOPE has deployed **artificial intelligence** to:Optimize coaching effectiveness and improve Operation HOPE's client experiences.Apply machine learning to identify specific actions and activities HOPE Financial Coaches can do to improve coach-client interactions.Upgrading the client management system to formulate AI-driven pathways to guide them toward improved outcomes.The partnership evolved when Mr. Altman and Mr. Bryant joined together for a listening tour at Clark Atlanta University in the spring of 2024. They determined that they share concerns about bias and discrimination in **AI**, yet also believe that **AI** can overwhelmingly positively impact lives and create new economic opportunities for people of color. By working with HBCUs and civil rights leaders, who have a rich history as shapers and guardians of civil liberties—along with deep experience in understanding and guiding ethical decision-making during historical-critical junctures—the **AI** Ethics Council is designed to help ensure the inclusivity of marginalized populations and people of color during this economic revolution.At the inaugural meeting, James Hairston, Open **AI**'s Head of International Policy and Partnerships, briefed members on the current state of **AI**, including its challenges and opportunities. Mr. Bryant shared that he will be convening a meeting of tech leaders to advance issues important to the council, and announced **the Council website** will go live July 1, 2024. "I see this website as our first stake in the ground. Its substance will grow, expand, and deepen over time. Transparency will be a hallmark. I encourage all citizens, here and abroad, to get informed and educated around what **AI** really is and isn't," said Mr. Bryant. "As a council, we aim to focus our attention on the needle we can help move: expanding inclusive opportunity around our shared future, for everyone, as it relates to **AI**."A full replay of the conversation between Mr. Bryant and Mr. Altman at the Hope Global Forums can be viewed here.**About Operation HOPE**Since 1992, Operation HOPE has been moving America from civil rights to "silver rights" with the mission of making free enterprise and capitalism work for the underserved – disrupting poverty for millions of low and moderate-income youth and adults across the nation. Through its community uplift model, HOPE Inside, which received the 2016 Innovator of the Year recognition by American Banker magazine, Operation HOPE has served more than 4 million individuals and directed more than \$3.2 billion in economic activity

OPERATION HOPE BECOMES THE FIRST FINANCIAL LITERACY NONPROFIT TO EMBED ARTIFICIAL INTELLIGENCE INTO ITS MODEL

into disenfranchised communities—turning check-cashing customers into banking customers, renters into homeowners, small business dreamers into small business owners, minimum wage workers into living wage consumers, and uncertain **disaster** victims into financially empowered **disaster** survivors. For more information: OperationHOPE.org. Follow the HOPE conversation on Twitter, Facebook, Instagram or LinkedIn. **Operation HOPE Contacts:** Kevin Boucher, Operation HOPE Kevin.boucher@operationhope.org Lalohni Campbell, Per/Se Media Group la@persemediagroup.com

404-593-7145 View original content to download multimedia: <https://www.prnewswire.com/news-releases/operation-hope-becomes-the-first-financial-literacy-nonprofit-to-embed-artificial-intelligence-into-its-model-302191892.html> SOURCE Operation HOPE, Inc.

Classification

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Subject: GRANTS & GIFTS (91%); **ARTIFICIAL INTELLIGENCE** (90%); ASSOCIATIONS & ORGANIZATIONS (90%); NONPROFIT ORGANIZATIONS (90%); PRESS RELEASES (90%); TALKS & MEETINGS (90%); **ARTIFICIAL INTELLIGENCE** ETHICS (89%); ETHICS (89%); CIVIL RIGHTS (86%); DISCRIMINATION (78%); RACE & ETHNICITY (78%); HISTORICALLY BLACK COLLEGES (73%); MACHINE LEARNING (73%); NEGATIVE SOCIETAL NEWS (70%); OPERATION-HOPE-GRANT (%); BLK Black-oriented News (%); NPT Not-for-Profits (%)

Company: Operation HOPE, Inc.

Industry: **ARTIFICIAL INTELLIGENCE** (90%); PERSONAL FINANCE (90%); **ARTIFICIAL INTELLIGENCE** ETHICS (89%); FINANCIAL INCLUSION (89%); HISTORICALLY BLACK COLLEGES (73%); MACHINE LEARNING (73%); EDU Education (%); CPR Computer; Electronics Products (%); FIN Banking; Financial Services (%)

Person: SAM ALTMAN (79%)

Geographic: ATLANTA, GA, USA (93%); GEORGIA, USA (74%); UNITED STATES (79%); Georgia

Load-Date: July 9, 2024

NSF and philanthropic partners invest more than \$18M to prioritize ethical and societal considerations in the creation of emerging technologies

NSF and philanthropic partners invest more than \$18M to prioritize ethical and societal considerations in the creation of emerging technologies

Targeted News Service

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Body

(TNSres) -- The National Science Foundation issued the following news release:

The U.S. National Science Foundation announced an inaugural investment of more than \$18 million to 44 multidisciplinary, multi-sector teams across the U.S. through the NSF Responsible Design, Development and Deployment of Technologies (NSF ReDDDoT) program. NSF ReDDDoT invests in the creation of technologies that promote the public's well-being and mitigate potential harms by seeking to ensure that ethical, legal, community and societal considerations are embedded in the lifecycle of technology's creation and use. NSF launched this program in collaboration with leading philanthropic partners including the Ford Foundation, the Patrick J. McGovern Foundation and Siegel Family Endowment.

"NSF is committed to creating mutually beneficial research collaborations among diverse partners who contribute their expertise and resources to accelerating technology innovation that positively addresses pressing national, societal and geostrategic challenges," said Erwin Gianchandani, assistant director for Technology, Innovation and Partnerships. "Through a robust public-private partnership with philanthropies, NSF's investment in ReDDDoT aims to ensure that TIP advances the design, development and deployment of new technologies responsibly. This investment is consistent with the 'CHIPS and Science Act of 2022,' in which Congress called upon TIP to invest in exactly this approach when pursuing the key technology areas listed in that law."

NSF awarded 30 teams Phase 1 funding: 21 teams will receive planning grants of up to \$300,000 each for up to two years to facilitate collaborative transdisciplinary and multi-sector activities to plan for submission of larger proposals, while an additional nine teams will receive Phase 1 funding of up to \$75,000 each to plan and host workshops designed to raise awareness and identify relevant approaches and needs in the key technology areas identified in the "CHIPS and Science Act of 2022."

Additionally, NSF awarded Phase 2 funding to 14 teams that demonstrated maturity in **artificial intelligence**, biotechnology, or natural and anthropogenic **disaster** prevention or mitigation, key technology areas in the statute that TIP emphasized for ReDDDoT funding. Each Phase 2 team will receive up to \$1.5 million over three years to expand upon their identified experience in use-inspired and translational activities in responsible design, development and deployment of innovative technology.

NSF and philanthropic partners invest more than \$18M to prioritize ethical and societal considerations in the creation of emerging technologies

The ReDDDoT program invited proposals from teams that examined and demonstrated the principles, methodologies and impacts associated with ethical, legal, community and societal considerations of technology's creation and use, especially those specified in the "CHIPS and Science Act of 2022." NSF anticipates issuing a second ReDDDoT funding opportunity in the future that will build on this round of funding to ensure ethical, legal, community, and societal considerations are embedded in the lifecycle of technology's creation.

NSF ReDDDot Awardees

Awardees are grouped by award type and then listed in alphabetical order by organization. The full award list can be found on NSF Award Search webpage.

Planning grants:

- * Carnegie Mellon University: Responsible **AI** Across the Transportation Sector (NSF award 2427699).
- * Case Western Reserve University: Designing a Responsible **AI**-enabled Digital Service Ecosystem in Finance and Healthcare (NSF award 2427505).
- * Data & Society: Assessing Environmental Impacts of **AI** Through Participatory Methods (NSF award 2427700).
- * DePaul University: **AI**-Enabled Support Services for Transplanted Populations: A Community-Centered Design and Development Approach (NSF award 2427713).
- * Georgetown University: Piloting a Framework to Measure the Impacts of **Artificial Intelligence** Tools for Government Agencies (NSF award 2427748).
- * Harvard Medical School: Piloting an Impact Accelerator Model for Cultivating Equity and Ethics in Genetics Innovation (NSF award 2427533).
- * Michigan State University: Supporting Culturally Centered **Artificial Intelligence** Literacy through Community-Engaged Partnerships (NSF award 2427697).
- * New York University: Collaborative award: **AI** Summer Institute on Communities (NSF award 2427677).
- * North Central College: Collaborative award: **AI** Summer Institute on Communities (NSF award 2427678).
- * Northeastern University: An **AI** toolkit for Designing Inclusive Digital Activities for Older Adults (NSF award 2427714).
- * Pennsylvania State University: Prioritization of Housing & Behavioral Health Services to Individuals and Families (NSF award 2427737).
- * Rutgers University: Writing Education through Design-Oriented **AI** (NSF award 2427646).
- * TERC Inc.: Alternative Systems for Human Waste Management (NSF award 2427679).
- * Texas Tech University: Building Community-Driven Resilience and Empowerment through Adaptive Manufacturing Technologies (NSF award 2427747).
- * University of Akron: Materials Advancement through a Precede-Proceed framework for Safety (NSF award 2427693).
- * University of California Santa Cruz: Destigmatizing Disfluencies in Speech **AI** with Grassroots Stuttering Communities (NSF award 2427710).
- * University of Florida: Treatment Technologies for Phosphorus Mitigation (NSF award 2427542).

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- * University of Michigan: Bridging Past and Future: Fostering Community-Researcher Synergy through Planning NSF award 2427332).
- * University of Wisconsin: Novel Cellular Technologies in Ecosystem Preservation: Ethics, Data Sovereignty and Implementation (NSF award 2427636).
- * Vanderbilt University: Towards Responsible Design, Development, and Deployment of a GenAI-Enabled System for Dispatcher Training in Emergency Response (NSF award 2427711).
- * Virginia Tech: Facilitating Responsible, Ethical, and Explainable Ergonomic Exposure Assessments When Using **Artificial Intelligence** Methods (NSF award 2427599).

Workshops:

- * Arizona State University: Indigenous Approaches to Computational Futures (NSF award 2427641).
- * Association of Science-Technology Centers: Exploring Roles of Science and Technology Centers and Museums in Facilitating Public Collaboration in **Artificial Intelligence** (NSF award 2427449).
- * Case Western Reserve University: Employing Public Interest Technologies to Promote Access in Education and Employment for People who have Physical Disabilities (NSF award 2427587).
- * Michigan State University: Generative **AI** Ethics Module Design Sprint for STEM Educators (NSF award 2427666).
- * Texas A&M University: **Artificial Intelligence** and Biosecurity: Technologies and Policy Options to Leverage Opportunities and Mitigate Risks (NSF award 2427760).
- * UC Berkeley: Workshop Towards the Promise of Open-Source **AI** Models - A Workshop to Co-Create a Vision for Responsibility and Corresponding Research Roadmap (NSF award 2427618).
- * UCLA: Responsible Quantum Innovation (NSF award 2427775).
- * University of California, Davis: Responsible **Artificial Intelligence** to Promote Sustainability, Climate Resilience, and Equitable Access to Healthy Food in US Food Systems (NSF award 2427769).
- * Virginia Tech: Situating Network Infrastructure with People, Practices, and Beyond (NSF award 2427606).

Phase 2:

- * Columbia University: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data (NSF award 2429841).
- * Columbia University: Leveraging Urban **AI** as a Communal Tool for Connection and Exchange in Harlem (NSF award 2429672).
- * Development Gateway: The Digital Governance Design Project (NSF award 2429815).
- * Fred Hutchison Cancer Center: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data (NSF award 2429840).
- * Georgetown University: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data NSF award 2429838).
- * Indiana University: Collaborative award: Inclusive American Language Technologies (NSF award 2429338).
- * Iowa State University: Empowering Resilience: Innovations in Rural Electric Network **Disaster** Preparedness and Response (NSF award 2429602).

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- * Louisiana State University: Climate-Informed Flood Risk Mitigation Sandbox (NSF award 2429888).
- * Michigan State University: Collaborative award: A User-Centered Platform for Digital Content Integrity (NSF award 2429836).
- * Mozilla Foundation: Collaborative award: Inclusive American Language Technologies (NSF award 2429337).
- * Rice University: Responsible Multi-Modal **AI** Systems for Multi-Hazard Resilience and Situational Awareness (NSF award 2429680).
- * Rochester Institute of Technology: Collaborative award: A User-Centered Platform for Digital Content Integrity (NSF award 2429835).
- * The University of Mississippi: Collaborative award: A User-Centered Platform for Digital Content Integrity (NSF award 2429837).
- * University of Maryland: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data (NSF award 2429839).

About NSF ReDDDoT

The NSF ReDDDoT program is a collaboration with philanthropic partners and crosses all disciplines of science and engineering. The program seeks to ensure ethical, legal, community and societal considerations are embedded in the lifecycle of technology's creation and use. The program supports research, implementation and education projects involving multi-sector teams that focus on the responsible design, development or deployment of technologies.

Original text here: <https://new.nsf.gov/news/nsf-philanthropic-partners-invest-more-18m-prioritize>

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Organization: NATIONAL SCIENCE FOUNDATION (93%)

NSF and philanthropic partners invest more than \$18M to prioritize ethical and societal considerations in the creation of emerging technologies

Industry: PHARMACEUTICALS & BIOTECHNOLOGY (72%); **ARTIFICIAL INTELLIGENCE** (50%)

Geographic: UNITED STATES (93%)

Load-Date: September 24, 2024

End of Document

USPTO ISSUES TRADEMARK:

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US Fed News

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ALEXANDRIA, Va., Aug. 13 -- The trademark (Serial No. 98292476) was published on Aug. 13, 2024, by USPTO in the Principal Register.

Owner(s): Microsoft Corporation; 255 East Fifth Street, Suite 1900 Cincinnati, OHIO 45202 Mark Information: Standard Character Claim - No Mark Drawing Type - 2 - AN ILLUSTRATION DRAWING WITHOUT ANY WORDS(S)/ LETTER(S) Goods and Services: US Class(es):21, 23, 26, 36, 38 Downloadable software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; recorded computer software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; downloadable computer software applications for providing conversational user interfaces (CUIs) using large language models (LLMs) and generative **artificial intelligence (AI)** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; downloadable mobile applications using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; downloadable computer software using **artificial intelligence** for predictive and corrective text entry, contextual prediction and natural language processing, and writing assistance across documents, emails, and the web; downloadable software using **artificial intelligence** for machine learning; downloadable computer software for collecting, analyzing and organizing data in the field of deep learning; downloadable computer software using generative **artificial intelligence** for locating, analyzing, summarizing, editing, and providing data and information; downloadable computer software applications using generative **artificial intelligence** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; downloadable computer software using generative **artificial intelligence** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; downloadable computer software applications using generative **artificial intelligence** for use in creating, accessing, updating, modifying, translating, organizing, storing, managing, analyzing, synchronizing, transmitting, and sharing data, documents, content, text, images, videos, audio, and information; downloadable software, namely, downloadable computer software applications using **artificial intelligence** for machine learning and for collecting, analyzing and organizing data in the field of deep learning; downloadable software, namely,

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downloadable computer software applications using generative artificial intelligence for collaborating and enhancing user productivity and communication capabilities by connecting users with information, data, content, projects, files, and documents from software applications; downloadable software using artificial intelligence and artificial intelligence techniques to generate content, namely, downloadable software for creating audio, video, and graphic image content; downloadable software for creating user-generated content; downloadable software using artificial intelligence to generate content, namely, downloadable software using artificial intelligence for creating audio, video, and graphic image content; downloadable software for synthesizing human speech and text; downloadable software for processing, generating, understanding, and analyzing natural language; downloadable computer software using artificial intelligence for machine learning-based speech and speech processing; downloadable chatbot software using generative artificial intelligence (AI) for locating, analyzing, summarizing, editing, and providing data and information in response to user inquiries; 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wireless computer peripherals; mobile communications modules being apparatus for transmission of communications for use with tablet computers; headphones; audio speakers; computer keyboards; computer mouse; webcams; digital pens being touch screen pens; electrical power extension cords; battery chargers; electrical cables and cord sets being electrical cables and electric cords sold as a unit; electronic docking stations; computer docking stations; adapters for use with computers and computer peripherals, namely, power adapters, wireless adapters, and plug adapters; USB (universal serial bus) hardware; carrying cases specially adapted for electronic equipment, namely, carrying cases specially adapted for laptops, computers, computer peripherals, cell phones, and tablet computers; computer accessories, namely, computer peripherals, digital touch screen pens, electrical power cords, stands specially adapted for computers and computer peripherals, and computer wall mounts US Class(es):100, 101 Providing online non-downloadable software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; software as a service (SaaS) services featuring software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; providing temporary use of online non-downloadable software applications using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; application service provider (ASP) services, namely, hosting computer software applications of others; application service provider (ASP) featuring software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; providing online non-downloadable software using **artificial intelligence** for providing conversational user interfaces (CUIs) using large language models (LLMs) and generative **artificial intelligence (AI)** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; providing online non-downloadable software using **artificial intelligence** for machine learning; providing temporary use of online non-downloadable computer software for collecting, analyzing and organizing data in the field of deep learning; providing online non-downloadable software using generative

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providing online non-downloadable software for creating user-generated content; providing online non-downloadable software using **artificial intelligence** to generate content, namely, for creating audio, video, and graphic image content; providing online non-downloadable software for synthesizing human speech and text; providing online non-downloadable software for processing, generating, understanding, and analyzing natural language; providing online non-downloadable software using **artificial intelligence** for machine learning-based speech and speech processing; providing temporary use of online non-downloadable chatbot software using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information in response to user inquiries; providing online non-downloadable software for creating and generating text; providing online non-downloadable software for generating **artificial intelligence** and machine learning algorithms; application service provider featuring application programming interface (API) software for enabling **artificial intelligence**, machine learning, and deep learning in software applications; application service provider featuring application programming interface (API) software for enabling generative **artificial intelligence** in software applications; providing online non-downloadable chatbot software for development of skills and knowledge using **artificial intelligence**, namely, online non-downloadable chatbot software using **artificial intelligence** for simulating conversations in response to user questions; providing online non-downloadable software enabling human collaboration with **artificial intelligence**, machine learning, and deep learning to generate content, namely, providing online non-downloadable software using **artificial intelligence** for machine learning and for collecting, analyzing and organizing data in the field of deep learning, all the foregoing for use in generating text, image, audio, and video content; 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providing online non-downloadable software using **artificial intelligence** for search engines, namely, online non-downloadable software using **artificial intelligence** for locating, analyzing, summarizing, editing, and providing data and information from search engines; providing online non-downloadable software using **artificial intelligence** for online digital advertising, namely, for designing online digital advertising materials, managing online digital advertising, and for tracking and analyzing online digital advertising campaigns; providing

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Company: MICROSOFT CORP (91%)

Ticker: MSFT (NASDAQ) (91%)

Industry: SIC7372 PREPACKAGED SOFTWARE (91%); MACHINE LEARNING (92%); GENERATIVE AI (91%); **ARTIFICIAL INTELLIGENCE** (90%); COMPUTER SOFTWARE (90%); DEEP LEARNING (90%); SOFTWARE SERVICES & APPLICATIONS (90%); CONVERSATIONAL AI (89%); INTERNET & WWW (89%); LARGE LANGUAGE MODELS (75%); MOBILE APPLICATIONS (70%)

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Owner(s): Microsoft Corporation; 255 East Fifth Street, Suite 1900 Cincinnati, OHIO 45202 Mark Information: Standard Character Claim - No Mark Drawing Type - 2 - AN ILLUSTRATION DRAWING WITHOUT ANY WORDS(S)/ LETTER(S) Goods and Services: US Class(es):21, 23, 26, 36, 38 Downloadable software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; recorded computer software using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; downloadable computer software applications for providing conversational user interfaces (CUIs) using large language models (LLMs) and generative **artificial intelligence (AI)** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; downloadable mobile applications using **artificial intelligence (AI)** processing, machine learning, and deep learning for providing a virtual assistant using generative **artificial intelligence (AI)** for locating, analyzing, summarizing, editing, and providing data and information; downloadable computer software using **artificial intelligence** for predictive and corrective text entry, contextual prediction and natural language processing, and writing assistance across documents, emails, and the web; downloadable software using **artificial intelligence** for machine learning; downloadable computer software for collecting, analyzing and organizing data in the field of deep learning; downloadable computer software using generative **artificial intelligence** for locating, analyzing, summarizing, editing, and providing data and information; downloadable computer software applications using generative **artificial intelligence** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; downloadable computer software using generative **artificial intelligence** for simulating conversations, natural language processing, and replying to user inquiries to assist users in tasks, decision-making processes, communication, and analyzing data across multiple applications and the internet; downloadable computer software applications using generative **artificial intelligence** for use in creating, accessing, updating, modifying, translating, organizing, storing, managing, analyzing, synchronizing, transmitting, and sharing data, documents, content, text, images, videos, audio, and information; downloadable software, namely, downloadable computer software applications using **artificial intelligence** for machine learning and for collecting, analyzing and organizing data in the field of deep learning; downloadable software, namely,

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providing online non-downloadable software using **artificial intelligence** for search engines, namely, online non-downloadable software using **artificial intelligence** for locating, analyzing, summarizing, editing, and providing data and information from search engines; providing online non-downloadable software using **artificial intelligence** for online digital advertising, namely, for designing online digital advertising materials, managing online digital advertising, and for tracking and analyzing online digital advertising campaigns; providing

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online non-downloadable software using **artificial intelligence** for providing online news and information, namely, online non-downloadable software for use in viewing news feeds, news articles, photos, and videos; providing online non-downloadable software using **artificial intelligence** for data privacy management; providing online non-downloadable software using **artificial intelligence** for use in business management, marketing management, providing data and sales information for customer relationship management (CRM), enterprise business management, financial management, and accounting; providing online non-downloadable software using **artificial intelligence** for data governance and management; providing online non-downloadable software using **artificial intelligence** for cloud computing, namely, providing online non-downloadable software for connecting users to computing resources to promote workflow efficiency, provide workflow insights, and increase collaboration; providing online non-downloadable software using **artificial intelligence** for data communication and data exchange on computer networks and global computer networks; providing online non-downloadable software using **artificial intelligence** for use in communication and telecommunication services, namely, for creating, accessing, analyzing, updating, modifying, translating, organizing, storing, managing, synchronizing, transmitting, and sharing data, documents, content, text, images, videos, audio, and information; providing online non-downloadable software using **artificial intelligence** for accessing computer networks and global communications networks; providing online non-downloadable software using **artificial intelligence** for computer programming, cyber security, computer security, application security, hardware security, network security, infrastructure security, operational security, cloud and hybrid environment security, internet of things security, database security, endpoint security, security for internet-connected devices, information security, internet security, information technology, computer science and technology, privacy, data security and management, cyber security strategies and countering security threats, security risk management and response, security architecture, computer and network threat detection and remediation, security management and solutions, identity and access management, security attacks and responses, security **disaster** recovery, and exploit analysis, namely, providing online non-downloadable software using **artificial intelligence** for computer programming and for restricting unauthorized access to computer systems, monitoring of computer systems, detecting unauthorized access or data breach, and scanning, detecting, and eliminating of viruses, spyware, adware, malware and unauthorized data and programs on computers and electronic devices; providing online non-downloadable software using **artificial intelligence** for creating web-based software applications, for data syncing, data storage, archiving, and backup, for database management, for virtualization, for computer networking, for collaboration on shared documents, for remote access being the provision of remote access to data or documents stored electronically in central files, for remote technical support in the nature of remote troubleshooting of computer software problems and troubleshooting of web and database applications, for use in cloud computing in the nature of connecting users to data and information stored on the cloud, for data sharing, data visualization, data processing, and data analysis, for data encryption and computer security threat analysis for data security purposes, for accessing, administration and management of computer software applications and computer hardware, for computer software application distribution, for transmission of voice, data, images, audio, video, and information, for content management being data management, for online project management, for developing predictive digital marketing models, and for facilitating online conferences, meetings, demonstrations, tours, presentations and interactive discussions; providing online non-downloadable software using **artificial intelligence** for operating computer system programs and utilities, accessing virtual desktop platforms and controlling and managing access server applications, performing computer maintenance, document and database management, data transmission, controlling and managing computer network security, and for malware protection by detecting and eliminating malware on computers and electronic devices; providing online non-downloadable software using **artificial intelligence** for providing information in the field of computers, computer software, and computer systems For any query with respect to this article or any other content requirement, please contact Editor at

contentservices@htdigital.in

Classification

Language: ENGLISH

USPTO ISSUES TRADEMARK:

Publication-Type: Newswire

Subject: MACHINE LEARNING (92%); GENERATIVE **AI** (91%); **ARTIFICIAL INTELLIGENCE** (90%); DEEP LEARNING (90%); TRADEMARKS (90%); CONVERSATIONAL **AI** (89%); NATURAL LANGUAGE PROCESSING (89%); PRODUCTIVITY (78%); LARGE LANGUAGE MODELS (75%)

Company: MICROSOFT CORP (91%)

Ticker: MSFT (NASDAQ) (91%)

Industry: SIC7372 PREPACKAGED SOFTWARE (91%); MACHINE LEARNING (92%); GENERATIVE **AI** (91%); **ARTIFICIAL INTELLIGENCE** (90%); COMPUTER SOFTWARE (90%); DEEP LEARNING (90%); SOFTWARE SERVICES & APPLICATIONS (90%); CONVERSATIONAL **AI** (89%); INTERNET & WWW (89%); LARGE LANGUAGE MODELS (75%); MOBILE APPLICATIONS (70%)

Geographic: CINCINNATI, OH, USA (58%); VIRGINIA, USA (90%); OHIO, USA (58%)

Load-Date: August 16, 2024

End of Document

NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

States News Service

September 23, 2024 Monday

Copyright 2024 States News Service

Length: 1540 words

Byline: States News Service

Dateline: ALEXANDRIA, Va.

Body

The following information was released by the National Science Foundation (NSF):

Awardees will contribute to the responsible advancement of emerging technologies to promote the public's well-being and mitigate potential harms

September 23, 2024

The U.S. National Science Foundation announced an inaugural investment of more than \$18 million to 44 multidisciplinary, multi-sector teams across the U.S. through the NSF Responsible Design, Development and Deployment of Technologies (NSF ReDDDoT) program. NSF ReDDDoT invests in the creation of technologies that promote the public's well-being and mitigate potential harms by seeking to ensure that ethical, legal, community and societal considerations are embedded in the lifecycle of technology's creation and use. NSF launched this program in collaboration with leading philanthropic partners including the Ford Foundation, the Patrick J. McGovern Foundation and Siegel Family Endowment.

"NSF is committed to creating mutually beneficial research collaborations among diverse partners who contribute their expertise and resources to accelerating technology innovation that positively addresses pressing national, societal and geostrategic challenges," said Erwin Gianchandani, assistant director for Technology, Innovation and Partnerships. "Through a robust public-private partnership with philanthropies, NSF's investment in ReDDDoT aims to ensure that TIP advances the design, development and deployment of new technologies responsibly. This investment is consistent with the 'CHIPS and Science Act of 2022,' in which Congress called upon TIP to invest in exactly this approach when pursuing the key technology areas listed in that law."

NSF awarded 30 teams Phase 1 funding: 21 teams will receive planning grants of up to \$300,000 each for up to two years to facilitate collaborative transdisciplinary and multi-sector activities to plan for submission of larger proposals, while an additional nine teams will receive Phase 1 funding of up to \$75,000 each to plan and host workshops designed to raise awareness and identify relevant approaches and needs in the key technology areas identified in the "CHIPS and Science Act of 2022."

Additionally, NSF awarded Phase 2 funding to 14 teams that demonstrated maturity in **artificial intelligence**, biotechnology, or natural and anthropogenic **disaster** prevention or mitigation, key technology areas in the statute

NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

that TIP emphasized for ReDDDoT funding. Each Phase 2 team will receive up to \$1.5 million over three years to expand upon their identified experience in use-inspired and translational activities in responsible design, development and deployment of innovative technology.

The ReDDDoT program invited proposals from teams that examined and demonstrated the principles, methodologies and impacts associated with ethical, legal, community and societal considerations of technology's creation and use, especially those specified in the "CHIPS and Science Act of 2022." NSF anticipates issuing a second ReDDDoT funding opportunity in the future that will build on this round of funding to ensure ethical, legal, community, and societal considerations are embedded in the lifecycle of technology's creation.

Planning grants:

Carnegie Mellon University: Responsible **AI** Across the Transportation Sector (NSF award 2427699).

Case Western Reserve University: Designing a Responsible **AI**-enabled Digital Service Ecosystem in Finance and Healthcare (NSF award 2427505).

Data and Society: Assessing Environmental Impacts of **AI** Through Participatory Methods (NSF award 2427700).

DePaul University: **AI**-Enabled Support Services for Transplanted Populations: A Community-Centered Design and Development Approach (NSF award 2427713).

Georgetown University: Piloting a Framework to Measure the Impacts of **Artificial Intelligence** Tools for Government Agencies (NSF award 2427748).

Harvard Medical School: Piloting an Impact Accelerator Model for Cultivating Equity and Ethics in Genetics Innovation (NSF award 2427533).

Michigan State University: Supporting Culturally Centered **Artificial Intelligence** Literacy through Community-Engaged Partnerships (NSF award 2427697).

New York University: Collaborative award: **AI** Summer Institute on Communities (NSF award 2427677).

North Central College: Collaborative award: **AI** Summer Institute on Communities (NSF award 2427678).

Northeastern University: An **AI** toolkit for Designing Inclusive Digital Activities for Older Adults (NSF award 2427714).

Pennsylvania State University: Prioritization of Housing and Behavioral Health Services to Individuals and Families (NSF award 2427737).

Rutgers University: Writing Education through Design-Oriented **AI** (NSF award 2427646).

TERC Inc.: Alternative Systems for Human Waste Management (NSF award 2427679).

Texas Tech University: Building Community-Driven Resilience and Empowerment through Adaptive Manufacturing Technologies (NSF award 2427747).

University of Akron: Materials Advancement through a Precede-Proceed framework for Safety (NSF award 2427693).

University of California Santa Cruz: Destigmatizing Disfluencies in Speech **AI** with Grassroots Stuttering Communities (NSF award 2427710).

University of Florida: Treatment Technologies for Phosphorus Mitigation (NSF award 2427542).

NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

University of Michigan: Bridging Past and Future: Fostering Community-Researcher Synergy through Planning NSF award 2427332).

University of Wisconsin: Novel Cellular Technologies in Ecosystem Preservation: Ethics, Data Sovereignty and Implementation (NSF award 2427636).

Vanderbilt University: Towards Responsible Design, Development, and Deployment of a GenAI-Enabled System for Dispatcher Training in Emergency Response (NSF award 2427711).

Virginia Tech: Facilitating Responsible, Ethical, and Explainable Ergonomic Exposure Assessments When Using **Artificial Intelligence** Methods (NSF award 2427599).

Workshops:

Arizona State University: Indigenous Approaches to Computational Futures (NSF award 2427641).

Association of Science-Technology Centers: Exploring Roles of Science and Technology Centers and Museums in Facilitating Public Collaboration in **Artificial Intelligence** (NSF award 2427449).

Case Western Reserve University: Employing Public Interest Technologies to Promote Access in Education and Employment for People who have Physical Disabilities (NSF award 2427587).

Michigan State University: Generative **AI** Ethics Module Design Sprint for STEM Educators (NSF award 2427666).

Texas AandM University: **Artificial Intelligence** and Biosecurity: Technologies and Policy Options to Leverage Opportunities and Mitigate Risks (NSF award 2427760).

UC Berkeley: Workshop Towards the Promise of Open-Source **AI** Models - A Workshop to Co-Create a Vision for Responsibility and Corresponding Research Roadmap (NSF award 2427618).

UCLA: Responsible Quantum Innovation (NSF award 2427775).

University of California, Davis: Responsible **Artificial Intelligence** to Promote Sustainability, Climate Resilience, and Equitable Access to Healthy Food in US Food Systems (NSF award 2427769).

Virginia Tech: Situating Network Infrastructure with People, Practices, and Beyond (NSF award 2427606).

Phase 2:

Columbia University: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data (NSF award 2429841).

Columbia University: Leveraging Urban **AI** as a Communal Tool for Connection and Exchange in Harlem (NSF award 2429672).

Development Gateway: The Digital Governance Design Project (NSF award 2429815).

Fred Hutchison Cancer Center: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data (NSF award 2429840).

Georgetown University: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data NSF award 2429838).

Indiana University: Collaborative award: Inclusive American Language Technologies (NSF award 2429338).

Iowa State University: Empowering Resilience: Innovations in Rural Electric Network **Disaster** Preparedness and Response (NSF award 2429602).

NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

Louisiana State University: Climate-Informed Flood Risk Mitigation Sandbox (NSF award 2429888).

Michigan State University: Collaborative award: A User-Centered Platform for Digital Content Integrity (NSF award 2429836).

Mozilla Foundation: Collaborative award: Inclusive American Language Technologies (NSF award 2429337).

Rice University: Responsible Multi-Modal **AI** Systems for Multi-Hazard Resilience and Situational Awareness (NSF award 2429680).

Rochester Institute of Technology: Collaborative award: A User-Centered Platform for Digital Content Integrity (NSF award 2429835).

The University of Mississippi: Collaborative award: A User-Centered Platform for Digital Content Integrity (NSF award 2429837).

University of Maryland: Collaborative award: Enabling Participatory Privacy Protections for **AI** Training Data (NSF award 2429839).

About NSF ReDDDoT

The NSF ReDDDoT program is a collaboration with philanthropic partners and crosses all disciplines of science and engineering. The program seeks to ensure ethical, legal, community and societal considerations are embedded in the lifecycle of technology's creation and use. The program supports research, implementation and education projects involving multi-sector teams that focus on the responsible design, development or deployment of technologies.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: TECHNOLOGY (93%); EMERGING TECHNOLOGY (92%); CHARITIES (90%); ETHICS (90%); FOUNDATIONS (90%); PHILANTHROPY (90%); SCIENCE FUNDING (90%); SOCIETY, SOCIAL ASSISTANCE & LIFESTYLE (90%); PRODUCT INNOVATION (89%); COLLABORATIVE RESEARCH & DEVELOPMENT (77%); PUBLIC PRIVATE PARTNERSHIPS (77%); BIOTECHNOLOGY & GENETIC SCIENCE (69%); **ARTIFICIAL INTELLIGENCE** (50%)

Organization: NATIONAL SCIENCE FOUNDATION (91%)

Industry: PHARMACEUTICALS & BIOTECHNOLOGY (71%); **ARTIFICIAL INTELLIGENCE** (50%)

Geographic: VIRGINIA, USA (79%); UNITED STATES (92%)

Load-Date: September 23, 2024

NSF AND PHILANTHROPIC PARTNERS INVEST MORE THAN \$18M TO PRIORITIZE ETHICAL AND SOCIETAL CONSIDERATIONS IN THE CREATION OF EMERGING TECHNOLOGIES

End of Document

CEC Research Optimizes Autonomous Drone Swarms With AI for Potential Disaster Response Applications

Targeted News Service

August 24, 2024 Saturday 8:50 AM EST

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Length: 887 words

Byline: Targeted News Service

Dateline: OXFORD, Ohio

Body

(TNSres) -- Miami University issued the following news:

* * *

Gowtham Raj Veeraswamy Premkumar, M.S. '24 and CEC assistant professor Bryan Van Scoy's research optimally places cellular connectivity where it is most needed.

* * *

By Katie Rottner, University Communications and Marketing

On a typical day, finding yourself without cell reception is an inconvenience. But in a **disaster** scenario requiring on-the-ground rescue response, a lack of connectivity can mean life or death. Assistant Professor of Electrical and Computer Engineering Bryan Van Scoy and recent Master of Science graduate Gowtham Raj Veeraswamy Premkumar have collaborated on research that can be applied to **disaster** scenarios to reinstate cellular connectivity when base towers are down by using swarms of autonomous drones optimized with machine learning.

"What we are trying to do is provide a swarm of UAVs [Unmanned Aerial Vehicles, often referred to as drones] which would provide network connectivity without base stations," said Gowtham Raj, who graduated from the College of Engineering and Computing in May 2024 with a Master of Science in Electrical and Computer Engineering. "They get connectivity directly from the satellite, and each drone can provide a network for 20 users." Gowtham Raj explained that with this functionality, the drone swarm (a group of interconnected drones) could act as a remote base station which can move to where it is most needed. "My part in this research is to make these drones fly autonomously, without any human intervention," he said.

UAVs, or drones, are currently used in a number of ways in society. They're used for deliveries, for surveillance, and for fun. But in most applications, UAVs are operated through a remote control system, with a person physically controlling the operation of the drone. However, in Gowtham Raj and Van Scoy's use case, manual operation of an entire swarm of drones is too complicated for one remote control. Because of this, **artificial intelligence** is

CEC Research Optimizes Autonomous Drone Swarms With AI for Potential Disaster Response Applications

incorporated into the operation of the interconnected drone swarms, so that they can optimally position themselves where they are most needed.

In a continuation of research first conducted by Ran Zhang, Ph.D., former assistant professor of Electrical and Computer Engineering at Miami University, Gowtham Raj and Van Scoy's research incorporates neural networks and deep reinforcement learning to provide a central control action for all the drones. In the first iteration of this research with former assistant professor Zhang, each individual drone had "its own 'brain' to position itself where the ground users are," said Gowtham Raj. However, he said, in this subsequent phase of the research, "a centralized algorithm positions these drones as a swarm." In other words, one central control action controls all the drones and optimally positions itself where the users are, autonomously. This allows more drones to work together to provide more connectivity for an optimal number of ground users.

The deep reinforcement learning used by Gowtham Raj and Van Scoy in this project is an advanced machine learning technique currently at work in technologies like ChatGPT. Using this advanced machine learning, the research duo has focused on reducing the time complexity of drone swarm positioning. "The central algorithm had some time issues: it took more time to position where the ground users are," Gowtham Raj said. To solve this, "we did mathematical optimization on how to position the drones where there are a maximum number of users." Using industrial optimization solvers and mathematical modeling around the constraints of drone bandwidth and operational boundaries, Gowtham Raj and Van Scoy worked on how to ensure the drone swarm flew autonomously to areas where there were a large number of users in need of connection.

Gowtham Raj and Van Scoy's research centered on a simulation environment with disaster response as just one possible application for their work. Their research focused on drone swarm operations in which the swarms autonomously traveled to "places where there are dense clusters of users, rather than going to a place where there are no users and when the resources are spent unnecessarily," Gowtham Raj said.

Originally from South India, Gowtham Raj's time at Miami University has included more than just exceptional research opportunities. He said his time as a graduate student in Oxford has been "the best two years of my life, because I have a great friend circle" with other graduate and Ph.D. students from across the university. His relationship with Van Scoy has also been extremely positive. "(Van Scoy) supported me a lot," Gowtham Raj said. "He motivated me until the end. He showed me the path, and I traveled towards that, and that's how this ended successfully."

For his part, Van Scoy is just as appreciative of Gowtham Raj's efforts and talents. "'Gowtham Raj has been exceptionally motivated to succeed,'" said the Electrical and Computer Engineering faculty member, a department which celebrates its 20th anniversary this academic year. "This helped him persevere ... to successfully complete his master's degree at Miami University."

* * *

Original text here: <https://miamioh.edu/cec/news-events/2024/08/gowtham-raj-van-scoy.html>

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MSTRUCK-8787793 MSTRUCK

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: ACCIDENTS & DISASTERS (90%); COLLEGE & UNIVERSITY PROFESSORS (90%); COMPUTER

CEC Research Optimizes Autonomous Drone Swarms With AI for Potential Disaster Response Applications

ENGINEERING (90%); **DISASTER** RELIEF (90%); ENGINEERING (90%); SAFETY, ACCIDENTS & DISASTERS (90%); **ARTIFICIAL INTELLIGENCE** (89%); DEEP LEARNING (89%); ELECTRICAL ENGINEERING (89%); MACHINE LEARNING (89%); NEGATIVE NEWS (89%); COLLEGES & UNIVERSITIES (79%); NEURAL NETWORKS (77%); SURVEILLANCE (77%)

Industry: UNMANNED AIRCRAFT (92%); AUTONOMOUS VEHICLES (90%); COLLEGE & UNIVERSITY PROFESSORS (90%); COMPUTER ENGINEERING (90%); ENGINEERING (90%); MOBILE & CELLULAR COMMUNICATIONS (90%); **ARTIFICIAL INTELLIGENCE** (89%); DEEP LEARNING (89%); ELECTRICAL ENGINEERING (89%); MACHINE LEARNING (89%); COLLEGES & UNIVERSITIES (79%); COMPUTER NETWORKS (78%); AIRCRAFT (77%); NEURAL NETWORKS (77%); REMOTE CONTROL DEVICES (70%)

Geographic: OHIO, USA (79%)

Load-Date: August 24, 2024

End of Document

CU BOULDER PIONEERS CULTURALLY SENSITIVE AI SOLUTIONS FOR DISASTERS

States News Service

May 8, 2024 Wednesday

Copyright 2024 States News Service

Length: 643 words

Byline: States News Service

Dateline: BOULDER, Colo.

Body

The following information was released by the University of Colorado - Boulder:

By Susan Glairon

In **disaster** and emergency management, rescue teams rely on simple tools, like drones and mobile devices connected to the internet, to take photos of damaged buildings and document the resulting destruction. First responders use this information to prioritize where help is needed immediately and in the long-term.

At the same time, many emergency response agencies have been slow to embrace advanced tools like **artificial intelligence (AI)** due to concerns of complexity, training needs, initial costs and the potential impact on their work, said Professor Amir H. Behzadan, of CU Boulder's Department of Civil, Environmental and Architectural Engineering and a faculty research fellow of the Natural Hazards Center at the Institute of Behavioral Science.

"This hesitation, along with a historical lack of diversity in the workforce, has contributed to delayed and unfair treatment of communities hit hardest by disasters," Behzadan said. "Lower-income **disaster** survivor homeowners are not only less likely to receive assistance compared to wealthier counterparts, but also tend to receive substantially less aid."

On April 19, Behzadan hosted a workshop titled "AI4DM - Harnessing **Artificial Intelligence (AI)** for **Disaster** Management: Bridging Research, Practice, and Community Engagement," with participants from academia, **disaster** management practitioners and **disaster** nonprofits. Attendees included representatives from CU Boulder, Texas A&M University, University of Florida, University of North Texas, University of Texas at Arlington, and University of Albany along with the Colorado Office of Emergency Management.

The workshop was supported by Behzadan's NSF grant from the Future of Work: Human-Technology Frontier program, which aims to raise awareness of **AI** and related technologies in **disaster** management. Participants were introduced to human-centered **AI** applications in **disaster** management and encouraged to work toward ways to adopt **AI**-informed solutions.

"**AI** can be applied in **disaster** management for various purposes, such as generating instant **disaster** data visualizations; providing interview training and reskilling/upskilling for employees; assessing and mapping **disaster** damage; and enhancing **disaster** risk messaging and communication strategies," Behzaden said.

CU BOULDER PIONEERS CULTURALLY SENSITIVE AI SOLUTIONS FOR DISASTERS

Human-centered **AI** focuses on designing **AI** systems that prioritize human needs, values, expectations and experiences, aiming for beneficial, equitable, safe and ethical outcomes. In **disaster** and emergency management, this includes increased representation of data from marginalized groups, using inclusive communication strategies that resonate with at-risk communities, considering linguistic and cultural sensitivities and removing personal biases when assessing community needs during disasters.

"Human-centered **AI** leads to more effective **disaster** response and recovery practices by promoting collaboration, understanding and inclusivity among team members, survivors and stakeholders," Behzadan said. "It helps create equitable solutions that address the needs of all affected communities, regardless of their socioeconomic and cultural backgrounds."

Behzaden and his team plan to pursue additional funding to sustain these efforts. While leveraging their existing partnerships in Texas and Florida, they are also forging new relationships with local communities as well as **disaster** and emergency management organizations in Colorado who will ultimately be the beneficiaries of these technologies.

"The success of any technology hinges on its adoption by the intended end users," Behzadan said. "Understanding user needs and preferences, especially when working with vulnerable groups, is crucial for meaningful adoption and realizing the full potential of technological advancements."

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: SAFETY, ACCIDENTS & DISASTERS (91%); ACCIDENTS & DISASTERS (90%); **ARTIFICIAL INTELLIGENCE** (90%); **DISASTER** & EMERGENCY RELIEF (90%); **DISASTER** RELIEF (90%); **DISASTER** & EMERGENCY AGENCIES (89%); EMPLOYEE RETRAINING (89%); HUMAN IN THE LOOP (89%); RESCUE OPERATIONS (89%); RESKILLING & UPSKILLING (89%); TECHNOLOGY (89%); COLLEGE & UNIVERSITY PROFESSORS (78%); EMERGENCY SERVICES (78%); FUTURE OF WORK (78%); LABOR FORCE (78%); NONPROFIT ORGANIZATIONS (78%); RESEARCH INSTITUTES (78%); WORKPLACE DIVERSITY & INCLUSION (78%); ARCHITECTURE (77%); BEHAVIOR & COGNITION (75%); EMPLOYEE TRAINING (75%); WORKPLACE TRENDS (75%); ENGINEERING (74%); ETHICS (74%); GRANTS & GIFTS (73%); SCIENCE FUNDING (73%); ARCHITECTURAL SERVICES (72%); LOW INCOME PERSONS (72%); LINGUISTICS (60%); LANGUAGE & LANGUAGES (50%)

Company: **AI** SYSTEMS (52%)

Organization: UNIVERSITY OF COLORADO (84%); NORTH TEXAS UNIVERSITY (54%); UNIVERSITY OF FLORIDA (54%)

Industry: SIC7372 PREPACKAGED SOFTWARE (52%); **ARTIFICIAL INTELLIGENCE** (90%); COLLEGE & UNIVERSITY PROFESSORS (78%); DATA VISUALIZATION (78%); ARCHITECTURE (77%); ENGINEERING (74%); ARCHITECTURAL SERVICES (72%); MOBILE DEVICES (72%); ARCHITECTURE, DESIGN & ENGINEERING (69%)

CU BOULDER PIONEERS CULTURALLY SENSITIVE AI SOLUTIONS FOR DISASTERS

Geographic: COLORADO, USA (93%); TEXAS, USA (93%); FLORIDA, USA (69%)

Load-Date: May 13, 2024

End of Document

ERNST EXPOSES SBA'S LACK OF IT SECURITY AS THE AGENCY PURSUES AI TECHNOLOGY

States News Service

May 29, 2024 Wednesday

Copyright 2024 States News Service

Length: 478 words

Byline: States News Service

Dateline: WASHINGTON

Body

The following information was released by Iowa Senator Joni Ernst:

SBA has publicly touted its "**artificial intelligence** tools" yet continues to report that it has not used **AI**.

WASHINGTON U.S. Senator Joni Ernst (R-Iowa), Ranking Member of the Senate Small Business Committee, is exposing Biden's Small Business Administration (SBA) for pursuing costly **Artificial Intelligence (AI)** technology while many SBA offices and programs lack even basic internet technology (IT) security, putting Americans' personal information at risk.

The SBA has mainly used its \$22 million IT Working Capital Fund (IT WCF) to prioritize pet projects that support questionable policy changes and **AI**, while the agency as a whole continues to fail federal IT standards and has significant security risks in its systems. Additionally, the SBA has not complied with an executive order that directs federal agencies to list where and how they use **AI**.

To get answers and accountability, Ernst is calling on SBA Administrator Guzman to provide a full accounting of how SBA is making investments from their IT Working Capital Fund budget.

She wrote, "It is vital the SBA use its IT WCF for authorized purposes only and make appropriate investments to modernize IT infrastructure throughout the agency. The SBA has not done so, reportedly spending significant funds on IT projects within some divisions, such as the Office of Capital Access, even as other offices appear to lack the capacity to perform basic IT functions, like importing data from Excel spreadsheets.

"Specifically, SBA was cited as having ineffective management when it came to risk, supply chain risk, IT configurations, and identity and access policies. It also had ineffective data protection and privacy, security training for personnel, information security continuous monitoring capabilities, and contingency planning.

"The SBA needs to do better, especially given the fact that thousands of Social Security Numbers were used to commit fraud and identity theft in the Paycheck Protection Program (PPP) and COVID-19 Economic Injury **Disaster** Loan (COVID-19 EIDL) programs.

"Additionally, the SBA has not complied with Executive Order (EO) 13960, Promoting the Use of Trustworthy **Artificial Intelligence** in the Federal Government, which directs federal agencies to list where and how they use **AI**. The SBA has touted its '**artificial intelligence** tools for fraud review on all loans in the 7(a) and 504 Loan

ERNST EXPOSES SBA'S LACK OF IT SECURITY AS THE AGENCY PURSUES AI TECHNOLOGY

Programs,' 'sophisticated automated reviews,' 'advanced data analytics,' 'machine learning functionality,' and 'artificial intelligence and machine learning solutions.' The SBA also launched an updated Lender Match tool that verifies borrowers and screens for fraud. In a recent interview, you stated that the SBA has embraced AI. Despite this, the SBA has not been transparent and reports that it has not used AI."

Read the letter here.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: SMALL BUSINESS (91%); ARTIFICIAL INTELLIGENCE (90%); TECHNOLOGY (90%); US CONGRESS (90%); EXECUTIVE ORDERS (89%); GOVERNMENT BODIES & OFFICES (89%); GOVERNMENT DEPARTMENTS & AUTHORITIES (89%); NEGATIVE PERSONAL NEWS (89%); SMALL BUSINESS LENDING (89%); US FEDERAL GOVERNMENT (89%); COVID-19 CORONAVIRUS ASSISTANCE & STIMULUS PLANS (85%); US REPUBLICAN PARTY (79%); ARTIFICIAL INTELLIGENCE REGULATION & POLICY (78%); DATA ANALYTICS (78%); DATA PROTECTION LAWS (78%); DATA SCIENCE (78%); GOVERNMENT & PUBLIC ADMINISTRATION (78%); MACHINE LEARNING (78%); SMALL BUSINESS ASSISTANCE (78%); BUSINESS ANALYTICS (77%); NEGATIVE NEWS (77%); SOCIAL SECURITY (77%); ONLINE IDENTITY THEFT (76%); IDENTITY THEFT (75%); INTERVIEWS (73%); ACCIDENTS & DISASTERS (70%); WORKING CAPITAL (70%); FALSE IDENTITY (68%); FRAUD & FINANCIAL CRIME (66%); EMPLOYEE TRAINING & ASSISTANCE (62%); COVID CORONAVIRUS (61%); COVID-19 CORONAVIRUS (61%)

Organization: SMALL BUSINESS ADMINISTRATION (58%)

Industry: ARTIFICIAL INTELLIGENCE (90%); INFORMATION SECURITY & PRIVACY (89%); SMALL BUSINESS LENDING (89%); ARTIFICIAL INTELLIGENCE REGULATION & POLICY (78%); DATA ANALYTICS (78%); DATA PROTECTION LAWS (78%); DATA SCIENCE (78%); DATA SECURITY (78%); INFORMATION MANAGEMENT & TECHNOLOGY (78%); MACHINE LEARNING (78%); BUSINESS ANALYTICS (77%); COMPUTER NETWORKS (77%); ONLINE IDENTITY THEFT (76%); BUDGETS (75%); COMPUTING & INFORMATION TECHNOLOGY (72%); INTERNET & WWW (72%)

Person: JONI ERNST (90%)

Geographic: IOWA, USA (92%); UNITED STATES (94%)

Load-Date: June 3, 2024

Ernst Exposes SBA's Lack of IT Security as the Agency Pursues AI Technology

Targeted News Service

May 29, 2024 Wednesday 9:17 PM EST

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Length: 508 words

Byline: Targeted News Service

Dateline: WASHINGTON

Body

Sen. Joni Ernst, R-Iowa, issued the following news release:

SBA has publicly touted its "**artificial intelligence** tools" yet continues to report that it has not used **AI**.

Senator Joni Ernst (R-Iowa), Ranking Member of the Senate Small Business Committee, is exposing Biden's Small Business Administration (SBA) for pursuing costly **Artificial Intelligence (AI)** technology while many SBA offices and programs lack even basic internet technology (IT) security, putting Americans' personal information at risk.

The SBA has mainly used its \$22 million IT Working Capital Fund (IT WCF) to prioritize pet projects that support questionable policy changes and **AI**, while the agency as a whole continues to fail federal IT standards and has significant security risks in its systems. Additionally, the SBA has not complied with an executive order that directs federal agencies to list where and how they use **AI**.

To get answers and accountability, Ernst is calling on SBA Administrator Guzman to provide a full accounting of how SBA is making investments from their IT Working Capital Fund budget.

She wrote, "It is vital the SBA use its IT WCF for authorized purposes only and make appropriate investments to modernize IT infrastructure throughout the agency. The SBA has not done so, reportedly spending significant funds on IT projects within some divisions, such as the Office of Capital Access, even as other offices appear to lack the capacity to perform basic IT functions, like importing data from Excel spreadsheets.

"Specifically, SBA was cited as having ineffective management when it came to risk, supply chain risk, IT configurations, and identity and access policies. It also had ineffective data protection and privacy, security training for personnel, information security continuous monitoring capabilities, and contingency planning.

"The SBA needs to do better, especially given the fact that thousands of Social Security Numbers were used to commit fraud and identity theft in the Paycheck Protection Program (PPP) and COVID-19 Economic Injury **Disaster** Loan (COVID-19 EIDL) programs.

"Additionally, the SBA has not complied with Executive Order (EO) 13960, Promoting the Use of Trustworthy **Artificial Intelligence** in the Federal Government, which directs federal agencies to list where and how they use **AI**.

Ernst Exposes SBA's Lack of IT Security as the Agency Pursues AI Technology

The SBA has touted its '**artificial intelligence** tools for fraud review on all loans in the 7(a) and 504 Loan Programs,' 'sophisticated automated reviews,' 'advanced data analytics,' 'machine learning functionality,' and '**artificial intelligence** and machine learning solutions.' The SBA also launched an updated Lender Match tool that verifies borrowers and screens for fraud. In a recent interview, you stated that the SBA has embraced **AI**. Despite this, the SBA has not been transparent and reports that it has not used **AI**."

Read the letter here.

Original text here: <https://www.ernst.senate.gov/news/press-releases/ernst-exposes-sbas-lack-of-it-security-as-the-agency-pursues-ai-technology>

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Organization: SMALL BUSINESS ADMINISTRATION (58%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); INFORMATION SECURITY & PRIVACY (89%); ONLINE SECURITY & PRIVACY (89%); SMALL BUSINESS LENDING (89%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (78%); DATA ANALYTICS (78%); DATA SCIENCE (78%); INFORMATION MANAGEMENT & TECHNOLOGY (78%); MACHINE LEARNING (78%); BUSINESS ANALYTICS (77%); COMPUTER NETWORKS (77%); DATA SECURITY (77%); DATA PROTECTION LAWS (76%); ONLINE IDENTITY THEFT (76%); BUDGETS (75%); COMPUTING & INFORMATION TECHNOLOGY (72%); INTERNET & WWW (72%)

Person: JONI ERNST (90%)

Geographic: IOWA, USA (92%); UNITED STATES (92%)

Ernst Exposes SBA's Lack of IT Security as the Agency Pursues AI Technology

Load-Date: May 30, 2024

End of Document

CHANGING THE MAP: NEW AI TECHNOLOGY, GEOSPATIAL MAPPING CERTIFICATES OFFERED

US Fed News

August 14, 2024 Wednesday 12:31 PM EST

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Length: 769 words

Body

LOGAN, Utah, Aug. 14 -- Utah State University issued the following news release:

Beneath almost every aspect of modern life streams a colossal river of data. From tracking weather to collecting satellite images to monitoring air quality, traffic patterns, environmental changes and urban development, a staggering amount of information is recorded about the world . over 147 million zettabytes per year by some estimates. **Artificial intelligence** may be the only way to usefully manage this vast and growing asset. Deciding how that happens is a question that will define this generation.

Two new certificates available through the Quinney College of Natural Resources offer a way for USU students to be part of the answer. The Remote Sensing and Geospatial **Artificial Intelligence** Foundations certificate is for undergraduates, while the Applied Remote Sensing Geospatial **Artificial Intelligence** certificate is for professionals and graduate students. These certificates have been newly designed to teach deep-technology skills increasingly in demand across the nation, according to Shannon Belmont from the Department of Environment and Society.

The proliferation of technology like drones and satellite images from Google Earth Engine makes access to high-resolution imagery and data easier than ever, said Belmont, who directs the Utah Geospatial Consortium on campus. With high-quality and large quantities of data so easily accessible, there is a growing market for professionals with specialized skills in gathering, analyzing and delivering map information through Geospatial **Artificial Intelligence** (GeoAI), she said.

"GeoAI has the potential to address some of the earth's and society's most pressing challenges," said Elise Laugier, certificate program director and assistant professor of geospatial science in Environment and Society. "It is transforming the speed that we can extract meaning from complex datasets."

For instance, the speed that **AI** can process data, combined with real-time information about things like wildfires, floods and hurricanes, allows for more accurate predictions of damage and change as the **disaster** unfolds. GeoAI can make data-based predictions about what's likely to happen next in impacted environments. The information can assist decision-making during the event, help to direct management during recovery, and can help researchers monitor changing landscapes for potential risk factors in the future.

AI can also help harness vast amounts of data to draw insights from longer-term changes happening at the interface of the environment and society, like monitoring agriculture and land use, urban green spaces, renewable energy and water management, Laugier said.

CHANGING THE MAP: NEW AI TECHNOLOGY, GEOSPATIAL MAPPING CERTIFICATES OFFERED

The two new certificates, offered through a grant from the Deep Technology Talent Initiative from the Utah System of Higher Education, are designed to be stackable with existing degree programs at USU. For undergraduates, students can pair the certificate with any major and can pursue both the Applied GIS and the Remote Sensing & GeoAI certificates for broad and deep skill sets. At the graduate level, the new certificate can be standalone or applied towards a professional Masters in Natural Resources. There also may be a future opportunity to combine the certificate with the existing graduate certificate in GIS towards a professional master's degree in geospatial applications.

Both programs will be available fully online, or with an option to mix online and in-person courses for students at the Logan campus. In this first year, the certificate for undergraduates will be transitioning to fully online but is immediately available to students both in Logan and across USU's statewide system.

The combination of these high-tech fields is a chance for game-changing innovation in many fields, including environmental monitoring, urban planning, agriculture, ***disaster*** planning and response, and natural resource management, said Claudia Radel, department head in Environment and Society.

As automation through machine learning increases efficiency, the role humans play is transforming, moving from lower-level data management to higher-level tasks of problem definition, inquiry and innovation, according to the coordinating team for the new certificates. The emerging role for humans is to engage with, guide and troubleshoot GeoAI efforts with critical thinking, creative problem-solving, complex reasoning, emotional intelligence and other distinctively human capabilities. For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: ***ARTIFICIAL INTELLIGENCE*** (90%); COLLEGES & UNIVERSITIES (90%); EARTH OBSERVATION SATELLITES (90%); GEOSPATIAL DATA (90%); REMOTE SENSING TECHNOLOGY (90%); STUDENTS & STUDENT LIFE (90%); SURVEYING & MAPPING (90%); TECHNOLOGY (89%); CERTIFICATES, DEGREES & DIPLOMAS (78%); COLLEGE & UNIVERSITY PROFESSORS (78%); COLLEGE STUDENTS (78%); EDUCATION SYSTEMS & INSTITUTIONS (78%); ENVIRONMENTAL DEPARTMENTS (78%); GRADUATE & PROFESSIONAL SCHOOLS (78%); NATURAL RESOURCES (78%); WATER RESOURCES MANAGEMENT (78%); ACCIDENTS & DISASTERS (77%); CITY LIFE (77%); DEEP TECH (77%); ENVIRONMENT & NATURAL RESOURCES (77%); ENVIRONMENTALISM (77%); LAND USE & DEVELOPMENT (77%); NEGATIVE NEWS (77%); WEATHER (77%); TEACHING & TEACHERS (75%); GRANTS & GIFTS (74%); PRESS RELEASES (73%); AIR QUALITY MONITORING (72%); CITIES (72%); POLLUTION & ENVIRONMENTAL IMPACTS (72%); WILDFIRES (62%)

Organization: UTAH STATE UNIVERSITY (84%)

Industry: ***ARTIFICIAL INTELLIGENCE*** (90%); COLLEGES & UNIVERSITIES (90%); EARTH OBSERVATION SATELLITES (90%); GEOSPATIAL DATA (90%); REMOTE SENSING TECHNOLOGY (90%); SURVEYING & MAPPING (90%); COLLEGE & UNIVERSITY PROFESSORS (78%); COLLEGE STUDENTS (78%); EDUCATION SYSTEMS & INSTITUTIONS (78%); GRADUATE & PROFESSIONAL SCHOOLS (78%); ENERGY & UTILITIES (77%); ALTERNATIVE & RENEWABLE ENERGY (72%)

CHANGING THE MAP: NEW AI TECHNOLOGY, GEOSPATIAL MAPPING CERTIFICATES OFFERED

Geographic: UTAH, USA (94%)

Load-Date: August 15, 2024

End of Document

DHS Launches First-of-its-Kind Initiative to Hire 50 Artificial Intelligence Experts in 2024

Targeted News Service

February 6, 2024 Tuesday 8:47 PM EST

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Length: 1218 words

Byline: Targeted News Service

Dateline: WASHINGTON

Body

The U.S. Department of Homeland Security issued the following news release:

DHS's New "**AI** Corps" Will Advance President Biden's Executive Order on **AI** and Ensure Responsible Use of this Powerful Technology

Secretary Mayorkas to Host Recruitment Event in Mountain View, CA

WASHINGTON -- Today, Secretary of Homeland Security Alejandro N. Mayorkas and Chief Information Officer (CIO) and Chief **Artificial Intelligence** Officer (CAIO) Eric Hysen announced the Department's first-ever hiring sprint to recruit 50 **Artificial Intelligence (AI)** technology experts in 2024. The new DHS "**AI** Corps" is modeled after the U.S. Digital Service, building teams that will help better leverage this new technology responsibly across strategic areas of the homeland security enterprise including efforts to counter fentanyl, combat child sexual exploitation and abuse, deliver immigration services, secure travel, fortify our critical infrastructure, and enhance our cybersecurity.

The **AI** Corps will bolster the DHS workforce with experts in **AI** and Machine Learning (ML) technologies, models, and applications who will support policy initiatives to ensure the safe and secure use of **AI**, while protecting privacy and civil rights and civil liberties.

Using the Office of Personnel Management's new flexible hiring authorities for **AI**-related jobs, DHS has worked to streamline and expedite the federal hiring process to ensure qualified candidates receive offers as quickly as possible.

"As **artificial intelligence** becomes more powerful and more accessible than ever before, government needs the support and expertise of our country's foremost **AI** experts to help ensure our continued ability to harness this technology responsibly, safeguard against its malicious use, and advance our critical homeland security mission," said Secretary of Homeland Security Alejandro N. Mayorkas. "Our new **AI** Corps initiative will make it easier to bring these talented, experienced, creative men and women into public service quickly. The DHS **AI** Corps will enable the Department of Homeland Security to keep up with the pace of innovation as we enhance our work

DHS Launches First-of-its-Kind Initiative to Hire 50 Artificial Intelligence Experts in 2024

combating fentanyl traffickers, rescuing victims of child sexual exploitation, countering cyberattacks, assessing **disaster** damage, and much more."

The DHS **AI** Corps **AI** Technology experts will be part of the DHS Office of the Chief Information Officer and will work on a variety of projects across the Department advancing **AI** innovation and use. They will provide expertise in **AI**/ML, data science, data engineering, program management, product management, software engineering, cybersecurity, and safe, secure, and responsible use of these technologies.

Secretary Mayorkas and CIO Hysen will launch the hiring effort at an event in Mountain View, CA. The event is designed to generate interest in **AI** career opportunities within the Department. Leaders from the Department and DHS agencies and offices will demonstrate to technologists from industry their use of **AI** to support their missions. Leaders from the DHS Office of Customer Experience, launched in 2022, will discuss their approach to using **AI** to improve service deliver; representatives of Homeland Security Investigations will showcase the role machine learning plays in countering online child sexual exploitation and abuse; Immigration and Customs Enforcement officials will present on ways **AI** can enhance immigration and citizenship services; and FEMA officials will present on ways new technology can more quickly deliver **disaster** and humanitarian relief.

"Now is the time for tech experts to make a real difference for our country and join the federal government," said Chief Information Officer and Chief **Artificial Intelligence** Officer Eric Hysen. "Modeled after the U.S. Digital Service, the **AI** Corps will deploy teams of **AI** technology experts across DHS to solve problems and modernize the delivery of services to the public. We are recruiting faster than ever because the need is urgent. More Americans interact with DHS every day than any other federal agency, so the better and faster we can deploy responsible **AI**, the more it can positively impact the American people. We are prioritizing recruiting talent who are technologically proficient and eager to leverage recent innovations in **AI** to transform the way people interact with the government."

AI is already delivering significant value across DHS missions. For example:

Fentanyl Interdiction: U.S. Customs and Border Protection (CBP) uses a ML model to identify potentially suspicious patterns in vehicle-crossing history. CBP recently used the model to flag a car for secondary review at a port of entry, which yielded the discovery of over 75 kilograms of drugs hidden in the automobile. Last year alone, machine learning models that help CBP Officers determine which suspicious vehicles and passengers to refer to secondary screening have led to 240 seizures, which included thousands of pounds of cocaine, heroin, methamphetamine, and fentanyl.

Combating Online Child Sex Abuse: Last year, Homeland Security Investigation completed Operation Renewed Hope, which focused on protecting children from sexual abuse online. Through new **AI** technology, DHS identified more than 300 previously unknown victims of sexual exploitation and identified perpetrators thanks in part to a ML model that enhanced older images to provide investigators with new leads.

Assessing Disaster Damage: The Federal Emergency Management Agency (FEMA) uses **AI** to assess damage to homes, buildings, and other property after a **disaster** more efficiently. Using ML, FEMA's analysts are able to process images in days, as opposed to weeks, and provide **disaster** assistance to survivors that much faster.

Last year, DHS established the Department's first **AI** Task Force and named CIO Hysen its first Chief **AI** Officer. The Task Force is working across the DHS mission to identify areas where **AI** can improve its work. For instance, it is working to enhance the integrity of our supply chains and the broader trade environment by helping deploy **AI** to improve cargo screening, the identification of imported goods produced with forced labor, and risk management. The Task Force is also charged with using **AI** to better detect fentanyl shipments, identify and interdict the flow of precursor chemicals around the world, and disrupt key nodes in criminal networks.

DHS's work on **AI** is part of a whole-of-government effort to address this emerging technology. In October, President Biden issued an Executive Order, "Safe, Secure, and Trustworthy Development and Use of **Artificial Intelligence**," which directed DHS to promote the adoption of **AI** safety standards globally, protect U.S. networks and critical infrastructure, reduce the risks that **AI** can be used to create weapons of mass destruction, combat **AI**-related intellectual property theft, and help the United States attract and retain skilled talent, among other missions.

DHS Launches First-of-its-Kind Initiative to Hire 50 Artificial Intelligence Experts in 2024

To learn more about the DHS **AI** Corps and how to apply, visit <https://www.dhs.gov/ai/join>.

To learn more about how DHS uses **AI** technologies to protect the homeland, visit www.dhs.gov/ai.

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Original text here: <https://www.dhs.gov/news/2024/02/06/dhs-launches-first-its-kind-initiative-hire-50-artificial-intelligence-experts-2024>

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Classification

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Organization: US DEPARTMENT OF HOMELAND SECURITY (97%); OFFICE OF PERSONNEL MANAGEMENT (55%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); CYBERSECURITY (89%); ENGINEERING (89%); INFORMATION SECURITY & PRIVACY (89%); CYBERCRIME (88%); DATA SCIENCE (78%); MACHINE LEARNING (78%); SOFTWARE SERVICES & APPLICATIONS (78%); CYBERATTACKS (73%); FENTANYL (73%); FENTANYL REGULATION & POLICY (73%); NARCOTICS (73%); OPIATES & OPIOIDS (73%); COMPUTER SOFTWARE (67%); COMPUTER ENGINEERING (60%); SOFTWARE DEVELOPMENT & ENGINEERING (60%)

Person: ALEJANDRO MAYORKAS (92%)

Geographic: SAN FRANCISCO BAY AREA, CA, USA (73%); CALIFORNIA, USA (92%); UNITED STATES (95%)

DHS Launches First-of-its-Kind Initiative to Hire 50 Artificial Intelligence Experts in 2024

Load-Date: February 6, 2024

End of Document

Augmented Intelligence for Disaster Response: Beeline Kazakhstan Mobilises AI to Fight Forest Fires

GlobeNewswire

February 6, 2024 Tuesday 5:00 AM PT

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Section: COMPANY ANNOUNCEMENT; PRESS RELEASES; OTHER NEWS; EUROPEAN REGULATORY NEWS

Length: 704 words

Body

Amsterdam and Almaty, 6 February 2024: VEON Ltd. (NASDAQ: VEON, Euronext Amsterdam: VEON), a global digital operator that provides converged connectivity and online services, today announced that its subsidiary Beeline Kazakhstan has deployed Orman-**AI** - an artificial intelligence-based monitoring system to detect forest fires.

Both naturally and due to climate change, Kazakhstan is prone to devastating blazes, that spread fast across vast areas, are impossible to stop once started and take the lives of both humans and animals every year. Orman-**AI** reports the outbreak of fires by automatically detecting the first signs of smoke and enables rapid action to stop the proliferation of forest fires. It combines Beeline's towers as monitoring platforms, video surveillance systems with 360 degree computer vision, and Beeline's mobile connectivity, uploading data real time into an **AI** analytics engine capable of detecting smoke appearances.

The system works in weather from -50 to +50 degrees Celsius, which is especially important in the extreme continental climate of the country.

In an era of rapid climate change, forest fires are an increasingly common problem and caused damage to 103 thousand hectares of land in Kazakhstan in 2022 alone, nearly 40% the land area of Luxembourg. If detected too late, they are hard to extinguish and pose a serious threat to rural communities.

"Detection of fires through augmented intelligence is a pragmatic approach, and this could be extended to agricultural and other community applications," comments Evgeniy Nastradin, the CEO of Beeline Kazakhstan. "This initiative shows Beeline and VEON's commitment to the country, using cutting edge technology to create solutions to real problems, including safeguarding the population against natural disasters," he adds.

Orman-**AI** has been launched through a partnership between Beeline Kazakhstan and the Department of Natural Resources and Environmental Management of the Akimat of the Kostanay Region. During the first test period, some 34 cameras managed to generate alerts for 50 fires in the region. In the future, the system could also be

Augmented Intelligence for Disaster Response: Beeline Kazakhstan Mobilises AI to Fight Forest Fires

deployed to assist farmers and improve agricultural yields by using **AI** to determine when crops require watering or fertilizer, and to keep track of livestock.

This is yet another major **AI**-based solution from Beeline Kazakhstan. Last year, Beeline's information technologies subsidiary QazCode launched BeeBert **AI** module, training **AI** in Kazakh language for customer experience applications.

About VEON VEON is a digital operator that provides converged connectivity and digital services to nearly 160 million customers. Operating across six countries that are home to more than 7% of the world's population, VEON is transforming lives through technology-driven services that empower individuals and drive economic growth. Headquartered in Amsterdam, VEON is listed on NASDAQ and Euronext. For more information visit: <https://www.veon.com>.

Disclaimer This release contains "forward-looking statements," as the phrase is defined in Section 27A of the U.S. Securities Act of 1933, as amended, and Section 21E of the U.S. Securities Exchange Act of 1934, as amended. Forward-looking statements are not historical facts, and include statements relating to, among other things, VEON's technology investments. Forward-looking statements are inherently subject to risks and uncertainties, many of which VEON cannot predict with accuracy and some of which VEON might not even anticipate. The forward-looking statements contained in this release speak only as of the date of this release. VEON does not undertake to publicly update, except as required by U.S. federal securities laws, any forward-looking statement to reflect events or circumstances after such dates or to reflect the occurrence of unanticipated events. Furthermore, elements of this document contain or may contain, "inside information" as defined under the Market Abuse Regulation (EU) No. 596/2014.

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TUVA Partners Julian Tannerjulian.tanner@tuvapartners.com

Attachment

- VEON and Beeline Kazakhstan Logos

Classification

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Company: VEON LTD (93%); VEON LTD.

Augmented Intelligence for Disaster Response: Beeline Kazakhstan Mobilises AI to Fight Forest Fires

Ticker: VEON (NASDAQ) (93%); VEON (Euronext Amsterdam); VEON (NasdaqGM)

Industry: SIC4812 RADIOTELEPHONE COMMUNICATIONS (93%); **ARTIFICIAL INTELLIGENCE** (90%); STOCK EXCHANGES (89%); BANKING & FINANCE REGULATION (78%); COMPUTING & INFORMATION TECHNOLOGY (77%); DATA ANALYTICS (77%); SMOKE DETECTORS (77%); IMAGE PROCESSING & COMPUTER VISION (73%); LIVESTOCK (73%); SECURITIES LAW (73%); CROP PRODUCTION (71%); FERTILIZERS (64%); US SECURITIES ACT OF 1933 (60%); Telecommunications (%)

Company-Terms: Telecommunications VEON Ltd. VEON (Euronext Amsterdam) VEON (NasdaqGM) Amsterdam
::issuer-country=NL:: NL

Geographic: KAZAKHSTAN (95%); NETHERLANDS (90%)

Load-Date: February 6, 2024

End of Document

House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear Energy, and Natural Disasters; Committee-Passed Legislation Includes Provisions from McClellan's BUILT Act; Rep. Jennifer McClellan (D-VA) News Release

Congressional Documents and Publications

September 25, 2024

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Section: U.S. HOUSE OF REPRESENTATIVES DOCUMENTS

Length: 583 words

Body

Washington, D.C. - Today, the House Science, Space and Technology Committee passed four bills on a bipartisan basis to advance research and technology development, ensuring that the United States remains a global leader in **artificial intelligence**, energy, and natural **disaster** resilience:

* H.R. 9671, the Department of Energy (DOE) **Artificial Intelligence** Act, provides updated guidance for DOE's activities in developing advanced **artificial intelligence** systems to carry out its national security, energy, and scientific discovery missions.

* H.R. 9710, the Small Modular Reactor Demonstration Act, gives direction and guidance to DOE to create demonstration projects and empower research on small modular reactors and micro-reactors.

* H.R. 9720, the **AI** Incident Reporting and Security Enhancement Act, directs National Institute Standards and Technologies (NIST) to use existing vulnerability management processes to account for **AI** vulnerabilities.

* H.R. 9723, the National Windstorm Impact Reduction Program Reauthorization Act, reauthorizes and revamps NIST's program to improve collaboration and research on the effects of climate change on windstorm behavior.

Congresswoman Jennifer McClellan (VA-04), a member of the House Science Committee, successfully offered an amendment to H.R. 9723 based on her recently introduced H.R. 9771, the Building and Upgrading Infrastructure for the Long Term (BUILT) Act. McClellan's amendment will support interdisciplinary coordination to address the risks to infrastructure integrity resulting from changing climate and environmental conditions. Watch her testimony in committee [here](#).

"As the climate crisis continues to worsen, we must take immediate action to mitigate the most devastating impacts and protect our communities and critical infrastructure systems from harm," said Congresswoman McClellan. "Devastating extreme weather events remind us of the urgency of the moment and the need to continue improving our resiliency efforts. I offered provisions from my BUILT Act as an amendment to the National Windstorm Impact Reduction Program Reauthorization Act of 2024 to invest in our future by promoting forward-looking research into climate resiliency."

House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear Energy, and Natural Disasters Committee-Passed Legislation In....

The BUILT Act directs the National Institute of Standards and Technology (NIST) to facilitate research on how climate conditions can affect subsurface properties and how technology can be used to assess infrastructure integrity risks, as well as to convene a workshop of representatives across the public and private sector.

The BUILT Act is endorsed by the American Geophysical Union and the National Institute of Building Sciences. Both are concerned with the advancement of solutions to solve local and community-based problems with the built environment.

"The nation's deficient infrastructure must be improved to protect American lives," said Dr. George Guszcza, President and CEO of the National Institute of Building Sciences. "NIST recognizes the role lifeline infrastructure plays to support community resilience and recovery after disasters. Together, we can build a framework to design resilient buildings and infrastructure."

Learn more about the House Science Committee markup here <https://democrats-science.house.gov/markups/full-committee-markup-of-hr-9671-hr-9710-hr-9720-and-hr-9723> . Read McClellan's BUILT Act one-pager and bill text.

Read this original document at: <https://mcclellan.house.gov/media/press-releases/house-science-committee-passes-bills-advance-research-and-technology>

Classification

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Subject: TECHNOLOGY (93%); NEGATIVE NEWS (91%); ACCIDENTS & DISASTERS (90%); **ARTIFICIAL INTELLIGENCE** (90%); BIPARTISANSHIP (90%); CLIMATE CHANGE (90%); ENERGY DEPARTMENTS (90%); EXPERIMENTATION & RESEARCH (90%); LEGISLATION (90%); LEGISLATIVE BODIES (90%); LEGISLATIVE VOTING (90%); SAFETY, ACCIDENTS & DISASTERS (90%); SCIENCE POLICY (90%); NATURAL DISASTERS (89%); SEVERE WIND (89%); GOVERNMENT & PUBLIC ADMINISTRATION (79%); US CONGRESS (79%); CLIMATOLOGY (78%); INTERNATIONAL RELATIONS & NATIONAL SECURITY (78%); SCIENCE & TECHNOLOGY (78%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (77%); CRITICAL INFRASTRUCTURE (77%); NATIONAL SECURITY (77%); NEGATIVE ENVIRONMENTAL NEWS (77%); SEVERE WEATHER (77%); CALENDARS (73%); GEOLOGY & GEOPHYSICS (73%); EXECUTIVES (72%); WEATHER (72%); NATIONAL SECURITY & FOREIGN RELATIONS (71%); STANDARDS & MEASUREMENTS (69%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & UTILITIES (90%); ENERGY DEPARTMENTS (90%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (77%); NUCLEAR ENERGY (77%)

Person: JENNIFER MCCLELLAN (92%)

Geographic: WASHINGTON DC, USA (79%); UNITED STATES (94%)

House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear
Energy, and Natural Disasters Committee-Passed Legislation In....

Load-Date: September 27, 2024

End of Document

House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear Energy, and Natural Disasters

Targeted News Service

September 25, 2024 Wednesday 4:47 PM EST

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**Length:** 602 words**Byline:** Targeted News Service**Dateline:** WASHINGTON

Body

Rep. Jennifer McClellan, D-Virginia, issued the following news release:

Today, the House Science, Space and Technology Committee passed four bills on a bipartisan basis to advance research and technology development, ensuring that the United States remains a global leader in **artificial intelligence**, energy, and natural **disaster** resilience:

H.R. 9671(link is external), the Department of Energy (DOE) **Artificial Intelligence** Act, provides updated guidance for DOE's activities in developing advanced **artificial intelligence** systems to carry out its national security, energy, and scientific discovery missions. H.R. 9710(link is external), the Small Modular Reactor Demonstration Act, gives direction and guidance to DOE to create demonstration projects and empower research on small modular reactors and micro-reactors. H.R. 9720(link is external), the **AI** Incident Reporting and Security Enhancement Act, directs National Institute Standards and Technologies (NIST) to use existing vulnerability management processes to account for **AI** vulnerabilities. H.R. 9723(link is external), the National Windstorm Impact Reduction Program Reauthorization Act, reauthorizes and revamps NIST's program to improve collaboration and research on the effects of climate change on windstorm behavior.

Congresswoman Jennifer McClellan (VA-04), a member of the House Science Committee, successfully offered an amendment to H.R. 9723 based on her recently introduced H.R. 9771(link is external), the Building and Upgrading Infrastructure for the Long Term (BUILT) Act. McClellan's amendment will support interdisciplinary coordination to address the risks to infrastructure integrity resulting from changing climate and environmental conditions. Watch her testimony in committee here(link is external).

"As the climate crisis continues to worsen, we must take immediate action to mitigate the most devastating impacts and protect our communities and critical infrastructure systems from harm," said Congresswoman McClellan. "Devastating extreme weather events remind us of the urgency of the moment and the need to continue improving our resiliency efforts. I offered provisions from my BUILT Act as an amendment to the National Windstorm Impact Reduction Program Reauthorization Act of 2024 to invest in our future by promoting forward-looking research into climate resiliency."

House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear Energy, and Natural Disasters

The BUILT Act directs the National Institute of Standards and Technology (NIST) to facilitate research on how climate conditions can affect subsurface properties and how technology can be used to assess infrastructure integrity risks, as well as to convene a workshop of representatives across the public and private sector.

The BUILT Act is endorsed by the American Geophysical Union and the National Institute of Building Sciences. Both are concerned with the advancement of solutions to solve local and community-based problems with the built environment.

"The nation's deficient infrastructure must be improved to protect American lives," said Dr. George Guszcza, President and CEO of the National Institute of Building Sciences. "NIST recognizes the role lifeline infrastructure plays to support community resilience and recovery after disasters. Together, we can build a framework to design resilient buildings and infrastructure."

Learn more about the House Science Committee markup [here](#) (link is external). Read McClellan's BUILT Act one-pager and bill text.

Original text here: <https://mcclellan.house.gov/media/press-releases/house-science-committee-passes-bills-advance-research-and-technology>

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Industry: **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & UTILITIES (90%); ENERGY DEPARTMENTS (90%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (77%); NUCLEAR ENERGY (77%)

Person: JENNIFER MCCLELLAN (90%)

Geographic: UNITED STATES (94%)

House Science Committee Passes Bills to Advance Research and Technology Development on AI, Nuclear
Energy, and Natural Disasters

Load-Date: September 25, 2024

End of Document

DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

US Fed News

February 6, 2024 Tuesday 9:18 PM EST

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Length: 395 words

Body

WASHINGTON, Feb. 6 -- The U.S. Department of Homeland Security issued the following speech text:

Today, Secretary of Homeland Security Alejandro N. Mayorkas and Chief Information Officer (CIO) and Chief **Artificial Intelligence** Officer (CAIO) Eric Hysen announced the Department's first-ever hiring sprint to recruit 50 **Artificial Intelligence** (**AI**) technology experts in 2024. The new DHS "**AI** Corps" is modeled after the U.S. Digital Service, building teams that will help better leverage this new technology responsibly across strategic areas of the homeland security enterprise including efforts to counter fentanyl, combat child sexual exploitation and abuse, deliver immigration services, secure travel, fortify our critical infrastructure, and enhance our cybersecurity.

The **AI** Corps will bolster the DHS workforce with experts in **AI** and Machine Learning (ML) technologies, models, and applications who will support policy initiatives to ensure the safe and secure use of **AI**, while protecting privacy and civil rights and civil liberties.

Using the Office of Personnel Management's new flexible hiring authorities for **AI**-related jobs, DHS has worked to streamline and expedite the federal hiring process to ensure qualified candidates receive offers as quickly as possible.

"As **artificial intelligence** becomes more powerful and more accessible than ever before, government needs the support and expertise of our country's foremost **AI** experts to help ensure our continued ability to harness this technology responsibly, safeguard against its malicious use, and advance our critical homeland security mission," said Secretary of Homeland Security Alejandro N. Mayorkas. "Our new **AI** Corps initiative will make it easier to bring these talented, experienced, creative men and women into public service quickly. The DHS **AI** Corps will enable the Department of Homeland Security to keep up with the pace of innovation as we enhance our work combating fentanyl traffickers, rescuing victims of child sexual exploitation, countering cyberattacks, assessing **disaster** damage, and much more."

*Rest of the document can be viewed at: (<https://www.dhs.gov/news/2024/02/06/dhs-launches-first-its-kind-initiative-hire-50-artificial-intelligence-experts-2024>) For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htlive.com

Classification

DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN
2024

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Subject: NATIONAL SECURITY & FOREIGN RELATIONS (92%); GOVERNMENT BODIES & OFFICES (91%); NATIONAL SECURITY (91%); **ARTIFICIAL INTELLIGENCE** (90%); EXECUTIVES (90%); GOVERNMENT DEPARTMENTS & AUTHORITIES (90%); INTELLIGENCE SERVICES (90%); US FEDERAL GOVERNMENT (90%); NEGATIVE NEWS (89%); SPECIAL INVESTIGATIVE FORCES (89%); PUBLIC POLICY (78%); SAFETY (78%); HUMAN RESOURCES (77%); HUMAN RESOURCES & PERSONNEL MANAGEMENT (77%); RECRUITMENT & HIRING (77%); CHILD ABUSE & NEGLECT (75%); FENTANYL (75%); FENTANYL REGULATION & POLICY (75%); NARCOTICS (75%); OPIATES & OPIOIDS (75%); CIVIL RIGHTS (74%); CYBERATTACKS (74%); CYBERCRIME (74%); LABOR FORCE (74%); ABUSE & NEGLECT (73%); CRITICAL INFRASTRUCTURE (73%); NEGATIVE TECHNOLOGY NEWS (73%); CIVIL SERVICES (72%); MACHINE LEARNING (72%); IMMIGRATION, CITIZENSHIP & DISPLACEMENT (69%); RESCUE OPERATIONS (65%); IMMIGRATION (55%)

Organization: US DEPARTMENT OF HOMELAND SECURITY (99%); OFFICE OF PERSONNEL MANAGEMENT (55%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); CYBERSECURITY (78%); INFORMATION SECURITY & PRIVACY (78%); FENTANYL (75%); FENTANYL REGULATION & POLICY (75%); NARCOTICS (75%); OPIATES & OPIOIDS (75%); CYBERATTACKS (74%); CYBERCRIME (74%); MACHINE LEARNING (72%)

Person: ALEJANDRO MAYORKAS (90%)

Geographic: UNITED STATES (94%)

Load-Date: February 11, 2024

DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

States News Service

February 6, 2024 Tuesday

Copyright 2024 States News Service

Length: 1154 words**Byline:** States News Service**Dateline:** WASHINGTON**Body**

The following information was released by the Department of Homeland Security:

DHS's New "**AI** Corps" Will Advance President Biden's Executive Order on **AI** and Ensure Responsible Use of this Powerful Technology

Secretary Mayorkas to Host Recruitment Event in Mountain View, CA

WASHINGTON Today, Secretary of Homeland Security Alejandro N. Mayorkas and Chief Information Officer (CIO) and Chief **Artificial Intelligence** Officer (CAIO) Eric Hysen announced the Department's first-ever hiring sprint to recruit 50 **Artificial Intelligence** (**AI**) technology experts in 2024. The new DHS "**AI** Corps" is modeled after the U.S. Digital Service, building teams that will help better leverage this new technology responsibly across strategic areas of the homeland security enterprise including efforts to counter fentanyl, combat child sexual exploitation and abuse, deliver immigration services, secure travel, fortify our critical infrastructure, and enhance our cybersecurity.

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DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

The DHS AI Corps AI Technology experts will be part of the DHS Office of the Chief Information Officer and will work on a variety of projects across the Department advancing AI innovation and use. They will provide expertise in AI/ML, data science, data engineering, program management, product management, software engineering, cybersecurity, and safe, secure, and responsible use of these technologies.

Secretary Mayorkas and CIO Hysen will launch the hiring effort at an event in Mountain View, CA. The event is designed to generate interest in AI career opportunities within the Department. Leaders from the Department and DHS agencies and offices will demonstrate to technologists from industry their use of AI to support their missions. Leaders from the DHS Office of Customer Experience, launched in 2022, will discuss their approach to using AI to improve service deliver; representatives of Homeland Security Investigations will showcase the role machine learning plays in countering online child sexual exploitation and abuse; Immigration and Customs Enforcement officials will present on ways AI can enhance immigration and citizenship services; and FEMA officials will present on ways new technology can more quickly deliver disaster and humanitarian relief.

"Now is the time for tech experts to make a real difference for our country and join the federal government," said Chief Information Officer and Chief Artificial Intelligence Officer Eric Hysen. "Modeled after the U.S. Digital Service, the AI Corps will deploy teams of AI technology experts across DHS to solve problems and modernize the delivery of services to the public. We are recruiting faster than ever because the need is urgent. More Americans interact with DHS every day than any other federal agency, so the better and faster we can deploy responsible AI, the more it can positively impact the American people. We are prioritizing recruiting talent who are technologically proficient and eager to leverage recent innovations in AI to transform the way people interact with the government."

AI is already delivering significant value across DHS missions. For example:

Fentanyl Interdiction: U.S. Customs and Border Protection (CBP) uses a ML model to identify potentially suspicious patterns in vehicle-crossing history. CBP recently used the model to flag a car for secondary review at a port of entry, which yielded the discovery of over 75 kilograms of drugs hidden in the automobile. Last year alone, machine learning models that help CBP Officers determine which suspicious vehicles and passengers to refer to secondary screening have led to 240 seizures, which included thousands of pounds of cocaine, heroin, methamphetamine, and fentanyl.

Combating Online Child Sex Abuse: Last year, Homeland Security Investigation completed Operation Renewed Hope, which focused on protecting children from sexual abuse online. Through new AI technology, DHS identified more than 300 previously unknown victims of sexual exploitation and identified perpetrators thanks in part to a ML model that enhanced older images to provide investigators with new leads.

Assessing Disaster Damage: The Federal Emergency Management Agency (FEMA) uses AI to assess damage to homes, buildings, and other property after a disaster more efficiently. Using ML, FEMA's analysts are able to process images in days, as opposed to weeks, and provide disaster assistance to survivors that much faster.

Last year, DHS established the Department's first AI Task Force and named CIO Hysen its first Chief AI Officer. The Task Force is working across the DHS mission to identify areas where AI can improve its work. For instance, it is working to enhance the integrity of our supply chains and the broader trade environment by helping deploy AI to improve cargo screening, the identification of imported goods produced with forced labor, and risk management. The Task Force is also charged with using AI to better detect fentanyl shipments, identify and interdict the flow of precursor chemicals around the world, and disrupt key nodes in criminal networks.

DHS's work on AI is part of a whole-of-government effort to address this emerging technology. In October, President Biden issued an Executive Order, "Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence," which directed DHS to promote the adoption of AI safety standards globally, protect U.S. networks and critical infrastructure, reduce the risks that AI can be used to create weapons of mass destruction, combat AI-related intellectual property theft, and help the United States attract and retain skilled talent, among other missions.

DHS LAUNCHES FIRST-OF-ITS-KIND INITIATIVE TO HIRE 50 ARTIFICIAL INTELLIGENCE EXPERTS IN 2024

Classification

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Organization: US DEPARTMENT OF HOMELAND SECURITY (95%); OFFICE OF PERSONNEL MANAGEMENT (55%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); CYBERSECURITY (89%); ENGINEERING (89%); INFORMATION SECURITY & PRIVACY (89%); CYBERCRIME (88%); DATA SCIENCE (78%); MACHINE LEARNING (78%); SOFTWARE SERVICES & APPLICATIONS (78%); CYBERATTACKS (73%); FENTANYL (73%); FENTANYL REGULATION & POLICY (73%); NARCOTICS (73%); OPIATES & OPIOIDS (73%); COMPUTER SOFTWARE (67%); COMPUTER ENGINEERING (60%); SOFTWARE DEVELOPMENT & ENGINEERING (60%)

Person: ALEJANDRO MAYORKAS (92%)

Geographic: SAN FRANCISCO BAY AREA, CA, USA (73%); CALIFORNIA, USA (92%); UNITED STATES (94%)

Load-Date: February 7, 2024

UAE's First SAR Satellite Enters Space as Bayanat AI, Al Yah Satellite Boost Earth Observation Program

Live Briefs PRO Global Markets

August 18, 2024 Sunday 7:03 AM EST

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Length: 323 words

Body

Bayanat **AI** (ADX:BAYANAT) and Al Yah Satellite Communications (ADX:YAHSAT) placed the United Arab Emirate's first synthetic aperture radar, or SAR, satellite into orbit, marking an inaugural step in their earth observation space program, according to an Aug. 17 announcement.

Under the in-country space program created in 2023, the duo aims to build a constellation of at least five SAR Low Earth orbit, or LEO, satellites, which provide high-resolution geospatial images promptly for applications in **disaster** management, maritime surveillance and smart mobility. The insights can be provided day and night, regardless of weather conditions or solar illumination.

Finnish satellite imaging company ICEYE, which operates the world's largest constellation of SAR satellites, manufactured and launched the debutant satellite for Bayanat and Al Yah on Aug. 16 from the Vandenberg Space Force Base in California, US. Bayanat, a geospatial **artificial intelligence** company, owns the satellite conducting early routine operations after establishing communication.

Bayanat and the UAE's flagship satellite telecommunication company Al Yah are advancing the UAE's space sector ahead of the completion of their planned merger to become an **artificial intelligence**-powered space technology major in the Middle East and North Africa region. Subject to obtaining regulatory and other relevant approvals, the merger is expected to close in the second half of 2024.

"The successful launch of our SAR satellite is a testament to the synergies between Bayanat and Yahsat as we press ahead with the anticipated merger to form Space42. The SAR satellite constellation to be launched over the next 3 years will enable us to expand as a multi-orbit satellite operator, encompassing Geostationary Orbit and Low Earth Orbit satellites while also developing satellite manufacturing capabilities in the UAE," said Al Yah Satellite Chief Executive Officer Ali Al Hashemi.

Classification

Language: ENGLISH

UAE 's First SAR Satellite Enters Space as Bayanat AI, Al Yah Satellite Boost Earth Observation Program

Publication-Type: Newswire

Subject: EARTH OBSERVATION SATELLITES (91%); **ARTIFICIAL INTELLIGENCE** (90%); RADAR SYSTEMS (90%); SATELLITE COMMUNICATIONS SERVICES (90%); SPACE EXPLORATION (90%); SPACE PROGRAMS (90%); SATELLITE TECHNOLOGY (89%); SMART TECHNOLOGY (78%); SPACE TECHNOLOGY (78%); GEOSPATIAL DATA (75%); COMMERCIAL SATELLITES (73%); EXECUTIVES (70%); SURVEILLANCE (70%)

Ticker: ADX:BAYANAT ADX:YAHSAT

Company-Number: ISIN: AEE01122B228 AEA007501017

Industry: EARTH OBSERVATION SATELLITES (91%); SATELLITE INDUSTRY (91%); **ARTIFICIAL INTELLIGENCE** (90%); RADAR SYSTEMS (90%); SATELLITE COMMUNICATIONS SERVICES (90%); SATELLITE MFG (90%); SPACE & SATELLITE LAUNCHES (90%); SPACE EXPLORATION (90%); SPACE PROGRAMS (90%); SATELLITE TECHNOLOGY (89%); MANUFACTURING (78%); MEDIA & TELECOMMUNICATIONS (78%); SMART TECHNOLOGY (78%); SPACE & SATELLITE INDUSTRY (78%); SPACE DATA INDUSTRY (78%); SPACE INDUSTRY (78%); SPACE SECTOR PERFORMANCE (78%); SPACE TECHNOLOGY (78%); TELECOMMUNICATIONS (78%); WIRELESS & BROADCAST EQUIPMENT MFG (78%); GEOSPATIAL DATA (75%); COMMERCIAL SATELLITES (73%)

Geographic: EARTH (92%); CALIFORNIA, USA (70%); UNITED ARAB EMIRATES (90%); NORTHERN AFRICA (79%); MIDDLE EAST (73%)

Load-Date: August 18, 2024

End of Document

Pano AI Achieves ISO/IEC 27001:2022 Certification, Elevating Its Commitment to Information Security in Wildfire Detection Technology

GlobeNewswire

April 18, 2024 Thursday 11:48 AM PT

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Section: PRESS RELEASES

Length: 591 words

Body

San Francisco, April 18, 2024 (GLOBE NEWSWIRE) -- SAN FRANCISCO, Calif., April 18, 2024 -- Pano **AI** (Pano), the leader in **artificial intelligence**-driven wildfire detection, proudly announces its achievement of the ISO/IEC 27001:2022 certification for Information Security Management Systems (ISMS). This certification marks a significant milestone in Pano **AI**'s commitment to information security, privacy, and operational excellence in supporting communities against the escalating threat of wildfires.

"Attaining this certification underscores our dedication to safeguarding the information assets of our customers and our organization," stated Sonia Kastner, CEO of Pano. "This achievement is a testament to our team's hard work, our technology's reliability, and our diligent approach to process, ensuring we are implementing the information security protection necessary to serve sophisticated and stringent customer requirements."

Pano's mission is to harness the power of advanced **artificial intelligence** and cutting-edge technology to enhance **disaster** response and management capabilities. Its technology provides governments, utilities, private landowners, and fire agencies with advanced tools for early wildfire detection, verification, and communication. This approach transforms how stakeholders respond to new ignitions and mitigate catastrophic wildfires, offering a robust solution to enhance safety and reduce potential damages.

To achieve the certification, Pano engaged an independent, ANAB-accredited audit firm for a comprehensive evaluation. The process reviewed Pano's operational framework, including policies, procedures, and controls of people, processes, and technology.

Benefits of the ISO/IEC 27001:2022 certification include:

- Enhanced information security and management practices, providing stronger protection of information in all forms and reinforcing trust with partners, customers, regulatory bodies, and communities.
- A commitment to the continuous improvement of security measures and a systematic approach to identifying, managing, and mitigating information security risks.

Pano AI Achieves ISO/IEC 27001:2022 Certification, Elevating Its Commitment to Information Security in Wildfire Detection Technology

- Alignment with the best practices of a global standard in information security management.

This certification reinforces Pano **AI**'s information security management practices, which are crucial when handling information during wildfire detection and response efforts. By meeting these standards, Pano **AI** ensures information critical to identifying and responding to wildfires is managed securely. As Pano continues advancing its technology, the certification is a key indicator of its reliability and commitment to enhancing **disaster** response strategies.

About Pano **AI**:

Pano **AI** is the leading **AI**-driven solution for active wildfire detection. The fully integrated solution combines ultra-high-definition cameras, wireless connectivity, satellite feeds, **artificial intelligence**, and cloud-based software to provide its customers and partners with real-time actionable intelligence and situational awareness to coordinate an informed rapid response to wildfires before they escalate. Pano's technology and services are used by governments, utilities, private landowners, and fire agencies in 12 states or provinces throughout the U.S., Canada, and Australia. It covers more than 16 million acres of land, helping to better safeguard infrastructure, communities, and lives against catastrophic fire incidents. To learn more, visit www.pano.ai or follow the company on LinkedIn.

_ _ _ Contact Details Yulu PR Pano@yulupr.com 604-558-1656

Classification

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Publication-Type: Newswire

Subject: FIRES (91%); ACCIDENTS & DISASTERS (90%); **ARTIFICIAL INTELLIGENCE** (90%); PRESS RELEASES (90%); TECHNOLOGY (90%); WILDFIRES (90%); LAND USE & DEVELOPMENT (89%); NATURAL DISASTERS (89%); NEGATIVE NEWS (89%); SAFETY, ACCIDENTS & DISASTERS (89%); ACCREDITATION (78%); BEST PRACTICES (78%); OPERATIONAL EXCELLENCE (78%); QUALITY CONTROL (78%); AUSTRALIAN BUSHFIRES (77%); SAFETY (77%); EMERGING TECHNOLOGY (73%); EXECUTIVES (73%); PRIVATE LANDS (72%); ISO CERTIFICATION (%); PANO **AI** (%); CLIMATE ADAPTATION (%)

Company: PANO **AI**

Industry: INFORMATION SECURITY & PRIVACY (92%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & UTILITIES (89%); COMPUTER SOFTWARE (67%); CAMERAS (50%); Technology (%)

Company-Terms: Technology Pano **AI** San Francisco California ::

Geographic: SAN FRANCISCO, CA, USA (93%); CALIFORNIA, USA (91%); AUSTRALIA (79%); CANADA (79%)

Load-Date: April 18, 2024

OHIO STATE PRESIDENT DISCUSSES AI IN HIGHER ED AT STATEHOUSE SUMMIT

States News Service

June 14, 2024 Friday

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Length: 636 words

Byline: States News Service

Dateline: COLUMBUS, Ohio

Body

The following information was released by Ohio State University - Columbus:

The challenges and opportunities raised by the growing use of **artificial intelligence** systems are at the forefront of operational and ethical considerations for government and higher education leaders. While the use of **artificial intelligence** has become more common thanks to programs like ChatGPT or DALL-E, machine learning is not a new phenomenon.

Walter "Ted" Carter Jr., president of The Ohio State University, remembers one of the early machine-learning programs that helped U.S. Navy fighter planes navigate the precarious task of landing on an aircraft carrier sailing in the deep ocean.

"We had created, through a lot of science, a mechanism that could actually manage the stick and throttle against that three-dimensional moving [aircraft carrier], learn and land the airplane safely," he said. "I have over 2,000 carrier landings and I have more than a handful using that technology."

Carter said one time the technology didn't work correctly and it almost ended in a plane crash for him and his colleague.

"So it's an early lesson, going back 41 years, about how the early development of machine-learning can be an asset but also can end up in **disaster**," he said.

Fast forward to 2024, and Carter is leading a university that conducts more than \$230 million in **AI** research involving more than 600 faculty members. Ohio State is also home to the Artificially Intelligent Manufacturing Systems (AIMS) Lab, which brings together industry professionals and academia to deploy **AI** in manufacturing, and the **AI**-EDGE Institute, which is working at the intersection of **AI** and networking to lay the groundwork for more intelligent transportation systems, remote health care and smart aerospace.

Carter was part of a day-long series of discussions for the inaugural **Artificial Intelligence** Symposium at the Statehouse this week. The Inter-University Council hosted the event, bringing together **AI** experts from the state's 14 public universities, industry leaders and government agencies.

OHIO STATE PRESIDENT DISCUSSES AI IN HIGHER ED AT STATEHOUSE SUMMIT

The goal of the symposium was to discuss how Ohio can leverage its **artificial intelligence** assets to advance the state's interests. From deep fakes and disinformation to preparing students to use **AI** in the workforce to driving **AI** innovation through university and industry partnerships, several topics were explored in depth.

Colleges and universities in Ohio already partner with industry leaders such as Microsoft, IBM and Qualcomm in the use of **AI** for research and development. Beena Sukumaran, dean of the College of Engineering and Computing at Miami University, described the development of a smart factory with Mitsubishi to simulate a factory floor.

"What we envision using the smart factory for is not only to give our students hands-on experience but also to integrate **AI** technology into manufacturing processes to make it more efficient," she said.

Beyond industry, the panelists agreed that students need to be prepared to incorporate **AI** into their academic careers. RJ Sargent, executive director of learning services at the University of Cincinnati's 1819 Innovation Hub, said equity and digital literacy is critical.

"We want to make sure that it's not just our engineers, our computer scientists, our data folks in the college of business that are using this, but that this digital and **AI** literacy is foundational to all UC students," he said.

Carter said the next evolution of **AI** will need to include understanding ethical decision-making,

"To me, that's the next stage ... as we get to the next level of supercomputer [research]. And that may take a lot longer to do than we think. I think that if I could have a magic wand, we would apply resources to do that collaboratively because we do have so much talent in all of our 14 public universities."

Classification

Language: ENGLISH

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Subject: **ARTIFICIAL INTELLIGENCE** (90%); COLLEGES & UNIVERSITIES (90%); GENERATIVE **AI** (90%); GOVERNMENT & PUBLIC ADMINISTRATION (90%); MACHINE LEARNING (90%); TECHNOLOGY (90%); US STATE GOVERNMENT (90%); CONFERENCES & CONVENTIONS (89%); MANUFACTURING FACILITIES (89%); MANUFACTURING TECHNOLOGY (89%); SMART TECHNOLOGY (89%); UNIVERSITY ADMINISTRATION (89%); COLLEGE & UNIVERSITY PROFESSORS (78%); DISINFORMATION & MISINFORMATION (78%); ENGINEERING (78%); GOVERNMENT BODIES & OFFICES (78%); INDUSTRIAL AUTOMATION (78%); RESEARCH & DEVELOPMENT (78%); SCHOOL BUSINESS PARTNERSHIPS (78%); ETHICS (77%); CHATBOTS (73%); DEEPFAKE TECHNOLOGY (73%); PUBLIC SCHOOLS (73%); AIRCRAFT ACCIDENTS (70%); NAVAL WEAPONS (70%); NAVIES (70%); US NAVY (70%); ALLIANCES & PARTNERSHIPS (69%); LABOR FORCE (68%); NEW MANUFACTURING FACILITIES (66%); PROFESSIONAL WORKERS (63%); INTELLIGENT TRANSPORT SYSTEMS (50%)

Company: MICROSOFT CORP (51%); QUALCOMM INC (51%)

Organization: OHIO STATE UNIVERSITY (94%); US NAVY (57%)

Ticker: MSFT (NASDAQ) (51%); QCOM (NASDAQ) (51%)

OHIO STATE PRESIDENT DISCUSSES AI IN HIGHER ED AT STATEHOUSE SUMMIT

Industry: SIC7372 PREPACKAGED SOFTWARE (51%); NAICS334413 SEMICONDUCTOR & RELATED DEVICE MANUFACTURING (51%); NAICS334220 RADIO & TELEVISION BROADCASTING & WIRELESS COMMUNICATIONS EQUIPMENT MANUFACTURING (51%); **ARTIFICIAL INTELLIGENCE** (90%); COLLEGES & UNIVERSITIES (90%); DEFENSE ELECTRONICS (90%); GENERATIVE **AI** (90%); MACHINE LEARNING (90%); NAVAL VESSELS (90%); EDUCATIONAL SERVICES (89%); MANUFACTURING (89%); MANUFACTURING FACILITIES (89%); MANUFACTURING TECHNOLOGY (89%); SMART TECHNOLOGY (89%); COLLEGE & UNIVERSITY PROFESSORS (78%); COMPUTER INTEGRATED MFG (78%); ENGINEERING (78%); FUTURE MOBILITY (78%); INDUSTRIAL AUTOMATION (78%); AIRCRAFT (75%); MILITARY VESSELS (75%); TRANSPORTATION & WAREHOUSING (75%); TRANSPORTATION ELECTRONICS (75%); CHATBOTS (73%); DEEPFAKE TECHNOLOGY (73%); PUBLIC SCHOOLS (73%); AIRCRAFT ACCIDENTS (70%); MILITARY AIRCRAFT (70%); NAVAL WEAPONS (70%); NAVIES (70%); US NAVY (70%); NEW MANUFACTURING FACILITIES (66%); INTELLIGENT TRANSPORT SYSTEMS (50%)

Geographic: COLUMBUS, OH, USA (92%); OHIO, USA (96%); UNITED STATES (79%)

Load-Date: June 14, 2024

End of Document

AI Ethics Council Welcomes LinkedIn Co-Founder Reid Hoffman and Commentator, Founder and Author Van Jones as Newest Members

AI Ethics Council Welcomes LinkedIn Co-Founder Reid Hoffman and Commentator, Founder and Author Van Jones as Newest Members

Business Wire

October 15, 2024 Tuesday 12:00 PM GMT

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Length: 833 words

Dateline: ATLANTA

Body

The AI Ethics Council, founded by OpenAI CEO Sam Altman and Operation HOPE CEO John Hope Bryant, announced today that Reid Hoffman (Co-Founder of LinkedIn and Inflection **AI** and Partner at Greylock) and Van Jones (CNN commentator, Dream Machine Founder and New York Times best-selling author) have joined as members. Formed in December 2023, the Council brings together an interdisciplinary body of diverse experts including civil rights activists, HBCU presidents, technology and business leaders, clergy, government officials and ethicists to collaborate and set guidelines on ways to ensure that traditionally underrepresented communities have a voice in the evolution of **artificial intelligence** and to help frame the human and ethical considerations around the technology. Ultimately, the Council also seeks to help determine how **AI** can be harnessed to create vast economic opportunities, especially for the underserved.

This press release features multimedia. View the full release here:
<https://www.businesswire.com/news/home/20241015572828/en/>

Mr. Hoffman and Mr. Jones join an esteemed group on the Council, which will serve as a leading authority in identifying, advising on and addressing ethical issues related to **AI**. In addition to Mr. Altman and Mr. Bryant, founding **AI** Ethics Council members include:

- [George T. French](#), Jr, JD, PhD., President, Clark Atlanta University and Chair of Presidents, United Negro College Fund
- [Helene D. Gayle](#), MD, MPH, President, Spelman College
- [Bernice A. King](#), JD, M. Div, CEO, The King Center
- [David A. Thomas](#), PhD., President, Morehouse College
- [Angela F. Williams](#), JD, M. Div, President and CEO, United Way Worldwide
- [Ambassador Andrew J. Young](#), Chairman, The Andrew J. Young Foundation, former U.N. Ambassador, former Mayor of Atlanta and civil rights icon

An accomplished entrepreneur, executive, and investor, Mr. Hoffman has played an integral role in building many of today's leading consumer technology businesses. In 2003, he co-founded LinkedIn, the world's largest professional networking service, and in 2009, he joined Greylock as a partner. In 2022, Hoffman co-founded Inflection **AI**, an **AI** studio that created Pi. He currently serves on the boards of Aurora, Coda, Entrepreneur First, Microsoft, Nauto, and a few early stage companies. In addition, he serves on a number of not-for-profit boards including Kiva, Endeavor, CZ Biohub, New America, Berggruen Institute, Opportunity@Work, the Stanford Institute for Human-Centered **AI**,

AI Ethics Council Welcomes LinkedIn Co-Founder Reid Hoffman and Commentator, Founder and Author Van Jones as Newest Members

and the MacArthur Foundation's Lever for Change. He is an Aspen Institute Crown Fellow, a Marshall Scholar at Oxford, and a graduate of Stanford University.

Van Jones is a dynamic U.S. media personality, an entrepreneur and a world-class change maker. Outside of his roles as a CNN contributor, Van has used his resources and connections to improve clean energy solutions, criminal justice reform and racial inclusion in the tech sector. In 2021, Jones was one of the first two recipients of Jeff Bezos' Courage & Civility Award. In 2018, he helped pass the FIRST STEP Act - which the New York Times calls the most substantial breakthrough in criminal justice in a generation. In 2009, he worked in the Obama White House as the Special Advisor for Green Jobs. In 2007, Van was the primary champion of the Green Jobs Act, signed into law by George W. Bush. Most recently, he launched a non-profit organization, Dream Machine Innovation Lab, which aims to equip multicultural communities with the tools to properly harness **artificial intelligence** and spearhead the future of innovation through **AI**-focused workshops, networking events, educational programming and more. Over the past 25 years, Van has founded and led many successful social enterprises, including REFORM Alliance, Ella Baker Center for Human Rights, Color of Change, Green For All and the Dream.Org. Jones is also an Emmy Award-winning producer and a three-time New York Times best-selling author.

About Operation HOPE, Inc.

Since 1992, Operation HOPE has been moving America from civil rights to "silver rights" with the mission of making free enterprise and capitalism work for the underserved-disrupting poverty for millions of low and moderate-income youth and adults across the nation. Through its community uplift model, HOPE Inside, which received the 2016 Innovator of the Year recognition by American Banker magazine, Operation HOPE has served more than 4 million individuals and directed more than \$3.2 billion in economic activity into disenfranchised communities-turning check-cashing customers into banking customers, renters into homeowners, small business dreamers into small business owners, minimum wage workers into living wage consumers, and uncertain **disaster** victims into financially empowered **disaster** survivors. For more information: [OperationHOPE.org](https://www.operationhope.org) . Follow the HOPE conversation on [Twitter](#) , [Facebook](#) , [Instagram](#) or [LinkedIn](#) .

View source version on businesswire.com: <https://www.businesswire.com/news/home/20241015572828/en/>

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<http://www.businesswire.com>

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AI Ethics Council Welcomes LinkedIn Co-Founder Reid Hoffman and Commentator, Founder and Author Van Jones as Newest Members

ADMINISTRATION (76%); GOVERNMENT BODIES & OFFICES (76%); CRIMINAL JUSTICE (73%); DIVERSITY & INCLUSION (73%); PUBLIC OFFICIALS (73%); BESTSELLERS (72%); UNITED NATIONS (72%); CLERGY & RELIGIOUS VOCATIONS (70%); EMBASSIES & CONSULATES (63%); CRIMINAL JUSTICE REFORM (60%); RELIGION (56%); CRIME, LAW ENFORCEMENT & CORRECTIONS (50%); Photo/Multimedia (%); Personnel (%); Contract/Agreement (%); Product/Service (%)

Company: MICROSOFT CORP (52%); GA-OPERATION-HOPE

Organization: UNITED NEGRO COLLEGE FUND (54%)

Ticker: MSFT (NASDAQ) (52%)

Industry: SIC7372 PREPACKAGED SOFTWARE (52%); HISTORICALLY BLACK COLLEGES (94%); **ARTIFICIAL INTELLIGENCE** ETHICS (93%); INTERNET SOCIAL NETWORKING (90%); WRITERS (90%); INFORMATION TECHNOLOGY INDUSTRY (89%); **ARTIFICIAL INTELLIGENCE** (78%); CELEBRITIES (77%); ENERGY & UTILITIES (73%); BESTSELLERS (72%); DEI (Diversity, Equity and Inclusion) (%); Other Philanthropy (%); Software (%); **Artificial Intelligence** (%); Consumer Electronics (%); Professional Services (%); Technology (%); Philanthropy (%)

Person: REID HOFFMAN (92%); SAM ALTMAN (79%); JEFFREY P BEZOS (58%)

Geographic: ATLANTA, GA, USA (93%); GEORGIA, USA (79%); UNITED STATES (92%); NORTH AMERICA (79%); Georgia; United States; North America

Load-Date: October 15, 2024

Clarifai Assessed "Awardable" for Department of Defense Work in the CDAO's Tradewinds Solutions Marketplace

Clarifai Assessed "Awardable" for Department of Defense Work in the CDAO's Tradewinds Solutions Marketplace

PR Newswire

June 20, 2024 Thursday 9:00 AM EST

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Body

PR Newswire Recognition Highlights Clarifai's Leading Role in Developing **AI** Solutions for Government and Defense Applications WASHINGTON, June 20, 2024 /PRNewswire/ --Clarifai, a global leader in **AI** orchestration and development, and pioneer of the full-stack **AI** platform, today announced that it has achieved "Awardable" status through the Chief Digital and **Artificial Intelligence** Office's (CDAO) Tradewinds Solutions Marketplace.

The Tradewinds Solutions Marketplace is the premier offering of Tradewinds, the Department of Defense's (DoD's) suite of tools and services designed to accelerate the procurement and adoption of **Artificial Intelligence (AI)**/Machine Learning (ML), data, and analytics capabilities. This designation highlights Clarifai's commitment to delivering cutting-edge **AI** solutions that meet the rigorous standards and strategic needs of the DoD. Being "Awardable" signifies that Clarifai's solutions have undergone thorough evaluation and have been recognized for their excellence, reliability, and potential to drive innovation within the defense sector. With Clarifai, leading enterprises and government groups are orchestrating **AI** workflows to transform and leverage unstructured data using Computer Vision, Large Language Models (LLMs), Large Vision Models (LVMs), and Generative **AI**. Clarifai's platform is designed to enable government users with any experience and background to integrate **AI** into projects such as threat recognition and tracking, detecting objects via aerial and satellite imagery, optimizing capital equipment maintenance, finding victims in **disaster** zones, enhancing security at borders, airports, and government locations, and much more. Customers can also tap into Clarifai's deep bench of leading **AI** researchers, academics, and scientists. "Clarifai is honored to receive this recognition from CDAO TradeWinds and we look forward to furthering our work with the CDAO and to the mission of safeguarding our nation," said Jonathan Padgett, VP Public Sector at Clarifai. "In the public sector, the ability to leverage data effectively is crucial, and we are proud to be at the forefront of driving meaningful change through **AI** and data analytics. We remain dedicated to continuing our work with the DoD, providing advanced **AI** capabilities that address complex challenges and deliver significant value." Clarifai has more than 400,000 users and has built 1.5 million models for brands such as Amazon, OpenTable, Siemens, Nvidia, and others. For U.S. government projects, Clarifai has top secret facility clearance, cleared personnel, availability on top secret and unclassified networks, and is already trusted by JSOC, NGA, DHS, and DoD. Clarifai was recognized among a competitive field of applicants to the Tradewinds Solutions Marketplace whose solutions demonstrated innovation, scalability, and potential impact on DoD missions. Government customers interested in viewing a video demonstration of the solution can create a Tradewinds Solutions Marketplace account at tradewindAI.com. Learn more here about how Clarifai is accelerating **AI** readiness for government. **About Clarifai** Clarifai is a leader in **AI** orchestration and development, helping organizations, teams, and developers build, deploy, and operationalize **AI** at scale. Clarifai's cutting-edge **AI** orchestration platform leverages today's modern **AI** technologies like Large Language Models (LLMs), Large Vision Models (LVMs), and

Clarifai Assessed "Awardable" for Department of Defense Work in the CDAO's Tradewinds Solutions Marketplace

Retrieval Augmented Generation (RAG), data labeling, inference, and more. Founded in 2013, Clarifai is available in cloud, on-premises, or hybrid environments and has been used to build more than 1.5 million **AI** models with more than 400,000 users in 170 countries. Learn more at www.clarifai.com. For more information or media requests, contact: **About the Tradewinds Solutions Marketplace** The Tradewinds Solutions Marketplace is a digital repository of post-competition, readily awardable pitch videos that address the Department of Defense's (DoD) most significant challenges in the **Artificial Intelligence**/Machine Learning (**AI**/ML), data, and analytics space. All awardable solutions have been assessed through complex scoring rubrics and competitive procedures and are available to Government customers with a Marketplace account. Government customers can create an account at www.tradewindsai.com. Tradewinds is housed in the DoD's Chief Digital **Artificial Intelligence** Office. For more information or media requests, contact: [View original content to download multimedia:https://www.prnewswire.com/news-releases/clarifai-assessed-awardable-for-department-of-defense-work-in-the-cdaos-tradewinds-solutions-marketplace-302177291.html](#) SOURCE Clarifai

Classification

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Subject: PRESS RELEASES (91%); **ARTIFICIAL INTELLIGENCE** (90%); DEFENSE DEPARTMENTS (90%); GOVERNMENT BODIES & OFFICES (90%); NATIONAL SECURITY & FOREIGN RELATIONS (90%); DATA ANALYTICS (89%); ASSOCIATIONS & ORGANIZATIONS (78%); BUSINESS ANALYTICS (78%); DATA SCIENCE (78%); GENERATIVE **AI** (78%); LARGE LANGUAGE MODELS (78%); MACHINE VISION (74%); MACHINE LEARNING (73%); BORDER CONTROL (71%); HARBOR & PORT SECURITY (71%); NEGATIVE NEWS (69%); CLARIFAI-awardable (%)

Company: STACK INFRASTRUCTURE INC (72%); OPENTABLE INC (51%); NVIDIA CORP (51%); SIEMENS AG (51%); Clarifai

Ticker: NVDA (NASDAQ) (51%); SIE (BIT) (51%); SIE (FRA) (51%); SIN (SWX) (51%)

Industry: NAICS531210 OFFICES OF REAL ESTATE AGENTS & BROKERS (72%); NAICS518210 COMPUTING INFRASTRUCTURE PROVIDERS, DATA PROCESSING, WEB HOSTING, AND RELATED SERVICES (72%); SIC7374 COMPUTER PROCESSING & DATA PREPARATION & PROCESSING SERVICES (72%); SIC6531 REAL ESTATE AGENTS & MANAGERS (72%); NAICS513210 SOFTWARE PUBLISHERS (51%); NAICS541990 ALL OTHER PROFESSIONAL, SCIENTIFIC & TECHNICAL SERVICES (51%); SIC7372 PREPACKAGED SOFTWARE (51%); NAICS334413 SEMICONDUCTOR & RELATED DEVICE MANUFACTURING (51%); NAICS334118 COMPUTER TERMINAL & OTHER COMPUTER PERIPHERAL EQUIPMENT MANUFACTURING (51%); SIC3674 SEMICONDUCTORS & RELATED DEVICES (51%); SIC3577 COMPUTER PERIPHERAL EQUIPMENT, NEC (51%); NAICS334210 TELEPHONE APPARATUS MANUFACTURING (51%); NAICS334513 INSTRUMENTS & RELATED PRODS MFG FOR MEASURING, DISPLAYING & CONTROLLING IND PROCESS VARIABLES (51%); NAICS335139 ELECTRIC LAMP BULB AND OTHER LIGHTING EQUIPMENT MANUFACTURING (51%); **ARTIFICIAL INTELLIGENCE** (90%); DEFENSE DEPARTMENTS (90%); DEFENSE INDUSTRY (90%); DATA ANALYTICS (89%); BUSINESS ANALYTICS (78%); DATA SCIENCE (78%); DEFENSE & AEROSPACE (78%); GENERATIVE **AI** (78%); IMAGE PROCESSING & COMPUTER VISION (78%); INFORMATION MANAGEMENT & TECHNOLOGY (78%); LARGE LANGUAGE MODELS (78%); MACHINE VISION (74%); MACHINE LEARNING (73%); HARBOR & PORT SECURITY (71%); AIRPORTS (64%); ARO

Clarifai Assessed "Awardable" for Department of Defense Work in the CDAO's Tradewinds Solutions Marketplace

Aerospace; Defense (%); CPR Computer; Electronics Products (%); DTA Data Analytics (%); STW Computer Software (%)

Geographic: WASHINGTON DC, USA (79%); UNITED STATES (92%); District of Columbia

Load-Date: July 15, 2024

End of Document

California Potentially Faces Worst Fire Season Ever: AX's FireScout AI SaaS Technology Can Help Minimize the Crisis

GlobeNewswire

July 9, 2024 Tuesday 4:48 PM PT

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**Section:** PRODUCT / SERVICES ANNOUNCEMENT**Length:** 769 words

Body

LOS ANGELES, July 09, 2024 (GLOBE NEWSWIRE) -- At the start of the 2024 Fire Season, AX's FireScout **AI** SaaS technology emerges as a leading technology on a global basis, in combating these devastating events. The fire season has barely begun, yet communities around the globe are already experiencing unprecedented challenges. Early reports indicate a severe season ahead, with increasing numbers of wildfires and acres burned.

AX is a global leader in advanced technology solutions, with a presence spanning the United States, Korea, Australia, and Europe. "Our mission is to provide cutting-edge, **AI**-driven solutions to address some of the world's most pressing issues, including wildfire management," said Michael Plaksin, the President and CEO of AX. He adds, "FireScout, our state-of-the-art **AI** SaaS technology, has already demonstrated significant success in early detection and rapid response to wildfires, helping to save lives, property, and natural resources."

FireScout's innovative approach utilizes advanced algorithms and real-time data to identify fire threats faster and more accurately than traditional methods. This proactive system enables firefighting teams to respond swiftly, minimizing the impact of wildfires. Our technology has been implemented across various regions, yielding remarkable results in reducing the devastation caused by these natural disasters.

Despite our global successes, the situation in California highlights the urgent need for enhanced fire management solutions.

The latest statistics from California are alarming:

- Over 312,403 total emergency responses have been recorded year-to-date.
- More than 3,499 wildfires have occurred, almost double the five-year average.
- Over 197,288 acres have burned, nearly 12x the five-year average.
- 128 structures have been damaged or destroyed.
- Average Impact of Wildfires in California: \$5B per year, and growing.

California Potentially Faces Worst Fire Season Ever: AX's FireScout AI SaaS Technology Can Help Minimize the Crisis

These numbers do not even account for the upcoming peak months of July through September, indicating a worsening trend that requires immediate action.

FireScout is not presently being utilized on as many of California cameras, leaving the state without the internationally proven benefits and accuracy of AX's advanced **AI** technology, being able to detect fires in less than 1 minute, and providing notifications to first responders anywhere from 20 minutes to 2 hours prior to a 911 call. It appears, the present alternatives have proven to be insufficient in addressing the scale and intensity of the current and growing fire threats.

The State of California urgently needs a more advanced **artificial intelligence** fire detection software program to support and combat the escalating wildfire crisis. FireScout's proven effectiveness in early detection and rapid response would be a game-changer for California, as it already has in the recent past, providing the much-needed edge to protect lives, properties, and the environment.

AX, is a leading technology company specializing in visual **artificial intelligence (AI)** Software-as-a-Service (SaaS) solutions. With a focus on visual and facial recognition technologies, AX develops and distributes innovative products that enhance safety and security across various industries worldwide.

About AX

Founded in 2016, AX is an **artificial intelligence** Software-as-a-Service (SaaS) company that has developed award-winning proprietary technology in the areas of wildfire detection and visual **artificial intelligence (AI)** including facial recognition, augmented reality, and more.

FireScout, the leader in wildfire detection SaaS, utilizes **AI** to provide wildfire detection in real time on a 24/7/365 basis. FireScout seamlessly integrates into existing camera/monitor systems.

We offer the most informative, effective, and supportive user interface system in the market today. FireScout has been used on over 1,000 cameras throughout the Western United States and is considered to be the de facto standard in **AI** for **disaster** prevention in wildfire management. Join the Conversation: Follow us on LinkedIn – AX and FireScout, Twitter and YouTube.

Media Contact: Palak Kapasi Head of Marketing & Public Relations, AXAXmedia@alcherainc.com

Photos accompanying this announcement are available at: <https://www.globenewswire.com/NewsRoom/AttachmentNg/14b5ad56-dcb4-47d3-8cee-73975bb6bfe6>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/d590f7f4-a097-4bcc-bfb6-63db5f688078>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/4f8262c0-98eb-4253-9a3c-616750fa052b>

CalFire Stats

5 Year Average

The Cost of Wildfires (US & California)

CA: \$5B Annually and growing.

Michael Plaksin

President & CEO of AX

Classification

California Potentially Faces Worst Fire Season Ever: AX's FireScout AI SaaS Technology Can Help Minimize the Crisis

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Subject: WILDFIRES (93%); FIRES (92%); NEGATIVE NEWS (90%); PRESS RELEASES (90%); TECHNOLOGY (90%); **ARTIFICIAL INTELLIGENCE** (89%); EMERGENCY SERVICES (89%); NATURAL DISASTERS (89%); SAFETY, ACCIDENTS & DISASTERS (89%); AUSTRALIAN BUSHFIRES (78%); FIRE MANAGEMENT (78%); SMOKE DETECTORS (78%); TRENDS & EVENTS (77%); TRENDS (76%); SECURITY & ALARM SYSTEMS (73%); STATISTICS (72%); EXECUTIVES (71%); WILDFIRE MITIGATION (%); FIRESOUT (%); **AI** (%); SAAS (%); FIRST RESPONDERS (%)

Company: AX

Industry: **ARTIFICIAL INTELLIGENCE** (89%); AS A SERVICE (89%); SOFTWARE AS A SERVICE (89%); INFORMATION TECHNOLOGY INDUSTRY (79%); SMOKE DETECTORS (78%); SOFTWARE SERVICES & APPLICATIONS (78%); SECURITY & ALARM SYSTEMS (73%); COMPUTER SOFTWARE (63%); Financials (%)

Company-Terms: Financials AX Los Angeles CA US

Geographic: LOS ANGELES, CA, USA (90%); CALIFORNIA, USA (94%); EUROPE (79%); UNITED STATES (79%)

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End of Document

JACOBS' DREAM: IMPROVING DISASTER RISK MANAGEMENT USING VISUAL CLUES IN THE AGE OF AI AND MACHINE LEARNING

JACOBS' DREAM: IMPROVING DISASTER RISK MANAGEMENT USING VISUAL CLUES IN THE AGE OF AI AND MACHINE LEARNING

States News Service

May 14, 2024 Tuesday

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Length: 1194 words**Byline:** States News Service**Dateline:** WASHINGTON**Body**

The following information was released by the World Bank:

In late 1981, the legendary urban design expert Allan B. Jacobs was walking along a road in Tangshan, China, visiting a new housing development when he noticed improvised, hand-made grates covering many windows and porches. He commented to his Chinese colleague that in the United States, such grates would indicate to visitors that the residents considered the neighborhood unsafe. When his colleague confirmed the same was true in China, Jacobs realized that most professions use these types of simple visual clues as a way to understand a neighborhood and wondered why urban planners did not follow suit.

This is how Jacobs opens his seminal book, *Looking at Cities*, dedicated to the art of urban observation and detection of urban clues.¹ Four decades later, Jacobs' framework remains relevant, even as the tools we use to study and visualize cities have transformed. We no longer require a notebook and comfortable shoes to understand an urban environment. Today, from a continent away, we can see not just whether a neighborhood has grates on its windows, but also whether building foundations are cracking, roads are paved, and sidewalks navigable for wheelchairs. Quite simply, with a computer and internet connection, we can bring Jacobs' approach to almost any neighborhood anywhere in the world.

Recent technological advancements enable us to efficiently review images, identify urban clues, and reveal spatial patterns across an entire neighborhood or city. By applying machine learning algorithms to high-resolution imagery taken above the city (aerial imagery) and at ground level (street view imagery), we can make comprehensive, multi-view urban observations from the sky and street. The resulting georeferenced datasets and accompanying visualizations hold enormous potential to help create resilient, healthy communities. That includes unprecedented opportunities for spatial planning, **disaster** and climate risk management and reduction.

Using this data, planners and engineers can analyze built components to gather clues about blocks, neighborhoods, and cities through access to a wide-ranging overview of specific urban characteristics, such as each unit's:

Size (area, height, and volume of building)

Use (residential, commercial, critical infrastructure, or mixed)

JACOBS' DREAM: IMPROVING DISASTER RISK MANAGEMENT USING VISUAL CLUES IN THE AGE OF AI AND MACHINE LEARNING

Masonry (unreinforced, reinforced, or unknown)

Vintage (for example, pre-1940, 1941-1974, 1975-1999, and 2000-present. These are locally determined based on field surveys conducted by structural engineers.)

Roof condition (good, fair, poor, under construction or vacant)

Roof material (concrete, metal, mixed, tile, other)

Wall condition (good, fair, poor)

Wall material (typically: brick or concrete block, plaster, mix/unclear/other; can include: wood polished, wood - crude/plank, adobe, corrugated metal, stone with mud/ashlar with lime or cement, container/trailer, plant material)

Total condition (composite estimation based on roof and wall conditions)

Taken together, these unprecedented rapid, high-resolution screenings across multiple square kilometers enable cheaper, more efficient, and more targeted pre- and post-**disaster** planning. While collecting a house-by-house census can take months or require thousands of workers, high-resolution images can now be captured by a team of four within a week, often using a single car, a drone, and a few cameras.

As outlined in a newly published paper supported by Global Facility for **Disaster** Reduction and Recovery's (GFDRR's) Global Program for Resilient Housing, this approach enables planners to identify specific buildings at scale that need improvements or strengthening. It holds promise for use as a proxy for social vulnerability, a crucial aspect of **disaster** risk management. Related work can inform region-wide traffic and infrastructure management decisions and scan for buildings' structural vulnerabilities in earthquake-prone areas. Future developments might pinpoint roofs that could generate solar power or identify emergency routes and shelters.

Where and how might this be applied?

This approach is suitable for almost any environment. Local officials can prioritize neighborhoods and cities with limited, recent data describing their built environment, especially locations with natural hazards or other risks. Areas of interest typically span 15 to 25 square kilometers, though this approach has been implemented in locations up to 80 square kilometers, making it suitable for small island states.

An important step is to gather the street view imagery. While this is easiest to capture from a car mounted with many cameras (e.g., Google Street View), in informal areas or places with narrow pathways, capturing these images can require attaching a 360 camera (e.g., GoPro Fusion) to a backpack mounted on a motorcycle or carried on foot.

Once the street view data has been collected, it can be uploaded to Mapillary, a crowdsourced platform, which blurs faces and license plates before the imagery is publicly available. As street view coverage is not yet ubiquitous, this provides open-source access to recent street view imagery and circumvents licensing requirements while still protecting personal privacy.

Next, as many contemporary solutions leverage **artificial intelligence (AI)**, machine learning (ML), or deep learning (DL), it is crucial to follow ethical guidelines and mitigate potential biases in training data for a successful project. And, of course, local experts and other users can then review the datasets and ensure that the predictions and classifications made by the algorithms are accurate. This approach has been effective in various countries, including Colombia, Guatemala, Indonesia, Mexico, Paraguay, Peru, Saint Lucia, and Sint Maarten.

Quite notably, in these projects, the urban imagery and machine learning results are navigable in a browser interface. This approach makes detailed information accessible to local planners and officials with an internet connection and login credentials to the open-source geospatial portal.² This means that users of diverse expertise can verify the machine learning predictions with the imagery and conduct simple analyses to visualize patterns in

JACOBS' DREAM: IMPROVING DISASTER RISK MANAGEMENT USING VISUAL CLUES IN THE AGE OF AI AND MACHINE LEARNING

the built environment. The portal can export machine learning predictions and, given their granularity, can be combined with other data for further hazard and risk analysis.

Altogether, using classic observational principles and machine learning algorithms to evaluate buildings, neighborhoods, and urban areas, we can now make educated and efficient inferences about vast, complex built environments. Specific, granular information and visualizations are available to save and improve lives, protect assets, and shield economies from increasing **disaster** risks.

In short, in 2024, using machine learning and imagery collected from the sky and street, we can finally make Jacobs' vision from 1981 a reality: widespread, simple visual analysis that helps inform urban development and, ultimately, improves people's lives.

1Jacobs A.B. (1985)Looking at Cities.Cambridge: Harvard University Press.

2The code for the open-source portal: https://github.com/GPRH/housing_portal

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** (90%); LAND USE PLANNING (90%); MACHINE LEARNING (90%); RISK MANAGEMENT (90%); URBAN DEVELOPMENT (90%); ACCIDENTS & DISASTERS (89%); **DISASTER** RISK REDUCTION (89%); ENGINEERING (89%); TECHNICIANS & TECHNOLOGICAL WORKERS (89%); CITIES (78%); CIVIL ENGINEERING (78%); CRITICAL INFRASTRUCTURE (78%); GEOSPATIAL DATA (78%); TECHNOLOGY (76%); INTERNATIONAL ECONOMIC ORGANIZATIONS (75%); CITY LIFE (73%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); LAND USE PLANNING (90%); MACHINE LEARNING (90%); REAL ESTATE (90%); RISK MANAGEMENT (90%); ENGINEERING (89%); RESIDENTIAL CONSTRUCTION (89%); RESIDENTIAL PROPERTY (89%); CIVIL ENGINEERING (78%); GEOSPATIAL DATA (78%); CONSTRUCTION (77%); COMPUTER NETWORKS (66%); INTERNET & WWW (66%); ROOFING MATERIALS (63%)

Geographic: CHINA (92%); UNITED STATES (92%)

Load-Date: May 15, 2024

Nfina Technologies Releases the 4508T-AI, a High-Precision AI Computing Workstation

PR Newswire

August 7, 2024 Wednesday 8:37 AM EST

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Length: 616 words**Dateline:** MOBILE, Ala., Aug. 7, 2024

Body

PR NewswireMOBILE, Ala., Aug. 7, 2024 /PRNewswire/ -- Nfina announces the release of the 4508T-**AI** Workstation. Powered by NVIDIA® GPUs, this eight-bay workstation offers software developers, data scientists, and academia a high-performance, cost-effective platform to develop cutting-edge **AI** models and run **AI**-based applications. Putting **Artificial Intelligence (AI)** to work at scale requires preprocessing, training, and deployment. There are different development toolchains, frameworks, and workloads, all of which create unique obstacles and require a different amount of computing power.

That's where Nfina's 4508T-**AI** Workstation comes in. Powered by 5th Generation Intel® Xeon® Scalable Processors, 5600MT/s speed memory, and NVIDIA RTX 6000 Ada GPUs, the 4508T-**AI** Workstation excels at dynamic calculations and high-precision computing workflows. The 5th Gen Intel Xeon processors, equipped with **AI** acceleration in every core, speed up training and deep-learning inference to handle demanding **AI** workloads and eliminate the need for additional discrete accelerators. According to Intel, these processors offer 42% faster inference performance and less than 100 millisecond latency on large language models (LLMs) with under 20 billion parameters compared to the previous generation. The NVIDIA RTX 6000 Ada GPU with 48GB/s memory boasts 2x the speed, throughput, and **AI** performance of previous generations. RTX 6000 provides next-generation rendering, **AI** graphics, and petaflop inferencing performance by combining 142 RT Cores, 668 Tensor Cores, and 18,176 CUDA cores. The RTX 6000 supports CUDA™ API and NVIDIA RTX Virtual Workstation Software™. To effectively manage the extensive requirements of **AI**, the 4508T-**AI** Workstation supports up to 144TB of onboard storage, geo-redundant cloud storage, and Nfina JBOD expansion devices. For a powerful end-to-end **AI** solution, Nfina recommends NVIDIA **AI** Enterprise subscription and OS support. NVIDIA **AI** Enterprise not only includes an extensive library of NVIDIA frameworks and pre-trained models but alleviates the challenges of **AI** workloads by integrating different open-source data analytics, modeling, deep-learning frameworks, and deployment tools such as PyTorch™, TensorFlow™, scikit-learn™, and XGBoost™. President and CEO of Nfina, Warren Nicholson, states "Nfina recognizes the importance of reliability in demanding applications like **AI**, which is why our deep learning workstations undergo rigorous testing to ensure they can handle continuous heavy workloads without compromising stability or data integrity. With these state-of-the-art workstations at your disposal, **artificial intelligence** has never been easier or more accessible." The new Nfina system is available now through Nfina's partner network. All Nfina systems can be purchased outright or bundled with Nfina's managed services to fit business application needs and monthly budgets.

About Nfina Technologies: Nfina is an IT infrastructure manufacturer and solutions provider supplying cyber resilience for business continuity. Our IT solutions and services include Hybrid Cloud, Hyperconverged, Storage, Servers, **AI** Workstations, Backup and **Disaster** Recovery, and Cloud Hosting. IT departments have trusted Nfina Technologies to protect their computing and storage equipment from vulnerabilities

Nfina Technologies Releases the 4508T-AI, a High-Precision AI Computing Workstation

and meet their growing technology needs since 2012. Nfina products carry a market-leading 5-year warranty and US-based tech support.nfina.comContact: Gene Everette

251.243.0043

nfina.com View original content to download multimedia:<https://www.prnewswire.com/news-releases/nfina-technologies-releases-the-4508t-ai-a-high-precision-ai-computing-workstation-302215758.html>SOURCE Nfina Technologies

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** (90%); PRESS RELEASES (90%); TECHNOLOGY (90%); DATA SCIENCE (89%); DEEP LEARNING (89%); MACHINE LEARNING (89%); DATA ANALYTICS (78%); LARGE LANGUAGE MODELS (78%); TECHNICIANS & TECHNOLOGICAL WORKERS (78%); BUSINESS ANALYTICS (77%); EXECUTIVES (63%); BUSINESS CONTINUITY (60%); NFINA-TECH-4508T-**AI** (%); PDT New Products and Services (%)

Company: NVIDIA CORP (92%); INTEL CORP (56%); Nfina Technologies

Ticker: NVDA (NASDAQ) (92%); INTC (NASDAQ) (56%)

Industry: NAICS334413 SEMICONDUCTOR & RELATED DEVICE MANUFACTURING (92%); NAICS334118 COMPUTER TERMINAL & OTHER COMPUTER PERIPHERAL EQUIPMENT MANUFACTURING (92%); SIC3674 SEMICONDUCTORS & RELATED DEVICES (92%); SIC3577 COMPUTER PERIPHERAL EQUIPMENT, NEC (92%); **ARTIFICIAL INTELLIGENCE** (90%); COMPUTER SOFTWARE (90%); SOFTWARE MAKERS (90%); SOFTWARE SERVICES & APPLICATIONS (90%); DATA SCIENCE (89%); DEEP LEARNING (89%); MACHINE LEARNING (89%); SEMICONDUCTOR MFG (88%); APPLICATION PROGRAMMING INTERFACES (78%); CLOUD COMPUTING (78%); COMPUTING & INFORMATION TECHNOLOGY (78%); DATA ANALYTICS (78%); DATA STORAGE TECHNOLOGY (78%); INFORMATION MANAGEMENT & TECHNOLOGY (78%); LARGE LANGUAGE MODELS (78%); MANUFACTURING (78%); OPEN DATA (78%); OPEN SOURCE SOFTWARE (78%); BUDGETS (77%); BUSINESS ANALYTICS (77%); SOFTWARE DEVELOPMENT & ENGINEERING (73%); CPR Computer; Electronics Products (%); HRD Computer Hardware (%); STW Computer Software (%)

Geographic: MOBILE, AL, USA (79%); ALABAMA, USA (90%); Alabama

Load-Date: August 7, 2024

Fake Hurricane Helene images go viral, experts discuss the problem and how to counteract

Targeted News Service

October 7, 2024 Monday 3:47 PM EST

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Length: 691 words

Byline: Targeted News Service

Dateline: BLACKSBURG, Virginia

Body

Virginia Tech issued the following news:

Thousands of well-meaning social media users have been sharing photos supposedly depicting the aftermath of Hurricane Helene's destruction that have turned out to be fake images generated by **artificial intelligence (AI)**. These fake images can erode trust in legitimate sources of news during a crisis or even function as a vector for cyberattacks.

Communication media expert Cayce Myers explained the problems these fake images pose, while digital literacy expert Julia Feerrar shared steps for determining whether a compelling image is **AI**-generated or taken out of context from another source.

Cayce Myers on challenges of **AI**-generated fakes

"The Hurricane Helene photos demonstrate the current challenges with disinformation and social media. **AI** technology is providing greater ability to create realistic images that are deceptive," Myers said. "The hurricane images have certainly had an impact on the public, and their spread and believability demonstrate how we now live in a new technological and communication reality in the age of **artificial intelligence**."

"The problem is these fake images influence peoples' perception of reality, and social media fuels the spread of this disinformation. The net effect can be harmful to society, especially when dealing with important issues like democracy and public health," Myers said.

Julia Feerrar on detecting fake or out-of-context images

"Here are some steps for vetting the images you see in your social media feeds," Feerrar said.

"Take a moment to pause when you see an image or other media that sparks a big response for you. The emotional aspect of information-sharing during and after a **disaster** like Hurricane Helene is so challenging, and with **AI**-generated content in the mix it can be especially hard to sift through information to help us understand the situation and take action to help."

Fake Hurricane Helene images go viral, experts discuss the problem and how to counteract

"Open up your search engine of choice to find more context. Describing the image and adding the phrase 'fact check' to your search is often the fastest way to get more information and debunk misleading content."

"Use reverse image search tools like TinEye or Google Lens to see where else a certain image has been shared online. This strategy can help you catch **AI**-generated images, as well as older images from other events that may have been reshared out of context."

"Look out for images with strange lighting, hyper-real or overly smooth surfaces, or other details that feel 'off.' Inconsistencies in hands and feet, in particular, are a red flag for **AI**-generated content, though we can't count on these cues as **AI** tools are continuing to improve."

"Vet social media posts that ask you to take action, such as donating through a link. It can often be safer to go directly to a given organization's donation page. Multiple national and local organizations, as well as universities, have curated lists of places to donate and help further."

Check out further resources on fact-checking and evaluating information in this toolkit from the University Libraries at Virginia Tech: <https://guides.lib.vt.edu/dltoolkit/evaluation>

About Myers

Cayce Myers is a professor of public relations and director of graduate studies at the School of Communication at Virginia Tech. His work focuses on media history, political communication, and laws that affect public relations practice. He is the author of "Public Relations History: Theory Practice" and "Profession and Money in Politics: Campaign Fundraising in the 2020 Presidential Election." Read more here.

About Feerrar

Julia Feerrar is a librarian and digital literacy educator. She is an associate professor at the University Libraries at Virginia Tech and head of the Digital Literacy Initiatives. Her interests include digital well-being, combatting mis/disinformation, and digital citizenship. Read more here.

Schedule an interview

To schedule interviews with these experts, contact Mike Allen in the media relations office at mike.allen@vt.edu or 540-400-1700.

Original text here: <https://news.vt.edu/articles/2024/10/AI-fake-hurricane-helene-photo-images-experts.html>

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Publication-Type: Newswire

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Fake Hurricane Helene images go viral, experts discuss the problem and how to counteract

DEEPPAKE TECHNOLOGY (77%); CYBERCRIME (73%); DEMOCRACIES (73%); NEGATIVE TECHNOLOGY NEWS (73%); CYBERATTACKS (72%); NEGATIVE SOCIETAL NEWS (72%)

Company: GOOGLE LLC (56%)

Industry: NAICS519290 WEB SEARCH PORTALS AND ALL OTHER INFORMATION SERVICES (56%); SOCIAL MEDIA (91%); **ARTIFICIAL INTELLIGENCE** (90%); GENERATIVE **AI** (90%); PHOTO & VIDEO SHARING (90%); SOCIAL MEDIA MISINFORMATION (78%); DEEPPAKE TECHNOLOGY (77%); CYBERCRIME (73%); CYBERATTACKS (72%); SEARCH ENGINES (66%)

Geographic: VIRGINIA, USA (59%)

Load-Date: October 8, 2024

End of Document

FAKE HURRICANE HELENE IMAGES GO VIRAL, EXPERTS DISCUSS THE PROBLEM AND HOW TO COUNTERACT

FAKE HURRICANE HELENE IMAGES GO VIRAL, EXPERTS DISCUSS THE PROBLEM AND HOW TO COUNTERACT

US Fed News

October 7, 2024 Monday 12:31 PM EST

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Length: 703 words

Body

BLACKSBURG, Va., Oct. 7 -- Virginia Polytechnic Institute and State University issued the following news release:

Thousands of well-meaning social media users have been sharing photos supposedly depicting the aftermath of Hurricane Helene's destruction that have turned out to be fake images generated by **artificial intelligence (AI)**. These fake images can erode trust in legitimate sources of news during a crisis or even function as a vector for cyberattacks.

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"The problem is these fake images influence peoples' perception of reality, and social media fuels the spread of this disinformation. The net effect can be harmful to society, especially when dealing with important issues like democracy and public health," Myers said.

Julia Feerrar on detecting fake or out-of-context images

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* "Take a moment to pause when you see an image or other media that sparks a big response for you. The emotional aspect of information-sharing during and after a **disaster** like Hurricane Helene is so challenging, and with **AI**-generated content in the mix it can be especially hard to sift through information to help us understand the situation and take action to help."

* "Open up your search engine of choice to find more context. Describing the image and adding the phrase 'fact check' to your search is often the fastest way to get more information and debunk misleading content."

FAKE HURRICANE HELENE IMAGES GO VIRAL, EXPERTS DISCUSS THE PROBLEM AND HOW TO COUNTERACT

* "Use reverse image search tools like TinEye or Google Lens to see where else a certain image has been shared online. This strategy can help you catch **AI**-generated images, as well as older images from other events that may have been reshared out of context."

* "Look out for images with strange lighting, hyper-real or overly smooth surfaces, or other details that feel 'off.' Inconsistencies in hands and feet, in particular, are a red flag for **AI**-generated content, though we can't count on these cues as **AI** tools are continuing to improve."

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Schedule an interview

To schedule interviews with these experts, contact Mike Allen in the media relations office at mike.allen@vt.edu or 540-400-1700. For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

Classification

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Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** (90%); DISINFORMATION & MISINFORMATION (90%); GENERATIVE **AI** (90%); PHOTO & VIDEO SHARING (90%); SOCIAL MEDIA (90%); TECHNOLOGY (89%); FACT CHECKING (78%); PUBLIC HEALTH (78%); SOCIAL MEDIA MISINFORMATION (78%); DEEPFAKE TECHNOLOGY (77%); TROPICAL STORMS (77%); CYBERCRIME (73%); DEMOCRACIES (73%); NEGATIVE TECHNOLOGY NEWS (73%); PRESS RELEASES (73%); CYBERATTACKS (72%); NEGATIVE SOCIETAL NEWS (72%)

Company: GOOGLE LLC (56%)

Industry: NAICS519290 WEB SEARCH PORTALS AND ALL OTHER INFORMATION SERVICES (56%); **ARTIFICIAL INTELLIGENCE** (90%); GENERATIVE **AI** (90%); PHOTO & VIDEO SHARING (90%); SOCIAL

FAKE HURRICANE HELENE IMAGES GO VIRAL, EXPERTS DISCUSS THE PROBLEM AND HOW TO COUNTERACT

MEDIA (90%); SOCIAL MEDIA MISINFORMATION (78%); DEEPFAKE TECHNOLOGY (77%); CYBERCRIME (73%); CYBERATTACKS (72%); SEARCH ENGINES (66%)

Geographic: VIRGINIA, USA (91%)

Load-Date: October 8, 2024

End of Document

Microsoft: Another Important Step in Advancing Responsible AI to Serve The World

Targeted News Service

September 18, 2024 Wednesday 7:47 PM EST

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Length: 1275 words

Byline: Targeted News Service

Dateline: REDMOND, Washington

Body

Microsoft issued the following news release on Sept. 17, 2024:

ABU DHABI, United Arab Emirates -- As Microsoft Corp. and G42 continue to advance our collaboration, we are sharing two significant initiatives to help ensure that **AI** is used responsibly and serves the world. This work builds on the partnership we jointly announced earlier this year and marks the beginning of several additional steps we will announce in the weeks and months ahead.

Today, we're announcing the establishment in Abu Dhabi of two new centers that together will advance our collective Responsible **AI** goals. The first, co-founded and co-funded by G42 and Microsoft, with the endorsement of Abu Dhabi's **Artificial Intelligence** and Advanced Technology Council (AIATC), will identify, develop and advance best practices and industry standards for the responsible use of **AI** in the Middle East and the Global South. The second is the expansion of Microsoft's **AI** for Good Research Lab into Abu Dhabi, which will support **AI** projects that address key societal goals.

The first center will convene academic researchers and **AI** practitioners from across the private sector to develop, document and share emerging Responsible **AI** best practices. G42 and Microsoft are both committed to working closely with the Center to bring together individuals and organizations from across the Middle East, the Global South, and more broadly to learn from each other and develop ongoing advances in this emerging field.

Simultaneously, Microsoft's **AI** for Good Lab will open a center in Abu Dhabi, its first in the Middle East. This new lab will harness the power of **AI** to collaborate with nonprofit organizations and partners, addressing key economic and societal challenges across the Middle East and Africa. In close collaboration with the Lab's existing team in Nairobi, this initiative will prioritize the development of large language models for underrepresented languages, helping bridge the global language divide. It will also focus on advancing food security and strengthening climate resilience by applying **AI** to high-resolution geospatial data, enhancing **disaster** preparedness and response capabilities.

The partnership will work alongside the AIATC, which was created in January to develop plans and research programs in collaboration with local and global partners to enhance Abu Dhabi's status in the fields of **artificial intelligence** and advanced technology.

Microsoft: Another Important Step in Advancing Responsible AI to Serve The World

The two centers build on the work that Microsoft and G42 are taking together to implement Responsible AI standards and practices. This includes working to ensure that the two companies' generative AI models and applications are developed, deployed and used safely -- a commitment that is at the heart of the Responsible AI policies that Microsoft has developed and implemented, and that G42 is now adopting in connection with our partnership and the commitments made to the U.S. and UAE governments.

Among other things, these policies govern the design and use of AI applications, incorporate digital safety and cybersecurity plans for model training and deployment, and establish "red teaming" processes to harden AI systems against probing, testing and attacks. G42's adoption of these policies will solidify the UAE's position as a trusted global AI hub and ensure that Microsoft and G42 AI technologies running on Azure are responsibly shared with our growing joint customer base, globally.

"Today's steps will add to the important progress Microsoft and G42 are making to broaden access to the responsible, safe, and secure use of artificial intelligence," said Brad Smith, Vice Chair and President of Microsoft. "We are committed to additional steps with G42 that advance responsible AI use for customers and that strengthen the relationship not only between our two companies, but between our two countries."

Peng Xiao, Group CEO of G42, said, "By advancing Responsible AI together with Microsoft, we are creating a framework for AI to serve all of humanity. These new centers reflect our shared vision for leveraging technology to solve real-world challenges, positioning Abu Dhabi as a global hub for AI innovation that prioritizes safety, trust and collaboration, especially across the global south."

Since Microsoft and G42 launched their partnership in April, the two companies have been executing under the commitments of the Intergovernmental Assurance Agreement, with support and oversight by both the U.S. and UAE governments.

As a matter of corporate policy instituted earlier this year, G42 and its affiliates do not conduct business with any entity listed on the U.S. Government Consolidated Screening List. The Microsoft and G42 compliance committee meets quarterly, and the two teams maintain a weekly cadence for progress reviews. G42's compliance program is designed to be "best in class," ensuring the highest standards of business practices and security principles.

This partnership presents a strategic opportunity to bring world-class technology to underserved regions such as the global south. G42's efforts in creating a regulated and monitored environment for deploying U.S.-developed advanced technology systems are essential for meeting international AI demands. Our collaboration aims to bridge the digital divide, address pressing social challenges, and promote democratic norms in cyberspace. We have already announced a \$1 billion investment in Kenya leveraging geothermal energy, and are actively exploring other strategic markets.

In addition, the migration of G42's legacy public cloud infrastructure to Microsoft Azure began in November 2023 and is continuing as planned. This migration is critical for ensuring secure and efficient operations.

Microsoft and G42 believe in the transformative power of AI and cloud technologies, and our partnership is built on a foundation of trust, security, shared values, and a commitment to the highest standards of regulatory compliance. Microsoft and G42 are dedicated to ensuring that our collaboration contributes positively to global technological advancement.

* * *

About Microsoft

Microsoft (Nasdaq "MSFT" @microsoft) creates platforms and tools powered by AI to deliver innovative solutions that meet the evolving needs of our customers. The technology company is committed to making AI available broadly and doing so responsibly, with a mission to empower every person and every organization on the planet to achieve more.

About G42

Microsoft: Another Important Step in Advancing Responsible AI to Serve The World

G42 is a technology holding group, a global leader in creating visionary **artificial intelligence** for a better tomorrow. Born in Abu Dhabi and operating worldwide, G42 champions **AI** as a powerful force for good across industries. From molecular biology to space exploration and everything in between, G42 realizes exponential possibilities, today.

To know more visit www.g42.ai

* * *

For more information, press only:

Microsoft Media Relations, WE Communications for Microsoft, (425) 638-7777, rapidresponse@we-worldwide.com

Media and PR Team, G42, media@g42.ai

* * *

Note to editors: For more information, news and perspectives from Microsoft, please visit Microsoft Source at <https://news.microsoft.com/source>. Web links, telephone numbers and titles were correct at time of publication but may have changed. For additional assistance, journalists and analysts may contact Microsoft's Rapid Response Team or other appropriate contacts listed at <https://news.microsoft.com/microsoft-public-relations-contacts>.

* * *

Original text here: <https://news.microsoft.com/2024/09/17/another-important-step-in-advancing-responsible-ai-to-serve-the-world/>

[Category: BizComputer Technology]

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Classification

Language: ENGLISH

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Subject: **ARTIFICIAL INTELLIGENCE** ETHICS (92%); BEST PRACTICES (90%); **ARTIFICIAL INTELLIGENCE** (89%); SAFETY (89%); ASSOCIATIONS & ORGANIZATIONS (88%); SOCIETY, SOCIAL ASSISTANCE & LIFESTYLE (87%); SAFETY, ACCIDENTS & DISASTERS (84%); RESEARCH & DEVELOPMENT (79%); FORTUNE 500 COMPANIES (78%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (77%); GENERATIVE **AI** (77%); TECHNOLOGY (77%); NONPROFIT ORGANIZATIONS (73%); PRESS RELEASES (73%); LARGE LANGUAGE MODELS (72%); NEGATIVE SOCIETAL NEWS (72%); GEOSPATIAL DATA (69%); STANDARDS & MEASUREMENTS (68%); **DISASTER** PLANNING (60%)

Company: MICROSOFT CORP (94%)

Ticker: MSFT (NASDAQ) (94%)

Microsoft: Another Important Step in Advancing Responsible AI to Serve The World

Industry: SIC7372 PREPACKAGED SOFTWARE (94%); **ARTIFICIAL INTELLIGENCE** ETHICS (92%); **ARTIFICIAL INTELLIGENCE** (89%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (77%); GENERATIVE **AI** (77%); LARGE LANGUAGE MODELS (72%); TEST LABORATORIES (72%); GEOSPATIAL DATA (69%)

Geographic: ABU DHABI, UNITED ARAB EMIRATES (95%); NAIROBI, KENYA (71%); WASHINGTON, USA (79%); UNITED ARAB EMIRATES (93%); MIDDLE EAST (91%); KENYA (53%)

Load-Date: September 18, 2024

End of Document

Three Mile Island is reopening and selling its power to Microsoft

Three Mile Island is reopening and selling its power to Microsoft

CNN Wire

September 20, 2024 Friday 12:54 PM GMT

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Length: 648 words

Byline: By Jordan Valinsky, CNN

Dateline: (CNN)

Body

New York (CNN) — Three Mile Island, the site of [worst nuclear disaster in the United States](#), is reopening and will exclusively sell the power to Microsoft as the company searches for energy sources to fuel its **AI** ambitions.

Constellation Energy announced Friday that its Unit 1 reactor, which closed five years ago, is expected to be revived in 2028, dependent on Nuclear Regulatory Commission approval. Microsoft will purchase the carbon-free energy produced from it to power its data centers to support **artificial intelligence**.

Financial terms of the 20-year agreement, which Constellation called its largest ever, weren't disclosed.

"Powering industries critical to our nation's global economic and technological competitiveness, including data centers, requires an abundance of energy that is carbon-free and reliable every hour of every day, and nuclear plants are the only energy sources that can consistently deliver on that promise," said Constellation CEO Joe Dominguez in a press release.

Clean energy advocates and businesses alike are looking towards nuclear energy as a source of zero-carbon power that is a reliable baseload source. A big pro is that nuclear is able to stay on at all times of the day and night, unlike wind and solar.

However, nuclear has drawn criticism for environmental groups for decades for its waste. The US still has no permanent repository for that waste, instead storing it at over 70 operating and shuttered plants around the nation.

Reopening of the Unit 1 reactor will add 3,400 direct and indirect jobs and add more than 800 megawatts of electricity to the grid, according to Constellation. It's also expected to add \$16 billion to Pennsylvania's GDP, where the plant is located.

Shares of Constellation ([CEG](#)) soared more than 16% in midday trading.

Three Mile Island, located near Harrisburg, is best known for being the most serious accident at a commercial nuclear power plant in US history when it experienced the [partial meltdown](#) of one of its two reactors. Unit 2 reactor, which is adjacent to Unit 1, has remained closed since 1979 following the **disaster**.

The deal is enabled by President Joe Biden's climate bill, which contains billions in tax credits to incentivize clean energy from nuclear in addition to wind, solar and clean hydrogen. The Biden administration and Congress have also poured billions into funding to stop old plants slated for closure from shutting down.

Three Mile Island is reopening and selling its power to Microsoft

In the US "there's not a lot of historical precedent on regulatory approval" to restart a shuttered plant, said Alan Ahn, deputy director for nuclear at think tank Third Way's climate and energy program.

Regulators and companies are working to re-power the Palisades nuclear plant in Michigan, which was destined for closure until the federal government stepped in with over \$1 billion to save it. Three Mile Island has been mothballed for several years longer, Ahn added.

But as tech giants search for more sources of power to fuel their **AI** needs, Ahn said companies are increasingly taking a hard look at nuclear energy, which is carbon-free and helps them maintain their lofty climate goals.

"When you're talking about expanded power needs from **artificial intelligence**, data centers needing to run basically at full capacity for 24 hours a day. There's not a lot of alternatives outside of nuclear," Ahn said. "It's becoming a fairly clear that the tech companies are really intently looking at nuclear."

"This agreement is a major milestone in Microsoft's efforts to help decarbonize the grid in support of our commitment to become carbon negative," Bobby Hollis, vice president of energy for Microsoft, said in the release.

- CNN's Ella Nilsen contributed to this report

Adds expert commentary and updates stock jump.

By Jordan Valinsky, CNN

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Company: MICROSOFT CORP (90%)

Ticker: MSFT (NASDAQ) (90%)

Industry: SIC7372 PREPACKAGED SOFTWARE (90%); CARBON NEUTRAL ENERGY (90%); ENERGY & UTILITIES (90%); NUCLEAR ENERGY (90%); NUCLEAR POWER PLANTS (90%); TELEVISION INDUSTRY (90%); ALTERNATIVE & RENEWABLE ENERGY (89%); ELECTRIC POWER PLANTS (89%); ENERGY & ENVIRONMENT (89%); NUCLEAR ACCIDENTS (89%); SOLAR ENERGY (89%); WIND ENERGY (89%); DATA

Three Mile Island is reopening and selling its power to Microsoft

CENTERS (78%); ENERGY & UTILITY LAW (78%); ENERGY DEPARTMENTS (78%); UTILITIES INDUSTRY (78%); ENERGY NETWORKS (77%); CABLE TELEVISION (74%); **ARTIFICIAL INTELLIGENCE** (72%)

Person: JOE BIDEN (89%)

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UNITED IN SCIENCE: REBOOT CLIMATE ACTION

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Body

The following information was released by the World Meteorological Organization (WMO):

The science is clear. We are far off track from achieving vital climate goals. The impacts of climate change and hazardous weather are reversing development gains and threatening the well-being of people and the planet, according to a new multi-agency report coordinated by the World Meteorological Organization (WMO).

Key messages

Multi-agency report highlights challenges and opportunities

Summit of the Future decisions: a choice between breakthrough or breakdown

Increasing climate change impacts reverse development gains

Gap between aspiration and reality widens

New technologies and innovation are potential game-changers

Natural and social sciences are part of wider transdisciplinary approach

Greenhouse gas concentrations are at record levels, fuelling temperature increase into the future. The emissions gap between aspiration and reality remains high. Under current policies, there is a two thirds likelihood of global warming of 3 C this century, says the United in Science report.

United in Science offers much-needed grounds for hope. It explores how advances in natural and social sciences, new technologies and innovation enhance our understanding of the Earth system and could be game changers for climate change adaptation, **disaster** risk reduction and sustainable development.

"We need urgent and ambitious action now to support sustainable development, climate action and **disaster** risk reduction. The decisions we make today could be the difference between a future breakdown or a breakthrough to a better world," said WMO Secretary-General Celeste Saulo.

Artificial Intelligence and machine learning have emerged as potentially transformative technologies that are revolutionizing weather forecasting and can make it faster, cheaper and more accessible. Cutting-edge satellite

UNITED IN SCIENCE: REBOOT CLIMATE ACTION

technologies and virtual realities that bridge the physical and digital worlds are opening new frontiers in, for instance, land and water management," said Celeste Saulo.

"However, science and technology alone are not enough to address global challenges such as climate change and sustainable development alone. In an increasingly complex world, we must embrace diverse knowledge, experiences and perspectives to co-create solutions together," she said.

The United Nations Summit of the Future provides a once-in-a-generation opportunity to revitalize and reboot our collective commitment to the global goals, says the report, which was compiled by a consortium of United Nations agencies, meteorological organizations and scientific and research bodies. It also embraces input from young people and early career scientists who are agents of change for the future.

State of climate science: the need for urgent and ambitious climate action

Human-caused climate change has resulted in widespread and rapid changes in the atmosphere, ocean, cryosphere and biosphere. The year 2023 was the warmest on record by a large margin, with widespread extreme weather. This trend continued in the first half of 2024.

Global greenhouse gas (GHG) emissions rose by 1.2% from 2021 to 2022, reaching 57.4 billion tons of carbon dioxide (CO₂) equivalent. Globally averaged surface concentrations of CO₂, methane (CH₄) and nitrous oxide (N₂O) also reached new highs.

When the Paris Agreement was adopted, greenhouse gas emissions were projected to increase by 16% by 2030 relative to 2015. Now, that projected increase is 3%, indicating progress has been made. Yet the emissions gap for 2030 remains high. To limit global warming to below 2 C and 1.5 C (above the pre-industrial era), global GHG emissions in 2030 must be reduced by 28% and 42%, respectively, from the levels projected from current policies.

With existing policies and Nationally Determined Contributions (which present national efforts to limit global warming to well below 2 C), it is estimated that global warming will be kept to a maximum of 3 C throughout the century. Only in the most optimistic scenario where all conditional NDCs and net-zero pledges are fully achieved, global warming projected to be limited to 2 C, with just a 14% chance of limiting global warming to 1.5 C.

There is an 80% chance that the global mean near-surface temperature in at least one of the next five calendar years will exceed 1.5 C above pre-industrial levels, and a 47% chance that the 2024-2028 five-year mean will exceed this threshold. The Paris Agreement threshold of 1.5 C refers to long-term warming averaged over 20 years.

Urgent mitigation action is needed, as is climate adaptation.

However, one out of six countries still lack a national adaptation planning instrument, and a significant finance gap remains, with the flow of international public adaptation finance declining since 2020.

Artificial intelligence and Machine Learning: revolutionizing weather forecasting

Thanks to rapid progress, **Artificial Intelligence (AI)** and Machine Learning (ML) can make skillful weather modelling faster, cheaper and more accessible to lower-income countries with limited computational capacities.

Traditionally, weather forecasting relies on physics-based models through a process known as numerical weather prediction. **AI/ML** models are trained on reanalysis and observational datasets, making weather forecasting faster and cheaper. Some evaluations have shown the potential of **AI/ML** for forecasting hazardous events such as tropical cyclones and longer-term predictions of El Nio and La Nia.

There are tremendous opportunities but also many challenges, particularly limited data quality and availability. Current **AI/ML** models do not include harder-to-predict variables related to the ocean, land, cryosphere and carbon cycle.

UNITED IN SCIENCE: REBOOT CLIMATE ACTION

Strong global governance is needed to ensure AI/ML serves the global good. Enhanced transparency will be important for building trust and developing standards for responsible use.

Space-based Earth observations

Incredible advancements in recent decades in space-based Earth observations offer vast opportunities for the future.

High-resolution and high-frequency observations of the Earth system are crucial for effective weather forecasting, climate prediction and environmental monitoring.

By leveraging publicprivate partnerships, innovations in space-based Earth observations can be used to enhance weather, climate, water and related environmental applications.

However, big challenges limit the realization of the full potential of space-based Earth observations in support of global goals. Gaps remain in accurately measuring critical ocean, climate, aerosol and hydrological variables and in covering sparsely observed areas such as the cryosphere.

Additionally, data accessibility and standardization are a problem, particularly for developing countries.

International collaboration, comprehensive governance frameworks for integrated observing systems and innovative financing models are needed to support space-based Earth observation for weather, climate, water and related environmental applications.

Bridging virtual and physical realms: leveraging immersive technologies for water and land management

Socioeconomic impacts and climate change are straining water and land resources, threatening food and water security. Immersive technologies such as digital twins, virtual reality and the metaverse can revolutionize integrated land and water management by offering interactive and data-driven solutions that bridge the physical and digital worlds. From simulating flood and drought events to predicting water flow and accumulation, as well as land degradation, they enhance decision-making and the engagement of diverse actors.

Digital twins are defined as a virtual representation designed to accurately reflect a physical object or system. The metaverse is an integrative ecosystem of virtual worlds that provides immersive experiences.

Challenges include limitations in data availability and quality. There is insufficient access to sustainable funding mechanisms, effective governance frameworks, and lack of public trust and understanding.

International cooperation, knowledge sharing and robust multilateral frameworks are crucial for adopting these innovative solutions.

Towards pathways to sustainable futures: the role of transdisciplinary approaches

Global challenges such as climate change, disaster risk reduction and sustainable development cannot be addressed by one form of knowledge alone they require a transdisciplinary approach that unites actors across environmental, social and cultural contexts to co-create and implement solutions.

Conventional approaches often focus on understanding the dimensions of natural and social sciences, policy and society separately.

A transdisciplinary approach brings together diverse actors, such as scientists, policymakers, practitioners and civil society, including local and Indigenous communities, to co-create knowledge and develop solutions that are relevant to local contexts. It differs from a multidisciplinary approach, where experts from different disciplines work on the same issue separately.

For instance, engaging scientists, policymakers, practitioners and local and Indigenous communities from the outset enriches understanding of climate change impacts on the ground and offers a more complete perspective.

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It also strengthens trust in institutions such as National Meteorological and Hydrological Services (NMHSs).

A future where everyone is protected by life-saving early warning systems

Multi-hazard early warning systems (MHEWS) are critical for protecting lives, livelihoods and the environment. Evidence shows that **disaster**-related mortality in countries with limited to moderate MHEWS coverage is nearly six times higher than those with substantial to comprehensive coverage.

Progress has been made and more than half of the world's countries now report having MHEWS. But significant gaps remain.

The Early Warnings for All (EW4All) initiative aims to ensure everyone on Earth is protected from hazardous weather, water, and climate events through life-saving early warning systems by the end of 2027. The initiative underscored the importance of embracing natural and social sciences, technological advances and transdisciplinary approaches.

To scale up action on EW4All across stakeholders, innovation in science, technology and tools such as **artificial intelligence (AI)**, multi-channel and digital communication platforms and citizen science will be pivotal. By harnessing these advancements and ensuring they are backed by adequate resources, we can make game-changing advancements to ensure that Early Warnings for All becomes a reality for communities all over the world.

Notes to Editors

United in Science is issued annually. It is a multi-organization compilation of the latest weather, climate, water and related environmental and social sciences for the future. Contributing partners to the 2024 edition include: WMO, Met Office UK, the Official Children and Youth Constituency of the United Nations Framework Convention on Climate Change (YOUNGO), WMO Global Atmosphere Watch (GAW), WMO World Weather Research Programme (WWRP), World Climate Research Programme (WCRP), Global Carbon Project (GCP), United Nations Environment Programme (UNEP), European Centre for Medium-Range Weather Forecasts (ECMWF), United Nations Office for Outer Space Affairs (UNOOSA), European Organisation for the Exploitation of Meteorological Satellites (EUMETSAT), International Telecommunication Union (ITU), United Nations Convention to Combat Desertification (UNCCD), International Science Council (ISC), United Nations Office for **Disaster** Risk Reduction (UNDRR), International Federation of Red Cross and Red Crescent Societies (IFRC) and Future Earth.

The UN Summit of the Future takes place from 20 to 23 September 2024.

The World Meteorological Organization (WMO) is a specialized agency of the United Nations responsible for promoting international cooperation in atmospheric science and meteorology.

WMO monitors weather, climate, and water resources and provides support to its Members in forecasting and **disaster** mitigation. The organization is committed to advancing scientific knowledge and improving public safety and well-being through its work.

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UNITED IN SCIENCE: REBOOT CLIMATE ACTION

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Industry: EMISSIONS (89%); SUSTAINABLE DEVELOPMENT (89%); GLOBAL WARMING (77%); SPACE TECHNOLOGY (77%); **ARTIFICIAL INTELLIGENCE** (64%); MACHINE LEARNING (64%); SATELLITE TECHNOLOGY (50%); VIRTUAL REALITY (50%)

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Latin America Embraces Satellite Data and Artificial Intelligence for Law Enforcement, Forest Protection, and Civil Government Initiatives

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[Planet Labs PBC](#) (NYSE: PL), a leading provider of daily data and insights about Earth, showcased major customers and partners from across Central and South America yesterday at their " [Planet On The Road "](#) conference series, hosted in Bogotá, Colombia. Speakers at the in-person event included data and **artificial intelligence** experts and government leaders from Brazil, Colombia, and Bolivia, who focused on how satellite data was being used across Latin America for sustainable development, law enforcement, **disaster** response, and Amazon forest protection.

Planet provides their customers and partners with satellite datasets and analysis feeds, helping to conduct broad area management and quantify changing conditions on the surface of the Earth. At the Bogotá event, Planet President and CFO, Ashley Johnson expanded on these capabilities, highlighting the company's newly launched Planet Insights Platform and shared, "Our daily global scan can help authorities improve situational awareness, allocate resources during complex incidents that occur over large areas, understand flood risks in burned areas, and plan long-term recovery operations."

Planet has experienced business momentum in Latin America over the last year and by working with partners in the region, valuable insights and novel workflows have emerged for governments and businesses in the region. "Our community is uniquely equipped to harness the power of space data and **AI** technologies to see the signal in the noise, to modernize and digitize our workflows, use transparency to promote peace and security and to accelerate the transition toward a sustainable economy," said Robbie Schingler, Planet Co-founder and CSO in his keynote address at the event.

Planet customers and partners took to the stage for the day to share how this satellite data provides solutions to challenges specific to the region. Representatives from [INRA](#) , Bolivia's land management agency, discussed how they worked in collaboration with Planet and Planet partner CIVIS to modernize their approach to land management. Aiming to balance sustainability, food sovereignty, and national development, INRA leveraged the Planet Insights Platform to gain near real-time insights and streamline management for monitoring for carbon emissions compliance and land use and titling, establishing ambitious sustainable targets across the nation.

In a keynote, alongside INRA, Planet customer Instituto Geográfico Agustín Codazzi (IGAC), a Colombian government entity responsible for managing cartographic data, shared how they provide access to users PlanetScope and Planet Basemaps covering the entire Colombian territory. Through their platform, Observatorio de la Tierra y el Territorio (OTT), organizations are able to conduct efficient land-use planning and territorial management. With data analysis and **AI**, the platform aims to offer capabilities for monitoring infrastructure change and detect anthropogenic changes to the environment.

Latin America Embraces Satellite Data and Artificial Intelligence for Law Enforcement, Forest Protection, and Civil Government Initiatives

In a fireside chat hosted by Robbie Schingler, Planet's co-founder and Chief Strategy Officer, and Guillermo Ocampo, Microsoft's National Digital Transformation Officer, the industry leaders discussed how **artificial intelligence** and satellite imagery have been transforming biodiversity protection in South America, helping to inform scientists and raise public awareness. [Microsoft's Project Guacamaya](#), for instance, runs **AI**-enabled analyses on top of Planet satellite imagery of biodiverse regions to swiftly detect ecosystem changes, potentially caused by deforestation or mining.

Planet partner [Procalculo](#) spoke about their collaborative work with organizations across Colombia to provide geospatial insights derived from Planet satellite data in areas, such as risk management and **disaster** response. At the event, Procalculo shared how they used deep learning models on top of Planet data to evaluate yearly drought impacts and risks, wildfire threat zones, and mapping roads for **disaster** management. They also spoke with the Head of Space Production Area for the Airforce of Colombia about how Planet data offers the capabilities of broad area management for the Amazon, enabling authorities to combat illegal deforestation.

Representatives across the [Brazil MAIS program](#) shared how Planet data has enabled the success and expansion of the program, working to protect the Brazilian Amazon in collaboration with the Federal Police of Brazil, the Ministry of Justice and Public Security of Brazil, and Planet partner [SCCON Geospatial](#). Leveraging Planet satellite data, SCCON supports a change detection alert system on their platform, making near real-time information regarding illicit activities, such as deforestation and illegal mining accessible to Brazilian government agencies. The Federal Police of Brazil have been able to implement justice across the country, protecting the Amazon rainforest and enhancing their law enforcement operations. With Planet satellite data and SCCON's automated change detection, the project collected over \$3 billion from fines, seized goods, and the freezing of assets since 2020.

The Planet On the Road Bogotá event also hosted a myriad of leaders leveraging Planet satellite data across the Latin American agricultural industry and **disaster** response. In the digital farming arena, customers and partners speaking included Disargo, a leading supplier of fertilizers originating from Guatemala, Auravant, an Argentina-based digital agricultural monitoring system, and Oryzatvia, which [integrates](#) Planet data into their digital platform to support rice farming in Uruguay. Focusing on how **AI** and machine learning can transform proactive **disaster** response, Planet customers and partners EPM and Procaculo from Colombia, and Chile-based Raster4 shared how satellite data and emerging technologies are supporting all stages of **disaster** life cycle management, including prevention, response, and recovery.

Comprehensive List of Guest Speakers:

- Guillermo Ocampo, National Digital Transformation Officer, Microsoft
- Alfredo Aramayo, President, CIVIS
- Felipe Trujillo, General Manager, Procalculo Prosis S.A.S.
- Gustavo Marulanda Morales, General Director, IGAC
- Juan De Dios Fernández, General Director of Planning, INRA
- Camila Pintarelli, Director - Chief of National Fund for Public Security of the Ministry of Justice and Public Security of Brazil
- Cristiano Cunha, Chief of the Geomatics Service of the Federal Police & Coordinator of the Steering Committee of the Brazil MAIS Program of the Ministry of Justice and Public Security
- Iara Musse Felix, CEO, SCCON Geospatial
- Bernardo Böcking, Co-Founder, Oryzatvia
- Billy Pineda, Corporate Manager for Innovation and Development, DISAGRO
- Fernando Calo, Chief Business Development Officer, Auravant

Latin America Embraces Satellite Data and Artificial Intelligence for Law Enforcement, Forest Protection, and Civil Government Initiatives

- Cristiano Cunha, Chief of the Geomatics Service of the Federal Police & Coordinator of the Steering Committee of the Brazil MAIS Program of the Ministry of Justice and Public Security
- Camila Pintarelli, Director - Chief of National Fund for Public Security of the Ministry of Justice and Public Security of Brazil
- Captain Laura Fernanda Guerra Ibáñez, Head of Space Production Area, Airforce of Colombia (FAC)
- Martha Patricia Valbuena Gaona, Research and Development Manager, Procalculo Prosis S.A.S.
- Juan Camilo Amaya, Geospatial Technology Manager, Procalculo Prosis S.A.S.
- William Ramírez, Environmental, Social, and Sustainability Professional, EPM
- Valentina Espinosa Caviedes, General Manager, Raster4

Planet Speakers:

- Robbie Schingler, Co-Founder and Chief Strategy Officer, Planet
- Ashley Johnson, President and Chief Financial Officer, Planet
- Thijs Van Leeuwen, Sr. Director of Product, Planet
- Dr. Flávia De Souza Mendes, Program Manager, Forests & Land Use, Planet
- Gustavo Tonzo, Sr. Industry Account Executive, Planet
- Ricardo Guerra, Regional Sales Director of LATAM, Planet
- Steve Padgett Vasquez, Customer Success Manager, Planet
- Ana Bragança, Customer Success Manager, Planet
- Nataly Pulido, Customer Success Manager, Planet
- Sergio Ramirez, Sales Engineer, Planet

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Company: MICROSOFT CORP (50%); CA-PLANET

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INDIA TO HOST WORLD CONFERENCE ON PRIORITIES FOR TECHNOLOGY STANDARDS

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The following information was released by the International Telecommunication Union:

ITU's first standardization governing conference in Asia will set the course for innovation and cooperation

Key Events

Geneva, 10 September 2024

ITU-GS-MR-MainContent

Policy-makers and industry leaders will consider priorities for international standards to support industry growth, innovation, and trust in new technologies at ITU's World Telecommunication Standardization Assembly (WTSA), taking place from 15 to 24 October at New Delhi's Pragati Maidan conference and exhibition centre.

Standards from the International Telecommunication Union (ITU) support cost-effective, interoperable advancements in technology at a global scale. By capturing and creating a basis for continuous innovation, standards provide the foundation for new industries to grow and established industries to evolve.

Organized every four years, WTSA is the governing conference for the standardization work of ITU, the United Nations Agency for Digital Technologies.

"Standards are taking centre stage in global governance discussions," said Doreen Bogdan-Martin, ITU Secretary-General. "When countries gather in New Delhi for WTSA-24, they will have an opportunity to foster digital inclusion and trust values that are more important than ever to ensure that innovation in fields like **artificial intelligence**, the metaverse, and quantum information technologies helps us create the future we want."

ITU's standardization work is driven by the contributions and consensus decisions of ITU's membership, including 193 Member States and over 1000 member companies, universities, and international and regional organizations.

WTSA directs the agency's activities on standards and reviews the strategy, structure, and working methods of ITU's standardization arm (ITU-T). The conference also approves the mandates and appoints the leadership teams of ITU-T expert groups for international standardization.

INDIA TO HOST WORLD CONFERENCE ON PRIORITIES FOR TECHNOLOGY STANDARDS

"Standards agreed by consensus create the confidence to continue innovating and investing," said Seizo Onoe, Director of ITU's Telecommunication Standardization Bureau. "With every breakthrough in science and technology comes wider transformation, and we must keep coming together to develop the standards required for people and economies to thrive while pushing new frontiers. That's what our standardization processes are built for."

WTSA-24 will be the first meeting of ITU's governing conference on standards to take place in Asia. In parallel, the exhibition centre will host a digital innovation festival showcasing the latest tech developments from India and the world.

"Our philosophy of Atithi Devo Bhava (Guest is akin to God) drives us to welcome the world's telecom leaders to our national capital, New Delhi, for WTSA-24," said Neeraj Mittal, Secretary of the Department of Telecommunications, Ministry of Communications, Government of India. "We are confident this assembly will set new benchmarks in standardization to drive sustainable growth in information and communication technologies."

The proceedings will begin on World Standards Day, 14 October, with the ITU Global Standards Symposium (GSS) exploring innovations in areas from **artificial intelligence (AI)** and the metaverse to secure digital finance and smart cities.

GSS-24, also taking place at New Delhi's Pragati Maidan, will include a high-level segment welcoming ministers and industry executives to discuss digital transformation ambitions and associated standardization demands.

The symposium will submit recommended actions for ITU's membership at WTSA-24.

GSS will also feature the inaugural session of ITU's new International **AI** Standards Summit, aimed at ensuring comprehensive standards for the fast-evolving **AI** landscape and intended to become a staple of ITU's annual **AI** for Good Global Summit series.

"I look forward to collaborative, constructive and collective efforts as the world's information and communication technology leaders come together in New Delhi for WTSA-24," said Ritu Ranjan Mittar, Chair Designate for WTSA-24.

What else is happening during WTSA-24?

The Network of Women in ITU standardization will hold special sessions during WTSA-24 on women's leadership in the digital tech industry and supporting technical standardization processes.

Tech innovation in India will be on show at **AI** for Good Impact India, the first regional event under the umbrella of ITU's new **AI** for Good Impact Initiative, which aims to expand the scope and impact of **AI** applications for sustainable development.

A Robotics for Good Youth Challenge, held as part of **AI** for Good Impact India, will welcome teams of young Indian innovators to compete for prizes and global recognition for robotics solutions supporting **disaster** response.

Industry solutions and academic research on display

Alongside ITU's global conference, the WTSA Expo will demonstrate the latest industry solutions built to ITU standards. Companies from developing countries, particularly small and medium-sized enterprises (SMEs), can participate with support from the ITU Bridging the Standardization Gap programme with funding from Japan.

Access to the WTSA Expo will grant access to the co-located Indian Mobile Congress.

India will also organize a hackathon for students and startups in the run-up to WTSA and conferences on regulation and broadcasting alongside WTSA. For more information on these events and planning your trip to New Delhi, see the host country's WTSA website.

INDIA TO HOST WORLD CONFERENCE ON PRIORITIES FOR TECHNOLOGY STANDARDS

Additionally, the 15th edition of ITU's academic conference, ITU Kaleidoscope 2024: Innovation and digital transformation for a sustainable world, will focus on research supporting sustainable digital transformation. The peer-reviewed conference series highlights emerging research trends and their implications for international standardization.

UN partnerships for humanity's future

A workshop organized by ITU and the World Health Organization (WHO) will advance the collaboration of the two UN system agencies on an upcoming international standard for safe listening in video gaming and esports to complement the existing ITU-WHO standard on the safe listening of music players.

A workshop organized by ITU, the UN Office for **Disaster** Risk Reduction and the UN Convention to Combat Desertification will support global efforts and associated standardization work to ensure that new technologies boost resilience to natural hazards and **disaster** risks.

WTSA will conclude on United Nations Day with ITU and fellow UN agencies celebrating partnerships to ensure that digital technologies help drive meaningful progress in sustainable development from climate action and **disaster** resilience to financial inclusion, healthcare, road safety, and food security.

###

About ITU

The International Telecommunication Union (ITU) is the United Nations specialized agency for information and communication technologies, driving innovation together with 193 Member States and a membership of over 1,000 companies, universities, and international and regional organizations. Established in 1865, it is the intergovernmental body responsible for coordinating the shared global use of the radio spectrum, promoting international cooperation in assigning satellite orbits, improving communication infrastructure in the developing world, and establishing the worldwide standards that foster seamless interconnection of a vast range of communications systems. From broadband networks to cutting-edge wireless technologies, aeronautical and maritime navigation, radio astronomy, oceanographic and satellite-based earth monitoring as well as converging fixed-mobile phone, Internet and broadcasting technologies, ITU is committed to connecting the world.

Classification

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Publication-Type: Newswire

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Organization: INTERNATIONAL TELECOMMUNICATION UNION (91%)

INDIA TO HOST WORLD CONFERENCE ON PRIORITIES FOR TECHNOLOGY STANDARDS

Industry: COMMUNICATIONS REGULATION & POLICY (92%); TELECOMMUNICATIONS (90%); TELECOMMUNICATIONS DEPARTMENTS (89%); COMPUTING & INFORMATION TECHNOLOGY (77%); SUSTAINABLE DEVELOPMENT (77%); METAVERSE (73%); **ARTIFICIAL INTELLIGENCE** (51%)

Geographic: NEW DELHI, INDIA (93%); INDIA (94%); ASIA (92%)

Load-Date: September 11, 2024

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DISASTER READINESS, QUALITY, BEHAVIORAL HEALTH LEAD FALL EDUCATIONAL OPPORTUNITIES

States News Service

August 1, 2024 Thursday

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Length: 396 words

Byline: States News Service

Dateline: SACRAMENTO, CA

Body

The following information was released by the California Hospital Association (CHA):

Heading into the second half of 2024, there are several exciting educational opportunities from CHA that you and your teams depending on their area of responsibility and interest would benefit from attending.

Disaster Planning On Sept. 10 and Sept. 11, CHA will host its annual **disaster** planning conference in Pasadena. This year's agenda highlights health care case studies from various disasters, including lessons learned on vulnerability assessments and business continuity planning from those who have lived through the worst of it all. Breakout sessions enable attendees to drill down on specific topics, such as cybersecurity, after-action reporting, surge planning, and more.

Volunteers On Sept. 16 and Sept. 17, the California Hospital Volunteer Leadership Conference, in its 61st year, will be held in San Diego. With so many hospitals relying on volunteers for ancillary services, patient support, and more, gatherings like these are key to reinvigorate volunteer programs and learn from peers about strategies to retain and recruit the next generation of these essential members of hospital teams.

Quality and Safety On Oct. 20 and Oct. 21, the Hospital Quality Institute's annual conference in Lake Tahoe will focus on how new technology is driving change in the patient safety movement. **Artificial intelligence (AI)** could help health care workers diagnose conditions earlier, bridge language barriers, revolutionize telehealth and discharge experiences, and more. It also raises equity and ethics questions. Keynote speakers include Gurpreet Dhaliwal, MD, UCSF clinician/national expert on **AI** in health care; Diana Nyad, international long-distance swimming champion/hall of famer; and Stephen Shedletzky, Author of Speak-Up Culture: When Leaders Truly Listen, People Step Up.

Behavioral Health On Dec. 4 and Dec. 5, CHA's annual behavioral health care symposium will be held in Long Beach with significant attention on behavioral health care and California's youth population. The agenda is still being developed, but registration is open now.

Along with the amazing content being offered at each of these opportunities, there is really no way to quantify the value of being among peers and having the chance to share, learn, and laugh with each other. Hope we will see many of you soon.

Classification

Language: ENGLISH

Publication-Type: Newswire

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Industry: HOSPITALS (92%); HEALTH CARE (89%); HEALTH CARE PROFESSIONALS (78%); PSYCHOLOGICAL SAFETY (78%); INFORMATION SECURITY & PRIVACY (73%); TELEHEALTH (73%); TELEMEDICINE (73%); **ARTIFICIAL INTELLIGENCE** (70%); CYBERSECURITY (69%)

Geographic: SACRAMENTO, CA, USA (79%); SAN DIEGO, CA, USA (79%); CALIFORNIA, USA (94%)

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Department of Homeland Security Unveils Artificial Intelligence Roadmap, Announces Pilot Projects to Maximize Benefits of Technology, Advance Homeland Security

Department of Homeland Security Unveils Artificial Intelligence Roadmap, Announces Pilot Projects to Maximize Benefits of Technology, Advance Homeland Security Mission

Targeted News Service

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Dateline: WASHINGTON

Body

The U.S. Department of Homeland Security issued the following news release:

DHS Will Launch Three Pilot Projects to Test **AI** Technology to Enhance Immigration Officer Training, Help Communities Build Resilience and Reduce Burden for Applying for **Disaster** Relief Grants, and Improve Efficiency of Law Enforcement Investigations

Today, Secretary of Homeland Security Alejandro N. Mayorkas and Chief Information Officer and Chief **Artificial Intelligence** Officer Eric Hysen announced the Department of Homeland Security's (DHS) first "**Artificial Intelligence** Roadmap." The roadmap details DHS's 2024 plans, including to test uses of the technologies that deliver meaningful benefits to the American public and advance homeland security, while ensuring that individuals' privacy, civil rights, and civil liberties are protected.

As part of the roadmap, DHS announced three innovative pilot projects that will deploy **AI** in specific mission areas. Homeland Security Investigations (HSI) will test **AI** to enhance investigative processes focused on detecting fentanyl and increasing efficiency of investigations related to combatting child sexual exploitation. The Federal Emergency Management Agency (FEMA) will deploy **AI** to help communities plan for and develop hazard mitigation plans to build resilience and minimize risks. And, United States Citizenship and Immigration Services (USCIS) will use **AI** to improve immigration officer training.

"The unprecedented speed and potential of **AI**'s development and adoption presents both enormous opportunities to advance our mission and risks we must mitigate," said Secretary of Homeland Security Alejandro N. Mayorkas. "The DHS **AI** roadmap and pilots will guide our efforts this year to strengthen our national security, improve our operations, and provide more efficient services to the American people, while upholding our commitment to protect civil rights, civil liberties, and privacy. What we learn from the pilot projects will be beneficial in shaping how the Department can effectively and responsibly use **AI** across the homeland security enterprise moving forward."

Department of Homeland Security Unveils Artificial Intelligence Roadmap, Announces Pilot Projects to Maximize Benefits of Technology, Advance Homeland Security

The roadmap lays out DHS's initiatives in AI, describes the potential of AI technologies across the Department, and offers clearer visibility into the Department's approach to AI, while underscoring the Department's commitment to responsible utilization.

The AI roadmap outlines three lines of effort DHS is using to guide its work:

Responsibly leverage AI to advance Homeland Security missions while protecting individuals' privacy, civil rights, and civil liberties - DHS is committed to ensuring that its use of AI fully respects privacy, civil liberties, and civil rights, is rigorously tested to avoid bias, disparate impact, privacy harms, and other risks, and that it is understandable to the people we serve.

Promote Nationwide AI Safety and Security - Advances in AI will revolutionize the delivery of essential goods and services upon which Americans rely. AI can create tremendous efficiencies and benefits for citizens, but it can also present new and novel risks. To protect U.S. cyber networks and critical infrastructure, DHS will help govern the safe and responsible development and use of AI.

Continue to lead in AI through strong cohesive partnerships - DHS will foster strong relationships with private sector, academia, State, Local, Territorial, and Tribal governments, international partners, non-government organizations, research institutions, and thought leaders to accelerate the development and deployment of AI solutions tailored to the unique challenges faced by the DHS. In line with the DHS's commitment to transparency and visibility into the Department's vision for AI and to ensuring responsible use, DHS will continue to share information and engage with communities, advocates, and partners to demonstrate responsible AI use.

DHS's three new pilot programs will allow the Department to assess the efficacy of AI in improving its mission capabilities. Each pilot team is partnering with privacy, cybersecurity, and civil rights and civil liberties experts throughout their development and evaluation process. This work will inform Department-wide policies on AI governance. DHS offices and agencies submitted dozens of proposals for consideration to the Chief AI Officer, who selected three pilots that would best support evaluating the effectiveness of Large Language Models (LLM) and Generative AI technology at DHS.

The new pilot programs announced today will:

Transform Security Investigative Processes, Unlock Data-Driven Insights, and Improve Mission Outcomes - HSI's pilot project will strengthen their investigative processes by introducing a LLM-based system designed to enhance the efficiency and accuracy of summaries investigators rely upon. The LLM-based system will leverage open-source technologies to allow investigators to more quickly summarize and search for contextually relevant information within investigative reports. The pilot could lead to increases in detection of fentanyl-related networks, aid in identification of perpetrators and victims of child exploitation crimes, and surface key patterns and trends that could further HSI's vital work.

Bolster Planning Assistance for Resilient Communities - FEMA will launch a GenAI pilot to create efficiencies for the hazard mitigation planning process for local governments, including underserved communities. Hazard mitigation plans are not only a foundational step that communities can take to build their resilience but can be lengthy to produce and challenging for communities that lack resources to do so. The pilot will specifically support State, Local, Tribal, and Territorial governments' understanding of how to craft a plan that identifies risks and mitigation strategies as well as generate draft plan elements--from publicly-available, well-researched sources -- that governments could customize to meet their needs. This pilot could lead to more communities having the ability to submit grant applications for funding to become more resilient and reduce disaster risks.

Enhance Immigration Officer Training through Generative AI - United States Citizenship and Immigration Services is developing an interactive application that uses GenAI to improve the way the agency trains immigration officer personnel. USCIS will generate dynamic, personalized training materials that adapt to officers' specific needs and ensure the best possible knowledge and training on a wide range of current policies and laws relevant to their jobs.

Department of Homeland Security Unveils Artificial Intelligence Roadmap, Announces Pilot Projects to Maximize Benefits of Technology, Advance Homeland Security

The goal is to help enhance trainees' understanding and retention of crucial information, increase the accuracy of their decisionmaking process, and limit the need for retraining over time.

The roadmap and announcement of pilot programs are the latest in the Department's ongoing **AI** initiatives.

In February, Secretary Mayorkas and CIO Hysen announced the Department's first-ever hiring sprint to recruit 50 **AI** technology experts to help build teams that will help better leverage **AI** responsibly across strategic areas of the homeland security enterprise. These include efforts to counter fentanyl, combat child sexual exploitation and abuse, deliver immigration services, secure travel, fortify our critical infrastructure, and enhance our cybersecurity. DHS has received a strong response to date and is in the process of reviewing, interviewing, and hiring **AI** technologists to support mission-enhancing initiatives. The Department continues to accept applications on dhs.gov/AI.

Last year, DHS established the Department's first **AI** Task Force and named CIO Hysen its first Chief **AI** Officer. Informed by the Task Force's work over the past 11 months, DHS has identified areas where **AI** can enhance the effectiveness of the Department's efforts -- helping pave the way for this roadmap and these new projects. The Task Force's focus is on DHS's entire mission space. For instance, it is working to enhance the integrity of our supply chains and the broader trade environment by helping deploy **AI** to improve cargo screening, the identification of imported goods produced with forced labor, and risk management. The Task Force is also charged with using **AI** to better detect fentanyl shipments, identify and interdict the flow of precursor chemicals around the world, and disrupt key nodes in criminal networks.

The Department's latest efforts follow President Biden's Executive Order (EO) "Safe, Secure, and Trustworthy Development and Use of **Artificial Intelligence**," signed in October 2023. The EO directed DHS to promote the adoption of **AI** safety standards globally, protect U.S. networks and critical infrastructure, reduce the risks that **AI** can be used to create weapons of mass destruction, combat **AI**-related intellectual property theft, and help the United States attract and retain skilled talent, among other missions. The President has directed DHS to establish an **AI** Safety and Security Advisory Board to support the responsible development of **AI**. This Board will bring together preeminent industry experts from **AI** hardware and software companies, leading research labs, critical infrastructure entities, and the U.S. government. This Board will issue recommendations and best practices for an array of **AI** use cases to ensure **AI** deployments are secure and resilient.

To read the DHS **AI** Roadmap, visit the DHS **Artificial Intelligence** Roadmap webpage.

To learn more about how DHS uses **AI** technologies to protect the homeland, visit **Artificial Intelligence** at DHS.

Original text here: <https://www.dhs.gov/news/2024/03/18/department-homeland-security-unveils-artificial-intelligence-roadmap-announces>

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Department of Homeland Security Unveils Artificial Intelligence Roadmap, Announces Pilot Projects to Maximize Benefits of Technology, Advance Homeland Security

IMMIGRATION, CITIZENSHIP & DISPLACEMENT (91%); TECHNOLOGY (91%); **ARTIFICIAL INTELLIGENCE** (90%); **DISASTER** & EMERGENCY AGENCIES (90%); GOVERNMENT DEPARTMENTS & AUTHORITIES (90%); IMMIGRATION (90%); IMMIGRATION LAW (90%); POLICE FORCES (90%); CIVIL RIGHTS (89%); SAFETY, ACCIDENTS & DISASTERS (89%); CITIZENSHIP (78%); **DISASTER** PLANNING (78%); ESSENTIAL BUSINESSES & WORKERS (78%); FEDERAL INVESTIGATIONS (78%); INTERNATIONAL RELATIONS & NATIONAL SECURITY (78%); NEGATIVE NEWS (78%); PRESS RELEASES (78%); SAFETY (78%); **DISASTER** & EMERGENCY RELIEF (77%); CRITICAL INFRASTRUCTURE (73%); EXECUTIVES (73%); INTELLIGENCE SERVICES (73%); LAW ENFORCEMENT (73%); CRIME, LAW ENFORCEMENT & CORRECTIONS (72%); CRIMINAL INVESTIGATIONS (72%); **DISASTER** RELIEF (72%); EMPLOYMENT DISCRIMINATION (72%); CHILD ABUSE & NEGLECT (67%); OPIATES & OPIOIDS (53%)

Organization: US DEPARTMENT OF HOMELAND SECURITY (99%); FEDERAL EMERGENCY MANAGEMENT AGENCY (82%); US CITIZENSHIP & IMMIGRATION SERVICES (73%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); OPIATES & OPIOIDS (53%)

Person: ALEJANDRO MAYORKAS (90%)

Geographic: UNITED STATES (98%)

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Rising Demand Drives Enterprise Data Storage Market to USD 670.82 Billion by 2032| Market Research Future Recent Study

iCrowdNewswire (English)

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Length: 1505 words

Body

Market Overview The Enterprise Data Storage Market is experiencing significant transformation driven by the exponential growth of data and the increasing need for efficient, secure, and scalable storage solutions. Organizations are adopting hybrid and multi-cloud strategies to manage vast amounts [...]

Market Overview

TheEnterprise Data Storage Marketis experiencing significant transformation driven by the exponential growth of data and the increasing need for efficient, secure, and scalable storage solutions. Organizations are adopting hybrid and multi-cloud strategies to manage vast amounts of data generated by digital operations, Internet of Things (IoT) devices, and big data analytics. Key trends include the shift towards Software-Defined Storage (SDS), which offers flexibility and cost efficiency, and the rising demand for flash storage systems that deliver faster access and lower latency. Additionally, advancements in artificial intelligence and machine learning are enhancing data management and analytics capabilities. Major players in the market are focusing on innovation and partnerships to provide integrated solutions that address evolving customer needs in data security, compliance, and disaster recovery. As enterprises continue to prioritize digital transformation, the demand for robust and adaptive data storage solutions is set to grow, creating substantial opportunities within this dynamic market.

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Key Market Segments

The enterprise data storage market is segmented into several key categories based on technology, deployment model, and application. ****By technology****, the market includes traditional hard disk drives (HDDs), solid-state drives (SSDs), and emerging solutions like NVMe and cloud storage. ****In terms of deployment model****, enterprises typically opt for on-premises storage, cloud storage, or hybrid models that combine both approaches. ****Application-wise****, the market is driven by sectors such as banking and finance, healthcare, government, and retail, each requiring tailored storage solutions for data management, backup, and disaster recovery. Furthermore, organizations are increasingly focusing on storage for big data analytics and AI workloads, necessitating scalable and high-performance solutions to support their evolving data needs.

Industry Latest News

Rising Demand Drives Enterprise Data Storage Market to USD 670.82 Billion by 2032| Market Research Future Recent Study

Recent developments in the enterprise data storage market highlight a strong focus on innovation and adaptation to evolving data needs. Major players are investing heavily in advanced storage technologies, such as NVMe over Fabrics and **AI**-driven data management solutions, to enhance performance and efficiency. Companies like Dell Technologies and Hewlett Packard Enterprise (HPE) have introduced new storage systems that support hybrid and multi-cloud environments, catering to the growing demand for flexible data solutions. Additionally, the rise of ransomware attacks has spurred increased investments in secure storage solutions, including enhanced backup systems and immutable storage options. Furthermore, the market is witnessing a trend towards sustainability, with organizations seeking energy-efficient storage solutions to reduce their environmental impact. Overall, these developments reflect a rapidly evolving landscape, driven by the need for speed, security, and scalability in enterprise data storage.

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Several leading companies are playing a pivotal role in the growth of the Enterprise Data Storage Market. These key players offer a wide range of security solutions and services to help organizations detect and respond to cyber threats in real time. Some of the top companies in the Enterprise Data Storage Market include:

- Cisco Systems
- Fujitsu
- IBM
- Lenovo
- NetApp
- Seagate Technology
- Hewlett Packard Enterprise
- Oracle
- Pure Storage
- Western Digital
- Dell Technologies
- Toshiba
- Huawei
- Hitachi Vantara

Market Drivers

The enterprise data storage market is driven by several key factors, including the exponential growth of data generated by digital transformation initiatives, the Internet of Things (IoT), and big data analytics. Organizations are increasingly adopting hybrid and multi-cloud storage solutions to manage vast amounts of information effectively and ensure accessibility across various platforms. Additionally, the demand for enhanced data security and compliance with regulations is pushing businesses to invest in robust storage solutions that offer advanced encryption and backup capabilities. The shift towards **artificial intelligence** and machine learning further amplifies the need for high-performance storage systems that can handle large datasets efficiently. Moreover, the rising focus on operational efficiency and cost reduction is driving enterprises to explore software-defined storage (SDS) and automated management solutions, reinforcing the overall growth of the enterprise data storage market.

Browse In-depth Market Research Report (100 Pages, Charts, Tables, Figures) on Adaptive Security Market
<https://www.marketresearchfuture.com/reports/enterprise-data-storage-market-26702>

Regional Insights

The regional insights **AI** training dataset market is witnessing rapid expansion as businesses seek localized data to enhance the performance of **artificial intelligence** applications. This market focuses on providing datasets that reflect specific geographical, cultural, and economic contexts, enabling more accurate and relevant **AI** models. Key regions such as North America, Europe, and Asia-Pacific are leading in terms of investment and technological advancements, driven by increasing demand for **AI** solutions across various sectors like healthcare, finance, and retail. As companies prioritize data quality and specificity, the regional insights segment is becoming crucial for developing effective **AI** strategies and solutions tailored to diverse markets.

Conclusion

In conclusion, the enterprise data storage market is poised for continued growth, driven by the increasing volume of data and the need for efficient, secure, and scalable storage solutions. As organizations navigate the complexities of digital transformation, the demand for hybrid and multi-cloud strategies, along with advanced technologies like NVMe and **AI**-driven data management, will shape the future landscape. Companies are also prioritizing data security and compliance, which will further influence their storage investments. With a strong emphasis on innovation and adaptability, the enterprise data storage market presents significant opportunities for stakeholders to develop and implement solutions that meet the dynamic needs of businesses in an increasingly data-centric world.

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Also, we are launching Wantstats the premier statistics portal for market data in comprehensive charts and stats format, providing forecasts, regional and segment analysis. Stay informed and make data-driven decisions with Wantstats.

Rising Demand Drives Enterprise Data Storage Market to USD 670.82 Billion by 2032| Market Research Future
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Tags: Drives Enterprise Data Storage Market, Drives Enterprise Data Storage Market Growth, Drives Enterprise Data Storage Market Share, Drives Enterprise Data Storage Market Size, Global Drives Enterprise Data Storage Market
See Campaign: <https://www.marketresearchfuture.com/reports/enterprise-data-storage-market-26702>

Contact Information:

Contact Us: Market Research Future (Part of Wantstats Research and Media Private Limited) 99 Hudson Street, 5Th Floor New York, NY 10013 United States of America +1 628 258 0071 (US) +44 2035 002 764 (UK) Email: sales@marketresearchfuture.com Website: <https://www.marketresearchfuture.com>

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Company: HEWLETT PACKARD ENTERPRISE CO (51%)

Ticker: HPE (NYSE) (51%)

Industry: NAICS541512 COMPUTER SYSTEMS DESIGN SERVICES (51%); NAICS334111 ELECTRONIC COMPUTER MANUFACTURING (51%); SIC7373 COMPUTER INTEGRATED SYSTEMS DESIGN (51%); SIC3571 ELECTRONIC COMPUTERS (51%); DATA STORAGE DEVICES (92%); BUSINESS ANALYTICS (90%); DATA ANALYTICS (90%); DATA STORAGE TECHNOLOGY (90%); INFORMATION MANAGEMENT & TECHNOLOGY (90%); MARKET RESEARCH (90%); MARKET RESEARCH REPORTS (90%); **ARTIFICIAL INTELLIGENCE** (89%); BIG DATA (89%); CLOUD COMPUTING (89%); DATA SCIENCE (89%); HARD DRIVES (89%); MARKET RESEARCH & ANALYSIS (79%); MARKET SEGMENTATION (79%); DATA SECURITY (78%); DIGITALIZATION & DIGITAL TRANSFORMATION (78%); INFORMATION SECURITY & PRIVACY (78%); INTERNET OF THINGS (77%); COMPUTER NETWORKS (75%); COMPUTER SOFTWARE (75%);

Rising Demand Drives Enterprise Data Storage Market to USD 670.82 Billion by 2032| Market Research Future
Recent Study

CYBERCRIME (75%); MALICIOUS SOFTWARE (75%); BANKING & FINANCE (74%); ENERGY & UTILITIES (74%); RETAIL & WHOLESALE TRADE (74%); ENERGY EFFICIENCY & CONSERVATION (73%); RANSOMWARE (73%); MACHINE LEARNING (70%); SUSTAINABLE DEVELOPMENT (65%); ENERGY & ENVIRONMENT (62%)

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End of Document

USPTO ISSUES TRADEMARK: CARE.AI SMART

US Fed News

August 29, 2024 Thursday 6:24 PM EST

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Body

ALEXANDRIA, Va., Aug. 27 -- The trademark CARE.**AI** SMART (Serial No. 98269691) was published on Aug. 27, 2024, by USPTO in the Principal Register.

Owner(s): Vuaant, Inc. d/b/a Care.**AI**; 7300 Sandlake Commons Blvd., Suite 327 Orlando, FLORIDA 32819 Mark Information: Standard Character Claim - Yes. The mark consists of standard characters without claim to any particular font style, size, or color. Mark Drawing Type - 4 - STANDARD CHARACTER MARK Goods and Services: US Class(es):21, 23, 26, 36, 38 Downloadable and recorded computer software for controlling and managing patient medical information; downloadable and recorded computer software for collection and management of data in the field of mobile computing and operating platforms comprised of electronic data transceivers, wireless networks and gateways; Downloadable computer software featuring **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable and recorded Software as a Medical Device (SaMD) for use as a medical instrument for monitoring, receiving, processing, transmitting, and displaying data; Downloadable and recorded software for collaboration between healthcare providers and patients, namely, software for controlling and managing patient medical information; Downloadable computer software for enabling users to enter, access, track, monitor and generate health and medical information and reports; Software as a Medical Device (SaMD), downloadable, for controlling and managing patient medical information; Downloadable computer software for accessing, reading, and tracking information in the field of healthcare; Downloadable computer software using **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable software in the nature of a mobile application for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable software in the nature of a mobile application for controlling and managing patient medical information; Downloadable mobile applications for retrieving and displaying health information; Downloadable mobile applications for verifying and displaying identity and health information; Computer hardware and recorded software for operating medical imaging apparatus sold as a unit; Computer hardware and recorded software sold as a unit for use with medical patient monitoring equipment, for receiving, processing, transmitting and displaying data; Computer monitors; Video monitors; Voice display monitors; Remote video monitoring system consisting primarily of a camera and video monitor for recording and transmitting images to a remote location; Touchscreen monitors; Downloadable facilities management software to control building environment, access and security systems; Electronic video surveillance products, namely, electronic components of security systems; Hospital automation systems comprised of computer hardware, wireless and wired controllers, and downloadable software for automating hospital operations and patient monitoring, namely, software for receiving, processing, transmitting and displaying data US Class(es):26, 39, 44 Medical imaging apparatus for diagnosing medical conditions incorporating recorded operating system software; Medical imaging apparatus for

USPTO ISSUES TRADEMARK: CARE.AI SMART

diagnosing medical conditions and monitoring patients incorporating recorded operating system software; Medical apparatus and instruments for monitoring blood oxygen saturation, blood gas concentrations, vital signs and respiratory events; Medical devices for monitoring blood oxygen saturation, blood gas concentrations and vital signs; Wearable monitors used to measure biometric data for medical use; Computer displays and computer monitors and controllers therefor used in direct association with medical diagnosis apparatus during the process of diagnosis of a condition in an individual; Patient monitors for critical care; Health monitors comprising sensor that monitor the health of patients; Portable medical devices with sensors to monitor the physical movements of a patient wearing or carrying the device US Class(es):100, 103, 106 Installation, maintenance and repair of computer hardware; Installation, maintenance and repair of telecommunications apparatus and instruments; Technical consulting in the field of **artificial intelligence (AI)** hardware customization US Class(es):100, 101 Providing temporary use of non-downloadable cloud-based software for controlling and managing patient medical information; Providing temporary use of non-downloadable cloud-based software for monitoring patients, workers, visitors, and facilities in the field of healthcare; Providing temporary use of non-downloadable cloud-based software for medical instrument for monitoring, receiving, processing, transmitting, and displaying data; Providing temporary use of non-downloadable cloud-based software for use with medical patient monitoring equipment, for receiving, processing, transmitting and displaying data; Providing temporary use of non-downloadable cloud-based software that enables users to enter, access, track, monitor and generate health and medical information and reports; Providing temporary use of non-downloadable cloud-based software for accessing, reading, and tracking information in the field of healthcare; Providing temporary use of on-line non-downloadable software and applications using **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Providing temporary use of non-downloadable cloud-based software for managing patient information; Providing an interactive web site featuring technology that enables users to enter, access, track, monitor and generate health and medical information and reports; IT integration services; Technical support services, namely, remote and on-site infrastructure management services for monitoring, administration and management of public and private cloud computing IT and application systems; Computer technical support services, namely, 24/7 service desk or help desk services for IT infrastructure, operating systems, database systems, and web applications; Computer services, namely, remote and on-site management of the information technology (IT) cloud computing systems of others; Computer services, namely, remote and on-site management of the information technology (IT) cloud computing systems of others comprised of managing network and internet connectivity; Maintenance of computer software; Installation, maintenance and repair of computer software; Computer software installation and maintenance; Data security consultancy; Computer security consultancy; Cloud storage services for electronic data; Temporary electronic storage of information and data; Computer **disaster** recovery planning For any query with respect to this article or any other content requirement, please contact Editor at

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Body

The Joint Economic Committee released the following testimony by Adam Thierer, a senior fellow at the R Street Institute, from a hearing dated June 4, 2024, entitled "**Artificial Intelligence** and Its Potential to Fuel Economic Growth and Improve Governance":

* * *

Chairman Heinrich, Vice Chairman Schweikert, and members of the Committee:

Thank you for the invitation to participate in this important hearing on "**Artificial Intelligence** and Its Potential to Fuel Economic Growth and Improve Governance." My name is Adam Thierer, and I am a senior fellow at the R Street Institute, where I focus on emerging technology issues. I also recently served as a commissioner on the U.S. Chamber of Commerce's Commission on **Artificial Intelligence** Competitiveness, Inclusion, and Innovation.¹

Today I will discuss three points relevant to this hearing:

1. First, **AI** and advanced computational technologies can help fuel broad-based economic growth and sectoral productivity while also improving consumer health and welfare in important ways.
2. Second, to unlock these benefits, the United States needs to pursue a pro-innovation **AI** policy vision that can also help bolster our global competitive advantage and geopolitical security.
3. Third, we can advance these goals through an **AI** Opportunity Agenda that includes a learning period moratorium on burdensome new **AI** regulations.

I will address each point briefly, but I have included three appendices to my testimony offering more details.

* * *

AI Could Drive Economic Growth, Increase Sectoral Productivity, and Improve Human Well-Being

AI is set to become the "most important general-purpose technology of our era," and **AI** could revolutionize every segment of the economy in some fashion.² The potential exists for **AI** to drive explosive economic growth and productivity enhancements.³ While predictions vary, analysts forecast that **AI** could deliver trillions in additional global economic activity and significantly boost annual GDP growth.⁴

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1 Commission on **Artificial Intelligence** Competitiveness, Inclusion, and Innovation, Commission on **Artificial Intelligence** Competitiveness, Inclusion, and Innovation: Report and Recommendations, U.S. Chamber of Commerce, March 2023. https://www.uschamber.com/assets/documents/CTEC_AICommission2023_Report_v6.pdf.

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3 Tom Davidson, "Could Advanced **AI** Drive Explosive Economic Growth?," Open Philanthropy, Research Report, June 25, 2021. <https://www.openphilanthropy.org/research/could-advanced-ai-drive-explosive-economic-growth>; Ege Erdi and Tamay Besiroglu, "Explosive growth from **AI** automation: A review of the arguments," Arxiv, Oct. 1, 2023. <https://arxiv.org/abs/2309.11690>.

* * *

This would be over and above the \$4 trillion of gross output that the U.S. Bureau of Economic Analysis says the U.S. digital economy already accounted for in 2022.⁵ [See Appendix I] But what really matters is what **AI** means for every American personally. **AI** is poised to revolutionize health outcomes, in particular. **AI** is already helping with early detection and treatment of cancers, strokes, heart disease, brain disease, sepsis, and other ailments. **AI** is also helping address organ failure, paralysis, vision impairments, and much more. The age of personalized medicine will be driven by **AI** advancement. [See Appendix 2] **AI** can help make government more efficient, too.⁶ Ohio Lt. Gov. Jon Husted recently used an **AI** tool to help sift through the state's code of regulations and eliminate 2.2 million words' worth of unnecessary and outdated regulations.⁷ California Gov. Gavin Newsom just announced an effort to use generative **AI** tools to improve public services and cut 8 percent from the state's government operations budget.⁸ And regulators are using **AI** to facilitate compliance with existing policies, such as post-market medical device surveillance.⁹ **AI** also holds the potential to achieve administrative savings for federal health insurance programs or, better yet, reduce the number of people dependent on them by identifying and treating ailments earlier.¹⁰

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4 Jacques Bughin, et al., "Notes from the **AI** Frontier: Modeling the Impact of **AI** on the World Economy," McKinsey Global Institute, Discussion Paper, Sept. 4, 2018. <https://www.mckinsey.com/featured-insights/artificial-intelligence/notes-from-the-ai-frontier-modeling-the-impact-of-ai-on-the-world-economy>.

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Computational Freedom Is Important for America's Geopolitical Competitiveness and Security

There is an important connection between **AI** and broader national objectives. A strong technology base is a key source of strength and prosperity, so it is essential that we do not undermine innovation and investment as the next great technological race gets underway with China and the rest of the world.¹¹ Luckily, U.S. **AI** innovators are still in the lead. Had a Chinese operator launched a major generative **AI** model first, it would have been a "Sputnik moment" for America. Still, China has made its imperial ambitions clear with a goal to become the global leader in advanced computation by 2030, and it has considerable talent, data, and resources to power those ambitions.¹² Experts argue that "China's whole-of-society approach is challenging America's traditional advantages" in advanced technology.¹³ We need a pro-innovation national **AI** policy that will not only strengthen our economy and provide better products and jobs, but also bolster national security and allow our values of pluralism, personal liberty, individual rights, and free speech to shape global information platforms and markets.¹⁴ If fear-based policies impede America's **AI** development and diffusion, then China wins.¹⁵

* * *

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Protect the Freedom to Innovate with an "**AI** Opportunity Agenda"

To achieve the benefits AI offers and meet the rising global competition, America needs an AI Opportunity Agenda.

An AI Opportunity Agenda begins by reiterating that the freedom to innovate is the cornerstone of American technology policy and the key to unlocking the enormous potential of our nation's entrepreneurs and workers.¹⁶ As part of this Agenda, Congress should craft a learning period moratorium on new proposals, such as new AI-specific bureaucracies, licensing systems, or liability schemes, all of which would be counterproductive and undermine our nation's computational capabilities. [See Enclosure I] In addition, this moratorium should preempt burdensome state and local regulatory enactments that conflict with our national AI policy framework.¹⁷

Next, Congress should require our government's existing 439 federal departments to evaluate their current policies toward AI systems with two purposes in mind. First, to ensure that they are not over-burdening algorithmic systems with outdated policies, and second, to determine how existing rules and regulations are capable of addressing the concerns that some have raised about AI. Taking inventory of existing rules and regulations can then allow policymakers to identify any gaps that Congress ought to address using targeted remedies.

Finally, an AI Opportunity Agenda requires an openness to new talent and competition.¹⁸ With experts finding that a "talent war is brewing between the US and China," and that China is moving ahead in some important ways, we must take steps to attract and retain the world's best and brightest data scientists and computer engineers.¹⁹

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19 Isobel Asher Hamilton, "The Next Big US-China Trade War is Over AI Talent," The Daily Upside, May 17, 2024. <https://www.thedailyupside.com/technology/artificial-intelligence/the-next-big-us-china-trade-war-is-over-ai-talent>; Stuart Anderson, "AI Commission: Immigrants Key To America's Tech Competitiveness," Forbes, March 3, See pages 6-12 for Appendix 1, "How AI Could Drive Economic Growth and Sectoral Productivity." See pages 13-21 for Appendix 2, "AI's Potential for Improving Medicine and Health Outcomes." See pages 22-25 for Enclosure 1, "Getting AI Policy Right Through a Learning Period Moratorium," R Street Institute, May 29, 2024. <https://www.rstreet.org/commentary/getting-ai-policy-right-through-a-learning-period-moratorium>. 2021. <https://www.forbes.com/sites/stuartanderson/2021/03/03/ai-commission-immigrants-key-to-americas-tech-competitiveness>.

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Conclusion

In sum, America's AI policy should be rooted in patience and humility instead of a rush to over-regulate based on hypotheticals and worst-case thinking.²⁰ We are still very early in the AI lifecycle, and there is still no consensus on how to define the term, let alone legislate beyond establishing definitions.²¹ To ensure America leads this next great technological revolution, Congress must once again uphold the freedom to innovate and craft a flexible, risk-based AI policy vision to ensure we can meet global competition, advance economic opportunity, and improve the well-being of every citizen.

Thank you for holding this hearing and for your consideration of my views. I look forward to any questions you may have.

* * *

20 Adam Thierer, "A balanced **AI** governance vision for America," The Hill, April 16, 2023. <https://thehill.com/opinion/congress-blog/3953916-a-balanced-ai-governance-vision-for-america>.

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Appendix 1: How **AI** Could Drive Economic Growth and Sectoral Productivity

Over the past half century, there have been waves of both great excitement and disillusionment about the prospects for **AI** advancement.²² **AI** historians often speak of the many **AI** "springs" and "winters"--what one might think of as **AI** booms and busts--that have come and gone.²³ It did not help that some of **AI**'s early pioneers over-exuberantly predicted that powerful "superintelligence" would be with us in short order. In the late 1960s, for example, noted **AI** researchers confidentially predicted that "machines will be capable, within twenty years, of doing any work a man can do," (Herbert A. Simon), and that "[i]n from three to eight years we will have a machine with the general intelligence of an average human being" (Marvin Minsky).²⁴ Such exuberance was replaced by pessimism in the 1970s, resulting in a "winter" period for **AI** research and investment.

Today, however, **AI** is generally thought to be in the midst of another spring as enthusiasm grows around specific capabilities and applications. Economists predict that **AI** is set to become the "most important general-purpose technology of our era."²⁵ General-purpose technologies will become intertwined with almost every other economic sector and used ubiquitously throughout society.²⁶ These developments are coming about because we live in an era of rapid-fire combinatorial innovation in which new technologies are building on top of one another in a symbiotic fashion, further accelerating their development and sophistication.²⁷ Improving Many Sectors, Including Government

The power of algorithmic technologies is all around us in products and services such as speech and image recognition tools on our smartphones and the recommender systems many media providers and other companies use to tailor goods, services, and content to our interests. **AI** will be used by almost all organizations to help improve analytics and marketing, enhance customer service, and boost sales or performance in various new ways. And it will completely upend the way production and work is done in countless fields and professions.

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22 Robert D. Atkinson, "'It's Going to Kill Us!' and Other Myths about the Future of **Artificial Intelligence**," Information Technology and Innovation Foundation, June 2016. <http://www2.itif.org/2016-myths-machine-learning.pdf>.

23 Melanie Mitchell, "Why **AI** is Harder Than We Think," April 28, 2021. <https://arxiv.org/pdf/2104.12871.pdf>.

24 Gil Press, "A Very Short History Of **Artificial Intelligence (AI)**," Forbes, Dec. 30, 2016. <https://www.forbes.com/sites/gilpress/2016/12/30/a-very-short-history-of-artificial-intelligence-ai>.

25 Erik Brynjolfsson and Andrew McAfee, "The Business of **Artificial Intelligence**," Harvard Business Review, July 18, 2017. <https://hbr.org/2017/07/the-business-of-artificial-intelligence>.

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27 Hal R. Varian, "Computer Mediated Transactions," American Economic Review 100:2 (May 2010). <https://www.aeaweb.org/articles?id=10.1257/aer.100.2.1>.

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AI and ML capabilities are operating behind the scenes to help with fraud and spam detection, computer virus filtering, content management/moderation,²⁸ mapping/navigation,²⁹ travel planning,³⁰ weather forecasting and natural **disaster** prediction,³¹ warehouse automation/inventory management,³² supply chain management,³³ and various other logistics.³⁴ For example, in 2021, McKinsey & Company estimated that "[s]uccessfully implementing **AI**-enabled supply-chain management has enabled early adopters to improve logistics costs by 15 percent, inventory levels by 35 percent, and service levels by 65 percent, compared with slower-moving competitors."³⁵ These productivity enhancements will likely accelerate as algorithmic techniques are further refined.

AI and ML capabilities also power most of the devices that make up the so-called Internet of Things and various connected "smart" devices, including many wearable technologies and other devices with embedded sensors.³⁶ Another related term here is ambient computing³⁷ or ubiquitous computing, which essentially means "using computers without knowing that you are using one," or using smart systems without explicitly calling them computers.³⁸ These technologies have powerful health and medical applications, among other things.

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28 Alex Feerst, "The Use of **AI** in Online Content Moderation," American Enterprise Institute (September 2022). <https://platforms.aei.org/the-use-of-ai-in-online-content-moderation>.

29 Arianna Johnson, "You're Already Using **AI**: Here's Where It's At In Everyday Life, From Facial Recognition To Navigation Apps," Forbes, April 14, 2023. <https://www.forbes.com/sites/ariannajohnson/2023/04/14/youre-already-using-ai-heres-where-its-at-in-everyday-life-from-facial-recognition-to-navigation-apps/?sh=1996a1f927ac>.

30 Jacob Passy, "Expedia Wants ChatGPT to Be Your Travel Adviser," The Wall Street Journal, April 4, 2023. <https://www.wsj.com/articles/expedia-chatgpt-ai-travel-app-22ffd00>.

31 Robin Fearon, "**AI** Tools Help to Predict Extreme Weather and Save Lives," Discovery, Aug. 2, 2022. <https://www.discovery.com/science/ai-tools-help-to-predict-extreme-weather>; "Deep learning can predict tsunami impacts in less than a second," Phys.org, Dec. 27, 2022. <https://phys.org/news/2022-12-deep-tsunami-impacts.html>; "NASA-enabled **AI** Predictions May Give Time to Prepare for Solar Storms," NASA, March 30, 2023. <https://www.nasa.gov/feature/goddard/2023/sun/nasa-enabled-ai-predictions-may-give-time-to-prepare-for-solar-storms>.

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37 Christopher Mims, "Why the Future of the Computer Is Everywhere, All the Time," The Wall Street Journal, Oct. 29, 2022. <https://www.wsj.com/articles/computer-technology-ambient-computing-11666992784>.

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Meanwhile, various **AI**-powered robotic technologies are already at work in many industrial sectors.³⁹ **AI**, ML, and advanced robotics technologies promise to revolutionize many fields including advertising and marketing,⁴⁰ agriculture,⁴¹ archeology,⁴² auto safety,⁴³ aviation,⁴⁴ education,⁴⁵ endangered species protection,⁴⁶ energy and climate solutions,⁴⁷ entertainment,⁴⁸ financial services,⁴⁹ legal services,⁵⁰ retail,⁵¹ transportation,⁵² and others.⁵³ Going forward, every segment of the economy will be touched by **AI** and robotics in some fashion; therefore, it should be equally clear that public policy will be transformed in the process.

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38 Ethem Alpaydin, Machine Learning (The MIT Press, 2021), p. 9.

39 A Roadmap for US Robotics From Internet to Robotics: 2020 Edition, Sept. 9, 2020. <https://www.hichristensen.com/pdf/roadmap-2020.pdf>.

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42 Diego Lopez Marina, "How **AI** helped archaeologists in Peru discover 4 new Nazca Line geoglyphs," Peru Reports, June 14, 2023. <https://perureports.com/how-ai-helped-archaeologists-in-peru-discover-4-new-nazca-line-geoglyphs/10165>.

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AI will affect government processes, too.⁵⁴ In April 2024, Ohio Lt. Gov. Jon Husted used an **AI** tool to help sift through the state's code of regulations and eliminate 2.2 million words' worth of unnecessary and outdated regulations.⁵⁵ In May 2024, California Gov. Gavin Newsom announced an effort to use generative **AI** tools to improve public services and cut 8 percent from the state's government operations budget.⁵⁶ **AI** is also being used by regulators to facilitate compliance with existing policies. For example, the U.S. Food and Drug Administration (FDA) has been using **AI** for post-market medical device surveillance.⁵⁷

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AI, Economic Growth, and Productivity Gains

The potential exists for **AI** to drive explosive economic growth and productivity enhancements.⁵⁸ While predictions vary, most analysts believe that "**AI** will have a significant economic impact."⁵⁹

* According to Grand View Research, a market research and consulting company based in India and the United States, the global **AI** market was valued at \$93.5 billion in 2021 and is projected to expand at a compound annual growth rate of 38.1 percent from 2022 to 2030.⁶⁰

* A 2018 McKinsey study estimated that "**AI** has the potential to deliver additional global economic activity of around \$13 trillion by 2030, or about 16 percent higher cumulative GDP compared with today. This amounts to 1.2 percent additional GDP growth per year."⁶¹ In the summer of 2023, McKinsey released another study estimating that generative **AI** alone could add up to \$4.4 trillion of value to the global economy annually.⁶²

* An earlier PwC report forecast a \$15.7 trillion potential contribution to the global economy by 2030.⁶³

* A 2023 Goldman Sachs report predicted **AI** could help boost U.S. labor productivity by 1.5 percentage points each year, while Peterson Institute for International Economics estimates **AI** will add an additional 1.0 percentage points to productivity growth over the 2025-2028 timeframe.⁶⁴ Goldman also says generative **AI** could drive a 7 percent (or almost \$7 trillion) increase in global GDP over a 10-year period.⁶⁵

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* Another leading economist with a specialization in technology argues that **AI** will double productivity in the coming decade.⁶⁶

Even if **AI**'s economic impact falls far short of those estimates, it would still generate enormous growth opportunities across many segments of the economy. **AI** is also invigorating new types of tech competition, especially from open-source players and platforms.⁶⁷ It also promises to benefit small businesses by creating new products and jobs. A

U.S. Chamber of Commerce report finds that 87 percent of small businesses reported increased efficiency due to new technology platforms and that one in four small businesses are already using **AI**.⁶⁸ The Past Can Be Prologue

If this potential for explosive growth still sounds outlandish, consider that, in 1998, Nobel Prize-winning economist Paul Krugman infamously predicted that the internet's impact on the global economy would be "no greater than the fax machine's."⁶⁹ President Bill Clinton thought differently, predicting that the internet's potential was "nothing short of revolutionary" and that "[i]n just a few years, it will generate hundreds of billions of dollars in goods and services."⁷⁰

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Clinton's optimism was vindicated. Electronic commerce exploded, and digital innovation became the foundation of significant economic growth, new jobs, and boundless speech opportunities. According to the U.S. Bureau of Economic Analysis, in 2022, the U.S. digital economy accounted for over \$4 trillion of gross output, \$2.6 trillion of value added (translating to 10 percent of U.S. GDP), \$1.3 trillion of compensation, and 8.9 million jobs.⁷¹ These astonishing results came about thanks to wise bipartisan public policies formulated by the Clinton administration and a Republican-led Congress.⁷² Freedom to innovate was America's policy default for digital services, and burdensome state regulations (and even taxes) were preempted to a degree.⁷³ Federal policymakers made a firm break with the old regulatory models of the analog era, which had constrained competition. The results speak for themselves. In addition to generating remarkable economic output and opportunity, this approach resulted in global

Joint Economic Committee Issues Testimony From R Street Institute Senior Fellow Thierer (Part 1 of 2)

dominance of digital technology markets. Today, 18 of the 25 largest digital companies in the world are U.S.-based, and it is difficult to name any from Europe.⁷⁴ In essence, as a recent Wall Street Journal headline observed, the European Union now "regulates its way to last place" on digital technology.⁷⁵

This should serve as a cautionary tale for U.S. policymakers. America got policy right for the internet, but the sort of approach adopted for **AI** remains to be seen. If we want U.S. firms to once again lead the world--and help counter China's looming influence on **AI** markets in particular--it is essential for policymakers to strike the right policy balance once again.⁷⁶

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Appendix 2: **AI**'s Potential for Improving Medicine and Health Outcomes

AI is already revolutionizing the field of healthcare and the practice of medicine.⁷⁷ Increasingly powerful algorithmic systems--often combined with new wearable technologies--are already helping many people better monitor their health and fitness.⁷⁸ Generative **AI** tools will also supplement remote medicine with virtual health care assistants.⁷⁹ More sophisticated **AI** tools are allowing doctors and scientists to create highly personalized care options and develop new medical treatments tailored to the unique needs of each patient.⁸⁰ As two medical experts and authors of *The Age of Scientific Wellness* have noted, "those who fold these systems into their practices will be doing their patients (and themselves) a great service" because "they are akin to having not one expert but thousands upon thousands, all working together at top speed. Because **AI** is generally inexpensive to run once it has been developed, the potential for optimizing care and making it radically cheaper is striking."⁸¹ **AI** and ML-enabled technologies are already having a profound impact on public health. Machine learning refers to the processes by which a computer can train and improve an algorithm or computer model without step-by-step human involvement.⁸² In 2022, for example, an **AI** technology from Google DeepMind called AlphaFold was able to model the structure of nearly all known proteins, representing "a significant advance in biology that will accelerate drug discovery and help address problems such as sustainability and food insecurity."⁸³ Researchers from the Fundamental **AI** Research Team at Meta have a competing ML-created database of 617 million predicted protein structures.⁸⁴ These advances are leading to what some researchers call a "protein design revolution" driving "the next quantum leap in the biotech industry," which could completely transform medicine.⁸⁵ This competition continues, as DeepMind announced the latest and more powerful iteration of AlphaFold in April 2024.⁸⁶

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A Broad Range of Health Benefits

AI, ML, and robotics are driving many other major medical advances today, becoming a crucial part of early detection of various ailments and diseases.⁸⁷ "**Artificial-intelligence** algorithms are processing vast troves of data in electronic medical records, searching for patterns to predict future outcomes and recommend treatments," notes a Wall Street Journal medical reporter.⁸⁸ "They are creating early-warning systems to help hospital staff spot subtle but serious changes in a patient's condition that aren't always visible or noticed in a busy unit, and predicting which patients about to be discharged from the hospital are at highest risk of being readmitted."⁸⁹ Here are some other specific examples of how **AI**, ML, and robotics technologies are already advancing medical science and helping improve health outcomes.

* Organ donation: In the field of organ donations, "[p]aired kidney donation is one of the great success stories of **artificial intelligence**," helping doctors and patients by taking "an incredibly complex problem and solves it faster and with fewer errors than humans can, and saving more lives as a result."⁹⁰

* Heart attack detection and treatment: **AI** and ML tools are helping detect and treat heart disease and heart attacks, a leading cause of death globally.⁹¹ Scientists at Cedars-Sinai developed an algorithmic tool in 2022 that can quantify coronary plaque buildup in five to six seconds compared to at least 25 to 30 minutes before.⁹² This will greatly improve the ability to predict who will have a heart attack. Other researchers have developed **AI** tools to help improve personalized treatment for women who have had heart attacks.⁹³ Women who suffer a heart attack have a higher mortality rate than men, often because their symptoms are not properly understood or diagnosed. Meanwhile, the British National Health Service recently started using a new **AI** tool that can detect heart disease in just 20 seconds while patients are in an MRI scanner, compared with the 13 minutes or more it usually takes doctors to analyze images manually after performing a scan.⁹⁴

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* Cancers: President Richard Nixon declared a national "war on cancer" over 50 years ago.⁹⁵ More recently, the Obama and Biden administrations pushed for a "cancer moonshot."⁹⁶ Unfortunately, cancers remain the second leading causes of death in the United States,⁹⁷ claiming 602,350 lives in 2020 alone.⁹⁸ **AI** and ML-enabled technologies are poised to help reduce that staggering death toll. Mayo Clinic researchers have shown how ML models can help diagnose and treat pancreatic cancer at an earlier stage.⁹⁹ Pancreatic cancer is the third leading cause of cancer deaths, claiming 46,774 lives in 2020.¹⁰⁰ British scientists have recently reported on new **AI** software that can spot signs of pre-cancer during endoscopies in 92 percent of patients, which could significantly lower deaths from esophageal cancer.¹⁰¹ **AI**/ML techniques are also helping with early fast, accurate way of diagnosing heart attack," detection and treatment of lung cancer,¹⁰² breast cancer,¹⁰³ brain cancer,¹⁰⁴ cervical cancer,¹⁰⁵ and many other types of cancer¹⁰⁶ (including undiagnosable cancers¹⁰⁷), aided by increasingly personalized screening techniques.¹⁰⁸ The FDA has started approving more **AI**-powered medical devices that can help facilitate early detection of the most prevalent cancers.¹⁰⁹ **AI**-enabled cancer detection tools can help alleviate some of the workload that human radiologists and other cancer doctors face.¹¹⁰

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* Sepsis and superbugs: Recent medical studies have also documented how **AI**-powered monitoring systems are helping detect antibiotic-resistant "superbugs"¹¹¹ and sepsis,¹¹² saving thousands of lives each year as a result. Roughly 1.7 million adults develop sepsis each year in the United States, and more than 250,000 of them die.¹¹³ Researchers find that the use of **AI** "dramatically cuts the time it takes to sort through thousands of promising compounds" to fight drug-resistant pathogens.¹¹⁴

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* Paralysis: The Christopher & Dana Reeve Foundation has estimated that nearly 1 in 50 people in the United States are living with paralysis.¹¹⁵ The combination of **AI** and robotic technologies holds promise for helping paralyzed individuals regain certain motor functions.¹¹⁶ In May 2023, a Dutch man paralyzed from the waist down for more than a decade regained his ability to walk thanks to brain and spine implants and an **AI**-enabled thought decoder that helped him translate electrical brain signals into muscle movement.¹¹⁷ He is now able to walk around his own home and get in and out of a car on his own. A paralyzed American man regained his sense of touch and mobility thanks to similar **AI**-enabled brain implants.¹¹⁸ **AI** and ML capabilities are powering other brain-machine implants that are helping address disabilities in other ways, including regaining the ability to speak after a stroke.¹¹⁹ And The New York Times recently documented how a woman who lost her arm in an accident is now able to control her new prosthetic robotic arm thanks to advances in **AI** and sensors embedded in her body.¹²⁰

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* Mental health and drug addiction: **AI** can help identify and address mental health problems through textual analysis, which can supplement human-based analysis at a time when there is a nationwide shortage of health care workers in this area.¹²¹ **AI** tools are also being tapped to help find novel drugs that can help counter opioid addiction, which has become a chronic problem in recent years.¹²² There are many other current or potential health-related applications for algorithmic technologies, including abnormal chest X-ray detection,¹²³ **AI**-powered ultrasounds,¹²⁴ new drug and vaccine discovery,¹²⁵ and detecting and addressing eye disease and blindness.¹²⁶ In April 2024, the National Institutes of Health announced a new breakthrough in **AI** retinal imaging that produces high-resolution images of cells in the eye 100 times faster and with a 3.5-fold improvement in image contrast.¹²⁷ **AI** and ML will power other advanced learning capabilities that will help doctors and scientific researchers access and understand massive amounts of patient and health data and put it to even better use. These same capabilities will help innovators create new personalized health monitoring and tracking systems for the public.¹²⁸

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AI Will Help Doctors, Nurses, and Scientists Advance Treatments

In 2022, I served as a member of the U.S. Chamber of Commerce's "AI Commission on Competition, Inclusion, and Innovation," a group formed to study AI governance. At a spring 2022 field hearing, our Commission heard remarks from Cleveland Clinic CEO and President Tom Mihaljevic, MD and several of his colleagues.¹²⁹ These doctors and scientists highlighted how they were already using AI/ML to improve patient care and save lives. They noted how teams of doctors and researchers are now able to share information from tissue samples with much larger teams of medical experts, who can--with the help of algorithmic systems--work together at a distance to better understand and use all the information at their fingertips. Additionally, along with other medical centers, the Clinic has developed better AI-driven methods to detect irregular heartbeats and strokes and to diagnose degenerative brain diseases like Alzheimer's, dementia, and Parkinson's.¹³⁰ This only scratches the surface of what AI/ML will mean for patient care.¹³¹ Dr. Mihaljevic noted that, when he started practicing medicine in the 1980s, the overall volume of medical information doubled roughly every seven years; today, it doubles every 73 days.¹³² Meanwhile, 7,000 medical papers are published every day.¹³³ A recent study in Science shows that, in the closely related field of medical robotics, the number of scientific papers has grown exponentially from less than 10 published in 1990 to more than 5,200 in 2020.¹³⁴ These numbers align with broader trends in technical and scientific literature. "Since the scientific literature doubles roughly every 12 years, this means that of all scientific work ever produced, half of it has been produced in the last 12 years," note the authors of The Science of Science.¹³⁵

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(Continues with part 2 of 2)

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EDDY HIGHLIGHTS AI, ANALYTICS, EMERGENCY MANAGEMENT

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Body

WASHINGTON, Jan. 10 -- The U.S. Department of Energy's Pacific Northwest National Laboratory issued the following press release:

Just as fast as technology is changing, so is the threat landscape. More frequent and intense disasters put pressures on emergency operations centers (EOCs) to rapidly share and analyze data that informs decision-making. At the GovAI Summit 2023, a panel with the Department of Homeland Security (DHS) Science and Technology (S&T) Directorate, Pacific Northwest National Laboratory (PNNL), and other emergency management practitioners discussed how science and technology-specifically **artificial intelligence (AI)**-can help.

"Technology is a changing opportunity space for emergency preparedness and response, and we see that more than ever with the current emergence of **AI**. This panel was a great chance to focus on both the challenges and opportunities **AI** presents for emergency managers and first responders who help keep us safe," said Ryan Eddy, PNNL director of homeland security programs.

The panel, "The EOC of the Future: How **AI** Will Transform Emergency Ops," explored how **AI** can help emergency management advance from data overload to prediction and adjustment.

"With today's tools, there is a lot of data that can inform decision-making, but emergency managers need to be able to access it and use it-and fast. At PNNL, we are enabling secure, trustworthy, science-based **AI** and machine learning programs to advance capabilities, particularly in image analysis and cyber defense," Eddy said.

Eddy's presentation, "**Artificial Intelligence** Science and Technology for Emergency Management," highlighted PNNL **AI** tools and analysis capabilities, such as Rapid Analytics for **Disaster** Response, which combines image-capturing technology, **AI** and cloud computing to assess damage and predict risks during extreme events, and Sharkzor tool, which is an **AI**-driven, scalable web application that makes it possible to quickly characterize and sort electron microscopy images used to analyze radioactive materials.

*Rest of the document can be viewed at: (<https://www.pnnl.gov/news-media/eddy-highlights-ai-analytics-emergency-management>) For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htlive.com

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DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP,
ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND
SECURITY

**DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL
INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE
BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY MISSION**

US Fed News

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Body

NEW ORLEANS, March 18 -- The U.S. Department of Homeland Security issued the following news release:

DHS Will Launch Three Pilot Projects to Test **AI** Technology to Enhance Immigration Officer Training, Help Communities Build Resilience and Reduce Burden for Applying for **Disaster** Relief Grants, and Improve Efficiency of Law Enforcement Investigations

WASHINGTON - Today, Secretary of Homeland Security Alejandro N. Mayorkas and Chief Information Officer and Chief **Artificial Intelligence** Officer Eric Hysen announced the Department of Homeland Security's (DHS) first "**Artificial Intelligence** Roadmap." The roadmap details DHS's 2024 plans, including to test uses of the technologies that deliver meaningful benefits to the American public and advance homeland security, while ensuring that individuals' privacy, civil rights, and civil liberties are protected.

As part of the roadmap, DHS announced three innovative pilot projects that will deploy **AI** in specific mission areas. Homeland Security Investigations (HSI) will test **AI** to enhance investigative processes focused on detecting fentanyl and increasing efficiency of investigations related to combatting child sexual exploitation. The Federal Emergency Management Agency (FEMA) will deploy **AI** to help communities plan for and develop hazard mitigation plans to build resilience and minimize risks. And, United States Citizenship and Immigration Services (USCIS) will use **AI** to improve immigration officer training.

"The unprecedented speed and potential of **AI**'s development and adoption presents both enormous opportunities to advance our mission and risks we must mitigate," said Secretary of Homeland Security Alejandro N. Mayorkas. "The DHS **AI** roadmap and pilots will guide our efforts this year to strengthen our national security, improve our operations, and provide more efficient services to the American people, while upholding our commitment to protect civil rights, civil liberties, and privacy. What we learn from the pilot projects will be beneficial in shaping how the Department can effectively and responsibly use **AI** across the homeland security enterprise moving forward."

The roadmap lays out DHS's initiatives in **AI**, describes the potential of **AI** technologies across the Department, and offers clearer visibility into the Department's approach to **AI**, while underscoring the Department's commitment to responsible utilization.

DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY

The AI roadmap outlines three lines of effort DHS is using to guide its work:

- * Responsibly leverage AI to advance Homeland Security missions while protecting individuals' privacy, civil rights, and civil liberties - DHS is committed to ensuring that its use of AI fully respects privacy, civil liberties, and civil rights, is rigorously tested to avoid bias, disparate impact, privacy harms, and other risks, and that it is understandable to the people we serve.
- * Promote Nationwide AI Safety and Security - Advances in AI will revolutionize the delivery of essential goods and services upon which Americans rely. AI can create tremendous efficiencies and benefits for citizens, but it can also present new and novel risks. To protect U.S. cyber networks and critical infrastructure, DHS will help govern the safe and responsible development and use of AI.
- * Continue to lead in AI through strong cohesive partnerships - DHS will foster strong relationships with private sector, academia, State, Local, Territorial, and Tribal governments, international partners, non-government organizations, research institutions, and thought leaders to accelerate the development and deployment of AI solutions tailored to the unique challenges faced by the DHS. In line with the DHS's commitment to transparency and visibility into the Department's vision for AI and to ensuring responsible use, DHS will continue to share information and engage with communities, advocates, and partners to demonstrate responsible AI use.

DHS's three new pilot programs will allow the Department to assess the efficacy of AI in improving its mission capabilities. Each pilot team is partnering with privacy, cybersecurity, and civil rights and civil liberties experts throughout their development and evaluation process. This work will inform Department-wide policies on AI governance. DHS offices and agencies submitted dozens of proposals for consideration to the Chief AI Officer, who selected three pilots that would best support evaluating the effectiveness of Large Language Models (LLM) and Generative AI technology at DHS.

The new pilot programs announced today will:

- * Transform Security Investigative Processes, Unlock Data-Driven Insights, and Improve Mission Outcomes - HSI's pilot project will strengthen their investigative processes by introducing a LLM-based system designed to enhance the efficiency and accuracy of summaries investigators rely upon. The LLM-based system will leverage open-source technologies to allow investigators to more quickly summarize and search for contextually relevant information within investigative reports. The pilot could lead to increases in detection of fentanyl-related networks, aid in identification of perpetrators and victims of child exploitation crimes, and surface key patterns and trends that could further HSI's vital work.
- * Bolster Planning Assistance for Resilient Communities - FEMA will launch a GenAI pilot to create efficiencies for the hazard mitigation planning process for local governments, including underserved communities. Hazard mitigation plans are not only a foundational step that communities can take to build their resilience but can be lengthy to produce and challenging for communities that lack resources to do so. The pilot will specifically support State, Local, Tribal, and Territorial governments' understanding of how to craft a plan that identifies risks and mitigation strategies as well as generate draft plan elements from publicly-available, well-researched sources - that governments could customize to meet their needs. This pilot could lead to more communities having the ability to submit grant applications for funding to become more resilient and reduce disaster risks.
- * Enhance Immigration Officer Training through Generative AI - United States Citizenship and Immigration Services is developing an interactive application that uses GenAI to improve the way the agency trains immigration officer personnel. USCIS will generate dynamic, personalized training materials that adapt to officers' specific needs and ensure the best possible knowledge and training on a wide range of current policies and laws relevant to their jobs. The goal is to help enhance trainees' understanding and retention of crucial information, increase the accuracy of their decisionmaking process, and limit the need for retraining over time.

The roadmap and announcement of pilot programs are the latest in the Department's ongoing AI initiatives.

DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY

In February, Secretary Mayorkas and CIO Hysen announced the Department's first-ever hiring sprint to recruit 50 **AI** technology experts to help build teams that will help better leverage **AI** responsibly across strategic areas of the homeland security enterprise. These include efforts to counter fentanyl, combat child sexual exploitation and abuse, deliver immigration services, secure travel, fortify our critical infrastructure, and enhance our cybersecurity. DHS has received a strong response to date and is in the process of reviewing, interviewing, and hiring **AI** technologists to support mission-enhancing initiatives. The Department continues to accept applications on dhs.gov/AI.

Last year, DHS established the Department's first **AI** Task Force and named CIO Hysen its first Chief **AI** Officer. Informed by the Task Force's work over the past 11 months, DHS has identified areas where **AI** can enhance the effectiveness of the Department's efforts - helping pave the way for this roadmap and these new projects. The Task Force's focus is on DHS's entire mission space. For instance, it is working to enhance the integrity of our supply chains and the broader trade environment by helping deploy **AI** to improve cargo screening, the identification of imported goods produced with forced labor, and risk management. The Task Force is also charged with using **AI** to better detect fentanyl shipments, identify and interdict the flow of precursor chemicals around the world, and disrupt key nodes in criminal networks.

The Department's latest efforts follow President Biden's Executive Order (EO) "Safe, Secure, and Trustworthy Development and Use of **Artificial Intelligence**," signed in October 2023. The EO directed DHS to promote the adoption of **AI** safety standards globally, protect U.S. networks and critical infrastructure, reduce the risks that **AI** can be used to create weapons of mass destruction, combat **AI**-related intellectual property theft, and help the United States attract and retain skilled talent, among other missions. The President has directed DHS to establish an **AI** Safety and Security Advisory Board to support the responsible development of **AI**. This Board will bring together preeminent industry experts from **AI** hardware and software companies, leading research labs, critical infrastructure entities, and the U.S. government. This Board will issue recommendations and best practices for an array of **AI** use cases to ensure **AI** deployments are secure and resilient.

To read the DHS **AI** Roadmap, visit the DHS **Artificial Intelligence** Roadmap webpage.

To learn more about how DHS uses **AI** technologies to protect the homeland, visit **Artificial Intelligence** at DHS. For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htlive.com

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ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND
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Virginia Tech research team uses AI, satellite imagery to detail Debby's damage

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Virginia Tech issued the following news:

On the morning of Aug. 5, Category 1 Hurricane Debby made landfall near Steinhatchee, Florida, then moved up the East Coast. The storm flooded nearly 2,200 square kilometers, or 850 square miles, between Florida and New York, according to new findings from Virginia Tech's Earth Observation and Innovation Lab.

By Aug. 9, more than 35 million people from South Carolina to Vermont were under flood alerts. Berkeley County, South Carolina, saw as much as 14 inches of rain with Charleston reaching 15 inches. Cities and counties along the U.S. Atlantic Coast are already vulnerable to flooding caused by land subsidence and sea level rise, a recent Virginia Tech study found.

Associate Professor Manoochehr Shirzaei and his team tracked Debby's impact by leveraging **artificial intelligence (AI)** and big radar satellite data acquired by Sentinel-1 satellites operated by European Space Agency.

Radar microwave signals penetrate clouds and capture detailed images of the Earth's surface, allowing for accurate detection of floodwaters. Radar can measure changes in water levels, track flood progression, and provide critical data for emergency response and **disaster** management.

Shirzaei's team found that nearly 2,200 square kilometers were flooded during and after Debby's landfall between Florida and New York with 1.5 percent of the land area in nine counties inundated. Seven counties experienced more than 35 square kilometers of inundation.

Debby is the fourth hurricane since 2000 to hit Florida in early August. Its heavy rain and strong winds may be linked to a warming atmosphere and oceans, which can hold more moisture.

"As extreme weather events like Debby become more common, it's crucial to rethink how we develop flood-prone areas along the U.S. East Coast," Shirzaei said. "Investing in resilient infrastructure and promoting public awareness are essential steps in preparing for and adapting to future floodings."

Virginia Tech research team uses AI, satellite imagery to detail Debby's damage

Original text here: <https://news.vt.edu/articles/2024/08/science-ai-satellite-imagery-detail-debbys-damage.html>

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MSTRUCK-8781133 MSTRUCK

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: COASTAL AREAS (90%); EARTH OBSERVATION SATELLITES (90%); FLOODS & FLOODING (90%); HURRICANES (90%); SATELLITE TECHNOLOGY (90%); SAFETY, ACCIDENTS & DISASTERS (89%); SEVERE WEATHER (89%); WEATHER (89%); ACCIDENTS & DISASTERS (78%); FLOOD ZONES (78%); RESEARCH REPORTS (78%); SEVERE WIND (78%); SPACE PROGRAMS (78%); **ARTIFICIAL INTELLIGENCE** (77%); EXPERIMENTATION & RESEARCH (77%); COUNTIES (76%); SEA LEVEL CHANGES (74%); NATURAL **DISASTER** ALERTS (73%); RADAR SYSTEMS (73%); SPACE & AERONAUTICS AGENCIES (53%)

Organization: EUROPEAN SPACE AGENCY (55%)

Industry: EARTH OBSERVATION SATELLITES (90%); SATELLITE TECHNOLOGY (90%); SPACE DATA INDUSTRY (90%); FLOOD ZONES (78%); SPACE PROGRAMS (78%); **ARTIFICIAL INTELLIGENCE** (77%); RADAR SYSTEMS (73%); SPACE INDUSTRY (72%); MICROWAVE COMMUNICATIONS (53%); SPACE & AERONAUTICS AGENCIES (53%)

Geographic: CHARLESTON, SC, USA (79%); SOUTH CAROLINA, USA (92%); ATLANTIC OCEAN (79%); EARTH (79%); VERMONT, USA (79%); VIRGINIA, USA (79%)

Load-Date: August 20, 2024

End of Document

VIRGINIA TECH RESEARCH TEAM USES AI, SATELLITE IMAGERY TO DETAIL DEBBY'S DAMAGE

States News Service

August 19, 2024 Monday

Copyright 2024 States News Service

Length: 334 words

Byline: States News Service

Dateline: BLACKSBURG, VA

Body

The following information was released by the Virginia Tech:

By

Kelly Izlar

19 Aug 2024

On the morning of Aug. 5, Category 1 Hurricane Debby made landfall near Steinhatchee, Florida, then moved up the East Coast. The storm flooded nearly 2,200 square kilometers, or 850 square miles, between Florida and New York, according to new findings from Virginia Tech's Earth Observation and Innovation Lab.

By Aug. 9, more than 35 million people from South Carolina to Vermont were under flood alerts. Berkeley County, South Carolina, saw as much as 14 inches of rain with Charleston reaching 15 inches. Cities and counties along the U.S. Atlantic Coast are already vulnerable to flooding caused by land subsidence and sea level rise, a recent Virginia Tech study found.

Associate Professor Manoochehr Shirzaei and his team tracked Debby's impact by leveraging **artificial intelligence (AI)** and big radar satellite data acquired by Sentinel-1 satellites operated by European Space Agency.

Radar microwave signals penetrate clouds and capture detailed images of the Earth's surface, allowing for accurate detection of floodwaters. Radar can measure changes in water levels, track flood progression, and provide critical data for emergency response and **disaster** management.

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Debby is the fourth hurricane since 2000 to hit Florida in early August. Its heavy rain and strong winds may be linked to a warming atmosphere and oceans, which can hold more moisture.

"As extreme weather events like Debby become more common, it's crucial to rethink how we develop flood-prone areas along the U.S. East Coast," Shirzaei said. "Investing in resilient infrastructure and promoting public awareness are essential steps in preparing for and adapting to future floodings."

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Organization: EUROPEAN SPACE AGENCY (54%)

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Geographic: CHARLESTON, SC, USA (79%); SOUTH CAROLINA, USA (92%); ATLANTIC OCEAN (79%); EARTH (79%); VERMONT, USA (79%); VIRGINIA, USA (79%)

Load-Date: August 19, 2024

End of Document

International Rescue Committee: OpenAI X International Rescue Committee - Leveraging AI to Scale Ed-Tech in Crisis Affected Settings

Targeted News Service

May 31, 2024 Friday 9:40 AM EST

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Length: 629 words

Byline: Targeted News Service

Dateline: NEW YORK

Body

(TNSres) -- The International Rescue Committee issued the following news release:

Ahead of the **AI** for Good Summit, the International Rescue Committee (IRC) is announcing a new humanitarian partnership with OpenAI leveraging cutting-edge **AI** technology to improve learning outcomes and reduce disruptions in learning for children in crisis-affected communities.

A total of 224 million school-aged and pre-school aged children are affected by crises globally, and 199 million of those children are either out of school or in school but not learning. Growing inequality, poverty, and instability remain among the main barriers to education worldwide. Even when children can attend school, the growing teacher shortage makes learning nearly impossible.

To help address this critical need, the IRC is developing aprendIA, an **AI**-driven educational chatbot platform that delivers personalized learning experiences that crisis-affected communities can access--in particular, teachers and parents. aprendIA will deploy educational interventions quickly in diverse humanitarian contexts and at scale via messaging platforms commonly used by clients.

With OpenAI's \$250,000 award, the IRC hopes to reach at least 10,000 teachers and caregivers in protracted and acute crises in areas such as Northeast Nigeria, Colombia, and Bangladesh through this project, thus indirectly impacting at least half a million students. By integrating with OpenAI's ChatGPT, the IRC will be able to rapidly create content, support overstretched teachers and personalize digital education experiences for improved learning outcomes and teacher empowerment, while researching the effectiveness of **AI** in education in safe and ethical ways.

Teachers and learning facilitators are at the heart of every education system. But in conflict and crisis settings, teachers lack resources to support children who face unique challenges, which can include trauma, missed years of education, or unfamiliar languages and curriculum. Now more than ever, the humanitarian sector needs an injection of innovation to unlock progress without burdening already overstretched and under-resourced services and systems.

International Rescue Committee: OpenAI X International Rescue Committee - Leveraging AI to Scale Ed-Tech in Crisis Affected Settings

"With more people displaced than ever, the evolving and growing nature of the global refugee crisis requires not just more aid, but new thinking too," said David Miliband, President and CEO of the IRC. "As the IRC leans into further leveraging **artificial intelligence**, we are thrilled to work with OpenAI, who are supporting our work in developing innovative solutions to solve one the biggest challenges faced in crisis-affected communities around the world - effectively delivering education at the last mile."

"Generative **AI** can give teachers and caregivers in crisis zones new ways of reaching vulnerable students who need the kind of personalized instruction and educational support that would otherwise be out of reach," said Anna Makanju, OpenAI's vice president of Global Affairs. "OpenAI is proud to support the IRC's innovative efforts to use **artificial intelligence** to provide vital assistance to refugees and other displaced people around the world."

* * *

About the IRC

The International Rescue Committee responds to the world's worst humanitarian crises, helping to restore health, safety, education, economic wellbeing, and power to people devastated by conflict and **disaster**. Founded in 1933 at the call of Albert Einstein, the IRC works in more than 50 countries and in 28 U.S. cities helping people to survive, reclaim control of their future, and strengthen their communities.

* * *

Original text here: <https://www.rescue.org/press-release/openai-x-international-rescue-committee-leveraging-ai-scale-ed-tech-crisis-affected>

[Category: International]

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Classification

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Publication-Type: Newswire

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Organization: INTERNATIONAL RESCUE COMMITTEE (94%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); CHATBOTS (90%); GENERATIVE **AI** (90%); EDUCATION SYSTEMS & INSTITUTIONS (78%)

International Rescue Committee: OpenAI X International Rescue Committee - Leveraging AI to Scale Ed-Tech
in Crisis Affected Settings

Person: DAVID MILIBAND (50%)

Geographic: NIGERIA (79%)

Load-Date: May 31, 2024

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NetApp Fights Ransomware in Real-Time With Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions

Targeted News Service

March 6, 2024 Wednesday 7:50 AM EST

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Length: 1400 words

Byline: Targeted News Service

Dateline: SAN JOSE, California

Body

(TNSres) -- NetApp, a provider of software, systems and services to manage and store data, issued the following news release:

NetApp(R) (NASDAQ: NTAP), the intelligent data infrastructure company, today announced cyber-resiliency capabilities that will equip customers to better protect and recover their data in the face of ransomware threats. NetApp is one of the first to integrate **artificial intelligence (AI)** and machine learning (ML) directly into enterprise primary storage to fight ransomware in real-time. The NetApp cyber-resiliency capabilities protect both primary and secondary data for organizations whether it is stored on-premises or in the cloud.

Cybercriminals are increasingly aiming ransomware attacks at critical infrastructure and supply chains where operational disruptions can cost millions of dollars, according to Forrester. As a result, 87 percent of C-suite and board-level executives ranked ransomware as a high, or the top, priority for their organization, according to the NetApp 2023 Data Complexity report. When cybercriminals breach perimeters, networks, and identities storage becomes the last line of defense for organizations' most critical data. With the threat of ransomware looming, organizations need solutions that not only protect their data but also quickly recover lost data and return to normal operations. NetApp is updating its cyber-resiliency solutions and leveraging the power of **AI** to give customers confidence that their data will be safe and accessible when they need it.

"NetApp is taking an aggressive and proactive approach to protecting our customers' data against cyber threats using **artificial intelligence**. We are the first storage vendor to explicitly and financially guarantee our data storage offerings against ransomware," said Mignona Cote, CSO at NetApp. "Today, we are furthering that leadership with updates that make defending data comprehensive, continuous, and simple for our customers."

NetApp is focused on designing data storage and management systems that maximize data protection and security while meeting data governance and compliance standards, with new updates that include:

* ONTAP Autonomous Ransomware Protection with **Artificial Intelligence** (ARP/**AI**) will spearhead the next generation of real-time enterprise storage ransomware protection, giving increased accuracy and performance required to detect and mitigate new, more sophisticated cyber threats. NetApp pioneered autonomous real-time

NetApp Fights Ransomware in Real-Time With Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions

detection of ransomware directly in primary enterprise storage three years ago. Now, NetApp will be leading the charge to use adaptive **AI/ML** models built directly into enterprise primary storage to look at file-level signals in real-time to detect even the newest ransomware attacks with planned 99%+ precision and recall. NetApp will be offering the first technology preview of **ARP/AI** within the next quarter.

* NetApp BlueXP Ransomware Protection, now in public preview, provides a single control plane to intelligently coordinate and execute an end-to-end, workload-centric ransomware defense. Customers can now identify and protect critical workload data with a single click, accurately and automatically detect and respond to a potential attack, and recover workloads within minutes, safeguarding their valuable data and minimizing costly disruption.

* Application-Aware Ransomware Protection via NetApp SnapCenter 5.0 offers immutable ransomware protection for applications. SnapCenter will now apply NetApp's leading ransomware protection technologies, previously used with unstructured data, to application-consistent backup. SnapCenter 5.0 includes support for key ONTAP features like tamperproof Snapshot copy locking, SnapLock protected volumes, and SnapMirror Business Continuity to enable more robust data protection for applications and virtual machines. SnapCenter 5.0 supports protection of applications on-premises with NetApp AFF, ASA, and FAS, as well as in the cloud.

* NetApp BlueXP **Disaster** Recovery, now generally available, offers seamless integration with VMware infrastructure and provides storage options for both on-premises and major public cloud environments. This comprehensive solution eliminates the need for separate standby **disaster** recovery (DR) infrastructure, reducing costs. With NetApp BlueXP **disaster** recovery, failover and failback processes are simplified, allowing smooth transitions from on-premises VMware infrastructure to the public cloud or to an on-premises data center.

* NetApp Keystone Ransomware Recovery Guarantee extends NetApp's current Ransomware Recovery Guarantee to our leading storage-as-a-service offering, NetApp Keystone. With this guarantee, NetApp will warrant snapshot data recovery in the event of a ransomware attack. If snapshot data copies can't be recovered through NetApp, we will offer compensation*.

"Today's cybersecurity teams face the monumental task of protecting their companies' data from ever-evolving threats, especially ransomware," said Archana Venkatraman, Research Director, Cloud Data Management, IDC. "NetApp's approach of delivering a secure, unified storage infrastructure makes storage foundational for ransomware protection and reduces the burden on cybersecurity teams. Companies looking to fortify their cyber resiliency and shifting protection left will increasingly look to vendors that take a secure-by-design approach and develop unified storage and data services."

"Using NetApp in our Advanced Technology Center, we significantly simplified our replication process for VMware virtual machines and their underlying datastores to meet or exceed recovery benchmarks," said Derek Elbert, Solutions Architect at WWT. "With NetApp's solutions, we successfully established the recovery policies for cloud volumes workloads or virtual machines with no existing DR strategy, managing everything through NetApp BlueXP. This transforms how we operate **disaster** recovery for VMware."

"To store sensitive genomics and health data, we have to use the right technology with layers of security built in," said Mark Cowley, Deputy Director at Children's Cancer Institute. "With NetApp, we can be very confident that we are sharing the right data only to authorized researchers. The last line of defense is your weakest web-based system, so we've implemented role-based access and added resilience to all of our tools."

The latest cyber resiliency updates from NetApp empower organizations to proactively address cybersecurity threats in complex hybrid and multicloud environments, leveraging **AI** to identify threats and prevent disruptions to their operations.

To learn more about the NetApp cyber-resiliency offerings visit: www.netapp.com/cyber-resilience/

*Specific terms and conditions will apply. Customers must apply for coverage by the guarantee.

NetApp Fights Ransomware in Real-Time With Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions

Additional Resources

* The Most Secure Storage on the Planet Gets Even Better

* Unveiling NetApp SnapCenter 5.0

* * *

About NetApp

NetApp is the intelligent data infrastructure company, combining unified data storage, integrated data services, and CloudOps solutions to turn a world of disruption into opportunity for every customer. NetApp creates silo-free infrastructure, harnessing observability and **AI** to enable the industry's best data management. As the only enterprise-grade storage service natively embedded in the world's biggest clouds, our data storage delivers seamless flexibility. In addition, our data services create a data advantage through superior cyber resilience, governance, and application agility. Our CloudOps solutions provide continuous optimization of performance and efficiency through observability and **AI**. No matter the data type, workload, or environment, with NetApp you can transform your data infrastructure to realize your business possibilities.

Learn more at www.netapp.com or follow us on X, LinkedIn, Facebook, and Instagram.

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REPORT: <https://www.netapp.com/pdf.html?item=/media/98131-2023-data-complexity-report.pdf>

* * *

Original text here: <https://www.netapp.com/newsroom/press-releases/news-rel-20240305-447040/>

[Category: BizComputer Technology]

Contact: Kenya Hayes, kenya.hayes@netapp.com; Kris Newton

NetApp, kris.newton@netapp.com

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Classification

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Publication-Type: Newswire

Subject: NEGATIVE TECHNOLOGY NEWS (96%); RANSOMWARE (93%); CYBERCRIME (92%); **ARTIFICIAL INTELLIGENCE** (90%); ASSOCIATIONS & ORGANIZATIONS (90%); CYBEREXTORTION (90%); MALICIOUS SOFTWARE (90%); CYBERATTACKS (89%); BUSINESS OPERATIONS (78%); PRESS RELEASES (78%); TECHNOLOGY (78%); CRITICAL INFRASTRUCTURE (77%); MALWARE ANALYSIS (77%); MACHINE LEARNING (76%); SUPPLY CHAIN DISRUPTIONS (71%)

NetApp Fights Ransomware in Real-Time With Built-In Artificial Intelligence on Enterprise Storage and
Enhanced Cyber-Resiliency Solutions

Company: NETAPP INC (90%)

Ticker: NTAP (NASDAQ) (90%)

Industry: NAICS541512 COMPUTER SYSTEMS DESIGN SERVICES (90%); NAICS334112 COMPUTER STORAGE DEVICE MANUFACTURING (90%); RANSOMWARE (93%); CYBERCRIME (92%); **ARTIFICIAL INTELLIGENCE** (90%); CYBEREXTORTION (90%); DATA STORAGE TECHNOLOGY (90%); MALICIOUS SOFTWARE (90%); CYBERATTACKS (89%); DATA SECURITY (89%); INFORMATION MANAGEMENT (89%); INFORMATION SECURITY & PRIVACY (89%); MALWARE DETECTION & MITIGATION (89%); DATA GOVERNANCE & STEWARDSHIP (78%); MALWARE ANALYSIS (77%); MACHINE LEARNING (76%); COMPUTER SOFTWARE (73%)

Geographic: SAN JOSE, CA, USA (59%); CALIFORNIA, USA (74%)

Load-Date: March 6, 2024

End of Document

NetApp Fights Ransomware in Real-Time with Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions Amid increasing ransomware...

NetApp Fights Ransomware in Real-Time with Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions; Amid increasing ransomware threats, new capabilities expand NetApp leadership in providing the quickest response and recovery to cyber disasters

Business Wire

March 5, 2024 Tuesday 1:00 PM GMT

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Length: 1334 words

Dateline: SAN JOSE, Calif.

Body

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Additional Resources

- [*The Most Secure Storage on the Planet Gets Even Better*](#)

NetApp Fights Ransomware in Real-Time with Built-In Artificial Intelligence on Enterprise Storage and Enhanced Cyber-Resiliency Solutions Amid increasing ransom....

- [Unveiling NetApp SnapCenter 5.0](#)

About NetApp

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<http://www.businesswire.com>

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Language: ENGLISH

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Company: NETAPP INC (90%); CA-NETAPP

Ticker: NTAP (NASDAQ) (90%); NTAP (NASDAQ)

NetApp Fights Ransomware in Real-Time with Built-In Artificial Intelligence on Enterprise Storage and
Enhanced Cyber-Resiliency Solutions Amid increasing ransom....

Industry: NAICS541512 COMPUTER SYSTEMS DESIGN SERVICES (90%); NAICS334112 COMPUTER STORAGE DEVICE MANUFACTURING (90%); RANSOMWARE (93%); CYBERCRIME (92%); **ARTIFICIAL INTELLIGENCE** (90%); CYBEREXTORTION (90%); MALICIOUS SOFTWARE (90%); CYBERATTACKS (89%); DATA SECURITY (89%); DATA STORAGE TECHNOLOGY (89%); INFORMATION MANAGEMENT (89%); INFORMATION SECURITY & PRIVACY (89%); MALWARE DETECTION & MITIGATION (89%); DATA GOVERNANCE & STEWARDSHIP (78%); MALWARE ANALYSIS (78%); MACHINE LEARNING (77%); Software (%); Technology (%); Data Management (%); Security (%)

Geographic: SAN JOSE, CA, USA (59%); CALIFORNIA, USA (91%); NORTH AMERICA (79%); UNITED STATES (79%); California; United States; North America

Load-Date: March 7, 2024

End of Document

Senate Joint Economic Committee Committee Hearing; "Artificial Intelligence and Its Potential to Fuel Economic Growth and Improve Governance."; Testimony by Adam Thierer, Resident Senior Fellow, Technology and Innovation, R Street Institute, Washington, DC

Congressional Documents and Publications

June 4, 2024

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Section: U.S. SENATE DOCUMENTS

Length: 12803 words

Body

Chairman Heinrich, Vice Chairman Schweikert, and members of the Committee:

Thank you for the invitation to participate in this important hearing on "**Artificial Intelligence** and Its Potential to Fuel Economic Growth and Improve Governance." My name is Adam Thierer, and I am a senior fellow at the R Street Institute, where I focus on emerging technology issues. I also recently served as a commissioner on the U.S. Chamber of Commerce's Commission on **Artificial Intelligence** Competitiveness, Inclusion, and Innovation. n1

Today I will discuss three points relevant to this hearing:

1. First, **AI** and advanced computational technologies can help fuel broad-based economic growth and sectoral productivity while also improving consumer health and welfare in important ways.
2. Second, to unlock these benefits, the United States needs to pursue a pro-innovation **AI** policy vision that can also help bolster our global competitive advantage and geopolitical security.
3. Third, we can advance these goals through an **AI** Opportunity Agenda that includes a learning period moratorium on burdensome new **AI** regulations.

I will address each point briefly, but I have included three appendices to my testimony offering more details.

AI Could Drive Economic Growth, Increase Sectoral Productivity, and Improve Human Well-Being

AI is set to become the "most important general-purpose technology of our era," and **AI** could revolutionize every segment of the economy in some fashion. n2 The potential exists for **AI** to drive explosive economic growth and productivity enhancements. n3 While predictions vary, analysts forecast that **AI** could deliver trillions in additional global economic activity and significantly boost annual GDP growth. n4 This would be over and above the \$4 trillion of gross output that the U.S. Bureau of Economic Analysis says the U.S. digital economy already accounted for in 2022. n5 [See Appendix I]

But what really matters is what **AI** means for every American personally. **AI** is poised to revolutionize health outcomes, in particular. **AI** is already helping with early detection and treatment of cancers, strokes, heart disease,

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brain disease, sepsis, and other ailments. AI is also helping address organ failure, paralysis, vision impairments, and much more. The age of personalized medicine will be driven by AI advancement. [See Appendix 2]

AI can help make government more efficient, too. n6 Ohio Lt. Gov. Jon Husted recently used an AI tool to help sift through the state's code of regulations and eliminate 2.2 million words' worth of unnecessary and outdated regulations. n7 California Gov. Gavin Newsom just announced an effort to use generative AI tools to improve public services and cut n8 percent from the state's government operations budget.⁸ And regulators are using AI to facilitate compliance with existing policies, such as post-market medical device surveillance. n9

AI also holds the potential to achieve administrative savings for federal health insurance programs or, better yet, reduce the number of people dependent on them by identifying and treating ailments earlier. n10

Computational Freedom Is Important for America's Geopolitical Competitiveness and Security

There is an important connection between AI and broader national objectives. A strong technology base is a key source of strength and prosperity, so it is essential that we do not undermine innovation and investment as the next great technological race gets underway with China and the rest of the world. n11

Luckily, U.S. AI innovators are still in the lead. Had a Chinese operator launched a major generative AI model first, it would have been a "Sputnik moment" for America. Still, China has made its imperial ambitions clear with a goal to become the global leader in advanced computation by 2030, and it has considerable talent, data, and resources to power those ambitions. n12 Experts argue that "China's whole-of-society approach is challenging America's traditional advantages" in advanced technology. n13

We need a pro-innovation national AI policy that will not only strengthen our economy and provide better products and jobs, but also bolster national security and allow our values of pluralism, personal liberty, individual rights, and free speech to shape global information platforms and markets. n14

If fear-based policies impede America's AI development and diffusion, then China wins. n15

Protect the Freedom to Innovate with an "AI Opportunity Agenda"

To achieve the benefits AI offers and meet the rising global competition, America needs an AI Opportunity Agenda.

An AI Opportunity Agenda begins by reiterating that the freedom to innovate is the cornerstone of American technology policy and the key to unlocking the enormous potential of our nation's entrepreneurs and workers. n16

As part of this Agenda, Congress should craft a learning period moratorium on new proposals, such as new AI-specific bureaucracies, licensing systems, or liability schemes, all of which would be counterproductive and undermine our nation's computational capabilities. [See Enclosure I]

In addition, this moratorium should preempt burdensome state and local regulatory enactments that conflict with our national AI policy framework. n17

Next, Congress should require our government's existing 439 federal departments to evaluate their current policies toward AI systems with two purposes in mind. First, to ensure that they are not over-burdening algorithmic systems with outdated policies, and second, to determine how existing rules and regulations are capable of addressing the concerns that some have raised about AI. Taking inventory of existing rules and regulations can then allow policymakers to identify any gaps that Congress ought to address using targeted remedies.

Finally, an AI Opportunity Agenda requires an openness to new talent and competition. n18 With experts finding that a "talent war is brewing between the US and China," and that China is moving ahead in some important ways, we must take steps to attract and retain the world's best and brightest data scientists and computer engineers. n19

Conclusion

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In sum, America's AI policy should be rooted in patience and humility instead of a rush to over-regulate based on hypotheticals and worst-case thinking. n20 We are still very early in the AI lifecycle, and there is still no consensus on how to define the term, let alone legislate beyond establishing definitions. n21

To ensure America leads this next great technological revolution, Congress must once again uphold the freedom to innovate and craft a flexible, risk-based AI policy vision to ensure we can meet global competition, advance economic opportunity, and improve the well-being of every citizen.

Thank you for holding this hearing and for your consideration of my views. I look forward to any questions you may have.

See pages 6-12 for Appendix 1, "How AI Could Drive Economic Growth and Sectoral Productivity."

See pages 13-21 for Appendix 2, "AI's Potential for Improving Medicine and Health Outcomes."

See pages 22-25 for Enclosure 1, "Getting AI Policy Right Through a Learning Period Moratorium," R Street Institute, May 29, 2024. <https://www.rstreet.org/commentary/getting-ai-policy-right-through-a-learning-period-moratorium>.

Appendix 1: How AI Could Drive Economic Growth and Sectoral Productivity

Over the past half century, there have been waves of both great excitement and disillusionment about the prospects for AI advancement. n22 AI historians often speak of the many AI "springs" and "winters"--what one might think of as AI booms and busts--that have come and gone. n23

It did not help that some of AI's early pioneers over-exuberantly predicted that powerful "superintelligence" would be with us in short order. In the late 1960s, for example, noted AI researchers confidentially predicted that "machines will be capable, within twenty years, of doing any work a man can do," (Herbert A. Simon), and that "[i]n from three to eight years we will have a machine with the general intelligence of an average human being" (Marvin Minsky). n24 Such exuberance was replaced by pessimism in the 1970s, resulting in a "winter" period for AI research and investment.

Today, however, AI is generally thought to be in the midst of another spring as enthusiasm grows around specific capabilities and applications. Economists predict that AI is set to become the "most important general-purpose technology of our era." n25 General-purpose technologies will become intertwined with almost every other economic sector and used ubiquitously throughout society. n26 These developments are coming about because we live in an era of rapid-fire combinatorial innovation in which new technologies are building on top of one another in a symbiotic fashion, further accelerating their development and sophistication. n27

Improving Many Sectors, Including Government

The power of algorithmic technologies is all around us in products and services such as speech and image recognition tools on our smartphones and the recommender systems many media providers and other companies use to tailor goods, services, and content to our interests. AI will be used by almost all organizations to help improve analytics and marketing, enhance customer service, and boost sales or performance in various new ways. And it will completely upend the way production and work is done in countless fields and professions.

AI and ML capabilities are operating behind the scenes to help with fraud and spam detection, computer virus filtering, content management/moderation, n28 mapping/navigation, n29 travel planning, n30 weather forecasting and natural disaster prediction, n31 warehouse automation/inventory management, n32 supply chain management, n33 and various other logistics. n34 For example, in 2021, McKinsey and Company estimated that "[s]uccessfully implementing AI-enabled supply-chain management has enabled early adopters to improve logistics costs by 15 percent, inventory levels by 35 percent, and service levels by 65 percent, compared with slower-

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moving competitors." n35 These productivity enhancements will likely accelerate as algorithmic techniques are further refined.

AI and ML capabilities also power most of the devices that make up the so-called Internet of Things and various connected "smart" devices, including many wearable technologies and other devices with embedded sensors. n36 Another related term here is ambient computing n37 or ubiquitous computing, which essentially means "using computers without knowing that you are using one," or using smart systems without explicitly calling them computers. n38 These technologies have powerful health and medical applications, among other things.

Meanwhile, various AI-powered robotic technologies are already at work in many industrial sectors. n39 AI, ML, and advanced robotics technologies promise to revolutionize many fields including advertising and marketing, n40 agriculture, n41 archeology, n42 auto safety, n43 aviation, n44 education, n45 endangered species protection, n46 energy and climate solutions, n47 entertainment, n48 financial services, n49 legal services, n50 retail, n51 transportation, n52 and others. n53 Going forward, every segment of the economy will be touched by AI and robotics in some fashion; therefore, it should be equally clear that public policy will be transformed in the process.

AI will affect government processes, too. n54 In April 2024, Ohio Lt. Gov. Jon Husted used an AI tool to help sift through the state's code of regulations and eliminate 2.2 million words' worth of unnecessary and outdated regulations. n55 In May 2024, California Gov. Gavin Newsom announced an effort to use generative AI tools to improve public services and cut 8 percent from the state's government operations budget. n56 AI is also being used by regulators to facilitate compliance with existing policies. For example, the U.S. Food and Drug Administration (FDA) has been using AI for post-market medical device surveillance. n57

AI, Economic Growth, and Productivity Gains

The potential exists for AI to drive explosive economic growth and productivity enhancements. n58 While predictions vary, most analysts believe that "AI will have a significant economic impact." n59

. According to Grand View Research, a market research and consulting company based in India and the United States, the global AI market was valued at \$93.5 billion in 2021 and is projected to expand at a compound annual growth rate of 38.1 percent from 2022 to 2030. n60

. A 2018 McKinsey study estimated that "AI has the potential to deliver additional global economic activity of around \$13 trillion by 2030, or about 16 percent higher cumulative GDP compared with today. This amounts to 1.2 percent additional GDP growth per year." n61 In the summer of 2023, McKinsey released another study estimating that generative AI alone could add up to \$4.4 trillion of value to the global economy annually. n62

. An earlier PwC report forecast a \$15.7 trillion potential contribution to the global economy by 2030. n63

. A 2023 Goldman Sachs report predicted AI could help boost U.S. labor productivity by 1.5 percentage points each year, while Peterson Institute for International Economics estimates AI will add an additional 1.0 percentage points to productivity growth over the 2025-2028 timeframe. n64 Goldman also says generative AI could drive a 7 percent (or almost \$7 trillion) increase in global GDP over a 10-year period. n65

. Another leading economist with a specialization in technology argues that AI will double productivity in the coming decade. n66

Even if AI's economic impact falls far short of those estimates, it would still generate enormous growth opportunities across many segments of the economy. AI is also invigorating new types of tech competition, especially from open-source players and platforms. n67 It also promises to benefit small businesses by creating new products and jobs. A U.S. Chamber of Commerce report finds that 87 percent of small businesses reported increased efficiency due to new technology platforms and that one in four small businesses are already using AI. n68

The Past Can Be Prologue

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If this potential for explosive growth still sounds outlandish, consider that, in 1998, Nobel Prize-winning economist Paul Krugman infamously predicted that the internet's impact on the global economy would be "no greater than the fax machine's." n69 President Bill Clinton thought differently, predicting that the internet's potential was "nothing short of revolutionary" and that "[i]n just a few years, it will generate hundreds of billions of dollars in goods and services." n70

Clinton's optimism was vindicated. Electronic commerce exploded, and digital innovation became the foundation of significant economic growth, new jobs, and boundless speech opportunities. According to the U.S. Bureau of Economic Analysis, in 2022, the U.S. digital economy accounted for over \$4 trillion of gross output, \$2.6 trillion of value added (translating to 10 percent of U.S. GDP), \$1.3 trillion of compensation, and 8.9 million jobs. n71

These astonishing results came about thanks to wise bipartisan public policies formulated by the Clinton administration and a Republican-led Congress. n72 Freedom to innovate was America's policy default for digital services, and burdensome state regulations (and even taxes) were preempted to a degree. n73 Federal policymakers made a firm break with the old regulatory models of the analog era, which had constrained competition. The results speak for themselves. In addition to generating remarkable economic output and opportunity, this approach resulted in global dominance of digital technology markets. Today, 18 of the 25 largest digital companies in the world are U.S.-based, and it is difficult to name any from Europe. n74 In essence, as a recent

Wall Street Journal headline observed, the European Union now "regulates its way to last place" on digital technology. n75

This should serve as a cautionary tale for U.S. policymakers. America got policy right for the internet, but the sort of approach adopted for AI remains to be seen. If we want U.S. firms to once again lead the world--and help counter China's looming influence on AI markets in particular--it is essential for policymakers to strike the right policy balance once again. n76

Appendix 2: AI's Potential for Improving Medicine and Health Outcomes

AI is already revolutionizing the field of healthcare and the practice of medicine. n77 Increasingly powerful algorithmic systems--often combined with new wearable technologies--are already helping many people better monitor their health and fitness. n78 Generative AI tools will also supplement remote medicine with virtual health care assistants. n79 More sophisticated AI tools are allowing doctors and scientists to create highly personalized care options and develop new medical treatments tailored to the unique needs of each patient. n80 As two medical experts and authors of The Age of Scientific Wellness have noted, "those who fold these systems into their practices will be doing their patients (and themselves) a great service" because "they are akin to having not one expert but thousands upon thousands, all working together at top speed. Because AI is generally inexpensive to run once it has been developed, the potential for optimizing care and making it radically cheaper is striking." n81

AI and ML-enabled technologies are already having a profound impact on public health. Machine learning refers to the processes by which a computer can train and improve an algorithm or computer model without step-by-step human involvement. n82

In 2022, for example, an AI technology from Google DeepMind called AlphaFold was able to model the structure of nearly all known proteins, representing "a significant advance in biology that will accelerate drug discovery and help address problems such as sustainability and food insecurity." n83 Researchers from the Fundamental AI Research Team at Meta have a competing ML-created database of 617 million predicted protein structures. n84 These advances are leading to what some researchers call a "protein design revolution" driving "the next quantum leap in the biotech industry," which could completely transform medicine. n85 This competition continues, as DeepMind announced the latest and more powerful iteration of AlphaFold in April 2024. n86

A Broad Range of Health Benefits

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AI, ML, and robotics are driving many other major medical advances today, becoming a crucial part of early detection of various ailments and diseases. n87 "Artificial-intelligence algorithms are processing vast troves of data in electronic medical records, searching for patterns to predict future outcomes and recommend treatments," notes a Wall Street Journal medical reporter. n88 "They are creating early-warning systems to help hospital staff spot subtle but serious changes in a patient's condition that aren't always visible or noticed in a busy unit, and predicting which patients about to be discharged from the hospital are at highest risk of being readmitted." n89

Here are some other specific examples of how AI, ML, and robotics technologies are already advancing medical science and helping improve health outcomes.

. Organ donation: In the field of organ donations, "[p]aired kidney donation is one of the great success stories of artificial intelligence," helping doctors and patients by taking "an incredibly complex problem and solves it faster and with fewer errors than humans can, and saving more lives as a result." n90

. Heart attack detection and treatment: AI and ML tools are helping detect and treat heart disease and heart attacks, a leading cause of death globally. n91 Scientists at Cedars-Sinai developed an algorithmic tool in 2022 that can quantify coronary plaque buildup in five to six seconds compared to at least 25 to 30 minutes before. n92 This will greatly improve the ability to predict who will have a heart attack. Other researchers have developed AI tools to help improve personalized treatment for women who have had heart attacks. n93 Women who suffer a heart attack have a higher mortality rate than men, often because their symptoms are not properly understood or diagnosed. Meanwhile, the British National Health Service recently started using a new AI tool that can detect heart disease in just 20 seconds while patients are in an MRI scanner, compared with the 13 minutes or more it usually takes doctors to analyze images manually after performing a scan. n94

. Cancers: President Richard Nixon declared a national "war on cancer" over 50 years ago. n95 More recently, the Obama and Biden administrations pushed for a "cancer moonshot." n96 Unfortunately, cancers remain the second leading causes of death in the United States, n97 claiming 602,350 lives in 2020 alone. n98 AI and ML-enabled technologies are poised to help reduce that staggering death toll. Mayo Clinic researchers have shown how ML models can help diagnose and treat pancreatic cancer at an earlier stage. n99 Pancreatic cancer is the third leading cause of cancer deaths, claiming 46,774 lives in 2020. n100 British scientists have recently reported on new AI software that can spot signs of pre-cancer during endoscopies in 92 percent of patients, which could significantly lower deaths from esophageal cancer. n101 AI/ML techniques are also helping with early detection and treatment of lung cancer, n102 breast cancer, n103 brain cancer, n104 cervical cancer, n105 and many other types of cancer n106 (including undiagnosable cancers n107), aided by increasingly personalized screening techniques. n108 The FDA has started approving more AI-powered medical devices that can help facilitate early detection of the most prevalent cancers. n109 AI-enabled cancer detection tools can help alleviate some of the workload that human radiologists and other cancer doctors face. n110

. Sepsis and superbugs: Recent medical studies have also documented how AI-powered monitoring systems are helping detect antibiotic-resistant "superbugs" n111 and sepsis, n112 saving thousands of lives each year as a result. Roughly 1.7 million adults develop sepsis each year in the United States, and more than 250,000 of them die. m113 Researchers find that the use of AI "dramatically cuts the time it takes to sort through thousands of promising compounds" to fight drug-resistant pathogens. n114

. Paralysis: The Christopher and Dana Reeve Foundation has estimated that nearly 1 in 50 people in the United States are living with paralysis. n115 The combination of AI and robotic technologies holds promise for helping paralyzed individuals regain certain motor functions. n116 In May 2023, a Dutch man paralyzed from the waist down for more than a decade regained his ability to walk thanks to brain and spine implants and an AI-enabled thought decoder that helped him translate electrical brain signals into muscle movement. n117 He is now able to walk around his own home and get in and out of a car on his own. A paralyzed American man regained his sense of touch and mobility thanks to similar AI-enabled brain implants. n118 AI and ML capabilities are powering other brain-machine implants that are helping address disabilities in other ways, including regaining the ability to speak after a stroke. n119 And The New York Times recently documented how a woman who lost her arm in an accident

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is now able to control her new prosthetic robotic arm thanks to advances in AI and sensors embedded in her body. n120

. Mental health and drug addiction: AI can help identify and address mental health problems through textual analysis, which can supplement human-based analysis at a time when there is a nationwide shortage of health care workers in this area. n121 AI tools are also being tapped to help find novel drugs that can help counter opioid addiction, which has become a chronic problem in recent years. n122

There are many other current or potential health-related applications for algorithmic technologies, including abnormal chest X-ray detection, n123 AI-powered ultrasounds, n124 new drug and vaccine discovery, n125 and detecting and addressing eye disease and blindness. n126 In April 2024, the National Institutes of Health announced a new breakthrough in AI retinal imaging that produces high-resolution images of cells in the eye 100 times faster and with a 3.5-fold improvement in image contrast. n127 AI and ML will power other advanced learning capabilities that will help doctors and scientific researchers access and understand massive amounts of patient and health data and put it to even better use. These same capabilities will help innovators create new personalized health monitoring and tracking systems for the public. n128

AI Will Help Doctors, Nurses, and Scientists Advance Treatments

In 2022, I served as a member of the U.S. Chamber of Commerce's "AI Commission on Competition, Inclusion, and Innovation," a group formed to study AI governance. At a spring 2022 field hearing, our Commission heard remarks from Cleveland Clinic CEO and President Tom Mihaljevic, MD and several of his colleagues. n129 These doctors and scientists highlighted how they were already using AI/ML to improve patient care and save lives. They noted how teams of doctors and researchers are now able to share information from tissue samples with much larger teams of medical experts, who can--with the help of algorithmic systems--work together at a distance to better understand and use all the information at their fingertips. Additionally, along with other medical centers, the Clinic has developed better AI-driven methods to detect irregular heartbeats and strokes and to diagnose degenerative brain diseases like Alzheimer's, dementia, and Parkinson's. n130

This only scratches the surface of what AI/ML will mean for patient care. n131 Dr. Mihaljevic noted that, when he started practicing medicine in the 1980s, the overall volume of medical information doubled roughly every seven years; today, it doubles every 73 days. n132 Meanwhile, 7,000 medical papers are published every day. n133 A recent study in Science shows that, in the closely related field of medical robotics, the number of scientific papers has grown exponentially from less than 10 published in 1990 to more than 5,200 in 2020. n134 These numbers align with broader trends in technical and scientific literature. "Since the scientific literature doubles roughly every 12 years, this means that of all scientific work ever produced, half of it has been produced in the last 12 years," note the authors of The Science of Science. n135

The only way to take full advantage of this explosion of knowledge is with the power of machine-reading and -learning technologies. As the National Cancer Institute summarizes, "what scientists are most excited about is the potential for AI to go beyond what humans can currently do themselves. AI can 'see' things that we humans can't, and can find complex patterns and relationships between very different kinds of data." n136 The authors of The Age of Scientific Wellness speak of the rise of 'centaur doctors' who, combining the best parts of human intelligence and AI assistance, will be empowered to make bold medical decisions with far fewer unintended consequences." n137 Further, AI assistants can help address the significant paperwork and filing burdens today's doctors and nurses face, freeing up time for patient care and research. n138

In the process, AI/ML will also help share medical knowledge across far more institutions and reach more patients as a result. Dr. Mihaljevic estimated that the Cleveland Clinic--one of the most important medical research facilities in the nation--is only able to reach an estimated 1.5 percent of Americans using traditional means of care. ML and AI can change that equation by greatly expanding opportunities for Americans to access the benefits of scientific knowledge and medical care from the Cleveland Clinic and America's many other world-class medical facilities, labs, and universities. Dr. Mihaljevic specifically highlighted AI's key role in improving home-based medical care,

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which will become an essential way to help a rapidly aging population in the future, regardless of where they live. n139 AI will also become crucial for various surgeries, improving outcomes when operations are necessary (often through robotic-assisted surgery) n140 or, better yet, avoiding the need for invasive procedures altogether. n141 Robotic surgery at a distance is also becoming possible thanks to recent advances. n142

Conclusion

Policymakers should not underestimate the importance of AI/ML technology and must work diligently to ensure America remains a leader in this field. While some experts predict another AI winter could be coming following some notable narrow AI disappointments, they oftentimes fail to identify how public policy influences that outcome. n143 The overall amount of innovation we can expect to flow from this space is fundamentally tied up in the question of whether or not America creates the right innovation culture for AI. n144 To achieve its full potential and bring about the "AI revolution in medicine" that some predict, America will need to set its policy defaults in such a way that encourages innovation while addressing the many legitimate concerns about various AI capabilities. n145

While some artificial intelligence (AI) critics want to pause AI development, the pause most needed today is on overzealous regulatory proposals that could kneecap America's lead in computational science and algorithmic technologies. With over 700 federal and state AI legislative proposals threatening to drown AI innovators in a tsunami of red tape, Congress should consider adopting a "learning period" moratorium that would limit burdensome new federal AI mandates as well as the looming patchwork of inconsistent state and local laws.

The time to do so is now, with the race for AI supremacy against China intensifying and other nations investing heavily to counter the United States. Handcuffing our AI innovators with layers of red tape would diminish domestic entrepreneurialism and investment, deny citizens many life-enriching innovations, and limit economic growth. Equally worrisome is how overregulation could undermine our technology base and potentially even our national security.

Mountains of Red Tape

Unfortunately, many lawmakers seem oblivious to these dangers, floating extreme AI proposals premised on far-fetched hypotheticals and dystopian sci-fi plots. Such fear-based thinking has led states to propose far-reaching controls on algorithmic technologies. Colorado just became the first state to advance a comprehensive AI regulatory measure, which Gov. Jared Polis (D) signed even though he worried state regulations like his could create "a complex compliance regime for all developers and deployers of AI" and a patchwork of mandates that will "tamper innovation and deter competition." California is also rapidly advancing a major bill that would impose onerous restrictions on "frontier" AI models and create a new bureaucracy to administer the rules.

Overregulation also looms at the federal level, with more than 100 AI-related measures pending in Congress. The Biden administration is simultaneously pursuing unilateral regulation on AI through its "Blueprint for an AI Bill of Rights," a massive 110+ page executive order, and a litany of new agency directives premised on vague notions of "algorithmic fairness."

Most of these efforts are premised on the notion that government can preemptively legislate "responsible AI" by forcing innovators to run new ideas through a maze of bureaucrats to get a permission slip before innovating. Earlier this year, a top Biden administration tech official called for "a system of AI auditing from the government," and suggested the need for "an army of auditors" to ensure "algorithmic accountability." The resulting layers of technocratic meddling could lead to a death-by-a-thousand-cuts scenario for AI developers.

Undermining a Winning Formula

This is the exact opposite of the more flexible, market-driven approach the Clinton administration and Congress wisely crafted in the 1990s for the internet, digital commerce, and online speech. Rooted in policy restraint, that framework protected the freedom to innovate without first needing some bureaucrat's blessing to launch the next great application or speech platform.

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If American innovators and values are to shape today's most important technology, we must not shoot ourselves in the foot as the global AI race heats up. Congress should pause overzealous micromanagement before it is too late. In the past, lawmakers have used forbearance requirements and moratoriums to protect innovation and competition, albeit to varying effect.

The Telecommunications Act of 1996 specified that "[n]o State or local statute or regulation, or other State or local legal requirement, may prohibit or have the effect of prohibiting the ability of any entity to provide any interstate or intrastate telecommunications service." The law included other specific preemptions of state and local regulation, as well as a provision requiring the Federal Communications Commission (FCC) and state regulators to forbear from regulating in certain instances to enhance competition.

Another portion of the Communications Act meant to "encourage the provision of new technologies and services to the public" specifies that any party who opposes innovations "shall have the burden to demonstrate that such proposal is inconsistent with the public interest" and forces the FCC to make a decision within a year. Sadly, the FCC mostly ignores both this provision and the Telecom Act's forbearance requirements, continuing to overregulate communications and media markets instead.

Federal moratoria have been more effective in protecting new technologies from bureaucratic meddling and excessive taxes. Congress passed the Internet Tax Freedom Act of 1998 (made permanent in 2016) to contain the spread of "multiple and discriminatory taxes on electronic commerce" and internet access. Similarly, the Commercial Space Launch Amendments Act of 2004 made sure federal regulators did not undermine the nascent market for commercial human spaceflight.

How to Structure an AI Moratorium and Preemption

These and other laws could provide a template for how to craft a moratorium or preemption for AI regulation. An AI learning period moratorium should block the establishment of any new general-purpose AI regulatory bureaucracy, disallow new licensing schemes, block open-ended algorithmic liability, and preempt confusing state and local regulatory enactments that interfere with the establishment of a competitive national marketplace in advanced algorithmic services.

An AI learning period moratorium would have many benefits. First, it would create breathing space for new types of algorithmic innovation to grow. This is especially important for smaller AI firms and the open-source AI marketplace, both of which could be decimated by premature overregulation of a still-developing sector.

Second, an AI regulatory moratorium would give policymakers and technology experts the chance to determine what problems deserve greater scrutiny and potential regulation. This pragmatic policy approach would limit damage from rash decisions and help us gain knowledge by testing predictions and policies before advancing new rules.

A learning period moratorium on new AI regulations does not mean zero regulation, however. Many existing laws and regulations already cover any AI-enabled practices that violate civil rights, consumer protections, the environment, intellectual property, and national security. Policymakers can still enforce those policies where harms exist and fill gaps as necessary, or they can use less restrictive approaches like transparency and education-based measures.

A federal AI preemption standard will need to include carve-outs for some areas of traditional state authority including education, insurance, and law enforcement. But regulatory preemption will be challenging because, as the "most important general-purpose technology of our era," AI touches almost every field. For better or worse, some sectors and issues must be left to the province of state and local governments.

Where a national framework proves untenable, state and local governments should craft harmonized light-touch frameworks--perhaps in the form of multistate compacts--to avoid burdening the development of a robustly competitive and innovative national marketplace in AI firms and technologies.

Review Existing Regulatory Capacity

When formulating an **AI** moratorium, Congress should simultaneously demand that our government's 439 federal departments be required to do two other things. First, agencies should study and review existing policies that might already address algorithmic innovation in their field and consider how **AI** systems might already be overregulated under current law. Second, agencies should identify additional ways in which **AI** technologies might help improve government services. (It would be wise for state and local governments to engage in a similar review, although it need not be mandated by federal law).

The Trump administration's Office of Management and Budget (OMB) recommended some of these ideas to agency heads in a November 2020 guidance memo. "Federal agencies must avoid regulatory or non-regulatory actions that needlessly hamper **AI** innovation and growth," the OMB memo ordered. "Fostering **AI** innovation and growth through forbearing from new regulation may be appropriate," and "agencies must avoid a precautionary approach that holds **AI** systems to an impossibly high standard such that society cannot enjoy their benefits and that could undermine America's position as the global leader in **AI** innovation."

Unfortunately, in the wake of recent Biden administration orders and statements, agencies have instead been encouraged to consider how to expand their regulatory ambitions toward **AI**, even though Congress has not authorized such actions.

Conclusion

For the United States to remain the global leader in algorithmic technologies and computational capabilities, **AI** policy must be rooted in patience and humility rather than a rush to overregulate. Policymakers must avoid locking down America's innovative potential and instead pause the panic-based **AI** regulatory policies under consideration today.

It is essential that our nation get the policy prerequisites of growth and prosperity right by once again embracing an innovation culture that positions us as the global leader in advanced computation as the next great technological race with China and the rest of the world heats up.

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(TNSres) -- The University of Washington's School of Medicine issued the following news release:

* * *

In a paper, academic ethicists criticize tech leaders and others who emphasize calamity thinking with **artificial intelligence**.

* * *

Tech-industry leaders and spotlight-seeking luminaries are monopolizing global discourse about **artificial intelligence (AI)**, and often conveying that its adoption carries catastrophic risks beyond humans' comprehension. Domsayers claim that **AI** carries "an adverse outcome so bad (that) it would either annihilate Earth-originating intelligent life or permanently or drastically curtail its potential."

These projections of distant-future disasters -- and the media reporters who invite them -- do a disservice to the public by taking the focus away from societal problems that **AI** is causing today, and from consideration of **AI**'s benefits.

A group of ethicists argue these points in an open-access article published this month in the Journal of Medical Ethics. Lead author Nancy Jecker is a professor of bioethics at the University of Washington School of Medicine.

"Existential risk, which we call 'X-Risk,' refers to activities that threaten grave dangers to humanity, like nuclear weapons, climate change and emerging infectious diseases," she said. "These have tremendous capacity to wipe out large numbers of people and undermine human well-being. We approach them with a balanced risk assessment that includes risks occurring today."

With **AI**, here-and-now concerns involve algorithmic bias leading to gender and racial discrimination, **AI**-generated child sexual abuse, labor exploitation, especially in poorer countries, and displacement of human creative work. Misinformation during this election year is another major concern, Jecker said.

University of Washington School of Medicine: Sky-is-Falling Scenarios Distract From Risks AI Poses Today

Media outlets looking for headline clicks are tempted to instead emphasize **AI** debates that raise the specter of distant **disaster**, she suggested. Likewise, technology leaders who have financial stakes in **AI**'s development know that ratcheting up public fears about far-off calamities can eclipse consideration of **AI**'s present harms.

"What I'm most concerned about is what's not being said and where the spotlight isn't," Jecker offered. "Most people in the tech industry don't need to personally worry about being declined for a job or a bank loan because of a sexist or ableist algorithm, or not being considered for parole because of a racist algorithm."

Technology workers, especially leaders, are overwhelmingly white men without disabilities, and this standpoint informs their ethics assessments, she suggested.

The authors wrote the paper with the hope of broadening **AI** ethics conversation to include not only technologically aware voices but also those who are historically marginalized and whose opportunities are at risk.

The paper cited a Stanford University 2023 analysis of scholarly **AI** ethics literature that saw a shift away from academic authors and toward authors with tech-industry affiliations; tech authors produced 71% more publications than academics between 2014 and 2022.

"Tech workers lack formal training in ethics," Jecker said. "They can tell us about choices to be made within **AI**, but they shouldn't lead ethics debates in the public square. Not only are tech leaders not trained to do so, but they also have a conflict of interest, given their work in that industry."

One example of positive direction for **AI** discourse, Jecker said, is the public-private partnership just announced by the University of Washington and the University of Tsukuba in Japan, with private sector investment by Amazon, Nvidia and other companies. The project aims to further research, entrepreneurship, workforce development and social implementation of **artificial intelligence**

"We need to engage in cross-border efforts that involve diverse groups from different sectors of society to come together to work through complex issues," Jecker said.

Catastrophe-fixated comments can also divert attention from **AI** benefits in areas like medicine, the authors wrote. They referenced **AI**'s ability to help radiologists identify high-risk patient cases, to advance precision medicine based on genomic analysis, and to scour large datasets to better predict patient outcomes.

"A balanced approach to **AI** must weigh benefits as well as risks," Jecker said.

* * *

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Subject: ACCIDENTS & DISASTERS (92%); ENVIRONMENT & NATURAL RESOURCES (92%); MACHINE LEARNING (91%); NATURAL DISASTERS (91%); NEGATIVE NEWS (91%); **ARTIFICIAL INTELLIGENCE** (90%); CLIMATE CHANGE (90%); EDUCATIONAL SOFTWARE (90%); ENVIRONMENTAL ASSESSMENT (90%); NEGATIVE ENVIRONMENTAL NEWS (90%); RISK MANAGEMENT (90%); SAFETY, ACCIDENTS & DISASTERS (90%); TRADEMARKS (90%); WEATHER (90%); WEATHER SENSORS (90%); CLIMATOLOGY (89%); DEEP LEARNING (89%); METEOROLOGY (89%); EARTH & ATMOSPHERIC SCIENCE (75%); POLLUTION & ENVIRONMENTAL IMPACTS (75%); TECHNOLOGY (75%); SCIENCE & TECHNOLOGY (74%); SCIENCE FUNDING (71%); GLOBAL WARMING (68%); EXPERIMENTATION & RESEARCH (67%)

Industry: MACHINE LEARNING (91%); **ARTIFICIAL INTELLIGENCE** (90%); COMPUTER SOFTWARE (90%); EDUCATIONAL SOFTWARE (90%); RISK MANAGEMENT (90%); WEATHER SENSORS (90%); AS A SERVICE (89%); DEEP LEARNING (89%); PLATFORM AS A SERVICE (89%); SOFTWARE AS A SERVICE (89%); SOFTWARE SERVICES & APPLICATIONS (89%); PHARMACEUTICALS & BIOTECHNOLOGY (75%); SOFTWARE DEVELOPMENT & ENGINEERING (70%); GLOBAL WARMING (68%)

Geographic: VIRGINIA, USA (91%); ITALY (58%)

Load-Date: August 14, 2024

End of Document

UAH Researcher Publishes Study Tapping Social Media and AI to Speed Supply Chain Assistance During Disasters

Targeted News Service

July 4, 2024 Thursday 9:20 AM EST

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Length: 715 words

Byline: Targeted News Service

Dateline: HUNTSVILLE, Alabama

Body

(TNSres) -- The University of Alabama issued the following news:

A doctoral candidate at The University of Alabama in Huntsville (UAH) is lead author of a new study in the International Journal of Production Research investigating the ways social media platforms can be leveraged with **artificial intelligence (AI)** to provide vital communication connecting victims of **disaster** to outside aid and support. Vishwa Vijay Kumar, a PhD student of Industrial & Systems Engineering and Engineering Management at UAH, a part of the University of Alabama System, teamed with fellow UAH co-researchers Dr. Avimanyu Sahoo and Dr. Sampson Gholston, as well as Kumar's mentor, Dr. Siva K. Balasubramanian of the Illinois Institute of Technology, to support the initiative.

For the project, the team used data from X, formerly known as Twitter, from two six-week time periods and two countries during the COVID-19 pandemic: March-April 2020 in the United States when the pandemic broke out, and in India during the surge of the delta variant in May-June 2021. Disruptions in health care supply chains during these periods were causing severe shortages of essential equipment ranging from face masks and medicines to ventilators for patients in intensive care.

"I was born and raised in the countryside of India, in Sitamarhi, Bihar, near the Nepal border, where natural disasters such as floods from the Himalayan rivers are frequent," Kumar says to explain the initial spark driving his vision to help. "These floods can spread over miles, trapping thousands of people in their homes who need urgent help for healthcare and food, as well as rescue operations. From a young age, I was driven to develop a framework that would enable people in need to communicate their requirements to the world and relevant authorities so they coordinate to assist **disaster** victims on time."

The COVID-19 pandemic in 2020 presented a **disaster** of a different kind, affecting billions of people worldwide and exposing significant vulnerabilities in global healthcare supply chains. Critical shortages of essential supplies like testing kits, oxygen cylinders and hospital beds highlighted the urgent need for efficient resource allocation and real-time information.

UAH Researcher Publishes Study Tapping Social Media and AI to Speed Supply Chain Assistance During Disasters

"This situation reignited my early motivation to explore how social media and **AI** could be harnessed for faster **disaster** response and to mitigate health and supply challenges during crises," Kumar says. "I discussed this idea with Dr. Sahoo, my PhD academic advisor."

The research that followed presented a four-step process and developed algorithms to parse information from 3.9 million tweets to identify imperative information using **AI** and machine learning. Keywords within Twitter posts were identified to indicate which tweets included information relevant to pandemic supply chain disruptions and processed them for content analysis and modeling. Tweets were categorized as "imperative," or actionable pleas for help, and "non-imperative," providing non-actionable information. The data analyzed also estimated the geographic location of imperative tweets lacking geo-tag information to facilitate coordination of aid operations.

Additionally, the researchers identified a number of healthcare supply chain challenges during **disaster** conditions that are the focus for future research. Topics included geo-location of people in need who posted their concerns on social media without identifying their location; forecasting COVID-19 vaccine supplies; forecasting the availability of health and food supplies; use of other social media (for example, Facebook, Instagram, etc.) and finding where these improvements would be applicable to other **disaster** events, such as hurricanes and earthquakes.

"We also plan to develop a platform/tool that will scan the social media posts from the **disaster** events and generate real-time reports of demand and supply issues and people with their geo-locations requesting help," Kumar concludes.

* * *

Original text here: <https://www.uah.edu/news/items/uah-researcher-publishes-study-tapping-social-media-and-ai-to-speed-supply-chain-assistance-during-disasters>

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Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: ENGINEERING (90%); GRADUATE & PROFESSIONAL SCHOOLS (90%); NEGATIVE NEWS (90%); RESEARCH REPORTS (90%); SOCIAL MEDIA (90%); **ARTIFICIAL INTELLIGENCE** (89%); EPIDEMICS (89%); NATURAL DISASTERS (89%); SAFETY, ACCIDENTS & DISASTERS (89%); SUPPLY CHAIN DISRUPTIONS (89%); SUPPLY CHAIN MANAGEMENT (89%); COVID-19 CORONAVIRUS (88%); PANDEMICS (88%); ACADEMIC COUNSELING (78%); SHORTAGES (78%); COMMODITIES SHORTAGES (77%); **DISASTER** & EMERGENCY RELIEF (77%); **DISASTER** RELIEF (77%); MENTORS & ROLE MODELS (77%); RESCUE OPERATIONS (77%); TECHNOLOGY (77%); COVID CORONAVIRUS (73%); INFECTIOUS DISEASE (73%); MACHINE LEARNING (72%); RIVERS (72%); INTENSIVE CARE UNITS (71%)

Organization: UNIVERSITY OF ALABAMA (94%)

UAH Researcher Publishes Study Tapping Social Media and AI to Speed Supply Chain Assistance During Disasters

Industry: ENGINEERING (90%); GRADUATE & PROFESSIONAL SCHOOLS (90%); SOCIAL MEDIA (90%); **ARTIFICIAL INTELLIGENCE** (89%); HEALTH CARE (89%); MACHINE LEARNING (72%); INTENSIVE CARE UNITS (71%)

Geographic: HUNTSVILLE, AL, USA (74%); ALABAMA, USA (91%); BIHAR, INDIA (79%); INDIA (91%); NEPAL (79%); UNITED STATES (79%)

Load-Date: July 4, 2024

End of Document

Acterys Adds New AI-Driven Business Planning Features in Latest Release

PR Newswire

August 1, 2024 Thursday 12:13 PM EST

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Length: 470 words**Dateline:** CHICAGO, Aug. 1, 2024

Body

PR NewswireActerys 24.1 Offers Planning and Solution Deployment at Unprecedented SpeedsCHICAGO, Aug. 1, 2024 /PRNewswire-PRWeb/ -- Acterys, a leading provider of **AI**-driven business planning and intelligence solutions, has released Acterys 24.1, which combines the power of **AI** with the robust functionality of Power BI and Excel to set new standards in speed, efficiency, and security. This innovation is not just an evolution; it's a revolution, crafted at the intersection of the latest **AI** breakthroughs, and Microsoft Excel and Power BI technology. "Today marks a monumental chapter in our journey at Acterys, as we unveil groundbreaking advancements in business intelligence and planning," said Acterys CEO Martin Kratky. "This innovation is not just an evolution; it's a revolution, crafted at the intersection of the latest **AI** breakthroughs, and Microsoft Excel and Power BI technology. "New features in this release include:

The Smart XL Visual for Power BI seamlessly integrates Excel's full functionality into Power BI, allowing users to work within the familiar Excel interface directly in Power BI. This integration enables real-time data updates and advanced analytics without switching platforms. The Acterys Booster Engine uses **AI** algorithms to enhance parallel processing capabilities and API writeback performance, allowing users to execute complex computations and data transformations up to five times faster, delivering quicker insights for business planning and analytics processes at scale. Acterys' new **AI** capabilities augment planning operations with **artificial intelligence** and machine learning through deep integration of Microsoft Copilot and Acterys **AI** engine, which is capable of dramatically speeding up your data prep, quality, and analysis processes. Acterys 24.1 also provides enhanced security features, including Microsoft Entra ID automation, SOC2 Type 1 and 2 compliance, multi-factor authentication, plus business-continuity and **disaster**-recovery plans. These measures provide a secure and resilient environment for all business planning needs. To learn more about Acterys, including Acterys 24.1, visit <https://acterys.com/.About> Acterys Acterys is a global provider of corporate performance management solutions. With the groundbreaking xP&A Suite, Acterys is reshaping the way businesses approach planning, forecasting and operational analysis. Companies across sectors rely on the Acterys platform to make strategic decisions and ensure the long-term viability of their enterprises. For more information about Acterys and its CPM software, please visit <https://acterys.com>. **Media Contact** Mike Zack, Acterys, 1 1 775-871-1988, , Acterys.com View original content: <https://www.prweb.com/releases/acterys-adds-new-ai-driven-business-planning-features-in-latest-release-302211974.html> SOURCE Acterys

Classification

Language: ENGLISH**Publication-Type:** Newswire

Acterys Adds New AI-Driven Business Planning Features in Latest Release

Subject: PRESS RELEASES (92%); **ARTIFICIAL INTELLIGENCE** (90%); BUSINESS PLANS (90%); DATA ANALYTICS (90%); TECHNOLOGY (90%); PRODUCT ENHANCEMENTS (89%); BUSINESS ANALYTICS (78%); BUSINESS CONTINUITY (78%); BUSINESS NEWS (78%); COMPANY ACTIVITIES & MANAGEMENT (78%); BUSINESS OPERATIONS (73%); **DISASTER** PLANNING (73%); MACHINE LEARNING (73%); PRWEB (%); PDT New Products and Services (%)

Company: MICROSOFT CORP (57%); Acterys

Ticker: MSFT (NASDAQ) (57%)

Industry: SIC7372 PREPACKAGED SOFTWARE (57%); **ARTIFICIAL INTELLIGENCE** (90%); DATA ANALYTICS (90%); APPLICATION PROGRAMMING INTERFACES (78%); BUSINESS ANALYTICS (78%); IDENTITY SECURITY (76%); COMPUTER SOFTWARE (73%); MACHINE LEARNING (73%); PARALLEL COMPUTING (73%); CPR Computer; Electronics Products (%); STW Computer Software (%); DTA Data Analytics (%)

Geographic: CHICAGO, IL, USA (59%); ILLINOIS, USA (79%); Illinois

Load-Date: August 1, 2024

End of Document

AI Ethics Council Founded by Open AI and Operation HOPE Holds Inaugural Meeting

PR Newswire

July 1, 2024 Monday 11:00 AM EST

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Length: 1033 words

Dateline: ATLANTA, July 1, 2024

Body

PR NewswireInitiated by Open **AI** CEO Sam Altman and Operation HOPE CEO John Hope Bryant, the group aims to ensure underserved communities can participate in the evolution of **AI**

ATLANTA, July 1, 2024 /PRNewswire/ -- The **AI** Ethics Council, founded by Open **AI** CEO Sam Altman and Operation HOPE CEO John Hope Bryant, held its inaugural meeting on Friday, June 28th in Atlanta. The group, which evolved out of a listening tour that was initiated last spring at Clark Atlanta University that Mr. Altman and Mr. Bryant conducted together, was formed to ensure that traditionally underrepresented communities would have a voice in the evolution of **AI** overall— to help frame the human and ethical considerations around the technology and participate in the economic opportunities of **artificial intelligence**.The council was announced in December 2023 at the HOPE Global Forums | Annual Meeting in Atlanta.

The **AI** Ethics Council is an interdisciplinary body of diverse experts designed to become a leading authority in identifying, advising on, and addressing ethical issues related to **artificial intelligence** and its impact on underserved and historically excluded communities. In addition to Mr. Altman and Mr. Bryant, founding council members include: George T. French, Jr., JD, PhD., President, Clark Atlanta University and Chair of Presidents, United Negro College Fund Helene D. Gayle, MD, MPH, President, Spelman College Bernice A. King, JD, M. Div, CEO, The King Center David A. Thomas, PhD., President, Morehouse College Angela F. Williams, JD, M. Div, President and CEO, United Way Worldwide Ambassador Andrew J. Young, Chairman, The Andrew J. Young Foundation, former U.N. Ambassador, former Mayor of Atlanta and civil rights icon Additional members representing the technology and community sectors will be announced in the coming months. At the inaugural meeting, Open **AI** Head of International Policy James Hairston briefed members on the current state of **AI**, challenges, and opportunities. Mr. Bryant shared that he will be convening a meeting of tech leaders to advance issues important to the council, and announced the Council website will go live July 1, 2024. "I see this website as our first stake in the ground. Its substance will grow, expand, and deepen over time. Transparency will be a hallmark. I encourage all citizens, here and abroad, to get informed and educated around what **AI** really is and isn't," said Mr. Bryant. "As a council, we aim to focus our attention on the needle we can help move: expanding inclusive opportunity around our shared future, for everyone, as it relates to **AI**." In addition to Mr. Bryant, Operation HOPE was represented by President and CFO Brian Betts and **AI** Ethics Council Managing Director Eric Kaplan. Topics the Council discussed included: The need to focus on technical capacity: How will we develop, grow, evaluate, and test the technical capacity of the system? How to evaluate safety, reporting, and the capacity of the law to adapt? What are the processes in place to evaluate **AI**? What can be done granularly to get more components of society involved? How can we prepare for an uncertain/undetermined future with this new tech? How can **AI** benefit the world? What are the dangers? How to optimize adoption? How do we encourage equitable participation in the economic and societal

AI Ethics Council Founded by Open AI and Operation HOPE Holds Inaugural Meeting

benefits?The **AI** Ethics Council will form a committee framework, with sub-committees and working groups, through which members will help guide ethical principles for **AI**. The Council will be initially focused on the intersection of technology and humanity for positive, ethical, and transformative impact generally in economic opportunity for all, finance, education, policy, employment, accessibility, health and healthcare, and sustainability. The **AI** Ethics Council will undertake a staged approach to the mission, pursuing impact by leveraging enhanced public visibility and influence, deep tech sector expertise, policy-focused advocacy, partnerships, program development, and active engagement with tech, business, community, government, and other stakeholders. Intended outcomes include: Establishment of Council and Committees consisting of multidisciplinary experts dedicated to advancing **AI** ethics, and positive future vision for our world. Development and dissemination of **AI** ethics guidelines and best practices. Engagement of education leaders, community leaders, business leaders and entrepreneurs, government, technologists-for-good, and the public, to foster informed discussions and decisions on **AI** ethics. Promotion of ethical **AI** usage through education and engagement. Empowerment, inclusion, economic opportunity, and acting where appropriate and where the Council can add value. An update on the Council's first-year activities will be shared at the 2024 HOPE Global Forums | Annual Meeting, December 9-11 in Atlanta. **About Operation HOPE** Since 1992, Operation HOPE has been moving America from civil rights to "silver rights" with the mission of making free enterprise and capitalism work for the underserved—disrupting poverty for millions of low and moderate-income youth and adults across the nation. Through its community uplift model, HOPE Inside, which received the 2016 Innovator of the Year recognition by American Banker magazine, Operation HOPE has served more than 4 million individuals and directed more than \$3.2 billion in economic activity into disenfranchised communities—turning check-cashing customers into banking customers, renters into homeowners, small business dreamers into small business owners, minimum wage workers into living wage consumers, and uncertain **disaster** victims into financially empowered **disaster** survivors. For more information: OperationHOPE.org. Follow the HOPE conversation on Twitter, Facebook, Instagram or LinkedIn.

Additional information may be found at www.operationhope.org **Contact Information** **Operation HOPE**

Kevin Boucher, 213-479-7833

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la@persemediagroup.com View original content to download multimedia: <https://www.prnewswire.com/news-releases/ai-ethics-council-founded-by-open-ai-and-operation-hope-holds-inaugural-meeting-302187021.html> SOURCE Operation HOPE, Inc.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** ETHICS (92%); ETHICS (92%); PRESS RELEASES (91%); **ARTIFICIAL INTELLIGENCE** (90%); EXECUTIVES (90%); HISTORICALLY BLACK COLLEGES (90%); TALKS & MEETINGS (90%); ASSOCIATIONS & ORGANIZATIONS (78%); INTERNATIONAL RELATIONS & NATIONAL SECURITY (74%); MANAGERS & SUPERVISORS (73%); AFRICAN AMERICANS (65%); EMBASSIES & CONSULATES (64%); CIVIL RIGHTS (63%); OPERATIONHOPE-meet (%); NPT Not-for-Profits (%); PER Personnel Announcements (%)

Company: Operation HOPE, Inc.

Industry: **ARTIFICIAL INTELLIGENCE** ETHICS (92%); **ARTIFICIAL INTELLIGENCE** (90%); HISTORICALLY BLACK COLLEGES (90%); CPR Computer; Electronics Products (%); EDU Education (%)

AI Ethics Council Founded by Open AI and Operation HOPE Holds Inaugural Meeting

Person: SAM ALTMAN (92%)

Geographic: ATLANTA, GA, USA (94%); GEORGIA, USA (79%); Georgia

Load-Date: July 1, 2024

End of Document

UNITED NATIONS AI MEET GIVES EVERYONE A VOICE COMMITMENTS ON INCLUSIVE AI STANDARDS
AND CAPACITY BUILDING ANNOUNCED AT ITU'S AI FOR GOOD GLOBAL SUMMIT

**UNITED NATIONS AI MEET GIVES EVERYONE A VOICE COMMITMENTS ON
INCLUSIVE AI STANDARDS AND CAPACITY BUILDING ANNOUNCED AT
ITU'S AI FOR GOOD GLOBAL SUMMIT**

States News Service

May 31, 2024 Friday

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Length: 704 words

Byline: States News Service

Dateline: GENEVA

Body

The following information was released by the International Telecommunication Union:

Leaders from government, industry and the global **artificial intelligence** community took bold steps towards making **AI** more inclusive at the **AI** for Good Global Summit in Geneva, Switzerland.

A series of actions, commitments and new initiatives reflected strengthened diversity of viewpoints and the vision of ITU the UN Agency for Digital Technologies to make **AI** work for the good of all.

ITU, along with 40 UN partners, stressed the need to include all perspectives, especially those of developing countries, in discussions on the global digital future.

"All voices need to be at the **AI** table," said ITU Secretary-General Doreen Bogdan-Martin. "At this decisive moment for the future of global cooperation, the **AI** for Good Global Summit sets the path for inclusive **AI** governance, the fight against **AI**-driven disinformation, and rescuing the SDGs."

Using **AI** to benefit people and the planet

ITU's **AI** for Good platform, established by ITU in 2017, identifies practical applications of **AI** to accelerate progress toward the SDGs. It also connects **AI** innovators with public and private-sector decision-makers to help scale up **AI** solutions globally.

At **AI** Governance Day, ITU and UNESCO launched UN Activities on **Artificial Intelligence**, a compilation of more than 400 projects by 47 UN agencies addressing all 17 UN Sustainable Development Goals (SDGs).

A partnership announced between ITU and the United Nations University aims to tap into the wealth of knowledge within the **AI** for Good community, including nearly 10,000 **AI** experts from academic institutions around the world.

The resulting flagship report will offer this expertise as a resource for stakeholders, helping them create innovative solutions and make informed decisions as they navigate the evolving world of **AI**.

Commitments to comprehensive standards

UNITED NATIONS AI MEET GIVES EVERYONE A VOICE COMMITMENTS ON INCLUSIVE AI STANDARDS AND CAPACITY BUILDING ANNOUNCED AT ITU 'S AI FOR GOOD GLOBAL SUMMIT

The world's leading international standards organizations ITU, the International Organization for Standardization (ISO), and the International Electrotechnical Commission (IEC) announced a unified framework for **AI** standards development, highlighting the push to translate **AI** governance principles into practical, actionable standards.

A new multistakeholder initiative was also announced to support coordinated standards development for **AI** watermarking, multimedia authenticity, and deepfake detection. This partnership includes the Content Authenticity Initiative, Coalition for Content Provenance and Authenticity, Internet Engineering Task Force, IEC, ISO, and ITU.

New stimulus to capacity development

The **AI** for Good Impact Initiative launched at the summit aims to expand the scope and impact of **AI** applications for sustainable development. The initiative will link **AI** innovators with opportunities to scale and fund promising **AI** solutions for every SDG equally across every region.

Activities will include regional **AI** for Good Impact events; global competitions to crowdsource **AI** solutions and boost **AI** expertise; research and policy guidance on **AI** for sustainable development; and accelerators for start-ups and small and medium-sized enterprises.

Dynamic discussions and demos forecast the future

This year's **AI** for Good Global Summit showcased innovations in generative **AI**, robotics, and brain-machine interfaces that can accelerate progress in areas such as climate action, accessibility, health, education and **disaster** response.

Summit speakers, including some of the world's most recognized voices on **AI**, explored the latest breakthroughs in **AI** and examined actions to ensure that **AI** works to humanity's benefit.

Demos featured technologies using **AI** to translate brain waves into written and spoken words, and mind-controlled robotic prosthetics that included an **AI**-powered exoskeleton to allow people with severely limited mobility to walk again.

AI Governance Day and the **AI** for Good Global Summit brought together government officials, industry leaders, UN heads, technical experts, academics and civil society representatives from 29 to 31 May.

The events, organized by ITU with the support of 40 partner UN agencies and co-convened by the Government of Switzerland, welcomed thousands of participants in Geneva and 10,000 more online.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: UNITED NATIONS (93%); **ARTIFICIAL INTELLIGENCE** (90%); **ARTIFICIAL INTELLIGENCE** ETHICS (90%); INTERNATIONAL GOVERNMENTAL ORGANIZATIONS (90%); SUSTAINABLE DEVELOPMENT GOALS (90%); UNITED NATIONS INSTITUTIONS (90%); STANDARDS & MEASUREMENTS (89%); SUSTAINABLE DEVELOPMENT (89%); EDUCATION SYSTEMS & INSTITUTIONS (79%); ASSOCIATIONS & ORGANIZATIONS (78%); BUSINESS & PROFESSIONAL ASSOCIATIONS (78%); DISINFORMATION & MISINFORMATION (78%); GENERATIVE **AI** (78%); INTELLIGENCE SERVICES (78%); TECHNOLOGY (78%); ALLIANCES & PARTNERSHIPS (76%); SMALL & MEDIUM ENTERPRISES (76%); DEEPFAKE TECHNOLOGY (73%); DEVELOPING COUNTRIES (71%); PRODUCT INNOVATION (71%); BUSINESS INCUBATION (70%); SUSTAINABILITY (70%); CROWDSOURCING (60%)

UNITED NATIONS AI MEET GIVES EVERYONE A VOICE COMMITMENTS ON INCLUSIVE AI STANDARDS
AND CAPACITY BUILDING ANNOUNCED AT ITU 'S AI FOR GOOD GLOBAL SUMMIT

Organization: INTERNATIONAL TELECOMMUNICATION UNION (84%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); **ARTIFICIAL INTELLIGENCE** ETHICS (90%); SUSTAINABLE DEVELOPMENT GOALS (90%); COMMUNICATIONS REGULATION & POLICY (89%); SUSTAINABLE DEVELOPMENT (89%); TELECOMMUNICATIONS (89%); EDUCATION SYSTEMS & INSTITUTIONS (79%); EDUCATIONAL SERVICES (78%); GENERATIVE **AI** (78%); DEEPFAKE TECHNOLOGY (73%); INTERNET & WWW (71%); BUSINESS INCUBATION (70%)

Geographic: GENEVA, SWITZERLAND (92%); SWITZERLAND (92%)

Load-Date: June 1, 2024

End of Document

TUM and Creditreform on the Hunt for Greenwashing

Targeted News Service

June 5, 2024 Wednesday 9:47 PM EST

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Length: 946 words

Byline: Targeted News Service

Dateline: MUNICH, Germany

Body

(TNSres) -- The Technical University of Munich issued the following news:

The Technical University of Munich (TUM) and the provider of business information Creditreform have launched a comprehensive cooperation to research various aspects of environmental, social, and management responsibility in companies (Environmental Social Governance). A central concern of the collaboration is the quality of data and information in order to effectively combat so-called greenwashing, i.e., the deliberate pretense of sustainable business practices.

To this end, advanced methods are to be developed to assess the relevant company data. **Artificial intelligence (AI)** plays an important role here to be able to accurately assess compliance with the often elusive sustainability criteria using simulations.

TUM is also expanding its Integrative Research Institute Munich Data Science Institute (MDSI) and contributing its academic expertise and leading researchers in the field of **AI** and data science under the leadership of Prof. Gjergji Kasneci to the collaboration. Following the acquisition of a Konrad Zuse School, this new project demonstrates once again that projects launched with funding from the Excellence Initiative can develop powerfully and be scaled up with third-party financing.

President Thomas F. Hofmann emphasized the importance of this partnership with Creditreform: "For us, it is a prototype of the synergies between university research and entrepreneurial application. In this collaboration, we are creating new insights from the combination of scientific **AI** expertise and data from the business world."

Creditreform CEO Bernd Butow adds: "The cooperation is a milestone in the development of an **AI**-supported methodology for evaluating and processing data to assess ESG risks. The combination of academic research and our expertise as a credit agency in the context of sustainability information and reporting, among other things, is a real driver of innovation in the field of data analysis."

* * *

Further information and links

TUM and Creditreform on the Hunt for Greenwashing

Under the motto "Shaping the future with data", the MDSI deals with the digital transformation in society, business, and science. The aim is to anticipate, accompany, and shape this change. The MDSI is TUM's central, interdisciplinary interface and innovation platform for questions and solutions in data science, machine learning, and **artificial intelligence**. As an integrative research institute, it is a core component of TUM AGENDA 2030. It is funded by the Excellence Initiative of the federal and state governments as well as the High-Tech Agenda Bavaria (HTA). It is located in GALILEO on the Garching research campus but works across all locations.

The following initiatives and facilities are assigned to the MDSI:

* One example of a domain-specific MDSI activity is the TUM Georg Nemetschek Institute - **Artificial Intelligence** for the Built World. It was founded under the umbrella of the MDSI with the support of a 50 million euro donation from the Nemetschek Innovation Foundation in 2020. Here, research on **AI** and machine learning applications is bundled along the entire life cycle of buildings - from planning to construction and sustainable management.

* The MDSI is also home to the **AI** Future Lab **AI** for Earth Observation (AI4EO), funded by the Federal Ministry of Education and Research and headed by Xiaoxiang Zhu, one of the five MDSI directors. AI4EO combines TUM's strengths in geodesy & earth observation, satellite technology, mathematics, **AI**, and ethics to develop reliable models of global urbanization, food supply, and natural **disaster** management.

* The Center for Digital Medicine and Health is being built under the umbrella of the MDSI as a new federally/state-funded research building to bring the core competencies of computer science to the medical campus of the TUM University Hospital "rechts der Isar". Under the leadership of MDSI Director Daniel Ruckert, the focus is on the development of data-driven approaches and **AI** methods in medicine - from the early detection and diagnosis of diseases to the identification of biomarkers for individualized and personalized treatments, to ethics, security, and data protection in the use of patient data.

* The Munich Center for Machine Learning (MCML) - under the joint leadership of TUM and LMU - is funded by the BMBF and the HighTech Agenda Bayern as one of the National **AI** Competence Centers. The TUM branch of the MCML is integrated into the MDSI infrastructure and is led by Daniel Cremers, one of the MDSI directors. He also heads the TUM part of the ELLIS Unit Munich, which is managed jointly with Helmholtz Munich within the European Laboratory for Learning and Intelligent Systems (ELLIS).

* Since 2022, the DAAD has funded the Konrad Zuse School of Excellence in Reliable **AI** - jointly coordinated by TUM and LMU. The MDSI hosts the office of the Konrad Zuse School and is headed by MDSI Executive Director Stephan Gunnemann. MSc and PhD candidates are trained in developing reliable **AI** technologies - including scientific knowledge, business expertise, and industrial experience. They conduct cutting-edge research to make **AI** ready for use in areas of public interest, with all its implications for reliability, security, and privacy.

<https://www.mdsi.tum.de/en/mdsi/home/>

* * *

Original text and links presented by source here: <https://www.tum.de/en/news-and-events/all-news/press-releases/details/tum-and-creditreform-on-the-hunt-for-greenwashing>

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Classification

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Industry: DATA SCIENCE (90%); GREENWASHING (90%); SUSTAINABLE DEVELOPMENT (90%); **ARTIFICIAL INTELLIGENCE** (89%); DATA ANALYTICS (77%); INFORMATION MANAGEMENT & TECHNOLOGY (77%); DIGITALIZATION & DIGITAL TRANSFORMATION (75%); MACHINE LEARNING (75%); COLLEGE & UNIVERSITY PROFESSORS (73%)

Geographic: BAVARIA, GERMANY (79%); GERMANY (79%)

Load-Date: June 5, 2024

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UAH RESEARCHER PUBLISHES STUDY TAPPING SOCIAL MEDIA AND AI TO SPEED SUPPLY CHAIN ASSISTANCE DURING DISASTERS

UAH RESEARCHER PUBLISHES STUDY TAPPING SOCIAL MEDIA AND AI TO SPEED SUPPLY CHAIN ASSISTANCE DURING DISASTERS

US Fed News

July 3, 2024 Wednesday 12:31 PM EST

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Length: 703 words

Body

HUNTSVILLE, Ala., July 3 -- The University of Alabama in Huntsville issued the following news release:

A doctoral candidate at The University of Alabama in Huntsville (UAH) is lead author of a new study in the International Journal of Production Research investigating the ways social media platforms can be leveraged with **artificial intelligence (AI)** to provide vital communication connecting victims of **disaster** to outside aid and support. Vishwa Vijay Kumar, a PhD student of Industrial & Systems Engineering and Engineering Management at UAH, a part of the University of Alabama System, teamed with fellow UAH co-researchers Dr. Avimanyu Sahoo and Dr. Sampson Gholston, as well as Kumar's mentor, Dr. Siva K. Balasubramanian of the Illinois Institute of Technology, to support the initiative.

For the project, the team used data from X, formerly known as Twitter, from two six-week time periods and two countries during the COVID-19 pandemic: March-April 2020 in the United States when the pandemic broke out, and in India during the surge of the delta variant in May-June 2021. Disruptions in health care supply chains during these periods were causing severe shortages of essential equipment ranging from face masks and medicines to ventilators for patients in intensive care.

"I was born and raised in the countryside of India, in Sitamarhi, Bihar, near the Nepal border, where natural disasters such as floods from the Himalayan rivers are frequent," Kumar says to explain the initial spark driving his vision to help. "These floods can spread over miles, trapping thousands of people in their homes who need urgent help for healthcare and food, as well as rescue operations. From a young age, I was driven to develop a framework that would enable people in need to communicate their requirements to the world and relevant authorities so they coordinate to assist **disaster** victims on time."

The COVID-19 pandemic in 2020 presented a **disaster** of a different kind, affecting billions of people worldwide and exposing significant vulnerabilities in global healthcare supply chains. Critical shortages of essential supplies like testing kits, oxygen cylinders and hospital beds highlighted the urgent need for efficient resource allocation and real-time information.

"This situation reignited my early motivation to explore how social media and **AI** could be harnessed for faster **disaster** response and to mitigate health and supply challenges during crises," Kumar says. "I discussed this idea with Dr. Sahoo, my PhD academic advisor."

UAH RESEARCHER PUBLISHES STUDY TAPPING SOCIAL MEDIA AND AI TO SPEED SUPPLY CHAIN ASSISTANCE DURING DISASTERS

The research that followed presented a four-step process and developed algorithms to parse information from 3.9 million tweets to identify imperative information using **AI** and machine learning. Keywords within Twitter posts were identified to indicate which tweets included information relevant to pandemic supply chain disruptions and processed them for content analysis and modeling. Tweets were categorized as "imperative," or actionable pleas for help, and "non-imperative," providing non-actionable information. The data analyzed also estimated the geographic location of imperative tweets lacking geo-tag information to facilitate coordination of aid operations.

Additionally, the researchers identified a number of healthcare supply chain challenges during **disaster** conditions that are the focus for future research. Topics included geo-location of people in need who posted their concerns on social media without identifying their location; forecasting COVID-19 vaccine supplies; forecasting the availability of health and food supplies; use of other social media (for example, Facebook, Instagram, etc.) and finding where these improvements would be applicable to other **disaster** events, such as hurricanes and earthquakes.

"We also plan to develop a platform/tool that will scan the social media posts from the **disaster** events and generate real-time reports of demand and supply issues and people with their geo-locations requesting help," Kumar concludes.

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Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: ENGINEERING (90%); GRADUATE & PROFESSIONAL SCHOOLS (90%); NEGATIVE NEWS (90%); SOCIAL MEDIA (90%); **ARTIFICIAL INTELLIGENCE** (89%); EPIDEMICS (89%); NATURAL DISASTERS (89%); SAFETY, ACCIDENTS & DISASTERS (89%); SUPPLY CHAIN DISRUPTIONS (89%); SUPPLY CHAIN MANAGEMENT (89%); COVID-19 CORONAVIRUS (88%); PANDEMICS (88%); ACADEMIC COUNSELING (78%); COMMODITIES SHORTAGES (77%); **DISASTER** & EMERGENCY RELIEF (77%); **DISASTER** RELIEF (77%); MENTORS & ROLE MODELS (77%); RESCUE OPERATIONS (77%); RESEARCH REPORTS (77%); SHORTAGES (77%); TECHNOLOGY (77%); COVID CORONAVIRUS (73%); INFECTIOUS DISEASE (73%); PRESS RELEASES (73%); MACHINE LEARNING (72%); RIVERS (72%); INTENSIVE CARE UNITS (70%)

Organization: UNIVERSITY OF ALABAMA (94%)

Industry: ENGINEERING (90%); GRADUATE & PROFESSIONAL SCHOOLS (90%); SOCIAL MEDIA (90%);

UAH RESEARCHER PUBLISHES STUDY TAPPING SOCIAL MEDIA AND AI TO SPEED SUPPLY CHAIN
ASSISTANCE DURING DISASTERS

ARTIFICIAL INTELLIGENCE (89%); HEALTH CARE (89%); MACHINE LEARNING (72%); INTENSIVE CARE
UNITS (70%)

Geographic: HUNTSVILLE, AL, USA (89%); ALABAMA, USA (93%); BIHAR, INDIA (79%); INDIA (91%); NEPAL
(79%); UNITED STATES (79%)

Load-Date: July 4, 2024

End of Document

FEMA Awards ICF New \$17 Million Cloud and Analytics Delivery Contract

PR Newswire

July 22, 2024 Monday 4:05 PM EST

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Length: 781 words**Dateline:** RESTON, Va., July 22, 2024

Body

PR Newswire**ICF to Build Data Exchange Platform to Improve Disaster Response Efficiency**RESTON, Va., July 22, 2024 /PRNewswire/ -- The Federal Emergency Management Agency (FEMA) recently awarded global consulting and technology services provider ICF (NASDAQ:ICFI) a new \$17 million data modernization contract to build a cloud-based data exchange platform to improve the efficiency and cost-effectiveness of their disaster response and recovery efforts. The contract, which was awarded by the Office of Policy and Program Analysis, has a term of three years, including a one-year base and two one-year option periods.

ICF will leverage their industry-leading disaster management expertise along with cloud computing, generative AI/AI, DevSecOps, Agile and advanced analytics capabilities to fully operationalize FEMA's new Data Exchange (FEMADex) platform. The new platform will improve FEMA data sharing and data analytics and allow leaders to access, analyze and rapidly visualize data from multiple sources and stakeholders. This will better facilitate data-driven decision-making and collaboration across the emergency management community. ICF will implement FEMADex by delivering a modernized Azure Databricks-based solution from inception to execution. "For over 25 years, ICF has proudly supported FEMA's disaster response efforts, and we are excited to expand our partnership with our leading-edge technology and data management capabilities," said James Morgan ICF chief operating officer. "Improving data quality, timeliness and accessibility will give FEMA leaders access to critical insights that will enable stronger knowledge sharing and better support to local communities as they look to make quicker, more informed decisions to help impacted citizens and improve disaster response efficiency." A leader in data modernization solutions, ICF has managed and supported over 5,000 cloud instances for over 100 enterprise cloud projects across numerous federal agencies. With hundreds of technology certifications and accreditations, ICF has extensive experience implementing a full range of cloud capabilities from cloud operations, artificial intelligence (AI), machine learning (ML), cloud native development, cloud infrastructure, application modernization and migration, data sharing and more. For over 20 years, ICF has been on the ground for some of the most significant natural disasters in U.S. history—serving over 150 state and local communities across over 86 disasters and managing over \$88 billion in federal disaster recovery and mitigation funds. The company supports communities across the disaster management lifecycle—from assessment to public engagement and planning through implementation. Read more about ICF's digital modernization and disaster management services and cloud solutions. **About ICF** ICF is a global consulting and technology services company with approximately 9,000 employees, but we are not your typical consultants. At ICF, business analysts and policy specialists work together with digital strategists, data scientists and creatives. We combine unmatched industry expertise with cutting-edge engagement capabilities to help organizations solve their most complex challenges. Since 1969, public and private sector clients have worked with ICF to navigate change and shape the future. Learn more at [icf.com](https://www.icf.com). **Caution Concerning Forward-looking Statements** Statements that are not historical facts and involve known and unknown risks and uncertainties are "forward-looking statements" as defined in the Private Securities Litigation Reform Act of

FEMA Awards ICF New \$17 Million Cloud and Analytics Delivery Contract

1995. Such statements may concern our current expectations about our future results, plans, operations and prospects and involve certain risks, including those related to the government contracting industry generally; our particular business, including our dependence on contracts with U.S. federal government agencies; our ability to acquire and successfully integrate businesses; and various risks and uncertainties related to health epidemics, pandemics, and similar outbreaks. These and other factors that could cause our actual results to differ from those indicated in forward-looking statements that are included in the "Risk Factors" section of our securities filings with the Securities and Exchange Commission. The forward-looking statements included herein are only made as of the date hereof, and we specifically disclaim any obligation to update these statements in the future. **Contact: Lauren Dyke,, +1.571.373.5577** View original content to download multimedia:<https://www.prnewswire.com/news-releases/fema-awards-icf-new-17-million-cloud-and-analytics-delivery-contract-302203002.html> SOURCE ICF

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **DISASTER** & EMERGENCY AGENCIES (92%); DATA ANALYTICS (91%); SAFETY, ACCIDENTS & DISASTERS (91%); **DISASTER** RELIEF (90%); PRESS RELEASES (90%); US FEDERAL GOVERNMENT (90%); **ARTIFICIAL INTELLIGENCE** (89%); DATA SCIENCE (89%); NATURAL DISASTERS (89%); NEGATIVE NEWS (89%); TECHNOLOGY (89%); ASSOCIATIONS & ORGANIZATIONS (78%); BUSINESS ANALYTICS (78%); CLOUD NATIVE TECHNOLOGY (78%); CONSTRUCTION CONTRACTING (78%); CONTRACTS & BIDS (78%); GOVERNMENT DEPARTMENTS & AUTHORITIES (78%); QUALITY CONTROL (75%); GENERATIVE **AI** (74%); EXECUTIVES (73%); MACHINE LEARNING (73%); GOVERNMENT BODIES & OFFICES (72%); ACCREDITATION (66%); ICF-FEMA-contract (%); CON Contracts (%); NAT Natural Disasters (%)

Company: ICF INTERNATIONAL INC (58%); ICF

Organization: FEDERAL EMERGENCY MANAGEMENT AGENCY (94%)

Ticker: ICFI (NASDAQ) (58%); ICFI (NASDAQ-NMS)

Industry: NAICS541511 CUSTOM COMPUTER PROGRAMMING SERVICES (58%); SIC7372 PREPACKAGED SOFTWARE (58%); DATA ANALYTICS (91%); INFORMATION MANAGEMENT & TECHNOLOGY (90%); **ARTIFICIAL INTELLIGENCE** (89%); CLOUD COMPUTING (89%); DATA SCIENCE (89%); INFORMATION TECHNOLOGY INDUSTRY (89%); BUSINESS ANALYTICS (78%); CLOUD NATIVE TECHNOLOGY (78%); CONSTRUCTION CONTRACTING (78%); CONSULTING SERVICES (78%); DEVOPS (77%); GENERATIVE **AI** (74%); DATA VISUALIZATION (73%); MACHINE LEARNING (73%); CPR Computer; Electronics Products (%); DTA Data Analytics (%)

Geographic: VIRGINIA, USA (90%); Virginia

Load-Date: July 22, 2024

FEMA Awards ICF New \$17 Million Cloud and Analytics Delivery Contract

End of Document

VIRGINIA TECH RESEARCH TEAM USES AI, SATELLITE IMAGERY TO DETAIL DEBBY'S DAMAGE

US Fed News

August 19, 2024 Monday 12:32 PM EST

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Length: 361 words

Body

BLACKSBURG, Va., Aug. 19 -- Virginia Polytechnic Institute and State University issued the following news release:

On the morning of Aug. 5, Category 1 Hurricane Debby made landfall near Steinhatchee, Florida, then moved up the East Coast. The storm flooded nearly 2,200 square kilometers, or 850 square miles, between Florida and New York, according to new findings from Virginia Tech's Earth Observation and Innovation Lab.

By Aug. 9, more than 35 million people from South Carolina to Vermont were under flood alerts. Berkeley County, South Carolina, saw as much as 14 inches of rain with Charleston reaching 15 inches. Cities and counties along the U.S. Atlantic Coast are already vulnerable to flooding caused by land subsidence and sea level rise, a recent Virginia Tech study found.

Associate Professor Manoochehr Shirzaei and his team tracked Debby's impact by leveraging **artificial intelligence (AI)** and big radar satellite data acquired by Sentinel-1 satellites operated by European Space Agency.

Radar microwave signals penetrate clouds and capture detailed images of the Earth's surface, allowing for accurate detection of floodwaters. Radar can measure changes in water levels, track flood progression, and provide critical data for emergency response and **disaster** management.

Shirzaei's team found that nearly 2,200 square kilometers were flooded during and after Debby's landfall between Florida and New York with 1.5 percent of the land area in nine counties inundated. Seven counties experienced more than 35 square kilometers of inundation.

Debby is the fourth hurricane since 2000 to hit Florida in early August. Its heavy rain and strong winds may be linked to a warming atmosphere and oceans, which can hold more moisture.

"As extreme weather events like Debby become more common, it's crucial to rethink how we develop flood-prone areas along the U.S. East Coast," Shirzaei said. "Investing in resilient infrastructure and promoting public awareness are essential steps in preparing for and adapting to future floodings." For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

Classification

VIRGINIA TECH RESEARCH TEAM USES AI, SATELLITE IMAGERY TO DETAIL DEBBY'S DAMAGE

Language: ENGLISH

Publication-Type: Newswire

Subject: COASTAL AREAS (90%); COLLEGES & UNIVERSITIES (90%); EARTH OBSERVATION SATELLITES (90%); FLOODS & FLOODING (90%); HURRICANES (90%); SATELLITE TECHNOLOGY (90%); SAFETY, ACCIDENTS & DISASTERS (89%); SEVERE WEATHER (89%); WEATHER (89%); ACCIDENTS & DISASTERS (78%); FLOOD ZONES (78%); RESEARCH REPORTS (78%); SEVERE WIND (78%); **ARTIFICIAL INTELLIGENCE** (77%); SPACE PROGRAMS (77%); COUNTIES (75%); SEA LEVEL CHANGES (74%); COLLEGE & UNIVERSITY PROFESSORS (73%); NATURAL **DISASTER** ALERTS (73%); PRESS RELEASES (73%); RADAR SYSTEMS (73%); SPACE & AERONAUTICS AGENCIES (53%)

Organization: EUROPEAN SPACE AGENCY (55%)

Industry: COLLEGES & UNIVERSITIES (90%); EARTH OBSERVATION SATELLITES (90%); SATELLITE TECHNOLOGY (90%); SPACE DATA INDUSTRY (90%); FLOOD ZONES (78%); **ARTIFICIAL INTELLIGENCE** (77%); SPACE PROGRAMS (77%); COLLEGE & UNIVERSITY PROFESSORS (73%); RADAR SYSTEMS (73%); SPACE INDUSTRY (72%); SPACE & AERONAUTICS AGENCIES (53%); MICROWAVE COMMUNICATIONS (52%)

Geographic: CHARLESTON, SC, USA (79%); SOUTH CAROLINA, USA (92%); VIRGINIA, USA (92%); ATLANTIC OCEAN (79%); EARTH (79%); VERMONT, USA (79%); UNITED STATES (92%)

Load-Date: August 21, 2024

USPTO ISSUES TRADEMARK: C C

US Fed News

August 31, 2024 Saturday 12:39 PM EST

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**Length:** 1154 words**Dateline:** ALEXANDRIA, Va.**Body**

ALEXANDRIA, Va., Aug. 27 -- The trademark C C (Serial No. 98333843) was published on Aug. 27, 2024, by USPTO in the Principal Register.

Owner(s): Vuaant, Inc. d/b/a Care.**AI**; 7300 Sandlake Commons Blvd., Suite 327 Orlando, FLORIDA 32819 Mark Information: Standard Character Claim - No Mark Drawing Type - 3 - AN ILLUSTRATION DRAWING WHICH INCLUDES WORD(S)/ LETTER(S) Goods and Services: US Class(es):21, 23, 26, 36, 38 Downloadable and recorded computer software for controlling and managing patient medical information; downloadable and recorded computer software for collection and management of data in the field of mobile computing and operating platforms comprised of electronic data transceivers, wireless networks and gateways; Downloadable computer software featuring **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable and recorded Software as a Medical Device (SaMD) for use as a medical instrument for monitoring, receiving, processing, transmitting, and displaying data; Downloadable and recorded software for collaboration between healthcare providers and patients, namely, software for controlling and managing patient medical information; Downloadable computer software for enabling users to enter, access, track, monitor and generate health and medical information and reports; Software as a Medical Device (SaMD), downloadable, for controlling and managing patient medical information; Downloadable computer software for accessing, reading, and tracking information in the field of healthcare; Downloadable computer software using **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable software in the nature of a mobile application for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable software in the nature of a mobile application for controlling and managing patient medical information; Downloadable mobile applications for retrieving and displaying health information; Downloadable mobile applications for verifying and displaying identity and health information; Computer hardware and recorded software for operating medical imaging apparatus sold as a unit; Computer hardware and recorded software sold as a unit for use with medical patient monitoring equipment, for receiving, processing, transmitting and displaying data; Computer monitors; Video monitors; Voice display monitors; Remote video monitoring system consisting primarily of a camera and video monitor for recording and transmitting images to a remote location; Touchscreen monitors; Downloadable facilities management software to control building environment, access and security systems; Electronic video surveillance products, namely, electronic components of security systems; Hospital automation systems comprised of computer hardware, wireless and wired controllers, and downloadable software for automating hospital operations and patient monitoring, namely, software for receiving, processing, transmitting and displaying data US Class(es):26, 39, 44 Medical imaging apparatus for diagnosing medical conditions incorporating recorded operating system software; Medical imaging apparatus for diagnosing medical conditions and monitoring patients incorporating recorded

USPTO ISSUES TRADEMARK: C C

operating system software; Medical apparatus and instruments for monitoring blood oxygen saturation, blood gas concentrations, vital signs and respiratory events; Medical devices for monitoring blood oxygen saturation, blood gas concentrations and vital signs; Wearable monitors used to measure biometric data for medical use; Computer displays and computer monitors and controllers therefor used in direct association with medical diagnosis apparatus during the process of diagnosis of a condition in an individual; Patient monitors for critical care; Health monitors comprising sensor that monitor the health of patients; Portable medical devices with sensors to monitor the physical movements of a patient wearing or carrying the device US Class(es):100, 103, 106 Installation, maintenance and repair of computer hardware; Installation, maintenance and repair of telecommunications apparatus and instruments; Technical consulting in the field of **artificial intelligence (AI)** hardware customization US Class(es):100, 101 Providing temporary use of non-downloadable cloud-based software for controlling and managing patient medical information; Providing temporary use of non-downloadable cloud-based software for monitoring patients, workers, visitors, and facilities in the field of healthcare; Providing temporary use of non-downloadable cloud-based software for medical instrument for monitoring, receiving, processing, transmitting, and displaying data; Providing temporary use of non-downloadable cloud-based software for use with medical patient monitoring equipment, for receiving, processing, transmitting and displaying data; Providing temporary use of non-downloadable cloud-based software that enables users to enter, access, track, monitor and generate health and medical information and reports; Providing temporary use of non-downloadable cloud-based software for accessing, reading, and tracking information in the field of healthcare; Providing temporary use of on-line non-downloadable software and applications using **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Providing temporary use of non-downloadable cloud-based software for managing patient information; Providing an interactive web site featuring technology that enables users to enter, access, track, monitor and generate health and medical information and reports; IT integration services; Technical support services, namely, remote and on-site infrastructure management services for monitoring, administration and management of public and private cloud computing IT and application systems; Computer technical support services, namely, 24/7 service desk or help desk services for IT infrastructure, operating systems, database systems, and web applications; Computer services, namely, remote and on-site management of the information technology (IT) cloud computing systems of others; Computer services, namely, remote and on-site management of the information technology (IT) cloud computing systems of others comprised of managing network and internet connectivity; Maintenance of computer software; Installation, maintenance and repair of computer software; Computer software installation and maintenance; Data security consultancy; Computer security consultancy; Cloud storage services for electronic data; Temporary electronic storage of information and data; Computer **disaster** recovery planning For any query with respect to this article or any other content requirement, please contact Editor at

contentservices@htdigital.in

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: HEALTH CARE INFORMATION (91%); MEDICAL DEVICES (90%); MEDICAL RECORDS (90%); TRADEMARKS (90%); CLINICAL DECISION SUPPORT (89%); DIAGNOSTIC IMAGING (89%); DISEASES & DISORDERS (89%); HEALTH CARE INFORMATION TECHNOLOGY (89%); MEDICINE & HEALTH (89%); BUSINESS OPERATIONS (78%); **ARTIFICIAL INTELLIGENCE** (77%); SURVEILLANCE TECHNOLOGY (74%); SURVEILLANCE (73%); HEALTH CARE PROFESSIONALS (72%); HAPTIC TECHNOLOGY (67%)

Industry: COMPUTER SOFTWARE (95%); SOFTWARE SERVICES & APPLICATIONS (93%); HEALTH CARE INFORMATION (91%); HEALTH CARE (90%); MEDICAL DEVICES (90%); MEDICAL RECORDS (90%);

USPTO ISSUES TRADEMARK: C C

CLINICAL DECISION SUPPORT (89%); COMPUTER DISPLAY TECHNOLOGY (89%); COMPUTER EQUIPMENT (89%); DIAGNOSTIC IMAGING (89%); HEALTH CARE INFORMATION TECHNOLOGY (89%); MOBILE APPLICATIONS (89%); MONITORS & DISPLAYS (89%); **ARTIFICIAL INTELLIGENCE** (77%); COMPUTER OPERATING SYSTEMS (75%); MOBILE & CELLULAR COMMUNICATIONS (74%); TELECOMMUNICATIONS EQUIPMENT (74%); HEALTH CARE PROFESSIONALS (72%); WIRELESS INDUSTRY (71%); ELECTRONIC COMPONENTS (69%); WIRELESS NETWORKS (69%); HAPTIC TECHNOLOGY (67%); CAMERAS (65%)

Geographic: ORLANDO, FLORIDA, USA (79%); VIRGINIA, USA (92%); FLORIDA, USA (79%)

Load-Date: August 31, 2024

End of Document

AI-Media Unveils Enhanced Lexi Tool Kit at NAB 2024 World Leader in AI -Powered Captioning Solutions
Introduces the new LEXI DR (Disaster Recovery) and LEXI Rec....

AI-Media Unveils Enhanced Lexi Tool Kit at NAB 2024; World Leader in AI-Powered Captioning Solutions Introduces the new LEXI DR (Disaster Recovery) and LEXI Recorded

GlobeNewswire

April 8, 2024 Monday 10:48 AM PT

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Section: PRODUCT / SERVICES ANNOUNCEMENT

Length: 849 words

Body

NEW YORK, April 08, 2024 (GLOBE NEWSWIRE) -- **AI-Media**, the global leader in **AI**-powered captioning, is set to unveil two new products at the prestigious NAB Show 2024, scheduled from 14-17 April in Las Vegas USA. Renowned for its cutting-edge innovations serving the broadcast industry, **AI-Media's** latest offerings; LEXI DR (**Disaster** Recovery) and LEXI Recorded are poised to revolutionize the captioning market.

In addition to showcasing numerous updates on products such as LEXI and our IP and SDI range of encoders, **AI-Media** is most excited to showcase the new LEXI DR product, a groundbreaking solution that ensures uninterrupted captioning delivery even in the face of cloud and connectivity disruptions. With LEXI DR, broadcasters can rest assured that their captions will always remain on air with minimal interruption, thanks to seamless caption workflow integration, on-premises redundant servers and flexible setup options via virtual machines or hardware. This solution offers 99.99% caption uptime, scalability with up to 10 instances available per LEXI DR unit plus the confidence that data is secure with robust encryption and security measures. LEXI DR exemplifies **AI-Media's** commitment to providing reliable, resilient, and secure captioning solutions for the broadcast industry.

AI-Media will also introduce LEXI Recorded, designed to streamline the captioning process for recorded content. The solution offers unprecedented turnaround speed and cost efficiencies making it perfect for time-sensitive news clips, highlights, and promos. LEXI Recorded boasts features such as bulk processing, accuracy above 98%, flexible file output types, multilingual options, plus can be integrated into the caption workflow so files can be captioned without leaving the media management system. With LEXI Recorded, broadcasters can ensure fast, cost-effective captioning of their recorded content with unmatched precision and ease.

"At **AI-Media**, we are dedicated to pushing the boundaries of innovation to meet the evolving needs of our customers," said James Ward, Chief Sales Officer at **AI-Media**. "We are thrilled to unveil LEXI Recorded and LEXI DR at NAB Show 2024, showcasing our relentless pursuit of excellence in captioning technology. LEXI DR

AI-Media Unveils Enhanced Lexi Tool Kit at NAB 2024 World Leader in AI -Powered Captioning Solutions Introduces the new LEXI DR (Disaster Recovery) and LEXI Rec....

represents the ultimate component in achieving full captioning automation. LEXI DR completes the automation of the captioning process. Previously, human intervention served as a backup, but LEXI DR revolutionizes this by eliminating the need for manual oversight."

In addition to the product launches, **AI-Media** will feature an "Innovation Station" at their NAB booth, where attendees can explore exciting new technologies that are part of the company's product roadmaps. Previews will showcase advancements in generative **AI** and its application in crafting topic models, also referred to as custom dictionaries. These topic models enhance accuracy by offering contextually relevant word suggestions and pronunciations based on themes, topics, and subject matter. Additionally, previews will feature innovations such as speaking subtitles or dubbing, as well as automated audio description. **AI-Media** is able to leverage decades of broadcast experience to ensure their captioning solutions are interoperable across different workflows, video standards and regions. As a leading innovator in the captioning industry, **AI-Media** remains committed to driving progress and shaping the future of accessible media worldwide.

For more information about **AI-Media** and its groundbreaking captioning solutions, visit:

AI-Media: [AI-Media.tv](https://ai-media.tv)

LEXI DR (**Disaster** Recovery): <https://hubs.ly/Q02rWtMD0>

LEXI Recorded: <https://hubs.ly/Q02rWtLS0>

About **AI-Media**:

Founded in Australia in 2003, **AI-Media** is a pioneering technology company specializing in innovative captioning workflow solutions. As a global leader, **AI-Media** provides high-quality **AI**-powered live and recorded captioning and translation technology and solutions to a diverse range of customers and markets worldwide. For the first time in February 2024, **AI-Media** was able to unveil groundbreaking data showcasing the superiority of its **AI** captioning product, LEXI, over traditional human workflows. This milestone further solidifies **AI-Media**'s position as the foremost **AI** technology leader in live and recorded captioning workflow solutions. With a commitment to utilising our deep industry experience and sophisticated **AI** technology to create solutions which streamline and simplify processes, **AI-Media** empowers leading broadcasters, enterprises and government agencies globally to ensure seamless accessibility and inclusivity in their content. **AI-Media** (ASX: AIM) commenced trading on the ASX on 15 September 2020.

A photo accompanying this announcement is available at
<https://www.globenewswire.com/NewsRoom/AttachmentNg/0fde5af3-8765-4882-abaa-03746dcde8af>

Media Contact: Fiona Habben - Fiona.habben@ai-media.tv

AI-Media Launches LEXI DR (**Disaster** Recovery) Captioning Solution

World Leader in **AI**-Powered Captioning Solutions Introduces the new LEXI DR (**Disaster** Recovery) and LEXI Recorded at NAB Show 2024

Classification

Language: ENGLISH

Publication-Type: Newswire

AI-Media Unveils Enhanced Lexi Tool Kit at NAB 2024 World Leader in AI -Powered Captioning Solutions
Introduces the new LEXI DR (Disaster Recovery) and LEXI Rec....

Subject: PRESS RELEASES (92%); **ARTIFICIAL INTELLIGENCE** (90%); NEGATIVE NEWS (90%); NEW PRODUCTS (90%); SAFETY, ACCIDENTS & DISASTERS (90%); TECHNOLOGY (89%); EMERGING TECHNOLOGY (79%); CRYPTOLOGY (75%); GENERATIVE **AI** (74%); EXECUTIVES (73%); DICTIONARIES & THESAURI (68%); MULTILINGUALISM (63%); AUTOMATIC CAPTIONING (%); **DISASTER** RECOVERY (%); LEXI DR (%); CAPTIONING FAILOVER (%); BROADCAST CAPTIONING (%); NAB (%); ACCESSIBILITY (%); CAPTIONS FOR VOD (%)

Company: **AI**-MEDIA TECHNOLOGIES LLC

Ticker: AIM.AX (AUST)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); BROADCASTING INDUSTRY (90%); NEW PRODUCTS (90%); ENTERTAINMENT & ARTS (89%); DATA SECURITY (87%); CRYPTOLOGY (75%); GENERATIVE **AI** (74%); Technology (%)

Company-Terms: Technology **AI**-Media Technologies LLC AIM.AX (AUST) Youngstown OH US

Geographic: UNITED STATES (79%)

Load-Date: April 8, 2024

End of Document

USPTO ISSUES TRADEMARK: AUGMENTED AMBIENT ASSISTANT

US Fed News

August 31, 2024 Saturday 12:39 PM EST

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**Length:** 1170 words**Dateline:** ALEXANDRIA, Va.

Body

ALEXANDRIA, Va., Aug. 27 -- The trademark AUGMENTED AMBIENT ASSISTANT (Serial No. 98333847) was published on Aug. 27, 2024, by USPTO in the Principal Register.

Owner(s): Vuaant, Inc. d/b/a Care.**AI**; 7300 Sandlake Commons Blvd., Suite 327 Orlando, Florida 32819 Mark Information: Standard Character Claim - Yes. The mark consists of standard characters without claim to any particular font style, size, or color. Mark Drawing Type - 4 - STANDARD CHARACTER MARK Goods and Services: US Class(es):21, 23, 26, 36, 38 Downloadable and recorded computer software for controlling and managing patient medical information; downloadable and recorded computer software for collection and management of data in the field of mobile computing and operating platforms comprised of electronic data transceivers, wireless networks and gateways; Downloadable computer software featuring **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable and recorded Software as a Medical Device (SaMD) for use as a medical instrument for monitoring, receiving, processing, transmitting, and displaying data; Downloadable and recorded software for collaboration between healthcare providers and patients, namely, software for controlling and managing patient medical information; Downloadable computer software for enabling users to enter, access, track, monitor and generate health and medical information and reports; Software as a Medical Device (SaMD), downloadable, for controlling and managing patient medical information; Downloadable computer software for accessing, reading, and tracking information in the field of healthcare; Downloadable computer software using **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable software in the nature of a mobile application for monitoring patients, workers, visitors, and facilities in the field of healthcare; Downloadable software in the nature of a mobile application for controlling and managing patient medical information; Downloadable mobile applications for retrieving and displaying health information; Downloadable mobile applications for verifying and displaying identity and health information; Computer hardware and recorded software for operating medical imaging apparatus sold as a unit; Computer hardware and recorded software sold as a unit for use with medical patient monitoring equipment, for receiving, processing, transmitting and displaying data; Computer monitors; Video monitors; Voice display monitors; Remote video monitoring system consisting primarily of a camera and video monitor for recording and transmitting images to a remote location; Touchscreen monitors; Downloadable facilities management software to control building environment, access and security systems; Electronic video surveillance products, namely, electronic components of security systems; Hospital automation systems comprised of computer hardware, wireless and wired controllers, and downloadable software for automating hospital operations and patient monitoring, namely, software for receiving, processing, transmitting and displaying data US Class(es):26, 39, 44 Medical imaging apparatus for diagnosing medical conditions incorporating recorded operating system software; Medical imaging apparatus for

USPTO ISSUES TRADEMARK: AUGMENTED AMBIENT ASSISTANT

diagnosing medical conditions and monitoring patients incorporating recorded operating system software; Medical apparatus and instruments for monitoring blood oxygen saturation, blood gas concentrations, vital signs and respiratory events; Medical devices for monitoring blood oxygen saturation, blood gas concentrations and vital signs; Wearable monitors used to measure biometric data for medical use; Computer displays and computer monitors and controllers therefor used in direct association with medical diagnosis apparatus during the process of diagnosis of a condition in an individual; Patient monitors for critical care; Health monitors comprising sensor that monitor the health of patients; Portable medical devices with sensors to monitor the physical movements of a patient wearing or carrying the device US Class(es):100, 103, 106 Installation, maintenance and repair of computer hardware; Installation, maintenance and repair of telecommunications apparatus and instruments; Technical consulting in the field of **artificial intelligence (AI)** hardware customization US Class(es):100, 101 Providing temporary use of non-downloadable cloud-based software for controlling and managing patient medical information; Providing temporary use of non-downloadable cloud-based software for monitoring patients, workers, visitors, and facilities in the field of healthcare; Providing temporary use of non-downloadable cloud-based software for medical instrument for monitoring, receiving, processing, transmitting, and displaying data; Providing temporary use of non-downloadable cloud-based software for use with medical patient monitoring equipment, for receiving, processing, transmitting and displaying data; Providing temporary use of non-downloadable cloud-based software that enables users to enter, access, track, monitor and generate health and medical information and reports; Providing temporary use of non-downloadable cloud-based software for accessing, reading, and tracking information in the field of healthcare; Providing temporary use of on-line non-downloadable software and applications using **artificial intelligence** for monitoring patients, workers, visitors, and facilities in the field of healthcare; Providing temporary use of non-downloadable cloud-based software for managing patient information; Providing an interactive web site featuring technology that enables users to enter, access, track, monitor and generate health and medical information and reports; IT integration services; Technical support services, namely, remote and on-site infrastructure management services for monitoring, administration and management of public and private cloud computing IT and application systems; Computer technical support services, namely, 24/7 service desk or help desk services for IT infrastructure, operating systems, database systems, and web applications; Computer services, namely, remote and on-site management of the information technology (IT) cloud computing systems of others; Computer services, namely, remote and on-site management of the information technology (IT) cloud computing systems of others comprised of managing network and internet connectivity; Maintenance of computer software; Installation, maintenance and repair of computer software; Computer software installation and maintenance; Data security consultancy; Computer security consultancy; Cloud storage services for electronic data; Temporary electronic storage of information and data; Computer **disaster** recovery planning For any query with respect to this article or any other content requirement, please contact Editor at

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USPTO ISSUES TRADEMARK: AUGMENTED AMBIENT ASSISTANT

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Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

Targeted News Service

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Body

Rep. Don Beyer, D-Virginia, issued the following news release:

Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, Representative Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, and Representative Don Beyer (VA-08), vice-chair of the House **AI** Caucus, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as by accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"There is a Dickensian quality to the use of **AI** when it comes to our environment: It can make our planet better, and it can make our planet worse," said Senator Markey. "Our **AI** Environmental Impacts Act would set clear standards and voluntary reporting guidelines to measure **AI**'s impact on our environment. The development of the next generation of **AI** tools cannot come at the expense of the health of our planet. I thank Senator Heinrich, Representative Eshoo, and Representative Beyer, for their partnership in making sure that **AI** contributes to a more livable future for generations to come."

"**AI** offers incredible possibilities for our country, but that comes with high environmental costs," said Representative Eshoo. "The resources necessary to research and develop **AI** are intensive, and as **AI** systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

AI development and use. I'm proud to introduce the **Artificial Intelligence** Environmental Impacts Act to conduct a comprehensive study on AI's environmental impacts, identify standards needed to measure those impacts, and create a system for AI developers to report the full range of their environmental impacts."

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Representative Beyer. "While recognizing the ways AI can help us decrease emissions in other sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

A copy of the legislation can be found [HERE](#).

Cosponsors in the Senate include Senators Ron Wyden (D-Ore.), Peter Welch (D-Vt.), Alex Padilla (D-Calif.), and Cory Booker (D-N.J.).

Specifically, the **Artificial Intelligence** Environmental Impacts Act would:

The legislation is endorsed by Hugging Face, Data and Society, Climate Change AI, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for AI and Digital Policy, Friends of the Earth Action, Kairos Action, Eko, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, Sustainable Digital Infrastructure Alliance, and Access Now.

"Recent advances in AI have great potential to help us tackle big societal challenges," said Emma Strubell, Assistant Professor at Carnegie Mellon University. "However, there is increasing evidence that the development and use of AI can have a negative impact on the environment due to unprecedented computational requirements. Our understanding of the true scale and scope of these impacts is still nascent, limited by access to the necessary data and standards for reporting. Senator Markey's AI Environmental Impacts Act provides a roadmap for elucidating the complex relationship between AI and the environment, which will be critical to ensuring that AI technology is developed and deployed so as to have a net positive impact on our environment and society."

"The environmental impacts of AI technologies are undeniable - from the energy to power model training, and deployment, to the water needed to cool data centers and the rare earth metals to manufacture the hardware," said Dr. Sasha Luccioni, Climate Lead at Hugging Face. "This bill will help shed some much-needed light on the extent of these impacts and how they're evolving over time."

"Senator Markey and Senator Heinrich's legislation will address a critical, yet underexplored aspect of AI - its environmental footprint," said Dr. Roy Schwartz, Senior Lecturer at the Hebrew University of Jerusalem. "The bill will promote transparency regarding the environmental aspects of AI tools, allowing organizations to both report and, as a result, mitigate their negative environmental effects. This act could not have come at a better time, as these tools are becoming ubiquitous, requiring larger amounts of energy to build and deploy them, water for cooling their servers, and land to build data centers for them."

"This legislation provides a crucial step towards aligning society's use of AI with climate change goals, by helping us measure the impacts of AI's inputs and applications, and therefore take more targeted action to shape those impacts," said Dr. Priya Donti, Co-founder and Chair of Climate Change AI.

"As the use of AI rapidly increases, society needs to understand how this new technology impacts the environment," said Erik Kojola, Senior Climate Research Specialist at Greenpeace USA. "This means we need a rigorous system for tracking energy use and carbon emissions. The **Artificial Intelligence** Environmental Impacts Act of 2024 is a vital step in creating that system and studying how AI contributes to the climate crisis. This will bring much-needed transparency and accountability to the emerging AI industry."

"The Center for AI and Digital Policy strongly supports the **Artificial Intelligence** Environmental Impacts Act," said Merve Hickok, President of the Center for AI and Digital Policy. "Senator Markey and Senator Heinrich's bold initiative addresses one of the greatest challenges in the AI sector - the possible acceleration of climate change."

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

We need research and analysis to assess the environmental impact of **AI** systems. The **AI** Environments Impacts Act should be a top priority for Senate consideration."

"**Artificial Intelligence** has become the latest tool in the Silicon Valley corporate race, with every company trying to put out **AI**-driven products in order to stay competitive," said Dom Leon-Davis, Deputy Director of Program and Strategy for Kairos Action. "If left unchecked, this rapid development pushed by tech executives can and will harm the planet we live on, particularly affecting poor, Black and Brown communities who already struggle to breathe clean air and drink clean water. From increased energy use to e-waste, and impacts that are unknown to us -- we need regulation like this now. We're glad to see this act take steps in the right direction of creating a world where tech works for all of us."

"The public deserves to know the very basics about how **AI** tools affect our material world," said Caitriona Fitzgerald, Deputy Director at the Electronic Privacy Information Center.

"By creating transparency around **AI**'s impact on our environment, the **Artificial Intelligence** Environmental Impacts Act of 2024 will give the public and policymakers a tool for pressuring technology companies to develop their products in line with our collective health and safety."

"As Lord Kelvin wisely stated, 'To measure is to know.' We enthusiastically welcome and are eager to collaborate on Senators Markey and Heinrich's initiative, as the United States takes a leading role in driving transparency and setting global standards," said Max Schulze, Director of the Sustainable Digital Infrastructure Alliance. "This initiative crucially creates visibility for the environmental costs of **artificial intelligence**, encompassing not just the models but their usage as well. We particularly endorse the holistic approach taken, going beyond mere energy consumption to consider all environmental impacts across the **AI** supply chain. This is vital for developing sustainable and responsible **AI** practices globally."

"Right now, there is significant uncertainty about the impact of **AI** on the environment," said Peter Henderson, Assistant Professor at Princeton University. "On one hand, it could be used to improve infrastructure and systems for better efficiency, on the other hand it could harm the environment through increased demand for materials, manufacturing, and energy usage. The government has a large role to play in ensuring that **AI** is a net positive for the environment, by promoting transparency and innovation around **AI**'s environmental impacts. I applaud Senator Markey and Senator Heinrich for introducing this Bill that will provide a roadmap toward positive outcomes."

"One of the many unknowns about **AI** is its impact on the environment," said Kaili Lambe, Policy and Advocacy Director at Accountable Tech. "As rapid advances have led to increasingly widespread use of LLMs and other data-intensive **AI** systems, it's imperative that we understand and take steps to mitigate unintended harm, including the potential for environmental degradation. Too often transparency takes a backseat when it comes to Big Tech innovation. Senators Markey and Heinrich's legislation offers an opportunity to gain critical insight into the environmental impact of **AI**, and we are eager to see it pass."

"**AI** technologies are spreading rapidly, with the potential for major impacts on society," said Jennifer Jones, Director of the Center for Science and Democracy at the Union of Concerned Scientists. "We must fully understand both the benefits and the risks, of these technologies--including intensive energy consumption and creation of environmental waste that harms people and nature. We have a responsibility to track the environmental impacts of **AI**, to ensure this information is publicly available and to help us plan to mitigate those harms. Importantly, the bill will allow stakeholders, including civil society, to examine and report on the full life cycle of **artificial intelligence** models, systems, and hardware--bringing the voices of the most impacted communities to the table."

"Right now, we have only a limited understanding of the depth and scale of **AI**'s environmental impacts--but what we do know is alarming," said Brian J. Chen, Policy Director at Data & Society. "**AI**'s massive energy consumption and pollution effects are likely to exacerbate global warming and climate **disaster**. The **AI** Environmental Impacts Act lays an important research foundation for a better-grounded understanding of the technology's harms to people, communities, and habitats."

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"What gets measured gets managed," said Michelle Thorne, Director of Strategy and Partnerships at the Green Web Foundation. "We at the Green Web Foundation welcome this bill as an important step towards transparency of the environmental impacts of **AI**. To date, the lack of consistent and comparable data has been a blocker for technologists, researchers, policymakers and civil society. This bill will help enable more data-informed discussions about how resources are allocated to computing."

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USPTO ISSUES TRADEMARK: SPACES THAT CARE

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ALEXANDRIA, Va., Aug. 27 -- The trademark SPACES THAT CARE (Serial No. 98272915) was published on Aug. 27, 2024, by USPTO in the Principal Register.

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Expedient Unveils Secure AI Gateway: Simplifying Access while Unlocking the Value of Generative AI Technologies

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Body

PR NewswirePITTSBURGH, May 1, 2024 /PRNewswire/ -- Expedient, a leading provider of cloud infrastructure and managed services, has unveiled its latest innovation: the Secure **AI** Gateway. This corporate-ready offering is designed to simplify access and maximize the value of generative **Artificial Intelligence (AI)** for enterprises and organizations of all sizes.

"The productivity boost that **AI** delivers is undeniable and increasingly well documented. But as more and more users embrace it in their everyday work, the risk of leaking sensitive or confidential information goes up exponentially, which represents a material risk for an organization," **says Bryan Smith, CEO at Expedient**. "Secure **AI** Gateway gives organizations a foundation for using **AI** in a safe, transparent, and scalable way." According to a 451 Research's recent Voice of the Enterprise: **AI** & Machine Learning, Infrastructure study¹, security is the top concern of organizations when considering their **AI/ML** implementation. Additionally, the report revealed widespread concerns about reliability and ease of use. Expedient's new **Secure AI Gateway** addresses these concerns head-on. To prevent the sharing of proprietary data externally, the gateway can be configured to block the release of sensitive data or personally identifiable information to public **AI** models. Users securely access approved **AI** models through single-sign-on (SSO) authentication connected to an organization's user directory, allowing administrators to monitor usage. Role-Based Access Control (RBAC) provides organizations with the ability to control what data and **AI** models users have access to based on their role, and integrated observability tools deliver a comprehensive view of usage and identify security vulnerabilities. Expedient's Secure **AI** Gateway supports multiple **AI** models simultaneously and delivers out-of-the-box access to leading models like OpenAI's GPT-4, Meta's LLAMA, Anthropic's Claude, Mistral's Mixtral, and Cohere's Command, along with others. With a full suite of text and image-focused **AI** models available, users benefit from a single interface that they can access multiple **AI** resources. In addition to chat, custom applications can be built on top of the gateway, leveraging its API access, to meet the specific needs of the business. "Secure **AI** Gateway is our first offering in the **AI** CTRL family that sets the foundation for providing secure access to **AI** tools so that organizations are comfortable empowering their employees to unlock the benefits of **AI**. We have more to come throughout 2024," Smith said. The rest of the suite will confront the hurdles companies face in adopting **AI** including connecting multiple data sources, improving model performance and accuracy, and hosting private **AI** models for when clients want to keep 100 percent of their data inside their environment. This suite starts with security and employee empowerment to eliminate "shadow **AI**" but also demystifies the process of integrating **AI**, providing clear guidance on where to begin and which technologies to utilize. "This offering assists our clients in making their first move toward responsible **AI** adoption," **says Bradley Reynolds, SVP for artificial intelligence at Expedient**. "Our objective is to simplify **AI** adoption and enable clients to create applications that address their business issues with minimal coding. We envision a future that seamlessly

Expedient Unveils Secure AI Gateway : Simplifying Access while Unlocking the Value of Generative AI Technologies

integrates **AI** models and corporate data amassed over decades, helping organizations securely leverage and manage this emerging technology for maximum impact."Other **AI** CTRL offerings will deliver seamless connectivity to hundreds of data sources, sophisticated **AI**-ready storage for improved accuracy and performance, along with options for secure private model hosting for data that you never want to leave your infrastructure. **AI** CTRL will streamline data access, bolster semantic search and retrieval capabilities, and ensure robust security for sensitive data. Key features include real-time data access from sources like databases, SaaS platforms, and spreadsheets, and the use of vector databases to enhance the efficiency of **AI** models. The incorporation of Retrieval-Augmented Generation (RAG) will significantly improve response accuracy and relevance while dramatically reducing hallucinations. To find out more about Expedient **AI** CTRL [click here](#). **About Expedient** Expedient is a full stack cloud service provider, helping companies transform their IT operations through award-winning multi-cloud solutions and managed infrastructure services. These services range from cloud migration, **disaster** recovery, virtual desktop infrastructure, data center colocation, to edge computing, as well as enterprise grade **AI**, security, and compliance, among others. The company's Cloud Different™ approach provides clients with best of breed solutions backed by "white glove" services and support. Named VMware's Americas Cloud Partner of the Year and acknowledged in Gartner's Magic Quadrant for **Disaster** Recovery as a Service, Expedient gives customers a flexible on-ramp to the cloud, supporting the optimization and delivery of all applications (both core essential and cloud native). Also, the company's data centers comply with various regulatory mandates, including the Health Insurance Portability and Accountability Act (HIPAA) and the Payment Card Industry Data Security Standard (PCI DSS) service. For more information, visit [expedient.com](https://www.expedient.com). **Media Contact**
Andre Fuochi

+1-469-394-72741 451 Research's Voice of the Enterprise: **AI** & Machine Learning, Infrastructure 2023 Study, by Alex Johnston, S&P Global Market Intelligence View original content to download multimedia: <https://www.prnewswire.com/news-releases/expedient-unveils-secure-ai-gateway-simplifying-access-while-unlocking-the-value-of-generative-ai-technologies-302131793.html> SOURCE Expedient

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Industry: NAICS561920 CONVENTION & TRADE SHOW ORGANIZERS (56%); NAICS541910 MARKETING RESEARCH & PUBLIC OPINION POLLING (56%); **ARTIFICIAL INTELLIGENCE** (90%); GENERATIVE **AI** (90%); APPLICATION PROGRAMMING INTERFACES (78%); MACHINE LEARNING (78%); CONFIDENTIAL INFORMATION LEAKS (73%); USABILITY (71%); CPR Computer; Electronics Products (%)

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Expedient Unveils Secure AI Gateway : Simplifying Access while Unlocking the Value of Generative AI
Technologies

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Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

Targeted News Service

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Byline: Targeted News Service

Dateline: WASHINGTON

Body

Sen. Edward J. Markey, D-Massachusetts, issued the following news release:

Bill Text (PDF)

Washington (February 1, 2024) - Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, Representative Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, and Representative Don Beyer (VA-08), vice-chair of the House **AI** Caucus, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as by accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"There is a Dickensian quality to the use of **AI** when it comes to our environment: It can make our planet better, and it can make our planet worse," said Senator Markey. "Our **AI** Environmental Impacts Act would set clear standards and voluntary reporting guidelines to measure **AI**'s impact on our environment. The development of the next generation of **AI** tools cannot come at the expense of the health of our planet. I thank Senator Heinrich, Representative Eshoo, and Representative Beyer, for their partnership in making sure that **AI** contributes to a more livable future for generations to come."

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

"AI offers incredible possibilities for our country, but that comes with high environmental costs," said Representative Eshoo. "The resources necessary to research and develop AI are intensive, and as AI systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of AI development and use. I'm proud to introduce the Artificial Intelligence Environmental Impacts Act to conduct a comprehensive study on AI's environmental impacts, identify standards needed to measure those impacts, and create a system for AI developers to report the full range of their environmental impacts."

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Representative Beyer. "While recognizing the ways AI can help us decrease emissions in other sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

A copy of the legislation can be found [HERE](#).

Cosponsors in the Senate include Senators Ron Wyden (D-Ore.), Peter Welch (D-Vt.), Alex Padilla (D-Calif.), and Cory Booker (D-N.J.).

Specifically, the Artificial Intelligence Environmental Impacts Act would:

Require a Study on the Environmental Impacts of AI: The Environmental Protection Agency (EPA) would conduct a comprehensive study on the environmental impact of AI within two years. The study would examine AI models and hardware's lifecycle, including energy consumption, pollution, and e-waste, as well as assess the positive and negative environmental impacts of AI's applications.

Convene an AI Environmental Impacts Consortium: NIST would convene a consortium of stakeholders to identify measurement needs and standards for AI's environmental impacts.

Create a Voluntary Reporting System: NIST would develop a system for entities developing or operating AI to voluntarily report the full range of AI's environmental impacts.

Direct a Report to Congress: Within four years, the EPA, the Department of Energy, and NIST would submit a joint report to Congress, detailing the consortium's findings and describing the voluntary reporting system, as well as providing recommendations for further legislative and executive action.

The legislation is endorsed by Hugging Face, Data and Society, Climate Change AI, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for AI and Digital Policy, Friends of the Earth Action, Kairos Action, Eko, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, Sustainable Digital Infrastructure Alliance, and Access Now.

"Recent advances in AI have great potential to help us tackle big societal challenges," said Emma Strubell, Assistant Professor at Carnegie Mellon University. "However, there is increasing evidence that the development and use of AI can have a negative impact on the environment due to unprecedented computational requirements. Our understanding of the true scale and scope of these impacts is still nascent, limited by access to the necessary data and standards for reporting. Senator Markey's AI Environmental Impacts Act provides a roadmap for elucidating the complex relationship between AI and the environment, which will be critical to ensuring that AI technology is developed and deployed so as to have a net positive impact on our environment and society."

"The environmental impacts of AI technologies are undeniable - from the energy to power model training, and deployment, to the water needed to cool data centers and the rare earth metals to manufacture the hardware," said Dr. Sasha Luccioni, Climate Lead at Hugging Face. "This bill will help shed some much-needed light on the extent of these impacts and how they're evolving over time."

"Senator Markey and Senator Heinrich's legislation will address a critical, yet underexplored aspect of AI - its environmental footprint," said Dr. Roy Schwartz, Senior Lecturer at the Hebrew University of Jerusalem. "The bill will promote transparency regarding the environmental aspects of AI tools, allowing organizations to both report

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and, as a result, mitigate their negative environmental effects. This act could not have come at a better time, as these tools are becoming ubiquitous, requiring larger amounts of energy to build and deploy them, water for cooling their servers, and land to build data centers for them."

"This legislation provides a crucial step towards aligning society's use of AI with climate change goals, by helping us measure the impacts of AI's inputs and applications, and therefore take more targeted action to shape those impacts," said Dr. Priya Danti, Co-founder and Chair of Climate Change AI.

"As the use of AI rapidly increases, society needs to understand how this new technology impacts the environment," said Erik Kojala, Senior Climate Research Specialist at Greenpeace USA. "This means we need a rigorous system for tracking energy use and carbon emissions. The Artificial Intelligence Environmental Impacts Act of 2024 is a vital step in creating that system and studying how AI contributes to the climate crisis. This will bring much-needed transparency and accountability to the emerging AI industry."

"The Center for AI and Digital Policy strongly supports the Artificial Intelligence Environmental Impacts Act," said Merve Hickok, President of the Center for AI and Digital Policy. "Senator Markey and Senator Heinrich's bold initiative addresses one of the greatest challenges in the AI sector - the possible acceleration of climate change. We need research and analysis to assess the environmental impact of AI systems. The AI Environments Impacts Act should be a top priority for Senate consideration."

"Artificial Intelligence has become the latest tool in the Silicon Valley corporate race, with every company trying to put out AI-driven products in order to stay competitive," said Dom Leon-Davis, Deputy Director of Program and Strategy for Kairos Action. "If left unchecked, this rapid development pushed by tech executives can and will harm the planet we live on, particularly affecting poor, Black and Brown communities who already struggle to breathe clean air and drink clean water. From increased energy use to e-waste, and impacts that are unknown to us -- we need regulation like this now. We're glad to see this act take steps in the right direction of creating a world where tech works for all of us."

"The public deserves to know the very basics about how AI tools affect our material world," said Caitriona Fitzgerald, Deputy Director at the Electronic Privacy Information Center.

"By creating transparency around AI's impact on our environment, the Artificial Intelligence Environmental Impacts Act of 2024 will give the public and policymakers a tool for pressuring technology companies to develop their products in line with our collective health and safety."

"As Lord Kelvin wisely stated, 'To measure is to know.' We enthusiastically welcome and are eager to collaborate on Senators Markey and Heinrich's initiative, as the United States takes a leading role in driving transparency and setting global standards," said Max Schulze, Director of the Sustainable Digital Infrastructure Alliance. "This initiative crucially creates visibility for the environmental costs of artificial intelligence, encompassing not just the models but their usage as well. We particularly endorse the holistic approach taken, going beyond mere energy consumption to consider all environmental impacts across the AI supply chain. This is vital for developing sustainable and responsible AI practices globally."

"Right now, there is significant uncertainty about the impact of AI on the environment," said Peter Henderson, Assistant Professor at Princeton University. "On one hand, it could be used to improve infrastructure and systems for better efficiency, on the other hand it could harm the environment through increased demand for materials, manufacturing, and energy usage. The government has a large role to play in ensuring that AI is a net positive for the environment, by promoting transparency and innovation around AI's environmental impacts. I applaud Senator Markey and Senator Heinrich for introducing this Bill that will provide a roadmap toward positive outcomes."

"One of the many unknowns about AI is its impact on the environment," said Kaili Lambe, Policy and Advocacy Director at Accountable Tech. "As rapid advances have led to increasingly widespread use of LLMs and other data-intensive AI systems, it's imperative that we understand and take steps to mitigate unintended harm, including the potential for environmental degradation. Too often transparency takes a backseat when it comes to Big Tech

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innovation. Senators Markey and Heinrich's legislation offers an opportunity to gain critical insight into the environmental impact of **AI**, and we are eager to see it pass."

"**AI** technologies are spreading rapidly, with the potential for major impacts on society," said Jennifer Jones, Director of the Center for Science and Democracy at the Union of Concerned Scientists. "We must fully understand both the benefits and the risks, of these technologies--including intensive energy consumption and creation of environmental waste that harms people and nature. We have a responsibility to track the environmental impacts of **AI**, to ensure this information is publicly available and to help us plan to mitigate those harms. Importantly, the bill will allow stakeholders, including civil society, to examine and report on the full life cycle of **artificial intelligence** models, systems, and hardware--bringing the voices of the most impacted communities to the table."

"Right now, we have only a limited understanding of the depth and scale of **AI**'s environmental impacts--but what we do know is alarming," said Brian J. Chen, Policy Director at Data & Society. "**AI**'s massive energy consumption and pollution effects are likely to exacerbate global warming and climate **disaster**. The **AI** Environmental Impacts Act lays an important research foundation for a better-grounded understanding of the technology's harms to people, communities, and habitats."

"What gets measured gets managed," said Michelle Thorne, Director of Strategy and Partnerships at the Green Web Foundation. "We at the Green Web Foundation welcome this bill as an important step towards transparency of the environmental impacts of **AI**. To date, the lack of consistent and comparable data has been a blocker for technologists, researchers, policymakers and civil society. This bill will help enable more data-informed discussions about how resources are allocated to computing."

"Friends of the Earth Action is proud to endorse the bill to address the climate concerns of **artificial intelligence**," said Michael Khoo, Climate Disinformation Program Director at Friends of the Earth Action. "In addition to generating even more disinformation around the climate crisis, **AI** comes at an enormous energy cost that must be made transparent. Congress should not make the same mistake of simply trusting **AI** companies to do good, the way they did with social media over the last two decades. We call on lawmakers to support this bill for the sake of our planet."

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Original text here: <https://www.markey.senate.gov/news/press-releases/markey-heinrich-eshoo-beyer-introduce-legislation-to-investigate-measure-environmental-impacts-of-artificial-intelligence>

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NATURAL RESOURCES (77%); STANDARDS & MEASUREMENTS (77%); WATER RESOURCES (77%); WATER SUPPLY (77%); ENERGY DEMAND (76%); GREENHOUSE GASES (72%); WEATHER (72%); WATER CRISES & SHORTAGES (69%)

Company: AI SYSTEMS (51%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (56%)

Industry: SIC7372 PREPACKAGED SOFTWARE (51%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENERGY & UTILITIES (90%); ALTERNATIVE & RENEWABLE ENERGY (77%); EMISSIONS (77%); ENERGY EFFICIENCY & CONSERVATION (77%); ENERGY DEMAND (76%); DATA CENTERS (73%)

Person: EDWARD J MARKEY (92%); ANNA G ESHOO (89%); DON BEYER (79%); MARTIN HEINRICH (79%)

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MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE Sen. Markey J Edward (D - MA) New....

MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE; Sen. Markey J Edward (D - MA) News Release

Congressional Documents and Publications

February 1, 2024

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Read this original document at: <https://www.markey.senate.gov/news/press-releases/markey-heinrich-eshoo-beyer-introduce-legislation-to-investigate-measure-environmental-impacts-of-artificial-intelligence>

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Company: **AI** SYSTEMS (51%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (57%)

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Person: EDWARD J MARKEY (92%); ANNA G ESHOO (89%); DON BEYER (79%); MARTIN HEINRICH (79%)

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CAN AI BE A FORCE FOR INCLUSION?

CAN AI BE A FORCE FOR INCLUSION?

States News Service

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Length: 487 words**Byline:** States News Service**Dateline:** OXFORD, UK**Body**

The following information was released by the University of Oxford:

Kelsey Doerksen

8 Mar 2024

Kelsey Doerksen is a PhD student in Autonomous Intelligent Machines and Systems at the Department of Computer Science, and the President of the Oxford Womxn in Computer Science Society. She is also a Giga Data Science Fellow at UNICEF and a Visiting Researcher at European Space Agency.

There is enormous potential for **artificial intelligence (AI)** tools to benefit society; from early detection of diseases, to natural **disaster** response, to helping us write succinct emails. But these technologies need to be viewed under a critical lens to ensure that we are building tools to help, and not harm society.

When we are thinking about reducing bias in **AI** models, we need to start with the datasets we are using to teach them. **AI** models are being trained on datasets which we know have systematically left minorities out of the picture; resulting in data that lacks diverse representation of gender identities, sexual orientations, and race, among others. **AI** can be a powerful tool to mitigate human-induced bias because it is a data-driven approach to decision making, but if the data it is using has biases, this becomes an issue. For example, we have seen generative **AI** adopting stereotypes and biases when generating images of certain professions that we typically associated with men or women in the past.

In addition to bias mitigation from a data perspective, it is critical that the diversity of users of an **AI** product are represented at the development stage. Improving gender representation in **AI** and Computer Science (CS) is something I am very passionate about, and being a part of the Oxford Womxn in Computer Science Society (OxWoCS) for the past three years has been transformative to my experience as a woman in the field.

The success of the society speaks for itself, we have grown to 250+ members with over 750 people on our mailing list, providing academic, career and social opportunities to the CS community at Oxford University across all levels of study and research. My experience leading OxWoCS as the 2023-24 President has been one of the highlights of my DPhil. It has been incredibly rewarding to connect with so many women in the field who are equally as passionate about their research as they are about building a welcoming and safe community for gender minorities in the space.

CAN AI BE A FORCE FOR INCLUSION?

My hopes for the future of women in the fields of **AI** and CS is that we continue to champion and advocate for one another to build stronger communities that celebrate the diversity of experiences that we bring to the table.

* '**Artificial intelligence** and gender equality: how can we make **AI** a force for inclusion?' was the topic of a panel discussion co-hosted by the Vice-Chancellor Professor Irene Tracey CBE, FRS, FMedSci and Professor Tim Soutphommasane, Chief Diversity Officer on 6 March 2024 ahead of International Women's Day.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** (90%); COMPUTER SCIENCE (90%); SMART TECHNOLOGY (90%); COLLEGE & UNIVERSITY PROFESSORS (89%); GENDER EQUALITY (88%); MINORITY GROUPS (88%); DATA SCIENCE (78%); DIVERSITY & INCLUSION (78%); GENERATIVE **AI** (78%); TECHNOLOGY (78%); SPACE PROGRAMS (77%); EXECUTIVES (72%); WOMEN (72%); DISEASES & DISORDERS (71%); INTERNATIONAL ASSISTANCE (71%); RELIEF ORGANIZATIONS (71%); SPACE & AERONAUTICS AGENCIES (71%); NATURAL DISASTERS (70%); NEGATIVE NEWS (70%); SAFETY, ACCIDENTS & DISASTERS (70%); GENDER IDENTITY (67%)

Organization: EUROPEAN SPACE AGENCY (57%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); COMPUTER SCIENCE (90%); SMART TECHNOLOGY (90%); COLLEGE & UNIVERSITY PROFESSORS (89%); DATA SCIENCE (78%); GENERATIVE **AI** (78%); SPACE PROGRAMS (77%); SPACE & AERONAUTICS AGENCIES (71%); SPACE INDUSTRY (71%)

Geographic: OXFORD, ENGLAND (89%)

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DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP,
ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND
SECURITY

**DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL
INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE
BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY MISSION**

States News Service

March 18, 2024 Monday

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Byline: States News Service

Dateline: WASHINGTON

Body

The following information was released by the Department of Homeland Security:

DHS Will Launch Three Pilot Projects to Test **AI** Technology to Enhance Immigration Officer Training, Help Communities Build Resilience and Reduce Burden for Applying for **Disaster** Relief Grants, and Improve Efficiency of Law Enforcement Investigations

Today, Secretary of Homeland Security Alejandro N. Mayorkas and Chief Information Officer and Chief **Artificial Intelligence** Officer Eric Hysen announced the Department of Homeland Security's (DHS) first "**Artificial Intelligence** Roadmap." The roadmap details DHS's 2024 plans, including to test uses of the technologies that deliver meaningful benefits to the American public and advance homeland security, while ensuring that individuals' privacy, civil rights, and civil liberties are protected.

As part of the roadmap, DHS announced three innovative pilot projects that will deploy **AI** in specific mission areas. Homeland Security Investigations (HSI) will test **AI** to enhance investigative processes focused on detecting fentanyl and increasing efficiency of investigations related to combatting child sexual exploitation. The Federal Emergency Management Agency (FEMA) will deploy **AI** to help communities plan for and develop hazard mitigation plans to build resilience and minimize risks. And, United States Citizenship and Immigration Services (USCIS) will use **AI** to improve immigration officer training.

"The unprecedented speed and potential of **AI**'s development and adoption presents both enormous opportunities to advance our mission and risks we must mitigate," said Secretary of Homeland Security Alejandro N. Mayorkas. "The DHS **AI** roadmap and pilots will guide our efforts this year to strengthen our national security, improve our operations, and provide more efficient services to the American people, while upholding our commitment to protect civil rights, civil liberties, and privacy. What we learn from the pilot projects will be beneficial in shaping how the Department can effectively and responsibly use **AI** across the homeland security enterprise moving forward."

The roadmap lays out DHS's initiatives in **AI**, describes the potential of **AI** technologies across the Department, and offers clearer visibility into the Department's approach to **AI**, while underscoring the Department's commitment to responsible utilization.

DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY

The AI roadmap outlines three lines of effort DHS is using to guide its work:

Responsibly leverage AI to advance Homeland Security missions while protecting individuals' privacy, civil rights, and civil liberties DHS is committed to ensuring that its use of AI fully respects privacy, civil liberties, and civil rights, is rigorously tested to avoid bias, disparate impact, privacy harms, and other risks, and that it is understandable to the people we serve.

Promote Nationwide AI Safety and Security Advances in AI will revolutionize the delivery of essential goods and services upon which Americans rely. AI can create tremendous efficiencies and benefits for citizens, but it can also present new and novel risks. To protect U.S. cyber networks and critical infrastructure, DHS will help govern the safe and responsible development and use of AI.

Continue to lead in AI through strong cohesive partnerships DHS will foster strong relationships with private sector, academia, State, Local, Territorial, and Tribal governments, international partners, non-government organizations, research institutions, and thought leaders to accelerate the development and deployment of AI solutions tailored to the unique challenges faced by the DHS. In line with the DHS's commitment to transparency and visibility into the Department's vision for AI and to ensuring responsible use, DHS will continue to share information and engage with communities, advocates, and partners to demonstrate responsible AI use.

DHS's three new pilot programs will allow the Department to assess the efficacy of AI in improving its mission capabilities. Each pilot team is partnering with privacy, cybersecurity, and civil rights and civil liberties experts throughout their development and evaluation process. This work will inform Department-wide policies on AI governance. DHS offices and agencies submitted dozens of proposals for consideration to the Chief AI Officer, who selected three pilots that would best support evaluating the effectiveness of Large Language Models (LLM) and Generative AI technology at DHS.

The new pilot programs announced today will:

Transform Security Investigative Processes, Unlock Data-Driven Insights, and Improve Mission Outcomes HSI's pilot project will strengthen their investigative processes by introducing a LLM-based system designed to enhance the efficiency and accuracy of summaries investigators rely upon. The LLM-based system will leverage open-source technologies to allow investigators to more quickly summarize and search for contextually relevant information within investigative reports. The pilot could lead to increases in detection of fentanyl-related networks, aid in identification of perpetrators and victims of child exploitation crimes, and surface key patterns and trends that could further HSI's vital work.

Bolster Planning Assistance for Resilient Communities FEMA will launch a GenAI pilot to create efficiencies for the hazard mitigation planning process for local governments, including underserved communities. Hazard mitigation plans are not only a foundational step that communities can take to build their resilience but can be lengthy to produce and challenging for communities that lack resources to do so. The pilot will specifically support State, Local, Tribal, and Territorial governments' understanding of how to craft a plan that identifies risks and mitigation strategies as well as generate draft plan elements from publicly-available, well-researched sources that governments could customize to meet their needs. This pilot could lead to more communities having the ability to submit grant applications for funding to become more resilient and reduce disaster risks.

Enhance Immigration Officer Training through Generative AI United States Citizenship and Immigration Services is developing an interactive application that uses GenAI to improve the way the agency trains immigration officer personnel. USCIS will generate dynamic, personalized training materials that adapt to officers' specific needs and ensure the best possible knowledge and training on a wide range of current policies and laws relevant to their jobs. The goal is to help enhance trainees' understanding and retention of crucial information, increase the accuracy of their decisionmaking process, and limit the need for retraining over time.

The roadmap and announcement of pilot programs are the latest in the Department's ongoing AI initiatives.

DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP, ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND SECURITY

In February, Secretary Mayorkas and CIO Hysen announced the Department's first-ever hiring sprint to recruit 50 **AI** technology experts to help build teams that will help better leverage **AI** responsibly across strategic areas of the homeland security enterprise. These include efforts to counter fentanyl, combat child sexual exploitation and abuse, deliver immigration services, secure travel, fortify our critical infrastructure, and enhance our cybersecurity. DHS has received a strong response to date and is in the process of reviewing, interviewing, and hiring **AI** technologists to support mission-enhancing initiatives. The Department continues to accept applications on dhs.gov/AI.

Last year, DHS established the Department's first **AI** Task Force and named CIO Hysen its first Chief **AI** Officer. Informed by the Task Force's work over the past 11 months, DHS has identified areas where **AI** can enhance the effectiveness of the Department's efforts helping pave the way for this roadmap and these new projects. The Task Force's focus is on DHS's entire mission space. For instance, it is working to enhance the integrity of our supply chains and the broader trade environment by helping deploy **AI** to improve cargo screening, the identification of imported goods produced with forced labor, and risk management. The Task Force is also charged with using **AI** to better detect fentanyl shipments, identify and interdict the flow of precursor chemicals around the world, and disrupt key nodes in criminal networks.

The Department's latest efforts follow President Biden's Executive Order (EO) "Safe, Secure, and Trustworthy Development and Use of **Artificial Intelligence**," signed in October 2023. The EO directed DHS to promote the adoption of **AI** safety standards globally, protect U.S. networks and critical infrastructure, reduce the risks that **AI** can be used to create weapons of mass destruction, combat **AI**-related intellectual property theft, and help the United States attract and retain skilled talent, among other missions. The President has directed DHS to establish an **AI** Safety and Security Advisory Board to support the responsible development of **AI**. This Board will bring together preeminent industry experts from **AI** hardware and software companies, leading research labs, critical infrastructure entities, and the U.S. government. This Board will issue recommendations and best practices for an array of **AI** use cases to ensure **AI** deployments are secure and resilient.

Classification

Language: ENGLISH

Publication-Type: Newswire

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Organization: US DEPARTMENT OF HOMELAND SECURITY (99%); FEDERAL EMERGENCY MANAGEMENT AGENCY (82%); US CITIZENSHIP & IMMIGRATION SERVICES (73%)

DEPARTMENT OF HOMELAND SECURITY UNVEILS ARTIFICIAL INTELLIGENCE ROADMAP,
ANNOUNCES PILOT PROJECTS TO MAXIMIZE BENEFITS OF TECHNOLOGY, ADVANCE HOMELAND
SECURITY

Industry: ARTIFICIAL INTELLIGENCE (90%); OPIATES & OPIOIDS (53%)

Person: ALEJANDRO MAYORKAS (90%)

Geographic: UNITED STATES (97%)

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End of Document

ADDING MULTIMEDIA Atmo Signs Historic Commercial Agreement with the Philippines to Bring AI-Powered Weather Forecasting to the Country Atmo and DOST partner to

ADDING MULTIMEDIA Atmo Signs Historic Commercial Agreement with the Philippines to Bring AI-Powered Weather Forecasting to the Country; Atmo and DOST partner to deliver the first AI-based national weather forecasting system in Asia, to better prepare for extreme weather across the Philippines' 7,641 islands

Business Wire

October 1, 2024 Tuesday 2:05 PM GMT

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Length: 642 words

Dateline: MANILA, Philippines

Body

Today, leading **AI** meteorology company [Atmo](#) announced a multi-year commercial agreement with the Philippines' Department of Science and Technology ([DOST](#)). In collaboration with DOST's Advanced Science and Technology Institute (ASTI) and the Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), Atmo will provide ultra-precise weather forecasting throughout the country. Using **AI** models specifically trained on Philippines weather data to achieve significantly higher accuracy and detail, this landmark contract will deliver a national-scale weather forecasting solution at a high, 2km resolution - up to 100x more detailed than standard global forecasts.

This press release features multimedia. View the full release here: <https://www.businesswire.com/news/home/20241001871248/en/>

New, high-resolution weather model predicts typhoon's path and intensity for the Philippines | Credit: Atmo

The Philippines is highly vulnerable to extreme weather and climate change. The country faces up to 20 [tropical cyclones each year](#) , impacting millions of Filipinos and causing widespread displacement and loss of life. In total, the Philippines experiences more [annual economic losses](#) from weather events than any other country. Atmo's **AI** forecasts will enable the Philippines to take proactive measures in mitigating these climate challenges, reducing loss of life and infrastructure damage, while enhancing a wide range of industries, such as agriculture, aviation, and renewable energy.

"This collaboration represents a clear example of how **AI** can revolutionize weather forecasting on a national scale," said Dr. Pierre Pinson, Editor in Chief of the International Journal of Forecasting. "By integrating **AI**-based models with local meteorological data, the Atmo-Philippines partnership puts forward a new approach to meteorology for countries that face unique and recurrent extreme weather conditions."

Atmo combines real-time data from large volumes of weather sensors, satellites, and radars with over 60 years of historical data to create ultraprecise **AI** weather prediction models. These forecasts update every 15 minutes and continuously self-correct using real weather measurements, improving over time. Its partnership with the Philippines

ADDING MULTIMEDIA Atmo Signs Historic Commercial Agreement with the Philippines to Bring AI-Powered Weather Forecasting to the Country Atmo and DOST partner to

promises groundbreaking improvements in accuracy, detail, and computational efficiency, redefining the future of weather forecasting for the nation.

"We're incredibly proud to partner with DOST to bring the Philippines a weather forecasting system that can help safeguard lives, boost economic activity, and enhance **disaster** preparedness," said Alex Levy, CEO of Atmo. "Using the power of **AI**-driven meteorology, the nation can make informed decisions to navigate the increasing challenges posed by extreme weather with confidence and precision."

The implementation of this **AI**-powered weather forecasting model will begin immediately, with full operational capability expected within the next year. Atmo's proven **AI** technology is also being used by the Pacific island nation of [Tuvalu](#), which faces immediate and existential threats from the climate crisis.

About Atmo

Atmo is a leading **AI** weather forecasting company dedicated to harnessing the power of **artificial intelligence** to deliver accurate and reliable weather predictions. Our mission is to improve the lives of people around the world by providing state-of-the-art weather forecasting solutions.

About DOST

The Philippines' Department of Science and Technology (DOST) is the executive department of the Philippine Government responsible for the coordination of science and technology-related projects in the Philippines and to formulate policies and projects in the fields of science and technology in support of national development.

View source version on businesswire.com: <https://www.businesswire.com/news/home/20241001871248/en/>

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<http://www.businesswire.com>

Graphic

New, high-resolution weather model predicts typhoon's path and intensity for the Philippines | Credit: Atmo

Classification

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Subject: PRESS RELEASES (92%); AGREEMENTS (91%); WEATHER (91%); **ARTIFICIAL INTELLIGENCE** (90%); EARTH & ATMOSPHERIC SCIENCE (90%); METEOROLOGY (90%); NATURAL SCIENCES (90%);

ADDING MULTIMEDIA Atmo Signs Historic Commercial Agreement with the Philippines to Bring AI-Powered Weather Forecasting to the Country Atmo and DOST partner to

SEVERE WEATHER (90%); ACCIDENTS & DISASTERS (89%); ISLANDS & REEFS (89%); CLIMATE CHANGE (78%); CLIMATOLOGY (78%); ECONOMIC CONDITIONS (78%); ECONOMICS (78%); HISTORY (78%); NEGATIVE ENVIRONMENTAL NEWS (78%); OCEANOGRAPHIC & ATMOSPHERIC SERVICES (78%); TYPHOONS (78%); WEATHER SENSORS (78%); **DISASTER** PLANNING (73%); EXECUTIVES (73%); GEOLOGY & GEOPHYSICS (73%); SAFETY, ACCIDENTS & DISASTERS (73%); TROPICAL STORMS (73%); ECONOMY & ECONOMIC INDICATORS (66%); Photo/Multimedia (%); Contract/Agreement (%)

Company: SUPP-ATMO

Industry: **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & UTILITIES (78%); WEATHER SENSORS (78%); ALTERNATIVE & RENEWABLE ENERGY (73%); Software (%); Research (%); Environmental Policy (%); Environmental Issues (%); Data Management (%); Technology (%); **Artificial Intelligence** (%); Environment (%); Satellite (%); Science (%); Green Technology (%); Climate Change (%); Other Science (%)

Geographic: MANILA, PHILIPPINES (79%); CALIFORNIA, USA (79%); PHILIPPINES (96%); ASIA (92%); NORTH AMERICA (79%); UNITED STATES (79%); California; United States; Philippines; North America; Asia Pacific

Load-Date: October 1, 2024

End of Document

INTERNATIONAL PATENT: İSTANBUL GELİŞİM UN
İVERSİTESİ FILES APPLICATION FOR "ARTIFICIAL INTELLIGENCE BASED
EMERGENCY DETECTION....

INTERNATIONAL PATENT: İSTANBUL GELİŞİM UNİVERSİTESİ FILES APPLICATION FOR "ARTIFICIAL INTELLIGENCE BASED EMERGENCY DETECTION AND NOTIFICATION SYSTEM"

US Fed News

June 11, 2024 Tuesday 3:24 AM EST

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Length: 359 words

Dateline: GENEVA

Body

GENEVA, June 11 -- İSTANBUL GELİŞİM UNİVERSİTESİ (Cihangir Mahallesi Şehit Jandarma Komando Er Hakan Oner Sk. No:1Avcılar/Istanbul) filed a patent application (PCT/TR2023/050116) for "**ARTIFICIAL INTELLIGENCE** BASED EMERGENCY DETECTION AND NOTIFICATION SYSTEM" on Feb 08, 2023. With publication no. WO/2024/118006, the details related to the patent application was published on Jun 06, 2024.

Notably, the patent application was submitted under the International Patent Classification (IPC) system, which is managed by the World Intellectual Property Organization (WIPO). Inventor(s): ÇETİNKAYA, Ali (Cihangir Mahallesi Şehit Jandarma Komando Er Hakan Oner Sk. No:1Avcılar/Istanbul) Abstract: This invention; It is about the **artificial intelligence**-based emergency detection and notification system, which was developed in order to prevent many people from injury and loss of life by detecting disasters or accidents that may occur in areas where crowded groups of people work, such as factories, mines, business centers and its feature is; at least one electronic device (2) that makes the operating status of the control panel (1) visible, at least one of the sensors (3) or combinations of sensors that measure the air gas level, oxygen quality, carbon dioxide amount, carbon monoxide amount, humidity and temperature of the environment according to the objects in the environment, **artificial intelligence** algorithm (5) installed on the processor in the computing or central command system, using the information received with the infrastructure established by the IOT sensor module (4) at points such as factories and buildings, it contains at least one stimulus (6) that notifies visually or visually that an accident or **disaster** situation will occur as a result of the processing of the data coming from the said sensor (3) by the **artificial intelligence** algorithm (5). For more information: <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2024118006> For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

Classification

Language: ENGLISH

INTERNATIONAL PATENT: İSTANBUL GELİŞİM UN
İVERSİTESİ FILES APPLICATION FOR "ARTIFICIAL INTELLIGENCE BASED
EMERGENCY DETECTION....

Publication-Type: Newswire

Subject: PATENTS (93%); **ARTIFICIAL INTELLIGENCE** (90%); INTELLECTUAL PROPERTY (78%);
ACCIDENTS & DISASTERS (76%); CARBON MONOXIDE (76%); SAFETY, ACCIDENTS & DISASTERS (76%);
GAS SENSORS (70%); MANUFACTURING FACILITIES (70%)

Organization: WORLD INTELLECTUAL PROPERTY ORGANIZATION (83%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); GAS SENSORS (70%); MANUFACTURING FACILITIES (70%)

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International Telecommunication Union: India to Host World Conference on Priorities for Technology Standards

Targeted News Service

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Byline: Targeted News Service

Dateline: GENEVA, Switzerland

Body

The International Telecommunication Union, the United Nations specialized agency for information and communication technologies, issued the following news release on Sept. 10, 2024:

* * *

ITU's first standardization governing conference in Asia will set the course for innovation and cooperation

* * *

Policy-makers and industry leaders will consider priorities for international standards to support industry growth, innovation, and trust in new technologies at ITU's World Telecommunication Standardization Assembly (WTSA) (<https://www.itu.int/wtsa/2024/>), taking place from 15 to 24 October at New Delhi's Pragati Maidan conference and exhibition centre.

Standards from the International Telecommunication Union (ITU) support cost-effective, interoperable advancements in technology at a global scale. By capturing and creating a basis for continuous innovation, standards provide the foundation for new industries to grow and established industries to evolve.

Organized every four years, WTSA is the governing conference for the standardization work of ITU, the United Nations Agency for Digital Technologies.

"Standards are taking centre stage in global governance discussions," said Doreen Bogdan-Martin, ITU Secretary-General. "When countries gather in New Delhi for WTSA-24, they will have an opportunity to foster digital inclusion and trust - values that are more important than ever to ensure that innovation in fields like **artificial intelligence**, the metaverse, and quantum information technologies helps us create the future we want."

ITU's standardization work is driven by the contributions and consensus decisions of ITU's membership (<https://www.itu.int/hub/membership/>), including 193 Member States and over 1000 member companies, universities, and international and regional organizations.

International Telecommunication Union: India to Host World Conference on Priorities for Technology Standards

WTSA directs the agency's activities on standards and reviews the strategy, structure, and working methods of ITU's standardization arm (ITU-T). The conference also approves the mandates and appoints the leadership teams of ITU-T expert groups (<https://www.itu.int/en/ITU-T/studygroups/Pages/default.aspx>) for international standardization.

"Standards agreed by consensus create the confidence to continue innovating and investing," said Seizo Onoe, Director of ITU's Telecommunication Standardization Bureau. "With every breakthrough in science and technology comes wider transformation, and we must keep coming together to develop the standards required for people and economies to thrive while pushing new frontiers. That's what our standardization processes are built for."

WTSA-24 will be the first meeting of ITU's governing conference on standards to take place in Asia. In parallel, the exhibition centre will host a digital innovation festival showcasing the latest tech developments from India and the world.

"Our philosophy of Atithi Devo Bhava (Guest is akin to God) drives us to welcome the world's telecom leaders to our national capital, New Delhi, for WTSA-24," said Neeraj Mittal, Secretary of the Department of Telecommunications, Ministry of Communications, Government of India. "We are confident this assembly will set new benchmarks in standardization to drive sustainable growth in information and communication technologies."

The proceedings will begin on World Standards Day (<https://www.worldstandardsday.org/home.html>), 14 October, with the ITU Global Standards Symposium (<https://gss.itu.int/>) (GSS) exploring innovations in areas from **artificial intelligence (AI)** and the metaverse to secure digital finance and smart cities.

GSS-24, also taking place at New Delhi's Pragati Maidan, will include a high-level segment welcoming ministers and industry executives to discuss digital transformation ambitions and associated standardization demands.

The symposium will submit recommended actions for ITU's membership at WTSA-24.

GSS will also feature the inaugural session of ITU's new International **AI** Standards Summit (<https://aiforgood.itu.int/ai-standards/>), aimed at ensuring comprehensive standards for the fast-evolving **AI** landscape and intended to become a staple of ITU's annual **AI** for Good Global Summit series.

"I look forward to collaborative, constructive and collective efforts as the world's information and communication technology leaders come together in New Delhi for WTSA-24," said Ritu Ranjan Mittar, Chair Designate for WTSA-24.

What else is happening during WTSA-24?

The Network of Women in ITU standardization (<https://www.itu.int/wtsa/2024/now/>) will hold special sessions during WTSA-24 on women's leadership in the digital tech industry and supporting technical standardization processes.

Tech innovation in India will be on show at **AI** for Good Impact India (<https://aiforgood.itu.int/event/ai-for-good-impact-india/>), the first regional event under the umbrella of ITU's new **AI** for Good Impact Initiative (<https://aiforgood.itu.int/impact-initiative/>), which aims to expand the scope and impact of **AI** applications for sustainable development.

A Robotics for Good Youth Challenge (<https://aiforgood.itu.int/event/robotics-for-good-youth-challenge-india/>), held as part of **AI** for Good Impact India, will welcome teams of young Indian innovators to compete for prizes and global recognition for robotics solutions supporting **disaster** response.

Industry solutions and academic research on display

Alongside ITU's global conference, the WTSA Expo (<https://www.itu.int/wtsa/2024/expo/>) will demonstrate the latest industry solutions built to ITU standards. Companies from developing countries, particularly small and medium-sized enterprises (SMEs), can participate with support from the ITU Bridging the Standardization Gap programme (<https://www.itu.int/bsg/>) with funding from Japan.

International Telecommunication Union: India to Host World Conference on Priorities for Technology Standards

Access to the WTSA Expo will grant access to the co-located Indian Mobile Congress (<https://www.indiamobilecongress.com/>).

India will also organize a hackathon for students and startups (<https://www.delhiwtsa24.in/#/hss?lang=en>) in the run-up to WTSA and conferences on regulation and broadcasting alongside WTSA. For more information on these events and planning your trip to New Delhi, see the host country's WTSA website (<https://www.delhiwtsa24.in/>).

Additionally, the 15th edition of ITU's academic conference, ITU Kaleidoscope 2024: Innovation and digital transformation for a sustainable world (<https://www.itu.int/en/ITU-T/academia/kaleidoscope/2024/Pages/default.aspx>), will focus on research supporting sustainable digital transformation. The peer-reviewed conference series highlights emerging research trends and their implications for international standardization.

UN partnerships for humanity's future

A workshop organized by ITU and the World Health Organization (WHO) (<https://www.itu.int/go/safelistening/wtsa>) will advance the collaboration of the two UN system agencies on an upcoming international standard for safe listening in video gaming and esports to complement the existing ITU-WHO standard on the safe listening of music players.

A workshop organized by ITU, the UN Office for **Disaster** Risk Reduction and the UN Convention to Combat Desertification (<https://www.itu.int/en/ITU-T/Workshops-and-Seminars/2024/1017/Pages/default.aspx>) will support global efforts and associated standardization work to ensure that new technologies boost resilience to natural hazards and **disaster** risks.

WTSA will conclude on United Nations Day (<https://www.un.org/en/observances/un-day>) with ITU and fellow UN agencies celebrating partnerships to ensure that digital technologies help drive meaningful progress in sustainable development - from climate action and **disaster** resilience to financial inclusion, healthcare, road safety, and food security.

* * *

Editor's notes:

- A schedule of WTSA-24, GSS-24, and associated activities that are open for media coverage will be provided. Reporters can register for media accreditation at this link (<https://www.itu.int/net4/CRM/xreg/web/Login.aspx?src=Registration&Event=C-00014368>).
- For more information on international standards: Brokering standards by consensus (<https://www.itu.int/en/mediacentre/backgrounders/Pages/standardization.aspx>)
- For more information on the work of ITU's standardization arm: ITU-T: Setting the standard (<https://www.itu.int/en/mediacentre/backgrounders/Pages/itu-t-setting-the-standard.aspx>)
- For the latest information, please visit the WTSA-24 newsroom (<https://www.itu.int/wtsa/2024/newsroom/>)

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About ITU

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International Telecommunication Union: India to Host World Conference on Priorities for Technology Standards

world, and establishing the worldwide standards that foster seamless interconnection of a vast range of communications systems. From broadband networks to cutting-edge wireless technologies, aeronautical and maritime navigation, radio astronomy, oceanographic and satellite-based earth monitoring as well as converging fixed-mobile phone, Internet and broadcasting technologies, ITU is committed to connecting the world. Learn more: www.itu.int.

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MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

States News Service

February 1, 2024 Thursday

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The following information was released by the office of Virginia Rep. Don Beyer:

Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, Representative Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, and Representative Don Beyer (VA-08), vice-chair of the House **AI** Caucus, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as by accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"There is a Dickensian quality to the use of **AI** when it comes to our environment: It can make our planet better, and it can make our planet worse," said Senator Markey. "Our **AI** Environmental Impacts Act would set clear standards and voluntary reporting guidelines to measure **AI**'s impact on our environment. The development of the next generation of **AI** tools cannot come at the expense of the health of our planet. I thank Senator Heinrich, Representative Eshoo, and Representative Beyer, for their partnership in making sure that **AI** contributes to a more livable future for generations to come."

"**AI** offers incredible possibilities for our country, but that comes with high environmental costs," said Representative Eshoo. "The resources necessary to research and develop **AI** are intensive, and as **AI** systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of **AI** development and use. I'm proud to introduce the **Artificial Intelligence** Environmental Impacts Act to conduct a

MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

comprehensive study on AI's environmental impacts, identify standards needed to measure those impacts, and create a system for AI developers to report the full range of their environmental impacts."

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Representative Beyer. "While recognizing the ways AI can help us decrease emissions in other sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

A copy of the legislation can be found [HERE](#).

Cosponsors in the Senate include Senators Ron Wyden (D-Ore.), Peter Welch (D-Vt.), Alex Padilla (D-Calif.), and Cory Booker (D-N.J.).

Specifically, the Artificial Intelligence Environmental Impacts Act would:

Require a Study on the Environmental Impacts of AI: The Environmental Protection Agency (EPA) would conduct a comprehensive study on the environmental impact of AI within two years. The study would examine AI models and hardware's lifecycle, including energy consumption, pollution, and e-waste, as well as assess the positive and negative environmental impacts of AI's applications.

Convene an AI Environmental Impacts Consortium: NIST would convene a consortium of stakeholders to identify measurement needs and standards for AI's environmental impacts.

Create a Voluntary Reporting System: NIST would develop a system for entities developing or operating AI to voluntarily report the full range of AI's environmental impacts.

Direct a Report to Congress: Within four years, the EPA, the Department of Energy, and NIST would submit a joint report to Congress, detailing the consortium's findings and describing the voluntary reporting system, as well as providing recommendations for further legislative and executive action.

The legislation is endorsed by Hugging Face, Data and Society, Climate Change AI, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for AI and Digital Policy, Friends of the Earth Action, Kairos Action, EkA, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, Sustainable Digital Infrastructure Alliance, and Access Now.

"Recent advances in AI have great potential to help us tackle big societal challenges," said Emma Strubell, Assistant Professor at Carnegie Mellon University. "However, there is increasing evidence that the development and use of AI can have a negative impact on the environment due to unprecedented computational requirements. Our understanding of the true scale and scope of these impacts is still nascent, limited by access to the necessary data and standards for reporting. Senator Markey's AI Environmental Impacts Act provides a roadmap for elucidating the complex relationship between AI and the environment, which will be critical to ensuring that AI technology is developed and deployed so as to have a net positive impact on our environment and society."

"The environmental impacts of AI technologies are undeniable - from the energy to power model training, and deployment, to the water needed to cool data centers and the rare earth metals to manufacture the hardware," said Dr. Sasha Luccioni, Climate Lead at Hugging Face. "This bill will help shed some much-needed light on the extent of these impacts and how they're evolving over time."

"Senator Markey and Senator Heinrich's legislation will address a critical, yet underexplored aspect of AI its environmental footprint," said Dr. Roy Schwartz, Senior Lecturer at the Hebrew University of Jerusalem. "The bill will promote transparency regarding the environmental aspects of AI tools, allowing organizations to both report and, as a result, mitigate their negative environmental effects. This act could not have come at a better time, as these tools are becoming ubiquitous, requiring larger amounts of energy to build and deploy them, water for cooling their servers, and land to build data centers for them."

MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE
ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

"This legislation provides a crucial step towards aligning society's use of **AI** with climate change goals, by helping us measure the impacts of **AI**'s inputs and applications, and therefore take more targeted action to shape those impacts," said Dr. Priya Donti, Co-founder and Chair of Climate Change **AI**.

"As the use of **AI** rapidly increases, society needs to understand how this new technology impacts the environment," said Erik Kojola, Senior Climate Research Specialist at Greenpeace USA. "This means we need a rigorous system for tracking energy use and carbon emissions. The **Artificial Intelligence** Environmental Impacts Act of 2024 is a vital step in creating that system and studying how **AI** contributes to the climate crisis. This will bring much-needed transparency and accountability to the emerging **AI** industry."

"The Center for **AI** and Digital Policy strongly supports the **Artificial Intelligence** Environmental Impacts Act," said Merve Hickok, President of the Center for **AI** and Digital Policy. "Senator Markey and Senator Heinrich's bold initiative addresses one of the greatest challenges in the **AI** sector - the possible acceleration of climate change. We need research and analysis to assess the environmental impact of **AI** systems. The **AI** Environments Impacts Act should be a top priority for Senate consideration."

"**Artificial Intelligence** has become the latest tool in the Silicon Valley corporate race, with every company trying to put out **AI**-driven products in order to stay competitive," said Dom Leon-Davis, Deputy Director of Program and Strategy for Kairos Action. "If left unchecked, this rapid development pushed by tech executives can and will harm the planet we live on, particularly affecting poor, Black and Brown communities who already struggle to breathe clean air and drink clean water. From increased energy use to e-waste, and impacts that are unknown to us we need regulation like this now. We're glad to see this act take steps in the right direction of creating a world where tech works for all of us."

"The public deserves to know the very basics about how **AI** tools affect our material world," said Caitriona Fitzgerald, Deputy Director at the Electronic Privacy Information Center.

"By creating transparency around **AI**'s impact on our environment, the **Artificial Intelligence** Environmental Impacts Act of 2024 will give the public and policymakers a tool for pressuring technology companies to develop their products in line with our collective health and safety."

"As Lord Kelvin wisely stated, 'To measure is to know.' We enthusiastically welcome and are eager to collaborate on Senators Markey and Heinrich's initiative, as the United States takes a leading role in driving transparency and setting global standards," said Max Schulze, Director of the Sustainable Digital Infrastructure Alliance. "This initiative crucially creates visibility for the environmental costs of **artificial intelligence**, encompassing not just the models but their usage as well. We particularly endorse the holistic approach taken, going beyond mere energy consumption to consider all environmental impacts across the **AI** supply chain. This is vital for developing sustainable and responsible **AI** practices globally."

"Right now, there is significant uncertainty about the impact of **AI** on the environment," said Peter Henderson, Assistant Professor at Princeton University. "On one hand, it could be used to improve infrastructure and systems for better efficiency, on the other hand it could harm the environment through increased demand for materials, manufacturing, and energy usage. The government has a large role to play in ensuring that **AI** is a net positive for the environment, by promoting transparency and innovation around **AI**'s environmental impacts. I applaud Senator Markey and Senator Heinrich for introducing this Bill that will provide a roadmap toward positive outcomes."

"One of the many unknowns about **AI** is its impact on the environment," said Kaili Lambe, Policy and Advocacy Director at Accountable Tech. "As rapid advances have led to increasingly widespread use of LLMs and other data-intensive **AI** systems, it's imperative that we understand and take steps to mitigate unintended harm, including the potential for environmental degradation. Too often transparency takes a backseat when it comes to Big Tech innovation. Senators Markey and Heinrich's legislation offers an opportunity to gain critical insight into the environmental impact of **AI**, and we are eager to see it pass."

MARKEY, HEINRICH, ESHOO, BEYER INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

"**AI** technologies are spreading rapidly, with the potential for major impacts on society," said Jennifer Jones, Director of the Center for Science and Democracy at the Union of Concerned Scientists. "We must fully understand both the benefits and the risks, of these technologies including intensive energy consumption and creation of environmental waste that harms people and nature. We have a responsibility to track the environmental impacts of **AI**, to ensure this information is publicly available and to help us plan to mitigate those harms. Importantly, the bill will allow stakeholders, including civil society, to examine and report on the full life cycle of **artificial intelligence** models, systems, and hardware bringing the voices of the most impacted communities to the table."

"Right now, we have only a limited understanding of the depth and scale of **AI**'s environmental impacts but what we do know is alarming," said Brian J. Chen, Policy Director at Data and Society. "**AI**'s massive energy consumption and pollution effects are likely to exacerbate global warming and climate **disaster**. The **AI** Environmental Impacts Act lays an important research foundation for a better-grounded understanding of the technology's harms to people, communities, and habitats."

"What gets measured gets managed," said Michelle Thorne, Director of Strategy and Partnerships at the Green Web Foundation. "We at the Green Web Foundation welcome this bill as an important step towards transparency of the environmental impacts of **AI**. To date, the lack of consistent and comparable data has been a blocker for technologists, researchers, policymakers and civil society. This bill will help enable more data-informed discussions about how resources are allocated to computing."

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Company: **AI** SYSTEMS (51%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (56%)

Industry: SIC7372 PREPACKAGED SOFTWARE (51%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENERGY & UTILITIES (90%); ALTERNATIVE & RENEWABLE ENERGY (77%); EMISSIONS (77%); ENERGY EFFICIENCY & CONSERVATION (77%); ENERGY DEMAND (76%); DATA CENTERS (74%)

Person: DON BEYER (92%); ANNA G ESHOO (89%); EDWARD J MARKEY (89%); MARTIN HEINRICH (79%)

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Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

Targeted News Service

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Body

Rep. Anna G. Eshoo, D-California, issued the following news release:

U.S. Congresswoman Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, U.S. Congressman Don Beyer, vice-chair of the House **AI** Caucus, Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, and Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.Â

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"**AI** offers incredible possibilities for our country, but that comes with high environmental costs," said Rep. Eshoo. "The resources necessary to research and develop **AI** are intensive, and as **AI** systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of **AI** development and use. I'm proud to introduce the **Artificial Intelligence** Environmental Impacts Act to conduct a comprehensive study on **AI's** environmental impacts, identify standards needed to measure those impacts, and create a system for **AI** developers to report the full range of their environmental impacts."

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Rep. Beyer. "While recognizing the ways **AI** can help us decrease emissions in other

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

"There is a Dickensian quality to the use of AI when it comes to our environment: It can make our planet better, and it can make our planet worse," said Senator Markey. "Our AI Environmental Impacts Act would set clear standards and voluntary reporting guidelines to measure AI's impact on our environment. The development of the next generation of AI tools cannot come at the expense of the health of our planet. I thank Senator Heinrich, Congresswoman Eshoo and Congressman Beyer for their partnership in making sure that AI contributes to a more livable future for generations to come."

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The legislation is endorsed by Hugging Face, Data and Society, Climate Change AI, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for AI and Digital Policy, Friends of the Earth Action, Kairos Action, Eko, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, and Sustainable Digital Infrastructure Alliance.

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Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence

will allow stakeholders, including civil society, to examine and report on the full life cycle of **artificial intelligence** models, systems, and hardware--bringing the voices of the most impacted communities to the table."

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"What gets measured gets managed," said Michelle Thorne, Senior Advisor at the Green Web Foundation. "We at the Green Web Foundation welcome this bill as an important step towards transparency of the environmental impacts of **AI**. To date, the lack of consistent and comparable data has been a blocker for technologists, researchers, policymakers and civil society. This bill will help enable more data-informed discussions about how resources are allocated to computing."

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Company: **AI** SYSTEMS (53%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (56%)

Industry: SIC7372 PREPACKAGED SOFTWARE (53%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENERGY & UTILITIES (90%); EMISSIONS (89%); ALTERNATIVE & RENEWABLE

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NEW COMPUTER VISION TOOL WINS PRIZE FOR SOCIAL IMPACT

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Body

The following information was released by the University of Massachusetts - Amherst:

DISCount, created at UMass Amherst, derived from two very different needs: Counts of damaged buildings in crisis zones and bird flock sizes

A team of computer scientists at the University of Massachusetts Amherst working on two different problems show to quickly detect damaged buildings in crisis zones and how to accurately estimate the size of bird flocks recently announced an **AI** framework that can do both. The framework, called DISCount, blends the speed and massive data-crunching power of **artificial intelligence** with the reliability of human analysis to quickly deliver reliable estimates that can quickly pinpoint and count specific features from very large collections of images. The research, published by the Association for the Advancement of **Artificial Intelligence**, has been recognized by that association with an award for the best paper on **AI** for social impact.

"DISCount came together as two very different applications," says Subhransu Maji, associate professor of information and computer sciences at UMass Amherst and one of the paper's authors. "Through UMass Amherst's Center for Data Science, we have been working with the Red Cross for years in helping them to build a computer vision tool that could accurately count buildings damaged during events like earthquakes or wars. At the same time, we were helping ornithologists at Colorado State University and the University of Oklahoma interested in using weather radar data to get accurate estimates of the size of bird flocks."

Image

The Palu Tsunami, which struck Indonesia in 2018. The data consisted of 113 high-resolution satellite images. Counts of the buildings and their damage levels were collected per tile using before- and after-**disaster** satellite images. Colors indicate different levels of damage (red = destroyed), and DISCount gave an estimate of damaged buildings per sub-region.

Maji and his co-authors, lead author Gustavo Perez, who completed this research as part of his doctoral training at UMass Amherst, and Dan Sheldon, associate professor of information and computer sciences at UMass Amherst, thought they could solve the damaged-buildings-and-bird-flock problems with computer vision, a type of **AI** that can scan enormous archives of images in search of something particular a bird, a rubble pile and count it.

NEW COMPUTER VISION TOOL WINS PRIZE FOR SOCIAL IMPACT

But the team was running into the same roadblocks on each project: "the standard computer vision models were not accurate enough," says Perez. "We wanted to build automated tools that could be used by non-**AI** experts, but which could provide a higher degree of reliability."

The answer, says Sheldon, was to fundamentally rethink the typical approaches to solving counting problems.

"Typically, you either have humans do time-intensive and accurate hand-counts of a very small data set, or you have computer vision run less-accurate automated counts of enormous data sets," Sheldon says. "We thought: why not do both?"

DISCount is a framework that can work with any already existing **AI** computer vision model. It works by using the **AI** to analyze the very large data set, say, all the images taken of a particular region in a decade to determine which particular smaller set of data a human researcher should look at. This smaller set could, for example, be all the images from a few critical days that the computer vision model has determined best show the extent of building damage in that region. The human researcher could then hand-count the damaged buildings from the much smaller set of images and the algorithm will use them to extrapolate the number of buildings affected across the entire region. Finally, DISCount will estimate how accurate the human-derived estimate is.

"DISCount works significantly better than random sampling for the tasks we considered," says Perez. "And part of the beauty of our framework is that it is compatible with any computer-vision model, which lets the researcher select the best **AI** approach for their needs. Because it also gives a confidence interval, it gives researchers the ability to make informed judgments about how good their estimates are."

"In retrospect, we had a relatively simple idea," says Sheldon. "But that small mental shift that we didn't have to choose between human and **artificial intelligence**, has let us build a tool that is faster, more comprehensive, and more reliable than either approach alone."

Classification

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NEW COMPUTER VISION TOOL WINS PRIZE FOR SOCIAL IMPACT

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Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Don Beyer (D- VA) News Relea....

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence; Rep. Don Beyer (D-VA) News Release

Congressional Documents and Publications

February 1, 2024

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Section: U.S. HOUSE OF REPRESENTATIVES DOCUMENTS

Length: 2160 words

Body

Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, Representative Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, and Representative Don Beyer (VA-08), vice-chair of the House **AI** Caucus, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as by accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"There is a Dickensian quality to the use of **AI** when it comes to our environment: It can make our planet better, and it can make our planet worse," said Senator Markey. "Our **AI** Environmental Impacts Act would set clear standards and voluntary reporting guidelines to measure **AI's** impact on our environment. The development of the next generation of **AI** tools cannot come at the expense of the health of our planet. I thank Senator Heinrich, Representative Eshoo, and Representative Beyer, for their partnership in making sure that **AI** contributes to a more livable future for generations to come."

"**AI** offers incredible possibilities for our country, but that comes with high environmental costs," said Representative Eshoo. "The resources necessary to research and develop **AI** are intensive, and as **AI** systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of **AI** development and use. I'm proud to introduce the **Artificial Intelligence** Environmental Impacts Act to conduct a comprehensive study on **AI's** environmental impacts, identify standards needed to measure those impacts, and create a system for **AI** developers to report the full range of their environmental impacts."

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Don Beyer (D- VA) News Relea....

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Representative Beyer. "While recognizing the ways **AI** can help us decrease emissions in other sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

Cosponsors in the Senate include Senators Ron Wyden (D-Ore.), Peter Welch (D-Vt.), Alex Padilla (D-Calif.), and Cory Booker (D-N.J.).

Specifically, the **Artificial Intelligence** Environmental Impacts Act would:

- * Require a Study on the Environmental Impacts of **AI**: The Environmental Protection Agency (EPA) would conduct a comprehensive study on the environmental impact of **AI** within two years. The study would examine **AI** models and hardware's lifecycle, including energy consumption, pollution, and e-waste, as well as assess the positive and negative environmental impacts of **AI**'s applications.
- * Convene an **AI** Environmental Impacts Consortium: NIST would convene a consortium of stakeholders to identify measurement needs and standards for **AI**'s environmental impacts.
- * Create a Voluntary Reporting System: NIST would develop a system for entities developing or operating **AI** to voluntarily report the full range of **AI**'s environmental impacts.
- * Direct a Report to Congress: Within four years, the EPA, the Department of Energy, and NIST would submit a joint report to Congress, detailing the consortium's findings and describing the voluntary reporting system, as well as providing recommendations for further legislative and executive action.

The legislation is endorsed by Hugging Face, Data and Society, Climate Change **AI**, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for **AI** and Digital Policy, Friends of the Earth Action, Kairos Action, Eko, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, Sustainable Digital Infrastructure Alliance, and Access Now.

"Recent advances in **AI** have great potential to help us tackle big societal challenges," said Emma Strubell, Assistant Professor at Carnegie Mellon University. "However, there is increasing evidence that the development and use of **AI** can have a negative impact on the environment due to unprecedented computational requirements. Our understanding of the true scale and scope of these impacts is still nascent, limited by access to the necessary data and standards for reporting. Senator Markey's **AI** Environmental Impacts Act provides a roadmap for elucidating the complex relationship between **AI** and the environment, which will be critical to ensuring that **AI** technology is developed and deployed so as to have a net positive impact on our environment and society."

"The environmental impacts of **AI** technologies are undeniable - from the energy to power model training, and deployment, to the water needed to cool data centers and the rare earth metals to manufacture the hardware," said Dr. Sasha Luccioni, Climate Lead at Hugging Face. "This bill will help shed some much-needed light on the extent of these impacts and how they're evolving over time."

"Senator Markey and Senator Heinrich's legislation will address a critical, yet underexplored aspect of **AI** - its environmental footprint," said Dr. Roy Schwartz, Senior Lecturer at the Hebrew University of Jerusalem. "The bill will promote transparency regarding the environmental aspects of **AI** tools, allowing organizations to both report and, as a result, mitigate their negative environmental effects. This act could not have come at a better time, as these tools are becoming ubiquitous, requiring larger amounts of energy to build and deploy them, water for cooling their servers, and land to build data centers for them."

"This legislation provides a crucial step towards aligning society's use of **AI** with climate change goals, by helping us measure the impacts of **AI**'s inputs and applications, and therefore take more targeted action to shape those impacts," said Dr. Priya Danti, Co-founder and Chair of Climate Change **AI**.

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Don Beyer (D- VA) News Relea....

"As the use of **AI** rapidly increases, society needs to understand how this new technology impacts the environment," said Erik Kojola, Senior Climate Research Specialist at Greenpeace USA. "This means we need a rigorous system for tracking energy use and carbon emissions. The **Artificial Intelligence** Environmental Impacts Act of 2024 is a vital step in creating that system and studying how **AI** contributes to the climate crisis. This will bring much-needed transparency and accountability to the emerging **AI** industry."

"The Center for **AI** and Digital Policy strongly supports the **Artificial Intelligence** Environmental Impacts Act," said Merve Hickok, President of the Center for **AI** and Digital Policy. "Senator Markey and Senator Heinrich's bold initiative addresses one of the greatest challenges in the **AI** sector - the possible acceleration of climate change. We need research and analysis to assess the environmental impact of **AI** systems. The **AI** Environments Impacts Act should be a top priority for Senate consideration."

"**Artificial Intelligence** has become the latest tool in the Silicon Valley corporate race, with every company trying to put out **AI**-driven products in order to stay competitive," said Dom Leon-Davis, Deputy Director of Program and Strategy for Kairos Action. "If left unchecked, this rapid development pushed by tech executives can and will harm the planet we live on, particularly affecting poor, Black and Brown communities who already struggle to breathe clean air and drink clean water. From increased energy use to e-waste, and impacts that are unknown to us -- we need regulation like this now. We're glad to see this act take steps in the right direction of creating a world where tech works for all of us."

"The public deserves to know the very basics about how **AI** tools affect our material world," said Caitriona Fitzgerald, Deputy Director at the Electronic Privacy Information Center.

"By creating transparency around **AI**'s impact on our environment, the **Artificial Intelligence** Environmental Impacts Act of 2024 will give the public and policymakers a tool for pressuring technology companies to develop their products in line with our collective health and safety."

"As Lord Kelvin wisely stated, 'To measure is to know.' We enthusiastically welcome and are eager to collaborate on Senators Markey and Heinrich's initiative, as the United States takes a leading role in driving transparency and setting global standards," said Max Schulze, Director of the Sustainable Digital Infrastructure Alliance. "This initiative crucially creates visibility for the environmental costs of **artificial intelligence**, encompassing not just the models but their usage as well. We particularly endorse the holistic approach taken, going beyond mere energy consumption to consider all environmental impacts across the **AI** supply chain. This is vital for developing sustainable and responsible **AI** practices globally."

"Right now, there is significant uncertainty about the impact of **AI** on the environment," said Peter Henderson, Assistant Professor at Princeton University. "On one hand, it could be used to improve infrastructure and systems for better efficiency, on the other hand it could harm the environment through increased demand for materials, manufacturing, and energy usage. The government has a large role to play in ensuring that **AI** is a net positive for the environment, by promoting transparency and innovation around **AI**'s environmental impacts. I applaud Senator Markey and Senator Heinrich for introducing this Bill that will provide a roadmap toward positive outcomes."

"One of the many unknowns about **AI** is its impact on the environment," said Kaili Lambe, Policy and Advocacy Director at Accountable Tech. "As rapid advances have led to increasingly widespread use of LLMs and other data-intensive **AI** systems, it's imperative that we understand and take steps to mitigate unintended harm, including the potential for environmental degradation. Too often transparency takes a backseat when it comes to Big Tech innovation. Senators Markey and Heinrich's legislation offers an opportunity to gain critical insight into the environmental impact of **AI**, and we are eager to see it pass."

"**AI** technologies are spreading rapidly, with the potential for major impacts on society," said Jennifer Jones, Director of the Center for Science and Democracy at the Union of Concerned Scientists. "We must fully understand both the benefits and the risks, of these technologies--including intensive energy consumption and creation of environmental waste that harms people and nature. We have a responsibility to track the environmental impacts of **AI**, to ensure this information is publicly available and to help us plan to mitigate those harms. Importantly, the bill

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Don Beyer (D- VA) News Relea....

will allow stakeholders, including civil society, to examine and report on the full life cycle of **artificial intelligence** models, systems, and hardware--bringing the voices of the most impacted communities to the table."

"Right now, we have only a limited understanding of the depth and scale of **AI**'s environmental impacts--but what we do know is alarming," said Brian J. Chen, Policy Director at Data and Society. "**AI**'s massive energy consumption and pollution effects are likely to exacerbate global warming and climate **disaster**. The **AI** Environmental Impacts Act lays an important research foundation for a better-grounded understanding of the technology's harms to people, communities, and habitats."

"What gets measured gets managed," said Michelle Thorne, Director of Strategy and Partnerships at the Green Web Foundation. "We at the Green Web Foundation welcome this bill as an important step towards transparency of the environmental impacts of **AI**. To date, the lack of consistent and comparable data has been a blocker for technologists, researchers, policymakers and civil society. This bill will help enable more data-informed discussions about how resources are allocated to computing."

Read this original document at: <https://beyer.house.gov/news/documentsingle.aspx?DocumentID=6076>

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Company: **AI** SYSTEMS (51%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (57%)

Industry: SIC7372 PREPACKAGED SOFTWARE (51%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENERGY & UTILITIES (90%); ALTERNATIVE & RENEWABLE ENERGY (78%); EMISSIONS (78%); ENERGY EFFICIENCY & CONSERVATION (78%); ENERGY DEMAND (77%); DATA CENTERS (74%); WASTE PRODUCTS (71%)

Person: DON BEYER (92%); ANNA G ESHOO (89%); EDWARD J MARKEY (89%); MARTIN HEINRICH (79%)

Markey, Heinrich, Eshoo, Beyer Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Don Beyer (D- VA) News Relea....

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REPS. ESHOO AND BEYER, SENATORS MARKEY AND HEINRICH INTRODUCE LEGISLATION TO
INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

REPS. ESHOO AND BEYER, SENATORS MARKEY AND HEINRICH INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

States News Service

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Dateline: WASHINGTON

Body

The following information was released by the office of California Rep. Anna G. Eshoo:

U.S. Congresswoman Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, U.S. Congressman Don Beyer, vice-chair of the House **AI** Caucus, Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, and Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"**AI** offers incredible possibilities for our country, but that comes with high environmental costs," said Rep. Eshoo. "The resources necessary to research and develop **AI** are intensive, and as **AI** systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of **AI** development and use. I'm proud to introduce the **Artificial Intelligence** Environmental Impacts Act to conduct a comprehensive study on **AI's** environmental impacts, identify standards needed to measure those impacts, and create a system for **AI** developers to report the full range of their environmental impacts."

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Rep. Beyer. "While recognizing the ways **AI** can help us decrease emissions in other sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

REPS. ESHOO AND BEYER, SENATORS MARKEY AND HEINRICH INTRODUCE LEGISLATION TO INVESTIGATE, MEASURE ENVIRONMENTAL IMPACTS OF ARTIFICIAL INTELLIGENCE

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A copy of the legislation can be found [HERE](#).

Cosponsors in the Senate include Senators Ron Wyden (D-Ore.), Peter Welch (D-Vt.), Alex Padilla (D-Calif.), and Cory Booker (D-N.J.).

Specifically, the Artificial Intelligence Environmental Impacts Act would:

Require a Study on the Environmental Impacts of AI: The Environmental Protection Agency (EPA) will conduct a comprehensive study on the environmental impact of AI within two years. The study will examine AI models and hardware's lifecycle, including energy consumption, pollution, and e-waste, as well as assess the positive and negative environmental impacts of AI's applications.

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Create a Voluntary Reporting System: NIST will develop a system for entities developing or operating AI to voluntarily report the full range of AI's environmental impacts.

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The legislation is endorsed by Hugging Face, Data and Society, Climate Change AI, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for AI and Digital Policy, Friends of the Earth Action, Kairos Action, EkÅ, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, and Sustainable Digital Infrastructure Alliance.

"Recent advances in AI have great potential to help us tackle big societal challenges," said Emma Strubell, Assistant Professor at Carnegie Mellon University. "However, there is increasing evidence that the development and use of AI can have a negative impact on the environment due to unprecedented computational requirements. Our understanding of the true scale and scope of these impacts is still nascent, limited by access to the necessary data and standards for reporting. Senator Markey's AI Environmental Impacts Act provides a roadmap for elucidating the complex relationship between AI and the environment, which will be critical to ensuring that AI technology is developed and deployed so as to have a net positive impact on our environment and society."

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"The Center for **AI** and Digital Policy strongly supports the **Artificial Intelligence** Environmental Impacts Act," said Merve Hickok, President of the Center for **AI** and Digital Policy. "Senator Markey and Senator Heinrich's bold initiative addresses one of the greatest challenges in the **AI** sector - the possible acceleration of climate change. We need research and analysis to assess the environmental impact of **AI** systems. The **AI** Environments Impacts Act should be a top priority for Senate consideration,"

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Company: **AI** SYSTEMS (53%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (56%)

Industry: SIC7372 PREPACKAGED SOFTWARE (53%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENERGY & UTILITIES (90%); EMISSIONS (89%); ALTERNATIVE & RENEWABLE ENERGY (77%); ENERGY EFFICIENCY & CONSERVATION (77%); ENERGY DEMAND (75%); DATA CENTERS (74%)

Person: EDWARD J MARKEY (92%); ANNA G ESHOO (89%); DON BEYER (79%); MARTIN HEINRICH (79%)

Geographic: CALIFORNIA, USA (79%); UNITED STATES (79%)

REPS. ESHOO AND BEYER, SENATORS MARKEY AND HEINRICH INTRODUCE LEGISLATION TO
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27TH CSTD SIDE EVENT: PANEL DISCUSSION ON DATA-DRIVEN SERVICES FOR COUNTRIES:
ADVANCING DEVELOPMENT THROUGH EARTH INTELLIGENCE

**27TH CSTD SIDE EVENT: PANEL DISCUSSION ON DATA-DRIVEN SERVICES
FOR COUNTRIES: ADVANCING DEVELOPMENT THROUGH EARTH
INTELLIGENCE**

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The following information was released by the United Nations Conference on Trade and Development:

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Scientific research's evolution hinges on advancements in data and **AI**, catalyzing transformative breakthroughs across crucial fields. The synergy between data-driven innovations and **artificial intelligence** promises to propel scientific progress into a new era of unprecedented discoveries. In Earth observations, **AI** emerges as a potent tool, extracting invaluable insights from vast datasets, enabling precise environmental monitoring, and enhancing **disaster** prediction. This fusion accelerates data analysis while offering fresh perspectives on understanding our planet's intricate systems, revolutionizing our approach to scientific inquiry.

This panel discussion featuring experts in the Earth observations realm will explore the integration of **AI** with Earth observations, with the objective of facilitating a robust dialogue on the potential of Earth intelligence in addressing key challenges faced by countries such as food security, heat resilience, and environmental monitoring. By sharing experiences and best practices, the event aims to inspire attendees to consider innovative approaches in leveraging Earth intelligence for sustainable development.

The intended outcome is to foster collaboration, spark new ideas, and equip participants with actionable insights to drive positive change in their respective countries.

The event is aimed at country representatives and experts who wish to explore innovative technologies and Earth data solutions for sustainable development. Prior to the event, there will be a brief lunch service from 13:00 to 13:20.

Classification

Language: ENGLISH

Publication-Type: Newswire

27TH CSTD SIDE EVENT: PANEL DISCUSSION ON DATA-DRIVEN SERVICES FOR COUNTRIES:
ADVANCING DEVELOPMENT THROUGH EARTH INTELLIGENCE

Subject: **ARTIFICIAL INTELLIGENCE** (90%); CONFERENCES & CONVENTIONS (78%); DATA ANALYTICS (78%); EXPERIMENTATION & RESEARCH (78%); SCIENCE & TECHNOLOGY (78%); SCIENTIFIC METHOD (78%); SUSTAINABLE DEVELOPMENT (78%); TECHNOLOGY (78%); TRADE DEVELOPMENT (78%); UNITED NATIONS (78%); BEST PRACTICES (77%); EMERGING TECHNOLOGY (77%); ENVIRONMENTAL TESTING (75%); INTERNATIONAL ECONOMIC ORGANIZATIONS (75%); SUSTAINABILITY (75%); PRODUCT INNOVATION (72%); FOOD SECURITY (68%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); INFORMATION MANAGEMENT & TECHNOLOGY (90%); DATA ANALYTICS (78%); SUSTAINABLE DEVELOPMENT (78%)

Geographic: GENEVA, SWITZERLAND (79%); EARTH (92%); SWITZERLAND (59%)

Load-Date: April 9, 2024

End of Document

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Anna G.

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence; Rep. Anna G. Eshoo (D-CA) News Release

Congressional Documents and Publications

February 1, 2024

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Section: U.S. HOUSE OF REPRESENTATIVES DOCUMENTS

Length: 2110 words

Body

Washington, D.C. - U.S. Congresswoman Anna Eshoo (CA-16), co-chair of the House **AI** Caucus, U.S. Congressman Don Beyer, vice-chair of the House **AI** Caucus, Senator Edward J. Markey (D-Mass.), chair of the Senate Environment and Public Works Subcommittee on Clean Air, Climate, and Nuclear Safety, and Senator Martin Heinrich (D-N.M.), founder and co-chair of the Senate **AI** Caucus and a member of the Senate Energy and Natural Resources Committee, today introduced the **Artificial Intelligence** Environmental Impacts Act of 2024. The legislation would direct the National Institute of Standards and Technology (NIST) to develop standards to measure and report the full range of **artificial intelligence's (AI)** environmental impacts, as well as create a voluntary framework for **AI** developers to report environmental impacts.

The legislation also requires an interagency study to investigate and measure both the positive and negative environmental impacts of **AI**. While researchers increasingly highlight that **AI** can help tackle environmental challenges, such as accelerating clean energy innovation, providing better weather forecasts, and improving cooling efficiency, the rapid growth of **AI** also comes with environmental harms. For example, increasing **AI** use could contribute to data center electricity demand doubling by 2026, leading to more carbon emissions. Demand for water to cool data centers is already creating concerns about water supplies, and the chips needed to run **AI** software are contributing to a growing mountain of electronic waste.

"**AI** offers incredible possibilities for our country, but that comes with high environmental costs," said Rep. Eshoo. "The resources necessary to research and develop **AI** are intensive, and as **AI** systems grow in scale and become more widely used across various sectors of society, it's critical to understand the environmental impacts of **AI** development and use. I'm proud to introduce the **Artificial Intelligence** Environmental Impacts Act to conduct a comprehensive study on **AI's** environmental impacts, identify standards needed to measure those impacts, and create a system for **AI** developers to report the full range of their environmental impacts."

"Understanding the environmental impacts of this quickly growing technology is critical so that we can begin to address those impacts," said Rep. Beyer. "While recognizing the ways **AI** can help us decrease emissions in other sectors and develop innovative climate solutions, we need to ensure we are being responsible with the adverse impacts it may have on our environment now."

"There is a Dickensian quality to the use of **AI** when it comes to our environment: It can make our planet better, and it can make our planet worse," said Senator Markey. "Our **AI** Environmental Impacts Act would set clear standards and voluntary reporting guidelines to measure **AI's** impact on our environment. The development of the next

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Anna G.

generation of **AI** tools cannot come at the expense of the health of our planet. I thank Senator Heinrich, Congresswoman Eshoo and Congressman Beyer for their partnership in making sure that **AI** contributes to a more livable future for generations to come."

Cosponsors in the Senate include Senators Ron Wyden (D-Ore.), Peter Welch (D-Vt.), Alex Padilla (D-Calif.), and Cory Booker (D-N.J.).

Specifically, the **Artificial Intelligence** Environmental Impacts Act would:

- * Require a Study on the Environmental Impacts of **AI**: The Environmental Protection Agency (EPA) will conduct a comprehensive study on the environmental impact of **AI** within two years. The study will examine **AI** models and hardware's lifecycle, including energy consumption, pollution, and e-waste, as well as assess the positive and negative environmental impacts of **AI**'s applications.
- * Convene an **AI** Environmental Impacts Consortium: NIST will convene a consortium of stakeholders to identify measurement needs and standards for **AI**'s environmental impacts.
- * Create a Voluntary Reporting System: NIST will develop a system for entities developing or operating **AI** to voluntarily report the full range of **AI**'s environmental impacts.
- * Direct a Report to Congress: Within four years, the EPA, the Department of Energy, and NIST must submit a joint report to Congress, detailing the consortium's findings and describing the voluntary reporting system, as well as providing recommendations for further legislative and executive action.

The legislation is endorsed by Hugging Face, Data and Society, Climate Change **AI**, Public Citizen, Sierra Club, Electronic Privacy Information Center, Greenpeace USA, Center for **AI** and Digital Policy, Friends of the Earth Action, Kairos Action, Eko, Accountable Tech, Encode Justice, Union of Concerned Scientists, Fidutam, Green Web Foundation, and Sustainable Digital Infrastructure Alliance.

"Recent advances in **AI** have great potential to help us tackle big societal challenges," said Emma Strubell, Assistant Professor at Carnegie Mellon University. "However, there is increasing evidence that the development and use of **AI** can have a negative impact on the environment due to unprecedented computational requirements. Our understanding of the true scale and scope of these impacts is still nascent, limited by access to the necessary data and standards for reporting. Senator Markey's **AI** Environmental Impacts Act provides a roadmap for elucidating the complex relationship between **AI** and the environment, which will be critical to ensuring that **AI** technology is developed and deployed so as to have a net positive impact on our environment and society."

"The environmental impacts of **AI** technologies are undeniable - from the energy to power model training and deployment, to the water needed to cool data centers and the rare earth metals to manufacture the hardware," said Dr. Sasha Luccioni, Climate Lead at Hugging Face. "This bill will help shed some much-needed light on the extent of these impacts and how they're evolving over time".

"Senator Markey and Senator Heinrich's legislation will address a critical, yet underexplored aspect of **AI** - its environmental footprint," said Dr. Roy Schwartz, Senior Lecturer at the Hebrew University of Jerusalem. "The bill will promote transparency regarding the environmental aspects of **AI** tools, allowing organizations to both report and, as a result, mitigate their negative environmental effects. This act could not have come at a better time, as these tools are becoming ubiquitous, requiring larger amounts of energy to build and deploy them, water for cooling their servers, and land to build data centers for them."

"As the use of **AI** rapidly increases, society needs to understand how this new technology impacts the environment," said Erik Kojola, Senior Climate Research Specialist at Greenpeace USA. "This means we need a rigorous system for tracking energy use and carbon emissions. The **Artificial Intelligence** Environmental Impacts Act of 2024 is a vital step in creating that system and studying how **AI** contributes to the climate crisis. This will bring much-needed transparency and accountability to the emerging **AI** industry."

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Anna G.

"The Center for AI and Digital Policy strongly supports the Artificial Intelligence Environmental Impacts Act," said Merve Hickok, President of the Center for AI and Digital Policy. "Senator Markey and Senator Heinrich's bold initiative addresses one of the greatest challenges in the AI sector - the possible acceleration of climate change. We need research and analysis to assess the environmental impact of AI systems. The AI Environments Impacts Act should be a top priority for Senate consideration,"

"Artificial Intelligence has become the latest tool in the Silicon Valley corporate race, with every company trying to put out AI-driven products in order to stay "competitive"," said Dom Leon-Davis, Deputy Director of Program and Strategy for Kairos Action "If left unchecked, this rapid development pushed by tech executives can and will harm the planet we live on, particularly affecting poor, Black and Brown communities who already struggle to breathe clean air and drink clean water. From increased energy use to e-waste, and impacts that are unknown to us -- we need regulation like this now. We're glad to see this act take steps in the right direction of creating a world where tech works for all of us."

"The public deserves to know the very basics about how AI tools affect our material world," said Caitriona Fitzgerald, Deputy Director at the Electronic Privacy Information Center. "By creating transparency around AI's impact on our environment, the Artificial Intelligence Environmental Impacts Act of 2024 will give the public and policymakers a tool for pressuring technology companies to develop their products in line with our collective health and safety."

"As Lord Kelvin wisely stated, 'To measure is to know.' We enthusiastically welcome and are eager to collaborate on Senators Markey and Heinrich's initiative, as the United States takes a leading role in driving transparency and setting global standards," said Max Schulze, Director of the Sustainable Digital Infrastructure Alliance. "This initiative crucially creates visibility for the environmental costs of artificial intelligence, encompassing not just the models but their usage as well. We particularly endorse the holistic approach taken, going beyond mere energy consumption to consider all environmental impacts across the AI supply chain. This is vital for developing sustainable and responsible AI practices globally."

"Right now, there is significant uncertainty about the impact of AI on the environment," said Peter Henderson, Assistant Professor at Princeton University. "On one hand, it could be used to improve infrastructure and systems for better efficiency, on the other hand it could harm the environment through increased demand for materials, manufacturing, and energy usage. The government has a large role to play in ensuring that AI is a net positive for the environment, by promoting transparency and innovation around AI's environmental impacts. I applaud Senator Markey and Senator Heinrich for introducing this Bill that will provide a roadmap toward positive outcomes."

"One of the many unknowns about AI is its impact on the environment," said Kaili Lambe, Policy and Advocacy Director at Accountable Tech. "As rapid advances have led to increasingly widespread use of LLMs and other data-intensive AI systems, it's imperative that we understand and take steps to mitigate unintended harm, including the potential for environmental degradation. Too often transparency takes a backseat when it comes to Big Tech innovation. Sen. Markey and Sen. Heinrich's legislation offers an opportunity to gain critical insight into the environmental impact of AI, and we are eager to see it pass."

"AI technologies are spreading rapidly, with the potential for major impacts on society," said Jennifer Jones, Director of the Center for Science and Democracy at the Union of Concerned Scientists. "We must fully understand both the benefits and the risks, of these technologies--including intensive energy consumption and creation of environmental waste that harms people and nature. We have a responsibility to track the environmental impacts of AI, to ensure this information is publicly available and to help us plan to mitigate those harms. Importantly, the bill will allow stakeholders, including civil society, to examine and report on the full life cycle of artificial intelligence models, systems, and hardware--bringing the voices of the most impacted communities to the table."

"Right now, we have only a limited understanding of the depth and scale of AI's environmental impacts--but what we do know is alarming," said Brian J. Chen, Policy Director at Data and Society. "AI's massive energy consumption and pollution effects are likely to exacerbate global warming and climate disaster. The AI

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure Environmental Impacts of Artificial Intelligence Rep. Anna G.

Environmental Impacts Act lays an important research foundation for a better-grounded understanding of the technology's harms to people, communities, and habitats."

"What gets measured gets managed," said Michelle Thorne, Senior Advisor at the Green Web Foundation. "We at the Green Web Foundation welcome this bill as an important step towards transparency of the environmental impacts of **AI**. To date, the lack of consistent and comparable data has been a blocker for technologists, researchers, policymakers and civil society. This bill will help enable more data-informed discussions about how resources are allocated to computing."

Read this original document at: <https://eshoo.house.gov/media/press-releases/rep-eshoo-and-beyer-senators-markey-and-heinrich-introduce-legislation>

Classification

Language: ENGLISH

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Journal Code: COSHM

Subject: ENVIRONMENT & NATURAL RESOURCES (99%); POLLUTION & ENVIRONMENTAL IMPACTS (93%); LEGISLATIVE BODIES (92%); US CONGRESS (92%); INVESTIGATIONS (91%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENVIRONMENTAL ENFORCEMENT (90%); ENVIRONMENTAL RESEARCH (90%); LEGISLATION (90%); NEGATIVE ENVIRONMENTAL NEWS (90%); POLITICS (90%); US DEMOCRATIC PARTY (90%); EMISSIONS (89%); TECHNOLOGY (89%); GOVERNMENT & PUBLIC ADMINISTRATION (79%); ENERGY EFFICIENCY & CONSERVATION (78%); US ENVIRONMENTAL LAW (78%); NATURAL RESOURCES (77%); WATER RESOURCES (77%); WATER SUPPLY (77%); CLIMATE ACTION (76%); STANDARDS & MEASUREMENTS (76%); ENERGY DEMAND (75%); CALENDARS (71%); GREENHOUSE GASES (71%); WASTE PRODUCTS (71%); WEATHER (71%); WATER CRISES & SHORTAGES (70%)

Company: **AI** SYSTEMS (53%)

Organization: NATIONAL INSTITUTE OF STANDARDS & TECHNOLOGY (57%)

Industry: SIC7372 PREPACKAGED SOFTWARE (53%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & ENVIRONMENT (90%); ENERGY & UTILITIES (90%); EMISSIONS (89%); ENERGY EFFICIENCY & CONSERVATION (78%); ALTERNATIVE & RENEWABLE ENERGY (77%); ENERGY DEMAND (75%); DATA CENTERS (74%); WASTE PRODUCTS (71%)

Person: EDWARD J MARKEY (92%); ANNA G ESHOO (89%); DON BEYER (79%); MARTIN HEINRICH (79%)

Geographic: WASHINGTON DC, USA (79%); UNITED STATES (92%)

Reps. Eshoo and Beyer, Senators Markey and Heinrich Introduce Legislation to Investigate, Measure
Environmental Impacts of Artificial Intelligence Rep. Anna G.

Load-Date: February 5, 2024

End of Document

EDDY HIGHLIGHTS AI, ANALYTICS, EMERGENCY MANAGEMENT

States News Service

January 10, 2024 Wednesday

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Length: 519 words

Byline: States News Service

Dateline: RICHLAND, WA

Body

The following information was released by the Department of Energy, the Pacific Northwest National Laboratory:

Just as fast as technology is changing, so is the threat landscape. More frequent and intense disasters put pressures on emergency operations centers (EOCs) to rapidly share and analyze data that informs decision-making. At the GovAI Summit 2023, a panel with the Department of Homeland Security (DHS) Science and Technology (SandT) Directorate, Pacific Northwest National Laboratory (PNNL), and other emergency management practitioners discussed how science and technology specifically **artificial intelligence (AI)** can help.

"Technology is a changing opportunity space for emergency preparedness and response, and we see that more than ever with the current emergence of **AI**. This panel was a great chance to focus on both the challenges and opportunities **AI** presents for emergency managers and first responders who help keep us safe," said Ryan Eddy, PNNL director of homeland security programs.

The panel, "The EOC of the Future: How **AI** Will Transform Emergency Ops," explored how **AI** can help emergency management advance from data overload to prediction and adjustment.

"With today's tools, there is a lot of data that can inform decision-making, but emergency managers need to be able to access it and use it and fast. At PNNL, we are enabling secure, trustworthy, science-based **AI** and machine learning programs to advance capabilities, particularly in image analysis and cyber defense," Eddy said.

Eddy's presentation, "**Artificial Intelligence** Science and Technology for Emergency Management," highlighted PNNL **AI** tools and analysis capabilities, such as Rapid Analytics for **Disaster** Response, which combines image-capturing technology, **AI** and cloud computing to assess damage and predict risks during extreme events, and Sharkzor tool, which is an **AI**-driven, scalable web application that makes it possible to quickly characterize and sort electron microscopy images used to analyze radioactive materials.

Eddy was joined on the panel by Executive Director for the DHS SandT Office of Science and Engineering Daniel Cotter, Director for Enterprise Analytics and Chief Data Officer for the Federal Emergency Management Agency Christa Montani, Bob Greenberg from GandH International Services, 311 Operations Director for the Town of Cary, NC Ryan Hargreaves, and Assistant Town Manager of the Town of Cary, NC Dan Ault.

During the panel, Eddy and Cotter also highlighted the Emergency Management of Tomorrow Research Program in which PNNL is collaborating DHS SandT to better understand first responder technology requirements to inform future technology planning and development for EOC operations.

EDDY HIGHLIGHTS AI, ANALYTICS, EMERGENCY MANAGEMENT

"The best way to understand how AI is impacting, or could impact, EOCs is to talk to the people who use them and crosswalk that with the latest research and technology trends," Eddy said. "We are actively connecting with first responders and emergency managers to understand their concerns, barriers, and potential opportunities with AI, and then translating that into useful information to inform future research."

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: ARTIFICIAL INTELLIGENCE (90%); DATA ANALYTICS (90%); MANAGERS & SUPERVISORS (90%); NEGATIVE NEWS (90%); SAFETY, ACCIDENTS & DISASTERS (90%); EMERGENCY SERVICES (89%); EXECUTIVES (89%); GOVERNMENT BODIES & OFFICES (89%); SCIENCE & TECHNOLOGY (89%); ACCIDENTS & DISASTERS (78%); BUSINESS ANALYTICS (78%); DISASTER & EMERGENCY AGENCIES (78%); DISASTER RELIEF (78%); ENERGY & UTILITY POLICY (78%); ENERGY DEPARTMENTS (78%); NATIONAL SECURITY (78%); RESEARCH & DEVELOPMENT (78%); SAFETY (78%); DISASTER PLANNING (77%); EXPERIMENTATION & RESEARCH (76%); NATIONAL SECURITY & FOREIGN RELATIONS (76%); US FEDERAL GOVERNMENT (76%); REGIONAL & LOCAL GOVERNMENTS (74%); MACHINE LEARNING (73%); TECHNOLOGY TRENDS (73%); SPECIAL INVESTIGATIVE FORCES (71%)

Organization: US DEPARTMENT OF HOMELAND SECURITY (90%)

Industry: ARTIFICIAL INTELLIGENCE (90%); DATA ANALYTICS (90%); BUSINESS ANALYTICS (78%); ENERGY & UTILITIES (78%); ENERGY & UTILITY POLICY (78%); ENERGY DEPARTMENTS (78%); CYBERSECURITY (76%); IMAGE PROCESSING & COMPUTER VISION (75%); MACHINE LEARNING (73%); CLOUD COMPUTING (68%)

Geographic: NORTH CAROLINA, USA (92%); WASHINGTON, USA (79%); UNITED STATES (79%)

Load-Date: January 11, 2024

EXPERTS AVAILABLE: HURRICANE HELENE RESPONSE AND RECOVERY, VICE PRESIDENTIAL
DEBATE, AND MORE

EXPERTS AVAILABLE: HURRICANE HELENE RESPONSE AND RECOVERY, VICE PRESIDENTIAL DEBATE, AND MORE

US Fed News

October 1, 2024 Tuesday 12:32 PM EST

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Length: 1253 words

Body

BLACKSBURG, Va., Oct. 1 -- Virginia Polytechnic Institute and State University issued the following news release:

The Virginia Tech media relations office has the following experts available for interviews this week surrounding issues in the news. To schedule an interview, please contactmediarelations@vt.edu

Virginia Tech experts available to discuss headlines in the news

Hurricane Helene response and recovery efforts

As residents of the southeast coordinate widespread response and recovery efforts from Helene, it could be days before we know the extent of the damage and months or even years before critical infrastructure is restored. Liesel Ritchie, an expert in **disaster** events, can speak to the social impacts of hazards and disasters, particularly how communities respond to, react to, and recover from them. And Dan Goerlich leads the Virginia Cooperative Extension's emergency preparedness and response efforts, offering valuable, research-based information to support communities preparing for and recovering from disasters.

Climate change, aging infrastructure, human decisions exacerbated Hurricane Helene flooding

Helene's historic and unexpected flooding was the result of a combination of stronger storms driven by climate change, old dams and levees, and human expansion onto flood plains, says Manoochehr Shirzaei, an expert in coastal flooding. These factors conspired to amplify the destructive effects of Hurricane Helene and heighten the associated **disaster** risks. "Legacy systems, including levees, dams, bridges, roads, and electrical grids, were not originally designed to endure the growing severity of hurricanes exacerbated by climate change. As these structures deteriorate with time, their vulnerability to failure during extreme weather events increases," he said. More here.

Candidates ready themselves for unique vice presidential debate

The vice presidential debate Tuesday evening is the final scheduled political showdown between the tickets before the election. With polls inconclusive amid an unprecedented leadup to November, the event may take on more significance than usual, says political expert Karen Hult. As for messaging, Cayce Myers expects both running

EXPERTS AVAILABLE: HURRICANE HELENE RESPONSE AND RECOVERY, VICE PRESIDENTIAL DEBATE, AND MORE

mates to continue to hammer away at their opponents, while Megan Duncan believes there may be more interest in and viewership for the VP debate this cycle. [More here.](#)

California governor vetoes sweeping AI regulations

California Gov. Gavin Newsom vetoed a bill Sunday that would have imposed strict new regulations on the development of artificial intelligence (AI), holding companies liable if the technology was used for harm - for example, assistance in plotting a terrorist attack. Tech companies strongly opposed the legislation. "Newsome's veto illustrates the tension between regulating artificial intelligence and encouraging innovation," says media and communications expert Cayce Myers. "California has been a leader in AI regulation, but the question is to what extent are platforms liable for users' misconduct, particularly disinformation. Proponents of AI regulation say that the most impactful guardrails against misuse are regulation of the platforms."

Fall foliage to reach peak in late October

Autumn has arrived, and folks looking forward to the best time to view the spectacular fall leaf colors won't have long to wait, says John Seiler, Virginia Tech forestry professor and expert in tree physiology. Those colors should reach their peak from Oct. 19-27, about a week earlier than last year because of recent spans of dry weather. [Read more of Seiler's insights into what makes autumn leaves special here.](#)

From tricks to treats: Virginia Tech experts share pumpkin care tips

As autumn sets in, orange and gold leaves paint the landscape and pumpkins arrive on front doorsteps. As a quintessential symbol for the season, pumpkins not only add charm but also require proper care to last. Virginia Cooperative Extension agriculture extension agents Ashley Edwards and Sarah Sharpe share their expert advice on choosing, preserving, and repurposing your pumpkins this fall.

Podcast: Alcohol use and intimate partner violence

Meagan Brem joined Virginia Tech's "Curious Conversations" podcast to discuss the intersection of alcohol use and intimate partner violence, highlighting the importance of understanding the causal relationship between the two. She debunked common myths, identified current knowledge gaps, and shared insights from ongoing studies. She also described the unique challenge of understanding these topics as they relate to LGBTQ+ populations and shared possible interventions on both societal and individual levels.

About Brem

Brem is an assistant professor in the Department of Psychology and the director of the Research for Alcohol and Couples Health Lab at Virginia Tech. Her research examines targetable factors that moderate the risk of alcohol use leading to intimate partner/sexual violence, particularly among those who are at high risk of problematic drinking and violence.

Research highlights

New report: South Asia leads in agricultural productivity growth - can the world replicate its success?

Oct. 3, 2024, from 8-11 a.m.

National Press Club (529 14th St. NW, Washington, D.C.) and online

Registration is required for both attendance options

The Global Agricultural Productivity Initiative at Virginia Tech releases and discusses the 2024 Global Agricultural Productivity (GAP) Report. Media are invited to attend and cover the event, which will feature a multisectoral panel exploring successful bundling approaches and an all-farmer panel to provide insights from the field.

EXPERTS AVAILABLE: HURRICANE HELENE RESPONSE AND RECOVERY, VICE PRESIDENTIAL DEBATE, AND MORE

New data from the 2024 GAP Report offers valuable insights into the challenges and opportunities associated with the widespread adoption of productivity-enhancing tools, and how "bundling" these tools with other interventions will accelerate sustainable agricultural productivity growth.

Bridging the "valley of death" - the gap between developing innovative solutions and getting them to producers through commercialization or public delivery - must be a top priority in the coming decade. The report raises the need to rethink the ways we bundle production tools with distribution mechanisms, socio-economic tools, and policy levers to open new pathways to scale access and adoption, especially among smallholder producers.

An embargoed copy of the report and press kit materials are available upon request.

Media RSVP: Noah Frank, assistant director of D.C. area communications and news | nafrank@vt.edu | (805) 453-2556

Researchers publish real-time data to understand what happens when people lose their balance

Researchers at Virginia Tech are using wrist-worn voice recorders to capture real-world data to better understand what happens when people lose their balance. The study, led by Michael Madigan in the College of Engineering, builds on years of his own foundational work and prior research conducted by the University of Michigan Medical School. The findings were recently published in the Journal of American Geriatrics Society and highlight how voice-recorders captured the moment when participants, who averaged 72 years of age, lost their balance. The study concludes that among older adults, voice recorders are effective at capturing the circumstances and context in which they lost their balance and potentially fell, without relying on recall later. More here. For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

Classification

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Subject: ACCIDENTS & DISASTERS (90%); CLIMATOLOGY (90%); **DISASTER** RELIEF (90%); HURRICANES (90%); PRESS RELEASES (90%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (89%); FLOODS & FLOODING (89%); NEGATIVE NEWS (89%); POLITICAL DEBATES (89%); TECHNOLOGY (89%); VETO (89%); WEATHER (89%); CLIMATE CHANGE (88%); **ARTIFICIAL INTELLIGENCE** (84%); GOVERNMENT BODIES & OFFICES (78%); GOVERNORS (78%); SOCIETY, SOCIAL ASSISTANCE & LIFESTYLE (78%); **DISASTER** PLANNING (77%); ELECTIONS & POLITICS (77%); FLOOD ZONES (77%); LEGISLATION (77%); NATURAL DISASTERS (77%); SAFETY, ACCIDENTS & DISASTERS (77%); SEVERE WEATHER (77%); TROPICAL STORMS (77%); CRITICAL INFRASTRUCTURE (75%); NATIONAL SECURITY & FOREIGN RELATIONS (73%); FLOOD CONTROL (72%); COASTAL AREAS (70%); TERRORISM (70%); DISINFORMATION & MISINFORMATION (68%); HOLDING COMPANIES (64%); TERRORISM & COUNTERTERRORISM (63%); MISCONDUCT (61%); NEGATIVE MISC NEWS (60%); TERRORIST ATTACKS (50%)

Industry: **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (89%); **ARTIFICIAL INTELLIGENCE** (84%); MEDIA & TELECOMMUNICATIONS (78%); FLOOD ZONES (77%); DAMS & RESERVOIRS (72%); ENERGY NETWORKS (70%); ELECTRICITY TRANSMISSION & DISTRIBUTION (69%); INFORMATION TECHNOLOGY INDUSTRY (65%)

Person: GAVIN NEWSOM (79%)

EXPERTS AVAILABLE: HURRICANE HELENE RESPONSE AND RECOVERY, VICE PRESIDENTIAL
DEBATE, AND MORE

Geographic: CALIFORNIA, USA (93%); VIRGINIA, USA (93%)

Load-Date: October 4, 2024

End of Document

Experts available: Hurricane Helene response and recovery, Vice Presidential debate, and more

Experts available: Hurricane Helene response and recovery, Vice Presidential debate, and more

Targeted News Service

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Dateline: BLACKSBURG, Virginia

Body

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Experts available: Hurricane Helene response and recovery, Vice Presidential debate, and more

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California Gov. Gavin Newsom vetoed a bill Sunday that would have imposed strict new regulations on the development of **artificial intelligence (AI)**, holding companies liable if the technology was used for harm for example, assistance in plotting a terrorist attack. Tech companies strongly opposed the legislation. "Newsome's veto illustrates the tension between regulating **artificial intelligence** and encouraging innovation," says media and communications expert Cayce Myers. "California has been a leader in **AI** regulation, but the question is to what extent are platforms liable for users' misconduct, particularly disinformation. Proponents of **AI** regulation say that the most impactful guardrails against misuse are regulation of the platforms."

Fall foliage to reach peak in late October

Autumn has arrived, and folks looking forward to the best time to view the spectacular fall leaf colors won't have long to wait, says John Seiler, Virginia Tech forestry professor and expert in tree physiology. Those colors should reach their peak from Oct. 19-27, about a week earlier than last year because of recent spans of dry weather. Read more of Seiler's insights into what makes autumn leaves special here.

From tricks to treats: Virginia Tech experts share pumpkin care tips

As autumn sets in, orange and gold leaves paint the landscape and pumpkins arrive on front doorsteps. As a quintessential symbol for the season, pumpkins not only add charm but also require proper care to last. Virginia Cooperative Extension agriculture extension agents Ashley Edwards and Sarah Sharpe share their expert advice on choosing, preserving, and repurposing your pumpkins this fall.

Podcast: Alcohol use and intimate partner violence

Meagan Brem joined Virginia Tech's "Curious Conversations" podcast to discuss the intersection of alcohol use and intimate partner violence, highlighting the importance of understanding the causal relationship between the two. She debunked common myths, identified current knowledge gaps, and shared insights from ongoing studies. She also described the unique challenge of understanding these topics as they relate to LGBTQ+ populations and shared possible interventions on both societal and individual levels.

About Brem

Brem is an assistant professor in the Department of Psychology and the director of the Research for Alcohol and Couples Health Lab at Virginia Tech. Her research examines targetable factors that moderate the risk of alcohol use leading to intimate partner/sexual violence, particularly among those who are at high risk of problematic drinking and violence.

Research highlights

New report: Southeast Asia leads in agricultural productivity growth can the world replicate its success?

Oct. 3, 2024, from 8-11 a.m.

National Press Club (529 14th St. NW, D.C.) and online

Registration is required for both attendance options

The Global Agricultural Productivity Initiative at Virginia Tech releases and discusses the 2024 Global Agricultural Productivity (GAP) Report. Media are invited to attend and cover the event, which will feature a multisectoral panel exploring successful bundling approaches and an all-farmer panel to provide insights from the field.

Experts available: Hurricane Helene response and recovery, Vice Presidential debate, and more

New data from the 2024 GAP Report offers valuable insights into the challenges and opportunities associated with the widespread adoption of productivity-enhancing tools, and how "bundling" these tools with other interventions will accelerate sustainable agricultural productivity growth.

Bridging the "valley of death" the gap between developing innovative solutions and getting them to producers through commercialization or public delivery must be a top priority in the coming decade. The report raises the need to rethink the ways we bundle production tools with distribution mechanisms, socio-economic tools, and policy levers to open new pathways to scale access and adoption, especially among smallholder producers.

An embargoed copy of the report and press kit materials are available upon request.

Media RSVP: Noah Frank, assistant director of D.C. area communications and news | nafrank@vt.edu | (805) 453-2556

Researchers publish real-time data to understand what happens when people lose their balance

Researchers at Virginia Tech are using wrist-worn voice recorders to capture real-world data to better understand what happens when people lose their balance. The study, led by Michael Madigan in the College of Engineering, builds on years of his own foundational work and prior research conducted by the University of Michigan Medical School. The findings were recently published in the Journal of American Geriatrics Society and highlight how voice-recorders captured the moment when participants, who averaged 72 years of age, lost their balance. The study concludes that among older adults, voice recorders are effective at capturing the circumstances and context in which they lost their balance and potentially fell, without relying on recall later. More here.

Original text here: <https://news.vt.edu/articles/2024/10/experts-available--hurricane-helene-response-and-recovery--vice-.html>

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Experts available: Hurricane Helene response and recovery, Vice Presidential debate, and more

Industry: **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (89%); **ARTIFICIAL INTELLIGENCE** (84%); MEDIA & TELECOMMUNICATIONS (78%); FLOOD ZONES (77%); DAMS & RESERVOIRS (73%); ENERGY NETWORKS (70%); ELECTRICITY TRANSMISSION & DISTRIBUTION (69%); INFORMATION TECHNOLOGY INDUSTRY (65%)

Person: GAVIN NEWSOM (79%)

Geographic: CALIFORNIA, USA (93%); VIRGINIA, USA (92%)

Load-Date: October 1, 2024

End of Document

GSA Announces New Cohort of U.S. Digital Corps Fellows

Targeted News Service

August 14, 2024 Wednesday 9:10 AM EST

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Length: 744 words

Byline: Targeted News Service

Dateline: WASHINGTON

Body

(TNSres) -- The General Services Administration issued the following news release on Aug. 13, 2024:

Today, the U.S. General Services Administration (GSA) welcomed 70 new fellows to the U.S. Digital Corps (USDC), a fellowship that provides a pathway for early-career technologists to apply their skills and expertise in the federal workplace.

More than 2,000 applications were submitted during the recruitment cycle, the largest number the program has received. The 2024 Fellows are USDC's third cohort, which includes individuals who will focus on **AI** and **AI**-related projects in response to the National **AI** Talent Surge.

"Growing the U.S. Digital Corps is crucial to driving innovation across the federal government, especially as emerging technologies like **AI** evolve," said GSA Administrator Robin Carnahan. "GSA is focused on delivering great value to our customer agencies and the American people, so we are proud to help lead the Biden-Harris Administration's efforts to bring tech talent into government to deliver those results."

USDC is a two year paid fellowship that offers five tracks: cybersecurity, data science and analytics, design, product management, and software engineering. Fellows will support projects at 19 federal agencies - six of which will be new agency partners to USDC, including the Federal Emergency Management Agency (FEMA), the Internal Revenue Service (IRS), and the U.S. Geological Survey (USGS). Fellows will support and advance a variety of high-priority technology initiatives for example:

- * Improving cybersecurity, border security, airport security, **disaster** recovery areas, drug capture, and security at sea by leveraging **artificial intelligence** systems to advance the Department of Homeland Security mission.
- * Applying qualitative and quantitative research and analytics to improve consular service design at the Department of State, including passport and visa services, to deliver for the tens of millions of U.S. citizens and foreign nationals who depend on them.
- * Helping the Federal Emergency Management Agency (FEMA) support **disaster** survivors by making the process to apply and receive **disaster** support more streamlined, accessible, and equitable.

GSA Announces New Cohort of U.S. Digital Corps Fellows

"I believe strongly in the contract between the American people and our government; that the federal government has a duty to provide adequate services, support, and aid to all, especially our most vulnerable," said Zach Palmer, a 2024 USDC Data Science and Analytics Fellow. "With these beliefs in mind, I felt that the U.S. Digital Corps was the perfect place for me to leverage my technical skills to help the federal government effectively serve its constituents, while also giving me the opportunity to mentor under incredibly talented and knowledgeable public servants."

Since its inception in 2021, USDC has recruited more than 150 early-career technologists and has supported projects of national significance at 25 agencies. Of the graduates in USDC's inaugural 2022 cohort, ninety-five percent chose to remain with the federal government post-fellowship and continue their service to the American people.

* * *

Please visit the U.S. Digital Corps website (<https://digitalcorps.gsa.gov/>) for more information.

* * *

About GSA: GSA provides centralized procurement and shared services for the federal government, managing a nationwide real estate portfolio of nearly 370 million rentable square feet, overseeing about \$100 billion in products and services via federal contracts, and delivering technology services that serve millions of people across dozens of federal agencies. GSA's mission is to deliver the best customer experience and value in real estate, acquisition, and technology services to the government and the American people.

* * *

About TTS: GSA's TTS applies modern methodologies and technologies to improve the lives of the public and public servants. TTS helps agencies make their services more accessible, efficient, and effective with modern applications, platforms, processes, personnel, and software solutions. TTS offices include 18F, Centers of Excellence, Presidential Innovation Fellows, U.S. Digital Corps, and a diverse portfolio of TTS Solutions, including initiatives like FedRAMP, USAGov, Digital.gov, cloud.gov, and Login.gov.

* * *

Original text here: <https://www.gsa.gov/about-us/newsroom/news-releases/gsa-announces-new-cohort-of-us-digital-corps-fellows-08132024>

Contact: press@gsa.gov

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GSA Announces New Cohort of U.S. Digital Corps Fellows

PUBLIC ADMINISTRATION (88%); DATA ANALYTICS (87%); NEGATIVE NEWS (86%); EMERGING TECHNOLOGY (77%); GOVERNMENT DEPARTMENTS & AUTHORITIES (76%); PASSPORTS & VISAS (76%); DATA SCIENCE (75%); MENTORS & ROLE MODELS (75%); TAXES & TAXATION (72%); ENGINEERING (71%); GEOLOGY & GEOPHYSICS (71%); SPECIAL INVESTIGATIVE FORCES (71%); ACCIDENTS & DISASTERS (70%); IMMIGRATION, CITIZENSHIP & DISPLACEMENT (68%); STATE DEPARTMENTS & FOREIGN SERVICES (68%); EMBASSIES & CONSULATES (67%); TERRITORIAL & NATIONAL BORDERS (65%); AVIATION SECURITY (63%); BORDER CONTROL (63%)

Organization: GENERAL SERVICES ADMINISTRATION (93%); INTERNAL REVENUE SERVICE (72%); FEDERAL EMERGENCY MANAGEMENT AGENCY (72%); UNITED STATES GEOLOGICAL SURVEY (54%)

Industry: **ARTIFICIAL INTELLIGENCE** (89%); CYBERSECURITY (89%); DATA ANALYTICS (87%); INFORMATION SECURITY & PRIVACY (87%); SOFTWARE SERVICES & APPLICATIONS (78%); PASSPORTS & VISAS (76%); DATA SCIENCE (75%); COMPUTER SOFTWARE (71%); ENGINEERING (71%); AIRPORTS (63%); AVIATION SECURITY (63%); SOFTWARE DEVELOPMENT & ENGINEERING (51%)

Geographic: UNITED STATES (98%)

Load-Date: August 14, 2024

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Association of the U.S. Army: National Guard Readies for Busy Disaster Response Season

Targeted News Service

June 4, 2024 Tuesday 9:47 PM EST

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Length: 482 words

Byline: Targeted News Service

Dateline: ARLINGTON, Virginia

Body

The Association of the U.S. Army issued the following news:

After an early bout of severe weather, the National Guard is anticipating a busy **disaster** response season ahead, leaders from the component said.

"The operational tempo for the National Guard is pretty [high]," Col. Larry Doane, chief of the National Guard Bureau's current operations division, said during a May 28 discussion with reporters. "With most of the country experiencing severe weather even early in the season, it doesn't look like that's going to change anytime soon."

Last year, National Guard members distributed approximately 706,000 meals and cleared 1,500 miles of road as they responded to severe weather across 23 states, according to a National Guard Bureau fact sheet. The Guard also used 2.7 million gallons of retardant in response to wildfires and detected about 14,000 wildfires using the FireGuard program.

California has been investing in proactive response to wildfires for several years, including through Joint Task Force Rattlesnake, said Brig. Gen. Robert Paoletti, the California National Guard's Joint Staff director.

"We have been very busy since about 2017 with wildfires," he said. "Over 300 National Guardsmen are on emergency state active duty, which is our Task Force Rattlesnake. In the off-season, that task force ... [does] debris clearing under the direction of CalFire, and ... it augments CalFire ... during the fire season."

The Florida National Guard conducts an annual drill to ensure that it is ready for hurricane response, said Lt. Col. Blake Heidelberg, director of military support for the Florida National Guard.

"We devote a drill every year ... to our hurricane response and our domestic operations training," he said. "So, we look at it, and we plan, and we assign specific tasks to units because we know that hurricanes are not only our most likely [**disaster** to mitigate] but they're also our most dangerous."

Looking to the future of **disaster** response, soldiers on the ground may use **artificial intelligence** to speed up the aid process, Doane said.

Association of the U.S. Army: National Guard Readies for Busy Disaster Response Season

During **disaster** response efforts, soldiers must parse through a large amount of data to decide where and how to best allocate resources, he said. "**AI** is going to become a useful tool for us to speed [up]," Doane said.

The Guard will continue to offer the nation "deeply tailored" **disaster** response solutions, Doane said. "These 54 states, territories and the District ... provide local expertise while the National Guard Bureau, and its relationship across the federal interagency, ... [provides] resources to better support deeply tailored solutions so that ... [the] response is formed by those people who are experiencing that **disaster**," he said.

* * *

Original text here: <https://www.ansa.org/news/national-guard-readies-busy-disaster-response-season>

[Category: National Defense]

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Organization: ASSOCIATION OF THE UNITED STATES ARMY (94%)

Industry: ARMIES (91%); US ARMY (90%); ARMED FORCES (89%); **ARTIFICIAL INTELLIGENCE** (60%)

Person: KEN CALVERT (71%)

Geographic: CALIFORNIA, USA (92%); VIRGINIA, USA (79%); UNITED STATES (92%)

Load-Date: June 4, 2024

NATIONAL GUARD READIES FOR BUSY DISASTER RESPONSE SEASON

States News Service

June 4, 2024 Tuesday

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Length: 507 words

Byline: States News Service

Dateline: ARLINGTON, Virginia

Body

The following information was released by the Association of the United States Army:

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During **disaster** response efforts, soldiers must parse through a large amount of data to decide where and how to best allocate resources, he said. "**AI** is going to become a useful tool for us to speed [up]," Doane said.

NATIONAL GUARD READIES FOR BUSY DISASTER RESPONSE SEASON

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AUSA Books Program

The AUSA Book Program offers quality books about Army heritage, military theory and policy, and security in the modern world. One of its goals is to foster an understanding of the emerging security environment. This program permits AUSA members to purchase these titles at a discounted rate.

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Organization: ASSOCIATION OF THE UNITED STATES ARMY (84%)

Industry: ARMED FORCES (89%); ARMIES (89%); US ARMY (78%); **ARTIFICIAL INTELLIGENCE** (60%)

Person: KEN CALVERT (71%)

Geographic: CALIFORNIA, USA (92%); VIRGINIA, USA (79%); UNITED STATES (79%)

Load-Date: June 4, 2024

University of Exeter: AI Can Support Humanitarian Organizations in Situations of Armed Conflict or Crisis - But They Should Understand the Potential Risks, Study Warns

Targeted News Service

July 12, 2024 Friday 7:50 AM EST

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Length: 538 words

Byline: Targeted News Service

Dateline: EXETER, England

Body

(TNSres) -- The University of Exeter issued the following news:

AI can help humanitarians gain crucial insights to better monitor and anticipate risks, such as a conflict outbreak or escalation. But deploying systems in this context is not without risks for those affected, a new study warns.

Humanitarian organisations have been increasingly using digital technologies and the Covid-19 pandemic has accelerated this trend.

AI-supported **disaster** mapping was used in Mozambique to speed up emergency response, and **AI** systems were used to predict food crisis and rolled out by the World Bank across twenty-one countries.

But the study warns some uses of **AI** may expose people to additional harms and present significant risks for the protection of their rights.

The study, published in the Handbook on Warfare and **Artificial Intelligence**, is by Professor Ana Beduschi, from the University of Exeter Law School.

Professor Beduschi said: "**AI** technologies have the potential to further expand the toolkit of humanitarian missions in their preparedness, response, and recovery.

"But safeguards must be put in place to ensure that **AI** systems used to support the work of humanitarians are not transformed into tools of exclusion of populations in need of assistance. Safeguards concerning the respect and protection of data privacy should also be put in place.

"The humanitarian imperative of 'do no harm' should be paramount to all deployment of **AI** systems in situations of conflict and crisis."

The study says humanitarian organisations designing **AI** systems should ensure data protection by design and by default to minimise risks of harm - whether they are legally obliged to do so or not. They should also use Data protection impact assessments (DPIAs) to understand the potential negative impacts of these technologies.

Grievance mechanisms should also be established so people can challenge decisions that were either automated or made by humans with the support of **AI** systems if these adversely impacted them.

Professor Beduschi said: "**AI** systems can analyse large amounts of multidimensional data at increasingly fast speeds, identify patterns in the data, and predict future behaviour. That can help organisations gain crucial insights to better monitor and anticipate risks, such as a conflict outbreak or escalation.

"Yet, deploying **AI** systems in the humanitarian context is not without risks for the affected populations. Issues include the poor quality of the data used to train **AI** algorithms, the existence of algorithmic bias, the lack of transparency about **AI** decision-making, and the pervading concerns about the respect and protection of data privacy.

"It is crucial that humanitarians abide by the humanitarian imperative of 'do not harm' when deciding whether to deploy **AI** to support their action. In many cases, the sensible solution would be not to rely on **AI** technologies as these may cause additional harm to civilian populations."

* * *

Original text here: <https://news.exeter.ac.uk/faculty-of-humanities-arts-and-social-sciences/ai-can-support-humanitarian-organisations-in-situations-of-armed-conflict-or-crisis-but-they-should-understand-the-potential-risks-study-warns/>

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Industry: **ARTIFICIAL INTELLIGENCE** (90%); COLLEGE & UNIVERSITY PROFESSORS (89%); DATA SECURITY (89%); INFORMATION SECURITY & PRIVACY (89%); LAW SCHOOLS (78%); EMERGENCY MEDICAL SERVICES (76%); GRADUATE & PROFESSIONAL SCHOOLS (73%); FOOD CRISES & SHORTAGES (72%)

University of Exeter : AI Can Support Humanitarian Organizations in Situations of Armed Conflict or Crisis - But They Should Understand the Potential Risks, Stu....

Geographic: EXETER, ENGLAND (89%); MOZAMBIQUE (79%); ENGLAND (59%); UNITED KINGDOM (59%)

Load-Date: July 12, 2024

End of Document

PolyU harnesses GeoAI technologies to enable sustainable urban development

PR Newswire

April 9, 2024 Tuesday 2:05 AM EST

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Length: 965 words**Dateline:** HONG KONG, April 9, 2024

Body

PR NewswireHONG KONG, April 9, 2024 /PRNewswire/ -- Geospatial **artificial intelligence** (GeoAI) is an interdisciplinary field that combines geospatial science and **artificial intelligence (AI)**. The Hong Kong Polytechnic University (PolyU) is harnessing innovative GeoAI technologies to provide ground-breaking solutions for some of the environmental and social challenges facing the world today, in various fields including transportation, urban and public safety, planning, climate change and natural disasters.

Prof. Qihao WENG, Chair Professor of Geomatics and Artificial Intelligence of the Department of Land Surveying and Geo-Informatics, and Global STEM Professor, established the PolyU Research Centre for **Artificial Intelligence** in Geomatics (RCAIG), to focus on the development of original and innovative **AI** methodologies and technologies for geomatics and their applications in urban areas, with the goal of it becoming a global R&D hub in GeoAI. Prof. Weng has recently been honoured with the 2024 American Association of Geographers (AAG) Wilbanks Prize for Transformational Research in Geography and the 2024 AAG Remote Sensing Specialty Group Lifetime Achievement Honor Award for his ground-breaking contributions in geography. One direction for the Research Centre is investigation into human-environment interactions in urbanisation by utilising geospatial analytics, GeoAI and big data methods. Another direction is to create various data products of global urban areas using Earth Observations (EO) and to provide EO-based urban data services. As RCAIG Principal Investigator and Director, **Prof. Weng** said, "Earth observation is important as a guiding compass for understanding changes in the environment and society. Our research focuses on diverse fields including geospatial big data and **AI**, remote sensing, ground-based sensors, navigation and positioning, surveying and geodesy, laser scanning, and photogrammetry. These technologies play a crucial role in addressing and resolving key environmental and social challenges." In particular, GeoAI has revolutionised building monitoring by utilising thousands of learnable parameters. An illustration of this is its ability to automatically learn and identify general patterns of buildings such as colour and shape. This technology is crucially applied to detect **disaster**-damaged buildings, retrieve building height, identify structural changes and estimate building energy consumption. As a result, GeoAI has emerged as a mainstream solution for more efficient and insightful building monitoring. **Environmental monitoring** In the field of urbanisation monitoring, an RCAIG research team has developed an impervious surface area based urban cellular automata (CA) model that can simulate the fractional change of urban areas within each grid by utilising annual urban extent time series data obtained from satellite observations. By categorising the historical pathways of urban area growth into different levels of urbanisation, the model offers more detailed insights compared to traditional, binary, CA models. This demonstrates its great potential in supporting sustainable development. Research conducted by Ms Wanru HE, an RCAIG doctoral research assistant, and her team was reported in the paper "Modeling gridded urban fractional change using the temporal context information in the urban cellular automata model", and has been published in *Cities*. Their model

PolyU harnesses GeoAI technologies to enable sustainable urban development

effectively captures the dynamics of urban sprawl with significantly improved computational efficiency and performance, and will help enable the modelling of urban growth at regional and even global level, under diverse future urbanisation scenarios. **GeoAI for traffic management** In the area of smart traffic management, to enhance the efficiency of ride-hailing platforms and achieve intelligent management of their services, the RCAIG research team has developed a multi-agent order matching and vehicle repositioning approach. This innovative technology focuses on coordinating the supply and demand of ride-hailing services, ultimately aiming to improve their overall efficiency. Their approach provides a ground-breaking solution to tackle two critical aspects necessary for efficient ride-hailing services. Firstly, it addresses order matching by efficiently assigning orders to available vehicles. Secondly, it incorporates proactive vehicle repositioning, strategically deploying idle vehicles to regions with potentially high demand. Based on multi-agent deep reinforcement learning, this innovation solves the complex planning issues in transportation and offers a new perspective on a long-term spatio-temporal planning problem. The research conducted by Ms Mingyue XU, another RCAIG researcher, and her team, was reported in the paper "Multi-agent reinforcement learning to unify order-matching and vehicle-repositioning in ride-hailing services", and has been published in the International Journal of Geographical Information Science. The study achieved outstanding results, including reduced passenger rejection rates and driver idle time. **About RCAIG** With a focus on GeoAI, RCAIG is dedicated to conducting research in diverse fields, including urban building and energy, urban safety and security, environmental monitoring and conservation, urban resilience and public health. This aligns with the 11th United Nations Sustainable Development Goal, which aims to create inclusive, safe, resilient and sustainable cities and human settlements. Website: <https://rcaig.com/Learn> more about Prof. Qihao Weng's research focus in the video: <https://polyu.me/3Vt7yih> View original content: <https://www.prnewswire.com/news-releases/polyu-harnesses-geoai-technologies-to-enable-sustainable-urban-development-302111277.html> SOURCE The Hong Kong Polytechnic University

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Language: ENGLISH

Publication-Type: Newswire

Subject: GEOGRAPHY (93%); **ARTIFICIAL INTELLIGENCE** (90%); CITIES (90%); COLLEGE & UNIVERSITY PROFESSORS (90%); GEOSPATIAL DATA (90%); PRESS RELEASES (90%); RESEARCH INSTITUTES (90%); SURVEYING & MAPPING (90%); SUSTAINABLE CITIES & COMMUNITIES (90%); TECHNOLOGY (90%); INVESTIGATIONS (89%); NEGATIVE NEWS (89%); REMOTE SENSING TECHNOLOGY (89%); SUSTAINABILITY (89%); SUSTAINABLE DEVELOPMENT (89%); URBANIZATION (89%); ASSOCIATIONS & ORGANIZATIONS (78%); DATA ANALYTICS (78%); GEOLOGY & GEOPHYSICS (78%); STEM EDUCATION (78%); ACCIDENTS & DISASTERS (76%); CLIMATE CHANGE (76%); ENVIRONMENT & NATURAL RESOURCES (76%); NEGATIVE ENVIRONMENTAL NEWS (76%); INFORMATION SCIENCE (73%); TRENDS & EVENTS (72%); NATURAL DISASTERS (71%); SAFETY, ACCIDENTS & DISASTERS (71%); ENVIRONMENTAL TESTING (61%); CONSUMPTION (60%); PolyU-GeoAI (%); PDT New Products and Services (%)

Company: The Hong Kong Polytechnic University

Industry: **ARTIFICIAL INTELLIGENCE** (90%); COLLEGE & UNIVERSITY PROFESSORS (90%); GEOSPATIAL DATA (90%); SURVEYING & MAPPING (90%); SUSTAINABLE CITIES & COMMUNITIES (90%); REMOTE SENSING TECHNOLOGY (89%); SATELLITE INDUSTRY (89%); SUSTAINABLE DEVELOPMENT (89%); BIG DATA (87%); DATA ANALYTICS (78%); ENVIRONMENTAL SENSORS (76%); ENERGY & UTILITIES (73%); ENERGY CONSUMPTION (66%); EDU Education (%); HED Higher Education (%); CPR Computer; Electronics Products (%); STM STEM (Science, Technology, Engineering, Mathematics) (%)

PolyU harnesses GeoAI technologies to enable sustainable urban development

Geographic: Hong Kong

Load-Date: April 9, 2024

End of Document

National Environmental Health Association Provides Thought Leadership at World Congress on Environmental Health

Targeted News Service

May 25, 2024 Saturday 8:20 AM EST

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Length: 381 words

Byline: Targeted News Service

Dateline: DENVER, Colorado

Body

The National Environmental Health Association issued the following news release on May 24, 2024:

Our leadership and staff provided thought leadership and represented the workforce and association at the 17th IFEH World Congress on Environmental Health in Perth, Australia, on May 20-24, 2024. The congress provides a platform for environmental health practitioners and industries to share knowledge on emerging techniques, developments, and innovations in the field.

Aligned with the conference theme, Environmental Health In The New Era, we shared insight on risk communication, emergency readiness, **artificial intelligence (AI)**, and environmental health policy.

NEHA President-Elect CDR Anna Khan conducted a 2-day, sold-out preconference workshop on risk communication while Dr. Jesse Bliss, our director of Program and Partnership Development, delivered a standing-room-only session on emergency readiness and **AI**. Our Executive Director Dr. David Dyjack led a discussion on the future of the profession. Further, Dour Farquhar, our director of Government Affairs, presented virtually on environmental health policy and international uniformity. Nearly 700 professionals from 27 countries participated in the event.

"While cultures and monetary currencies vary by country, the challenges the profession encounters worldwide are remarkably similar. Speakers unpacked issues related to academic enrollments, local politics, and the dynamic conditions associated with climate change," said Dr. Dyjack. "Implications and solutions related to retail food safety, **disaster** readiness, wildfires, and healthy homes dominated the agenda."

In total, we led two full-day preconference workshops, delivered two plenary presentations, and were central to two plenary panel discussions. We were also delighted to learn that several local South Pacific environmental health practitioners and academics plan to attend and speak at our upcoming 204 Annual Educational Conference (AEC) & Exhibition in Pittsburgh.

The World Congress was made possible by the efforts of the International Federation of Environmental Health (IFEH) and Environmental Health Australia.

National Environmental Health Association Provides Thought Leadership at World Congress on Environmental Health

* * *

Original text here: <https://www.neha.org/ifeh-world-congress>

[Category: Health Care]

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MSTRUCK-8644740 MSTRUCK

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: CONFERENCES & CONVENTIONS (90%); PUBLIC POLICY (90%); HEALTH CARE POLICY (89%); HEALTH CARE PROFESSIONALS (89%); ENVIRONMENTAL REGULATION & POLICY (78%); EXECUTIVES (78%); SAFETY (78%); ELECTIONS & POLITICS (77%); ACCIDENTS & DISASTERS (75%); **ARTIFICIAL INTELLIGENCE** (75%); PRESS RELEASES (73%); **DISASTER** PLANNING (70%); WILDFIRES (70%); FOOD SAFETY (50%)

Organization: NATIONAL CENTER FOR ENVIRONMENTAL HEALTH STRATEGIES (91%); NATIONAL ENVIRONMENTAL HEALTH ASSOCIATION (84%)

Industry: HEALTH CARE POLICY (89%); HEALTH CARE PROFESSIONALS (89%); RETAIL & WHOLESALE TRADE (76%); **ARTIFICIAL INTELLIGENCE** (75%); FOOD SAFETY (50%)

Geographic: PERTH, AUSTRALIA (78%); DENVER, CO, USA (74%); COLORADO, USA (79%); PENNSYLVANIA, USA (79%); WESTERN AUSTRALIA, AUSTRALIA (79%); AUSTRALIA (92%)

Load-Date: May 25, 2024

New Nasuni Research Reveals Crucial Need for Hybrid Cloud Storage Strategies

PR Newswire

July 16, 2024 Tuesday 8:00 AM EST

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Length: 780 words

Dateline: BOSTON, July 16, 2024

Body

PR Newswire65% of IT Decision-Makers are Rushing to Hybrid Cloudwith Cybersecurity Risks and **AI** on the RiseBOSTON, July 16, 2024 /PRNewswire/ --Nasuni, a leading enterprise data platform for hybrid cloud environments, today unveiled the findings of its new industry research 2024 report entitled, "The Era of Hybrid Cloud Storage." The research includes insights from over 1,000 IT purchasing decision-makers in the US, UK, and DACH (Germany, Austria, Switzerland) on hybrid cloud, digital transformation, security, and **artificial intelligence (AI)**.

David Grant, President of Nasuni, commented, "As hybrid cloud storage takes center stage, organizations need strategies to capitalize on their most valuable asset: data. In tandem, they need strategies for addressing critical IT issues including ransomware attacks and the introduction of **AI** integrations to the market. Legacy storage solutions cannot keep up with these demands. Nasuni's 'The Era of Hybrid Cloud Storage' report gives organizations the necessary industry and peer insights to understand and take action in a rapidly evolving cloud landscape."**Key Takeaways:**Cloud strategies are at the forefront of enterprise success: Enterprises are rapidly moving forward with rolling out or planning cloud-first initiatives (according to 97% of respondents) to help grow their businesses, which includes significant investments in data management, analytics, **AI**, and cybersecurity.Hybrid cloud is business critical for proper data management: While only 19% of companies have a hybrid cloud storage model, a staggering 65% plan to implement one within the next year. Of those currently using a hybrid cloud solution, 70% plan to upgrade within the next 18 months.Data recovery and security is a primary driver for cloud solutions: Data recovery is the number one priority for firms when faced with a ransomware attack, with 59% of organizations seeing cloud initiatives delivering better data security and **disaster** recovery time. The growing role of data intelligence and **AI**: Organizations are targeting advanced data management and visibility through **AI** (60%). However, the biggest roadblocks preventing organizations from either developing or implementing **AI** solutions are data privacy and security (42%) and skills shortages (35%).Nasuni enables global organizations to transform file data into an asset that can deliver critical business insights by consolidating that data in a secure and versatile enterprise hybrid cloud platform. Through its strategic partnerships and long-standing alliances with the major cloud providers, Microsoft Azure, AWS, and Google Cloud, the Nasuni File Data Platform is unlocking even greater efficiencies, reducing cost, and establishing a foundation for facilitating core enterprise **AI** use-cases.Nasuni currently supports over 850 enterprise customers, including numerous Fortune 500, in more than 70 countries to effortlessly scale, protect, and manage their data. To download the full "Era of Hybrid Cloud Storage," visit[here](#). To understand how Nasuni can support your organization on its hybrid cloud journey, sign up for a demo[here](#).**Methodology:**

This survey was conducted among 1,150 purchasing decision-makers, across the US, UK, and DACH region (Germany, Austria, Switzerland), in organizations with 500+ employees. The interviews were conducted online by

New Nasuni Research Reveals Crucial Need for Hybrid Cloud Storage Strategies

Sapio Research in March and April 2024 using an email invitation and an online survey. **About Nasuni** Nasuni is a scalable data platform for enterprises facing an explosion of unstructured data in an **AI** world. The Nasuni File Data Platform delivers effortless scale in hybrid cloud environments, enables control at the network edge, and meets the modern enterprise expectation for insight- and **AI**-ready data. It simplifies file data management while increasing storage access and performance. Its best-in-class file recovery protects customers against a range of cyber threats and eliminates the need for specialized backup and **disaster** recovery – all while cutting the cost of infrastructure by up to 65%. Organizations worldwide rely on Nasuni, spanning across the manufacturing, construction, energy, consumer goods, and public sectors. Nasuni's corporate headquarters is located in Boston, Massachusetts, and the company delivers services to over 70 countries. For more information, visit www.nasuni.com. **Media Contacts** US: Kristin Concannon

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Email: View original content to download multimedia: <https://www.prnewswire.com/news-releases/new-nasuni-research-reveals-crucial-need-for-hybrid-cloud-storage-strategies-302193800.html> SOURCE Nasuni

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** (90%); CYBERCRIME (90%); PRESS RELEASES (90%); ASSOCIATIONS & ORGANIZATIONS (89%); BUSINESS CONTINUITY (89%); MALICIOUS SOFTWARE (89%); NEGATIVE NEWS (89%); NEGATIVE TECHNOLOGY NEWS (89%); BUSINESS ANALYTICS (78%); CYBERATTACKS (78%); DATA ANALYTICS (78%); ENTREPRENEURSHIP (78%); RANSOMWARE (78%); STRATEGIC PARTNERSHIPS (77%); ALLIANCES & PARTNERSHIPS (73%); PRIVACY RIGHTS (73%); SAFETY, ACCIDENTS & DISASTERS (73%); FORTUNE 500 COMPANIES (72%); NASUNI-crucial-needs (%); SVY Surveys, polls & research studies (%)

Company: GOOGLE LLC (51%); MICROSOFT CORP (51%); Nasuni

Ticker: MSFT (NASDAQ) (51%)

Industry: NAICS519290 WEB SEARCH PORTALS AND ALL OTHER INFORMATION SERVICES (51%); SIC7372 PREPACKAGED SOFTWARE (51%); **ARTIFICIAL INTELLIGENCE** (90%); CYBERCRIME (90%); CYBERSECURITY (90%); DATA STORAGE TECHNOLOGY (90%); INFORMATION MANAGEMENT (90%); INFORMATION MANAGEMENT & TECHNOLOGY (90%); INFORMATION SECURITY & PRIVACY (90%); DATA SECURITY (89%); MALICIOUS SOFTWARE (89%); BUSINESS ANALYTICS (78%); CLOUD SECURITY (78%); CYBERATTACKS (78%); DATA ANALYTICS (78%); DIGITALIZATION & DIGITAL TRANSFORMATION (78%); RANSOMWARE (78%); CPR Computer; Electronics Products (%); HTS Makers and developers of computer and network security products and services, Internet firewalls, intrusion detection, encryption software, virus protection (%); DTA Data Analytics (%)

Geographic: BOSTON, MA, USA (79%); MASSACHUSETTS, USA (74%); UNITED STATES (79%); AUSTRIA (78%); GERMANY (78%); SWITZERLAND (73%); Massachusetts

New Nasuni Research Reveals Crucial Need for Hybrid Cloud Storage Strategies

Load-Date: July 16, 2024

End of Document

Flowcore: Synthetik Insurance Analytics announces successful demonstration of AI powered flood modeling and loss prediction tool

Flowcore: Synthetik Insurance Analytics announces successful demonstration of AI powered flood modeling and loss prediction tool

PR Newswire

April 29, 2024 Monday 3:00 PM EST

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Length: 428 words

Dateline: AUSTIN, Texas and LONDON, April 29, 2024

Body

PR NewswireAUSTIN, Texas and LONDON, April 29, 2024 /PRNewswire/ -- Synthetik has announced the successful demonstration of their "Flood Data Collection and Analysis" platform, Flowcore - an end-to-end tool for modeling of flood scenarios and prediction of resulting damage and financial/insurance losses. Flowcore incorporates Synthetik's proprietary GPU-accelerated flood simulation code, and uniquely leverages **artificial intelligence (AI)** to deliver results in seconds on standard laptop systems – enabling measurement of cumulative events or high-volume probabilistic analysis.

Synthetik Insurance Analytics announces successful demonstration of **AI** powered flood modeling and analytics tool. Flowcore has undergone significant validation using real world events and was used to recreate a flash flooding event in Fort Lauderdale, FL from April 2023 with virtually perfect accuracy at unprecedented speeds. Flowcore meets the Federal Emergency Management Agency (FEMA) and National Flood Insurance Program's (NFIP) objectives of better understanding historical flood impact, real-time analysis and damage forecasting for future events across the country and represents a step-change in scalability for physics-based flood simulation. Flowcore is already being marketed and utilized by Synthetik's partners in the insurance industry. Josh Hatfield, Director of Research and Development for Synthetik said: 'Climate change is rapidly and radically changing the landscape of risk in climate-related events, so we are delighted with the success of Flowcore and its potential to assist public and private sector partners in understanding and predicting flooding damage, and to help guide **disaster** mitigation efforts across impacted communities.' Synthetik COO Tim Brewer commented: 'Flowcore joins our successful products for insurance analytics based on the characterization of assets, perils and vulnerability that deliver industry leading intelligence to insurance companies and risk holders all over the world. We're motivated to extend this framework to a wide-range of insurable assets and perils including human and climate-based threats to deliver on our mission of developing breakthrough technology for a safer world.' **For all inquiries: Contact Synthetik Applied Technologies PR info@synthetik.ai** View original content to download multimedia: <https://www.prnewswire.com/news-releases/flowcore-synthetik-insurance-analytics-announces-successful-demonstration-of-ai-powered-flood-modeling-and-loss-prediction-tool-302130509.html> SOURCE Synthetik Applied Technologies

Classification

Language: ENGLISH

Flowcore: Synthetik Insurance Analytics announces successful demonstration of AI powered flood modeling and loss prediction tool

Publication-Type: Newswire

Subject: DATA ANALYTICS (91%); PRESS RELEASES (91%); **ARTIFICIAL INTELLIGENCE** (90%); **DISASTER** & EMERGENCY AGENCIES (90%); ACCIDENTS & DISASTERS (89%); NATURAL DISASTERS (89%); TECHNOLOGY (89%); ASSOCIATIONS & ORGANIZATIONS (78%); CATASTROPHIC LOSSES (78%); CLIMATE CHANGE (78%); **DISASTER** PLANNING (78%); FLOODS & FLOODING (78%); RESEARCH & DEVELOPMENT (78%); SAFETY, ACCIDENTS & DISASTERS (78%); CLIMATOLOGY (74%); EXECUTIVES (73%); PUBLIC PRIVATE PARTNERSHIPS (73%); TRENDS & EVENTS (73%); SYNTHETIK-**ai**-modeling (%); PDT New Products and Services (%)

Company: Synthetik Applied Technologies

Organization: FEDERAL EMERGENCY MANAGEMENT AGENCY (83%)

Industry: DATA ANALYTICS (91%); **ARTIFICIAL INTELLIGENCE** (90%); INSURANCE (90%); CATASTROPHIC LOSSES (78%); CPR Computer; Electronics Products (%); INS Insurance (%); DTA Data Analytics (%); FIN Banking; Financial Services (%)

Geographic: AUSTIN, TX, USA (74%); LONDON, ENGLAND (73%); FORT LAUDERDALE, FL, USA (56%); TEXAS, USA (93%); FLORIDA, USA (79%); ENGLAND (73%); UNITED KINGDOM (73%); United Kingdom; England; Texas

Load-Date: April 29, 2024

PolyU Harnesses GeoAI Technologies to Enable Sustainable Urban Development

Targeted News Service

April 9, 2024 Tuesday 9:17 PM EST

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Length: 1021 words

Byline: Targeted News Service

Dateline: HONG KONG

Body

(TNSres) -- The Hong Kong Polytechnic University issued the following news release:

Geospatial **artificial intelligence** (GeoAI) is an interdisciplinary field that combines geospatial science and **artificial intelligence** (**AI**). The Hong Kong Polytechnic University (PolyU) is harnessing innovative GeoAI technologies to provide ground-breaking solutions for some of the environmental and social challenges facing the world today, in various fields including transportation, urban and public safety, planning, climate change and natural disasters.

Prof. Qihao WENG, Chair Professor of Geomatics and **Artificial Intelligence** of the Department of Land Surveying and Geo-Informatics, and Global STEM Professor, established the PolyU Research Centre for **Artificial Intelligence** in Geomatics (RCAIG), to focus on the development of original and innovative **AI** methodologies and technologies for geomatics and their applications in urban areas, with the goal of it becoming a global R&D hub in GeoAI. Prof. Weng has recently been honoured with the 2024 American Association of Geographers (AAG) Wilbanks Prize for Transformational Research in Geography and the 2024 AAG Remote Sensing Specialty Group Lifetime Achievement Honor Award for his ground-breaking contributions in geography.

One direction for the Research Centre is investigation into human-environment interactions in urbanisation by utilising geospatial analytics, GeoAI and big data methods. Another direction is to create various data products of global urban areas using Earth Observations (EO) and to provide EO-based urban data services.

As RCAIG Principal Investigator and Director, Prof. Weng said, "Earth observation is important as a guiding compass for understanding changes in the environment and society. Our research focuses on diverse fields including geospatial big data and **AI**, remote sensing, ground-based sensors, navigation and positioning, surveying and geodesy, laser scanning, and photogrammetry. These technologies play a crucial role in addressing and resolving key environmental and social challenges."

In particular, GeoAI has revolutionised building monitoring by utilising thousands of learnable parameters. An illustration of this is its ability to automatically learn and identify general patterns of buildings such as colour and shape. This technology is crucially applied to detect **disaster**-damaged buildings, retrieve building height, identify structural changes and estimate building energy consumption. As a result, GeoAI has emerged as a mainstream solution for more efficient and insightful building monitoring.

Environmental monitoring

In the field of urbanisation monitoring, an RCAIG research team has developed an impervious surface area based urban cellular automata (CA) model that can simulate the fractional change of urban areas within each grid by utilising annual urban extent time series data obtained from satellite observations. By categorising the historical pathways of urban area growth into different levels of urbanisation, the model offers more detailed insights compared to traditional, binary, CA models. This demonstrates its great potential in supporting sustainable development.

Research conducted by Ms Wanru HE, an RCAIG doctoral research assistant, and her team was reported in the paper "Modeling gridded urban fractional change using the temporal context information in the urban cellular automata model", and has been published in *Cities*. Their model effectively captures the dynamics of urban sprawl with significantly improved computational efficiency and performance, and will help enable the modelling of urban growth at regional and even global level, under diverse future urbanisation scenarios.

GeoAI for traffic management

In the area of smart traffic management, to enhance the efficiency of ride-hailing platforms and achieve intelligent management of their services, the RCAIG research team has developed a multi-agent order matching and vehicle repositioning approach. This innovative technology focuses on coordinating the supply and demand of ride-hailing services, ultimately aiming to improve their overall efficiency.

Their approach provides a ground-breaking solution to tackle two critical aspects necessary for efficient ride-hailing services. Firstly, it addresses order matching by efficiently assigning orders to available vehicles. Secondly, it incorporates proactive vehicle repositioning, strategically deploying idle vehicles to regions with potentially high demand.

Based on multi-agent deep reinforcement learning, this innovation solves the complex planning issues in transportation and offers a new perspective on a long-term spatio-temporal planning problem. The research conducted by Ms Mingyue XU, another RCAIG researcher, and her team, was reported in the paper "Multi-agent reinforcement learning to unify order-matching and vehicle-repositioning in ride-hailing services", and has been published in the *International Journal of Geographical Information Science*. The study achieved outstanding results, including reduced passenger rejection rates and driver idle time.

* * *

About RCAIG

With a focus on GeoAI, RCAIG is dedicated to conducting research in diverse fields, including urban building and energy, urban safety and security, environmental monitoring and conservation, urban resilience and public health. This aligns with the 11th United Nations Sustainable Development Goal, which aims to create inclusive, safe, resilient and sustainable cities and human settlements. Website: <https://rcaig.com/>

Learn more about Prof. Qihao Weng's research focus in the video: <https://polyu.me/3Vt7yih>

* * *

JOURNAL: *Cities* <https://www.sciencedirect.com/science/article/pii/S0264275122005856>

* * *

Original text here: https://www.polyu.edu.hk/media/media-releases/2024/0408_polyu-harnesses-geoai-technologies-to-enable-sustainable-urban-development/

Contact: Iris Lai, Manager, Research and Innovation Office, 3400 2492, syiris.lai@polyu.edu.hk; Annie Wong, Senior Manager, Communications and Public Affairs, 3400 3853, anniewy.wong@polyu.edu.hk

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Industry: **ARTIFICIAL INTELLIGENCE** (90%); COLLEGE & UNIVERSITY PROFESSORS (90%); GEOSPATIAL DATA (90%); SURVEYING & MAPPING (90%); SUSTAINABLE CITIES & COMMUNITIES (90%); REMOTE SENSING TECHNOLOGY (89%); SATELLITE INDUSTRY (89%); SUSTAINABLE DEVELOPMENT (89%); BIG DATA (87%); DATA ANALYTICS (78%); ENVIRONMENTAL SENSORS (76%); ENERGY & UTILITIES (73%); ENERGY CONSUMPTION (65%)

Load-Date: April 9, 2024

Over 100 Experts From Home and Abroad Discuss Smart City Development at UM

Targeted News Service

August 25, 2024 Sunday 8:40 AM EST

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Length: 609 words

Byline: Targeted News Service

Dateline: MACAU, China

Body

(TNSres) -- The University of Macau issued the following news release:

The State Key Laboratory of Internet of Things for Smart City (SKL-IOTSC) of the University of Macau (UM) held the 4th Macao International Conference on Smart City Technologies. Themed 'Powering Resilient and Sustainable Cities: Innovations in AIOT', this year's conference brought together more than 100 experts and scholars from home and abroad to explore key strategies, cutting-edge interdisciplinary theories, key technologies, and applications for smart city development.

Yonghua Song, rector of UM and director of SKL-IOTSC, was the general chair of the conference. In his opening speech, Song emphasised the critical role of **artificial intelligence** and Internet of Things technologies in **disaster** prevention and mitigation, highlighting their indispensable contributions to the pursuit of urban resilience and sustainable development of cities worldwide. He added that the conference provided an excellent platform for researchers, scholars and professionals in related fields to share novel theories and experiences in smart city development, fostering deeper collaborations between industry and technology sectors.

Keynote speakers at the conference included Mark Girolami, professor at the University of Cambridge; Ramteen Sioshansi, professor at Carnegie Mellon University; Ahsan Kareem, professor at the University of Notre Dame; Hao Hong, Distinguished Professor at Curtin University. In addition, the panel discussion titled 'Critical Issues in Internet of Things Technologies for **Disaster** Mitigation', moderated by Yuen Ka Veng, Distinguished Professor in the Faculty of Science and Technology at UM, attracted many scholars to engage in discussions.

This year's conference followed the format of previous editions, providing a platform for participants to engage in multidimensional and interdisciplinary exchanges, and for scholars and industry practitioners from around the world to present original and significant research findings. Focusing on smart communication, big data, smart energy, autonomous driving, urban safety and **disaster** prevention, the conference showcased a range of smart city development projects, and the latest research results in **artificial intelligence** technologies.

The conference was co-organised by the Faculty of Science and Technology of UM, the Science and Technology Development Fund of the Macao SAR, the Macao Post and Telecommunications Bureau, UMTEC Limited, the Zhuhai UM Science & Technology Research Institute, and the Guangdong-Hong Kong-Macao Joint Laboratory for

Over 100 Experts From Home and Abroad Discuss Smart City Development at UM

Smart Cities. It is sponsored by the Alliance of National and International Science Organizations for the Belt and Road Regions, the Hengqin Digital Zero-Carbon Island Shared Laboratory, and NEIIC. The event was also sponsored and supported by Huawei Services (Hong Kong) Co Ltd Macau Branch, CTM, and various departments of the Macao SAR Government, including the Economic and Technological Development Bureau, the Cultural Affairs Bureau, and the Macao Meteorological and Geophysical Bureau. The conference was also attended by Leong Weng Kun, director of the Macao Meteorological and Geophysical Bureau; Ip Chong Wa, deputy director of the Macao Post and Telecommunications Bureau; Ho Hong Pan, acting vice president of the Cultural Affairs Bureau; Lei Chon Kit, acting chief of the Technology Department of the Economic and Technological Development Bureau.

* * *

Original text here: <https://www.um.edu.mo/news-and-press-releases/press-release/detail/58896/>

Contact: Albee Lei, 853/8822 8004, prs.media@um.edu.mo

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Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: CITIES (92%); COLLEGE & UNIVERSITY PROFESSORS (91%); CITY LIFE (90%); CONFERENCES & CONVENTIONS (90%); SMART CITIES (90%); TECHNOLOGY (90%); **ARTIFICIAL INTELLIGENCE** (89%); SMART TECHNOLOGY (89%); SUSTAINABLE CITIES & COMMUNITIES (89%); EXPERIMENTATION & RESEARCH (88%); GEOLOGY & GEOPHYSICS (78%); RESEARCH INSTITUTES (78%); ECONOMIC DEVELOPMENT (77%); INTERNATIONAL ASSISTANCE (77%); SUSTAINABLE DEVELOPMENT (77%); SUSTAINABILITY (76%); **DISASTER** PLANNING (74%); SAFETY (74%); SAFETY, ACCIDENTS & DISASTERS (74%); PRESS RELEASES (73%); ASSOCIATIONS & ORGANIZATIONS (70%); INTELLIGENCE SERVICES (69%); RESEARCH REPORTS (68%); COMMUNICATIONS LAW (60%); CULTURE DEPARTMENTS (60%); GOVERNMENT & PUBLIC ADMINISTRATION (60%)

Organization: UNIVERSITY OF NOTRE DAME (55%)

Industry: COLLEGE & UNIVERSITY PROFESSORS (91%); INTERNET OF THINGS (90%); SMART CITIES (90%); **ARTIFICIAL INTELLIGENCE** (89%); SMART TECHNOLOGY (89%); SUSTAINABLE CITIES & COMMUNITIES (89%); TELECOMMUNICATIONS (89%); INFORMATION TECHNOLOGY INDUSTRY (78%); SUSTAINABLE DEVELOPMENT (77%); COMMUNICATIONS LAW (60%)

Geographic: HONG KONG, CHINA (92%); GUANGDONG, CHINA (79%); SOUTH CHINA (79%); CHINA (79%)

Load-Date: August 25, 2024

Over 100 Experts From Home and Abroad Discuss Smart City Development at UM

End of Document

NEW AI-LED SCIENCE INITIATIVE WILL HELP PROTECT COMMUNITIES HIT BY CLIMATE CHANGE IN
EAST AFRICA**NEW AI-LED SCIENCE INITIATIVE WILL HELP PROTECT COMMUNITIES HIT
BY CLIMATE CHANGE IN EAST AFRICA**

States News Service

June 28, 2024 Friday

Copyright 2024 States News Service

Length: 691 words**Byline:** States News Service**Dateline:** OXFORD, UK**Body**

The following information was released by the University of Oxford:

The United Nations World Food Programme (WFP), Oxford University Physics Department, IGAD Climate Prediction and Applications Centre (ICPAC), and various national forecasting and meteorology agencies across east Africa are joining forces to pioneer a transformative initiative that is revolutionising extreme weather forecasting and early warning systems in the region.

In east Africa, where deadly floods have succeeded the worst drought in decades, climate change is accelerating the frequency and severity of extreme weather events, and the need for precise and timely forecasts has never been more critical. In an era marked by escalating weather variability, accurate weather predictions are essential to safeguard lives and livelihoods.

Traditional weather forecasting models often fall short in accurately predicting extreme weather events, leaving vulnerable communities at risk. However, by harnessing the power of **Artificial Intelligence (AI)**, climate scientists at Oxford University Physics have developed a ground-breaking **AI**-based approach to weather forecasting, building more local and accurate models offering high-resolution predictions of extreme weather such as floods. This can be used to improve the accuracy of forecasts in lower-income countries where there is less observational weather data, and without the need for additional costly supercomputers.

Dr Shruti Nath, a climate scientist at Oxford University Physics, said: 'Through collaboration with ECMWF, the European Centre for Medium-Range Weather Forecasts, on our common understanding of physical atmospheric processes and the latest in **AI** and machine learning, we can supply state-of-the-art weather models to give more accurate and local predictions enabling particular countries and regions to better anticipate and prepare for extreme weather.'

Accurate early warnings are a game-changer in **disaster** risk management. By providing more timely and reliable forecasts, governments and communities can take anticipatory actions that protect lives and livelihoods and mitigate the impacts of extreme weather events before they occur. This proactive approach is transforming humanitarian responses, shifting from reactive to preventative measures, ultimately saving more lives and reducing costs associated with **disaster** relief.

NEW AI-LED SCIENCE INITIATIVE WILL HELP PROTECT COMMUNITIES HIT BY CLIMATE CHANGE IN EAST AFRICA

With its deep understanding of the challenges faced by those most affected by climate extremes, WFP is instrumental in ensuring that technological advancements reach and benefit those in need, so they can plan, prepare, and act proactively.

'I think we have the potential to change the world,' said Jesse Mason, Global Head of the Anticipatory Action Programme at WFP. 'The World Food Programme has realised that we need to start protecting lives before they need saving. We need to make sure we are acting ahead of extreme events, making sure that governments and communities have the tools to prepare and mitigate the impacts these are having on livelihoods and lives.'

Collaboration with regional and local actors is at the heart of this project. As the regional climate centre for Eastern Africa, ICPAC spearheads the capacity of its 11 member states in the region and offers the opportunity to scale the cutting-edge technology in producing forecasts. Meanwhile, national meteorological agencies, including the Kenya Meteorological Department and the Ethiopia Meteorological Institute, both partners for the new initiative, will ensure that the technology is tailored to the specific needs of their communities.

The success of this initiative in east Africa sets a precedent for broader application. The vision extends beyond this region, aiming to replicate this model in other parts of the world facing similar challenges. By continuing to refine **AI**-based models and expanding our partnerships, the goal is to build a more resilient global community capable of withstanding the worsening impacts of climate change.

This initiative was made possible with the support of Google.org to World Food Program USA, in support of WFP's efforts to mitigate the impacts of climate change.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: CLIMATOLOGY (91%); EARTH & ATMOSPHERIC SCIENCE (91%); SEVERE WEATHER (91%); UNITED NATIONS INSTITUTIONS (91%); WEATHER (91%); **ARTIFICIAL INTELLIGENCE** (90%); CLIMATE CHANGE (90%); FLOODS & FLOODING (90%); INTERNATIONAL ASSISTANCE (90%); PHYSICS (90%); SCIENCE & TECHNOLOGY (90%); UNITED NATIONS (90%); FOOD ASSISTANCE (89%); MATH & SCIENCE EDUCATION (89%); RELIEF ORGANIZATIONS (89%); HUMANITARIAN AID (78%); METEOROLOGY (78%); NATURAL DISASTERS (78%); OCEANOGRAPHIC & ATMOSPHERIC SERVICES (78%); **DISASTER** & EMERGENCY RELIEF (77%); **DISASTER** RISK REDUCTION (77%); TECHNOLOGY (77%); ENVIRONMENTAL ACCIDENTS & DISASTERS (76%); NATURAL **DISASTER** ALERTS (76%); SAFETY, ACCIDENTS & DISASTERS (76%); COLLEGES & UNIVERSITIES (74%); DROUGHT (72%); MACHINE LEARNING (72%); **DISASTER** RELIEF (71%); RISK MANAGEMENT (62%)

Organization: EUROPEAN CENTRE FOR MEDIUM-RANGE WEATHER FORECASTS (82%)

Industry: **ARTIFICIAL INTELLIGENCE** (90%); COLLEGES & UNIVERSITIES (74%); MACHINE LEARNING (72%); RISK MANAGEMENT (62%)

Geographic: OXFORD, ENGLAND (59%); AFRICA (94%); EASTERN AFRICA (94%)

NEW AI-LED SCIENCE INITIATIVE WILL HELP PROTECT COMMUNITIES HIT BY CLIMATE CHANGE IN
EAST AFRICA

Load-Date: June 28, 2024

End of Document

PR NO. 174 GOVERNMENT OF PAKISTAN HAS ESTABLISHED A MULTI-SECTOR PARTNERSHIP PROGRAM "GENERATION UNLIMITED" AND A NATIONAL YOUTH COUNCIL TO EMPOWER YOUTH LEADER....

PR NO. 174 GOVERNMENT OF PAKISTAN HAS ESTABLISHED A MULTI-SECTOR PARTNERSHIP PROGRAM "GENERATION UNLIMITED" AND A NATIONAL YOUTH COUNCIL TO EMPOWER YOUTH LEADERSHIP; CHAIRMAN PM'S YOUTH PROGRAM, RANA MASHOOD LONDON: JULY 19, 2024

States News Service

July 19, 2024 Friday

Copyright 2024 States News Service

Length: 454 words

Byline: States News Service

Dateline: ISLAMABAD, Pakistan

Body

The following information was released by the Government of Pakistan:

Chairman of Prime Minister's Youth Programme, Rana Mashood Ahmad Khan held a meeting with the Secretary General of the Commonwealth, The Rt Hon Patricia Scotland KC at the Commonwealth Secretariat in London. High Commissioner of Pakistan to UK, Dr. Mohammad Faisal and officials of Pakistan High Commission were also present during the meeting. Rana Mashood stated that, as a founding member of the Commonwealth, Pakistan attaches huge importance to the Commonwealth and regards it as a key platform to test ideas and forge consensus. Pakistan is committed to the Commonwealth Sustainable Development Agenda.

He added that there is a wide scope for Pakistan to engage with the Commonwealth towards realization of its sustainable Development Agenda, particularly in education, skills development for youth, women empowerment, health, and climate change mitigation. Rana Mashood briefed the Secretary General of the Commonwealth about Prime Minister Shehbaz Sharif's initiative of establishing a multi-sector partnership program "Generation Unlimited" and a National Youth Council. He stated that the youth Council will act as an advisory body, comprised of talented youth, to provide policy advice to the government about youth empowerment. Secretary General of the Commonwealth stated that she looked forward to her visit to Pakistan later this month and expressed the hope to have very productive meetings. She said that Pakistan ranks 3rd on the global youth employability index and it is a great strength for Pakistan that needs to be harnessed. The Rt Hon Patricia Scotland KC emphasized on the need to establish joint mechanisms between Commonwealth countries for **disaster** management and relief efforts. She said that Pakistan has negligible contribution in the green house gas emissions, yet it is prone to climate induced disasters. The Secretary General of Commonwealth stressed upon collaborative efforts for youth education in technology particularly **Artificial Intelligence (AI)**. She invited Pakistan to join the Commonwealth's **AI** Consortium that would help in training Pakistani youth in **AI**.

PREVIOUS NEXT

ABOUT US

PR NO. 174 GOVERNMENT OF PAKISTAN HAS ESTABLISHED A MULTI-SECTOR PARTNERSHIP PROGRAM "GENERATION UNLIMITED" AND A NATIONAL YOUTH COUNCIL TO EMPOWER YOUTH LEADER....

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PID carries out its operation round the clock through a proper mechanism of media projection, monitoring and feedback. It aims to publicize the government policies and also to apprise the Government about the impact of its policies.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: PRIME MINISTERS (92%); CHILD WELFARE (90%); GOVERNMENT BODIES & OFFICES (90%); HEADS OF STATE & GOVERNMENT (90%); TALKS & MEETINGS (90%); NEGATIVE NEWS (89%); GOVERNMENT DEPARTMENTS & AUTHORITIES (79%); CLIMATE ACTION (78%); GOVERNMENT & PUBLIC ADMINISTRATION (78%); PUBLIC POLICY (78%); SUSTAINABILITY (75%); SUSTAINABLE DEVELOPMENT (75%); CLIMATE CHANGE (73%); EMISSIONS (68%); GREENHOUSE GASES (68%); SAFETY, ACCIDENTS & DISASTERS (68%); **ARTIFICIAL INTELLIGENCE** (67%); **DISASTER** RELIEF (63%)

Organization: COMMONWEALTH SECRETARIAT (58%)

Industry: SUSTAINABLE DEVELOPMENT (75%); EMISSIONS (68%); **ARTIFICIAL INTELLIGENCE** (67%)

Person: SHEHBAZ SHARIF (79%); PATRICIA SCOTLAND (58%)

Geographic: LONDON, ENGLAND (79%); ISLAMABAD, PAKISTAN (59%); PAKISTAN (94%); SCOTLAND (92%); UNITED KINGDOM (79%)

Load-Date: July 20, 2024

Artificial Intelligence A Threat to Climate Change, Energy Usage and Disinformation

Targeted News Service

March 7, 2024 Thursday 1:17 AM EST

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Length: 821 words

Byline: Targeted News Service

Dateline: WASHINGTON

Body

(TNSres) -- Friends of the Earth issued the following news release:

* * *

Tech accountability and environmental groups sound the alarm on the potential harms of **AI** to the planet and information ecosystems

* * *

Today, partners in the Climate Action Against Disinformation coalition released a report that maps the risks that **artificial intelligence** poses to the climate crisis.

Topline points:

* **AI** systems require an enormous amount of energy and water, and consumption is expanding quickly. Estimates suggest a doubling in 5-10 years.

* Generative **AI** has the potential to turbocharge climate disinformation, including climate change-related deepfakes, ahead of a historic election year where climate policy will be central to the debate.

* The current **AI** policy landscape reveals a concerning lack of regulation on the federal level, with minor progress made at the state level, relying on voluntary, opaque and unenforceable pledges to pause development, or provide safety with its products.

"**AI** companies spread hype that they might save the planet, but currently they are doing just the opposite," said Michael Khoo, Climate Disinformation Program Director at Friends of the Earth. "**AI** companies risk turbocharging climate disinformation, and their energy use is causing a dangerous increase to overall US consumption, with a corresponding increase of carbon emissions."

"We are already seeing how generative **AI** is being weaponized to spin up climate disinformation or copy legitimate news sites to siphon off advertising revenue", said Sarah Kay Wiley, Director of Policy at Check My Ads, "Adtech

Artificial Intelligence A Threat to Climate Change, Energy Usage and Disinformation

companies are woefully unprepared to deal with Generative **AI** and the opaque nature of the digital advertising industry means advertisers are not in control of where their ad dollars are going. Regulation is needed to help build transparency and accountability to ensure advertisers are able to decide whether to support **AI** generated content."

"The evidence is clear: the production of **AI** is having a negative impact on the climate. The responsibility to address those impacts lie with the companies producing and releasing **AI** at a breakneck speed," said Nicole Sugerman, Campaign Manager at Kairos Fellowship. "We must not allow another 'move fast and break things' era in tech; we've already seen how the rapid, unregulated growth of social media platforms led to previously unimaginable levels of online and offline harm and violence. We can get it right this time, with regulation of **AI** companies that can protect our futures and the future of the planet."

"The climate emergency cannot be confronted while online public & political discourse is polluted by fear, hate, confusion and conspiracy," said Oliver Hayes, Head of Policy & Campaigns at Global Action Plan. "**AI** is supercharging these problems, making misinformation cheaper and easier to produce and share than ever before. In a year when 2 billion people are heading to the polls, this represents an existential threat to climate action. We should stop looking at **AI** through the 'benefit-only' analysis and recognise that, in order to secure robust democracies and equitable climate policy, we must rein in big tech and regulate **AI**."

"The skyrocketing use of electricity and water, combined with its ability to rapidly spread disinformation, makes **AI** one of the greatest emerging climate threat-multipliers, said Charlie Cray, Senior Strategist at Greenpeace USA, "Governments and companies must stop pretending that increasing equipment efficiencies and directing **AI** tools towards weather **disaster** responses are enough to mitigate **AI**'s contribution to the climate emergency."

Previously, the coalition submitted letters to President Biden and Senator Chuck Schumer that call on them to implement climate concerns into proposed **AI** legislation. The letters echo recommendations made in the report, including:

- * Transparency: Companies must publicly report on energy usage and emissions produced, assess any environmental justice concerns related to developing **AI** technology and disclose how their **AI** models produce information in a way that prioritizes climate science.

- * Safety: Companies must be able to publicly demonstrate their products are safe for users and the environment. In addition, governments should develop standards on **AI** safety reporting and invest in research that maps the risks **AI** poses to the spread of climate disinformation.

- * Accountability: Governments should enforce rules on investigating and mitigating the climate impacts of **AI** with clear, strong penalties for noncompliance. Companies and their executives must be held accountable for any harms that occur as a result of their products.

* * *

REPORT: https://foe.org/wp-content/uploads/2024/03/AI_Climate_Disinfo_v5_030524.pdf

* * *

Original text here: <https://foe.org/news/ai-threat-report/>

[Category: Environment]

Contact: Erika Seiber, eseiber@foe.org

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Classification

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Company: **AI** SYSTEMS (57%)

Organization: FRIENDS OF THE EARTH (91%)

Industry: SIC7372 PREPACKAGED SOFTWARE (57%); MARKETING & ADVERTISING (91%); **ARTIFICIAL INTELLIGENCE** (90%); ENERGY & UTILITIES (90%); ENERGY CONSUMPTION (90%); GENERATIVE **AI** (90%); **ARTIFICIAL INTELLIGENCE** REGULATION & POLICY (89%); DEEPFAKE TECHNOLOGY (73%); EMISSIONS (73%); WATER CONSUMPTION (72%); INTERACTIVE MARKETING & ADVERTISING (69%); ONLINE MARKETING & ADVERTISING (69%); MARKETING & ADVERTISING EXPENDITURE (64%); MARKETING & ADVERTISING REVENUE (64%); SOCIAL MEDIA (60%)

Geographic: UNITED STATES (79%)

Load-Date: March 16, 2024

OAS AND VIVE CON ESPERANZA FOUNDATION TO COOPERATE IN PROMOTING SUSTAINABLE
DEVELOPMENT AND DISASTER RISK MANAGEMENT

**OAS AND VIVE CON ESPERANZA FOUNDATION TO COOPERATE IN
PROMOTING SUSTAINABLE DEVELOPMENT AND DISASTER RISK
MANAGEMENT**

States News Service

April 9, 2024 Tuesday

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Length: 446 words

Byline: States News Service

Dateline: WASHINGTON, DC

Body

The following information was released by the Organization of American States (OAS):

The Organization of American States (OAS), and the Vive con Esperanza Foundation will join forces to support the 2024 Continental Rally, a competition for elementary and middle schools in the Americas that promotes education for sustainable development and **disaster** risk management, under the theme "Digitalizing the Future".

The competition is open to all elementary and middle schools in the Americas that wish to promote sustainable and resilient education in their community. Interested schools should register here.

Once the competition has concluded, the OAS Executive Secretariat for Integral Development (SEDI) through its Department of Sustainable Development (DSD) and in collaboration with the Art Museum of the Americas (AMA), will host an interactive exhibition of entries from the 2024 Continental Rally at its headquarters in Washington, DC, to be held from April 21 to May 2, 2025. The exhibition will be prominently displayed at the Marcus Garvey Gallery in the OAS Main Building and on a digital platform accessible to schools across the hemisphere.

Applications for the 2024 Continental Rally regional art competition will be free and open to over 10,000 primary and secondary schools across the Americas until August 16, 2024. Photographs and digital art, utilizing **artificial intelligence (AI)**, will be used to showcase the five key strategic pillars:

health and well-being.

equity and social inclusion.

disaster risk management with an emphasis on school safety.

resilience and adaptation to climate change.

entrepreneurship, and sustainable economic development.

OAS AND VIVE CON ESPERANZA FOUNDATION TO COOPERATE IN PROMOTING SUSTAINABLE DEVELOPMENT AND DISASTER RISK MANAGEMENT

Entries will be evaluated by a jury of representatives from international organizations and experts in sustainable development. Winning schools will receive recognition and awards at both regional and international levels, in addition to being integrated into the International Committee of the Vive con Esperanza Award.

The OAS invites Ministries of Education and Environment, as well as the **Disaster** Risk Reduction Offices in member countries, to support this exciting initiative that links a wide variety of stakeholders, integrating the public sector with schools, NGOs, the private sector, development funds, and civil society, all working towards a hemispheric approach to the resilience of our communities across the Americas.

Executive Secretary Kim Osborne underscored the OAS's readiness to collaborate and strengthen synergies, cooperation, and coordination in harnessing the benefits of digital transformation, by promoting sustainable development through the integration of art, innovation, and technology.

Classification

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Publication-Type: Newswire

Subject: ASSOCIATIONS & ORGANIZATIONS (90%); **DISASTER** RISK REDUCTION (90%); EDUCATION SYSTEMS & INSTITUTIONS (90%); INTERNATIONAL GOVERNMENTAL ORGANIZATIONS (90%); PRIMARY & SECONDARY EDUCATION (90%); RISK MANAGEMENT (90%); SUSTAINABILITY (90%); SUSTAINABLE DEVELOPMENT (90%); TRENDS & EVENTS (90%); SOCIETY, SOCIAL ASSISTANCE & LIFESTYLE (89%); GOVERNMENT DEPARTMENTS & AUTHORITIES (79%); NONGOVERNMENTAL ORGANIZATIONS (78%); RELIEF ORGANIZATIONS (78%); BUSINESS NEWS (77%); ECONOMIC DEVELOPMENT (77%); GREEN ECONOMY (77%); MIDDLE & JUNIOR HIGH SCHOOLS (77%); SAFETY (77%); EDUCATION DEPARTMENTS (72%); ENTREPRENEURSHIP (72%); SAFETY, ACCIDENTS & DISASTERS (72%); SCHOOL SAFETY & SECURITY (72%); SECONDARY SCHOOLS (72%); TECHNOLOGY (72%); **ARTIFICIAL INTELLIGENCE** (65%); MEDICINE & HEALTH (50%)

Organization: ORGANIZATION OF AMERICAN STATES (93%)

Industry: EDUCATION SYSTEMS & INSTITUTIONS (90%); EDUCATIONAL SERVICES (90%); MUSEUMS & GALLERIES (90%); PRIMARY & SECONDARY EDUCATION (90%); RISK MANAGEMENT (90%); SUSTAINABLE DEVELOPMENT (90%); GREEN ECONOMY (77%); MIDDLE & JUNIOR HIGH SCHOOLS (77%); DIGITALIZATION & DIGITAL TRANSFORMATION (76%); SECONDARY SCHOOLS (72%); **ARTIFICIAL INTELLIGENCE** (65%)

Geographic: WASHINGTON DC, USA (92%); UNITED STATES (94%)

Load-Date: April 10, 2024

Wireless Broadband in Public Safety Market: In-Depth Analysis by Market Research Future

iCrowdNewswire (English)

May 23, 2024 Thursday 3:00 PM GMT

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Length: 2010 words

Body

Market Overview The Wireless Broadband in Public Safety market is rapidly evolving, driven by the need for reliable and efficient communication systems for emergency services. This market focuses on providing high-speed internet and communication services to public safety organizations, including [...]

Market Overview

The Wireless Broadband in Public Safety market is rapidly evolving, driven by the need for reliable and efficient communication systems for emergency services. This market focuses on providing high-speed internet and communication services to public safety organizations, including law enforcement, fire services, and emergency medical services.

With the increasing frequency of natural disasters, terrorist attacks, and other emergencies, the demand for robust and resilient communication networks is at an all-time high. Wireless Broadband in Public Safety Market is projected to grow from **USD 51.6 billion** in 2024 to **USD 263.14 billion** by 2032, exhibiting a compound annual growth rate (CAGR) of **26.20%** during the forecast period (2024 - 2032).

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Key Market Segments

By Technology

Long-Term Evolution (LTE): LTE is the most widely adopted technology in public safety wireless broadband due to its high-speed data transfer capabilities and reliability. It supports a wide range of applications, including real-time video streaming and remote diagnostics.

5G: The emergence of 5G technology is set to revolutionize the public safety sector with its ultra-low latency and high-speed connectivity. It enables enhanced capabilities such as augmented reality (AR) for situational awareness and advanced IoT applications.

Wi-Fi: Wi-Fi continues to play a critical role, especially in urban areas and during large public events where cellular networks may become congested.

By Application

Law Enforcement: Wireless broadband is crucial for law enforcement agencies, providing real-time access to databases, live video feeds, and enhanced communication between officers and control centers.

Fire Services: Firefighters use wireless broadband for access to building layouts, hazardous materials information, and real-time coordination during emergency responses.

Emergency Medical Services (EMS): EMS personnel rely on wireless broadband for telemedicine applications, patient data transfer, and communication with hospitals to ensure timely and effective medical interventions.

Disaster Management: During natural disasters, wireless broadband facilitates coordination between various agencies, real-time situation assessment, and efficient resource deployment.

Industry Latest News

5G Deployments: Several countries are rolling out 5G networks dedicated to public safety, providing enhanced capabilities for emergency services. For example, South Korea has implemented a nationwide 5G network specifically for public safety.

Public-Private Partnerships: Governments are increasingly collaborating with private telecom companies to develop and maintain advanced public safety networks. In the U.S., FirstNet, a public-private partnership with AT&T, is expanding its coverage and capabilities.

AI and IoT Integration: The integration of **Artificial Intelligence (AI)** and the Internet of Things (IoT) in public safety networks is improving incident response times and situational awareness. **AI**-driven analytics provide actionable insights from vast amounts of data collected through IoT devices.

Interoperability Initiatives: Efforts to improve interoperability between different public safety agencies and their communication systems are gaining momentum. This ensures seamless communication during multi-agency responses.

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Key Companies

- AT&T
- Verizon Communications Inc
- Cisco Systems Inc.
- Ericsson
- Huawei Technologies Co. Ltd
- Broadcom
- HPE Aruba Networks
- Extreme Networks
- Juniper Networks
- Motorola Solutions
- NEC Corporation
- Netgear, Inc
- Semtech Corporation
- ZTE Corporation

Wireless Broadband in Public Safety Market: In-Depth Analysis by Market Research Future

- General Dynamics Corporation
- L3Harris Technologies, Inc
- Bittium Corporation
- Hughes Network Systems, LLC
- Hytera Communications Corporation
- Cambium Networks Limited
- Infinet Wireless
- Netronics Networks
- Proxim Wireless
- Radwin
- Aviat Networks, Inc
- Knightscope
- Parallel Wireless

Market Drivers**Increasing Need for Real-Time Communication**

The necessity for real-time communication during emergencies is a primary driver for the wireless broadband in public safety market. Timely information sharing can be the difference between life and death in critical situations.

Technological Advancements

Continuous advancements in wireless technology, including the rollout of 5G networks and the development of sophisticated communication devices, are propelling the market forward. These technologies offer enhanced speed, reliability, and functionality.

Government Initiatives and Funding

Governments worldwide are investing heavily in public safety infrastructure. Funding programs and initiatives aimed at upgrading existing communication systems are significantly boosting the market.

Rising Incidences of Natural Disasters and Terrorism

The increasing frequency of natural disasters and terrorist activities necessitates robust and reliable communication networks. Wireless broadband provides the necessary infrastructure for efficient coordination and response.

Adoption of IoT and AI

The integration of IoT and AI in public safety applications enhances situational awareness and operational efficiency. IoT devices, such as drones and sensors, provide real-time data, while AI helps in analyzing this data for actionable insights.

Browse In-depth Market Research Report (128 Pages, Charts, Tables, Figures) on Wireless Broadband in Public Safety Market-<https://www.marketresearchfuture.com/reports/wireless-broadband-in-public-safety-market-22030>

Regional Insights

North America

North America, particularly the United States, dominates the wireless broadband in public safety market. The region's advanced technological infrastructure, high investment in public safety, and initiatives like FirstNet contribute to this dominance. Canada is also making significant strides with investments in modernizing its public safety networks.

Europe

Europe is another significant market, with countries like the UK, Germany, and France leading in the adoption of advanced public safety communication systems. The European Union's focus on enhancing public safety infrastructure and interoperability among member states is driving the market.

Asia-Pacific

The Asia-Pacific region is experiencing rapid growth in this market due to increasing government initiatives, technological advancements, and the need for improved **disaster** management. Countries like China, Japan, and South Korea are at the forefront, with substantial investments in 5G and public safety infrastructure.

Latin America

Latin America is gradually adopting wireless broadband solutions for public safety, driven by the need to improve **disaster** response and crime management. Countries such as Brazil and Mexico are investing in upgrading their communication networks.

Middle East and Africa

The Middle East and Africa are emerging markets for wireless broadband in public safety. With increasing urbanization and the threat of regional conflicts, countries in these regions are focusing on enhancing their public safety communication capabilities. Investments in smart city projects are also driving the market.

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Conclusion

The Wireless Broadband in Public Safety market is poised for significant growth, driven by technological advancements, increasing demand for real-time communication, and substantial government investments. As public safety agencies continue to adopt modern communication technologies, the market will see enhanced capabilities, improved interoperability, and greater efficiency in emergency response. Key players in the market are focusing on innovation and strategic partnerships to address the evolving needs of public safety organizations globally. With promising growth opportunities across various regions, the market for wireless broadband in public safety is set to play a crucial role in ensuring the safety and security of communities worldwide.

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Testing Inspection and Certification (TIC) Market <https://www.marketresearchfuture.com/reports/testing-inspection-certification-market-1947>

Artificial Intelligence in Retail Market <https://www.marketresearchfuture.com/reports/artificial-intelligence-in-retail-market-5009>

Wireless Broadband in Public Safety Market: In-Depth Analysis by Market Research Future

AI in Social Media Market <https://www.marketresearchfuture.com/reports/ai-in-social-media-market-6089>

Application Container Market <https://www.marketresearchfuture.com/reports/application-container-market-6582>

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MRFR team have supreme objective to provide the optimum quality market research and intelligence services to our clients. Our market research studies by products, services, technologies, applications, end users, and market players for global, regional, and country level market segments, enable our clients to see more, know more, and do more, which help to answer all their most important questions.

Also, we are launching Wantstats the premier statistics portal for market data in comprehensive charts and stats format, providing forecasts, regional and segment analysis. Stay informed and make data-driven decisions with Wantstats.

Tags: China Wireless Broadband in Public Safety Market, Europe Wireless Broadband in Public Safety Market, US Wireless Broadband in Public Safety Market, Wireless Broadband in Public Safety Market, Wireless Broadband in Public Safety Market Growth, Wireless Broadband in Public Safety Market Share, Wireless Broadband in Public Safety Market Size, Wireless Broadband in Public Safety Market Trends
See Campaign: <https://www.marketresearchfuture.com/reports/wireless-broadband-in-public-safety-market-22030>

Contact Information:

Contact Us: Market Research Future (Part of Wantstats Research and Media Private Limited) 99 Hudson Street, 5Th Floor New York, NY 10013 United States of America +1 628 258 0071 (US) +44 2035 002 764 (UK) Email: sales@marketresearchfuture.com Website: <https://www.marketresearchfuture.com>

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Subject: SAFETY, ACCIDENTS & DISASTERS (96%); EMERGENCY SERVICES (91%); BUSINESS REPORTS & FORECASTS (90%); EMERGENCY MEDICAL SERVICES (90%); MARKET RESEARCH REPORTS (90%); NEGATIVE NEWS (90%); SAFETY (90%); ACCIDENTS & DISASTERS (89%); CRIME, LAW ENFORCEMENT & CORRECTIONS (89%); LAW ENFORCEMENT (89%); NATURAL DISASTERS (89%); RELIEF ORGANIZATIONS (89%); HEALTH CARE INFORMATION TECHNOLOGY (78%); TELECOMMUNICATIONS SECTOR PERFORMANCE (78%); TELEMEDICINE (78%); HEALTH CARE INFORMATION (75%); BUSINESS FORECASTS (74%); ASSOCIATIONS & ORGANIZATIONS (72%); EMERGING TECHNOLOGY (72%); TECHNOLOGY TRANSFER (71%); NATIONAL SECURITY & FOREIGN RELATIONS (70%); PUBLIC PRIVATE PARTNERSHIPS (64%); TERRORISM (55%); TERRORISM & COUNTERTERRORISM (55%); TERRORIST ATTACKS (55%); Research Newswire (%); English (%); China Wireless Broadband in Public Safety Market (%); Europe Wireless Broadband in Public Safety Market (%); US Wireless Broadband in Public Safety Market (%); Wireless Broadband in Public Safety Market (%); Wireless Broadband in Public Safety Market Growth (%); Wireless Broadband in Public Safety Market Share (%); Wireless Broadband in Public Safety Market Size (%); Wireless Broadband in Public Safety Market Trends (%)

Company: ENVISION HEALTHCARE HOLDINGS INC (52%)

Industry: NAICS622110 GENERAL MEDICAL & SURGICAL HOSPITALS (52%); NAICS621910 AMBULANCE SERVICES (52%); SIC8099 HEALTH & ALLIED SERVICES, NEC (52%); BROADBAND (96%); 5G WIRELESS (90%); COMPUTER NETWORKS (90%); EMERGENCY MEDICAL SERVICES (90%); MARKET RESEARCH (90%); MARKET RESEARCH REPORTS (90%); SHORT RANGE WIRELESS (90%); WIRELESS BROADBAND (90%); INTERNET OF THINGS (89%); WIRELESS INTERNET ACCESS (89%); MARKET RESEARCH & ANALYSIS (79%); MARKET SEGMENTATION (79%); BROADBAND AVAILABILITY (78%); DATA TRANSMISSION (78%); HEALTH CARE INFORMATION TECHNOLOGY (78%); HOSPITALS (78%); MEDIA & TELECOMMUNICATIONS (78%); MOBILE & CELLULAR COMMUNICATIONS (78%); TELECOMMUNICATIONS (78%); TELECOMMUNICATIONS SECTOR PERFORMANCE (78%); TELEMEDICINE (78%); WIRELESS NETWORKS (78%); MARKET SIZE (77%); HEALTH CARE INFORMATION (75%); AUGMENTED REALITY (71%)

Geographic: UNITED STATES (79%)

Load-Date: August 2, 2024

Scientific Systems Conducts Groundbreaking Research Pairing Cutting-Edge Autonomy with Search and Rescue Dogs

PR Newswire

September 24, 2024 Tuesday 11:36 AM EST

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Length: 573 words

Dateline: WOBURN, Mass., Sept. 24, 2024

Body

PR Newswire**COSMIC-T System Analyzes Canine Behavior to Locate Victims Faster During Live Search and Rescue Training Missions**WOBURN, Mass., Sept. 24, 2024 /PRNewswire/ -- In a training exercise conducted for the Defense Advanced Research Projects Agency (DARPA) utilizing federal canine search and rescue teams, Scientific Systems demonstrated groundbreaking **artificial intelligence** software that enables robotic teammates to understand the animal's search response behaviors and accurately predict the location of a lost victim.

This first-of-its-kind demonstration represents a breakthrough in teaming capabilities pairing autonomous systems with living teammates. Utilizing an uncrewed aerial vehicle, the company's COSMIC-T (Collaborative Intelligence for Olfactory Search Missions Integrating Canines and Technology) behavior analysis algorithms fused data from each canine's GPS collar with the environment's topographical and meteorological information to generate and refine real-time victim location predictions. Those predictions can be conveyed to other members of the search team or used to direct the searches of autonomous UAV teammates to locate victims faster. "We are extremely encouraged by the results of COSMIC-T's collaboration with the federal search and rescue dogs during these live training exercises," said Ssu-Hsin Yu, Vice President of Technology Innovation at Scientific Systems. "By teaming autonomous systems with humans and non-authoritative teammates like dogs, we greatly improved the effectiveness of search and rescue operations. This breakthrough demonstration of **AI** and real-time data-fusion demonstrates COSMIC-T's ability to improve outcomes with collaboration between living partners and technology." COSMIC-T's canine training data was captured during training missions conducted by the Boone County Missouri Fire District, the sponsoring agency of the Federal Emergency Management Agency (FEMA) Missouri Task Force One (MO-TF1). "It's been a privilege to assist Scientific Systems in its COSMIC-T program," said Scott Olsen, Fire Chief, Boone County Fire Protection District. "Canine Search Teams are one of the most important components of our **disaster** response capabilities, and we're proud to have contributed data and expertise towards technologies that can help advance the Search and Rescue mission." COSMIC-T builds upon the success of Scientific Systems' DARPA I2O Teammate Aware Autonomy (TAA) program, which in 2020 demonstrated the world's first successful execution of a search and rescue exercise using a trained search and rescue canine and Scientific Systems' autonomous RAPTOR UAV without any instruction or intervention by a human handler. **About Scientific Systems Company, Inc.**

Scientific Systems Company, Inc. (SSCI) focuses on the creation of Autonomy and **AI/ML**-enabled capabilities to command, control, communicate with, and manage composable collections of intelligent agents, smart sensors, and autonomous platforms across the domains of space, air, land, and sea. Founded in 1990, the company invents disruptive technologies, develops revolutionary solutions, and builds trusted products for our customers' most

Scientific Systems Conducts Groundbreaking Research Pairing Cutting-Edge Autonomy with Search and Rescue Dogs

challenging missions. To learn more, visit [sci.com](https://www.prnewswire.com/news-releases/scientific-systems-conducts-groundbreaking-research-pairing-cutting-edge-autonomy-with-search-and-rescue-dogs-302257328.html). View original content: <https://www.prnewswire.com/news-releases/scientific-systems-conducts-groundbreaking-research-pairing-cutting-edge-autonomy-with-search-and-rescue-dogs-302257328.html> SOURCE Scientific Systems Inc.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: DOGS (93%); ANIMAL WELFARE (90%); LAW ENFORCEMENT ANIMALS (90%); PRESS RELEASES (90%); RESCUE OPERATIONS (90%); TECHNOLOGY (90%); WORKING ANIMALS (90%); **ARTIFICIAL INTELLIGENCE** (89%); **DISASTER** & EMERGENCY AGENCIES (89%); SAFETY, ACCIDENTS & DISASTERS (89%); RESEARCH & DEVELOPMENT (79%); ACCIDENTS & DISASTERS (78%); DEFENSE RESEARCH (78%); DOG TRAINING (78%); FIRE DEPARTMENTS (78%); SMART TECHNOLOGY (78%); US FEDERAL GOVERNMENT (77%); ATHLETES (76%); ROBOTICS (76%); INTELLIGENT AGENTS (73%); PRODUCT INNOVATION (73%); FIRE PREVENTION & SAFETY (62%); SSCI-Analyze (%)

Company: SCIENTIFIC SYSTEMS CO INC (86%); TELEVISION FRANCAISE 1 - TF1 SA (53%); Scientific Systems Inc.

Organization: DEFENSE ADVANCED RESEARCH PROJECTS AGENCY (84%)

Ticker: TFI (PAR) (53%)

Industry: SIC7372 PREPACKAGED SOFTWARE (86%); NAICS516120 TELEVISION BROADCASTING STATIONS (53%); SIC4833 TELEVISION BROADCASTING STATIONS (53%); **ARTIFICIAL INTELLIGENCE** (89%); DEFENSE RESEARCH (78%); SMART TECHNOLOGY (78%); UNMANNED AIRCRAFT (78%); UNMANNED MILITARY AIRCRAFT (78%); ROBOTICS (76%); INTELLIGENT AGENTS (73%); ELECTRONIC SENSORS & DETECTORS (68%); CPR Computer; Electronics Products (%); STW Computer Software (%); ARO Aerospace; Defense (%)

Geographic: MASSACHUSETTS, USA (92%); MISSOURI, USA (90%); Massachusetts

Load-Date: September 24, 2024

StockSnips Unveils their first AI-powered ETF: NEWZ, now trading on Nasdaq

StockSnips Unveils their first AI-powered ETF: NEWZ, now trading on Nasdaq

PR Newswire

April 12, 2024 Friday 10:00 AM EST

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Length: 954 words

Dateline: PITTSBURGH, April 12, 2024

Body

PR NewswirePITTSBURGH, April 12, 2024 /PRNewswire/ -- StockSnips Inc., a leader in **AI**-powered investment strategies, announces the launch of its first ETF, NEWZ, now trading on (NASDAQ). **StockSnips AI-powered Sentiment US All Cap ETF (NEWZ)** represents a significant leap forward in the integration of **artificial intelligence** and natural language processing within financial markets, offering investors a unique opportunity for long-term capital appreciation. This advancement is underpinned by the firms' substantial investments in **AI** technology and comprehensive validation of models, reflecting years of innovation and commitment to building **AI** that has the advantage of recognizing patterns that are non-stationary, an issue with current traditional quantitative models.

StockSnips stands apart from conventional ETF Managers, born from the vision of **AI** and Data Science specialists. The founders bring over six decades of **AI** experience to the table, including entrepreneurial success with their prior ventures. The inspiration behind launching NEWZ stems from a commitment to empower investors in navigating the overwhelming surge of information (News Media) via the use of **AI**. Understanding the challenges investors face in navigating the relentless flow of information, the firm utilizes **AI** technology to transform the way investors stay updated and make informed decisions. **Innovative Investment Strategy** The Fund is actively-managed and seeks to achieve its investment objective by leveraging **artificial intelligence** ("**AI**") and natural language processing to derive a proprietary News Media Sentiment Signal. Under normal circumstances, the Fund invests at least 80% of its net assets (plus the amounts of any borrowings for investment purposes) in securities of U.S.-listed large, mid and small capitalization companies and American Depositary Receipts ("ADRs"). StockSnips gathers news information using news articles, blogs and other textual information on a daily basis and evaluates such information along with a proprietary historical sentiment dataset covering approximately 5,000 US equities. The algorithms rank the securities in the investment universe based on the amount of positive news available about a company and its sentiment momentum. The top 30 to 50 stocks are included in the Fund and are equal weighted. The Sub-Adviser expects that under normal market conditions, up to 95% of the portfolio assets will be invested in the securities recommended by the algorithms. **Why buy NEWZ?** Captures News Media Sentiment, a proxy for Investor Sentiment: A proven lead indicator to price movement left out of most portfolios. **Diversified US Equity Holdings:** Seeking uncorrelated returns. **Systematic Rebalancing:** Using **AI** to seek dynamic & unemotional adaptation to changing market conditions. **A Milestone for StockSnips** "This launch marks a pivotal moment in our journey at StockSnips," said Ravi Koka, CEO and Founder. "With NEWZ, we are not just offering an investment product; we are inviting investors to experience the future of finance, and we envision the future of investing to be increasingly characterized by systematically managed portfolios, ones that harness unique data sets and state-of-the-art technologies such as **AI** and Machine Learning. This approach holds the promise to deliver remarkable value to investors, akin to the revolution brought about by passive indexed funds over the past two decades." **About StockSnips** StockSnips, headquartered in Pittsburgh, PA, has been at the forefront of leveraging **AI** and Natural

StockSnips Unveils their first AI-powered ETF: NEWZ, now trading on Nasdaq

Language Processing to revolutionize portfolio construction and management since 2016. The team possesses mature technical experience, with deep specialization in **AI**, Machine Learning, and Natural Language Processing and remains committed to delivering innovative, investment solutions to investors. StockSnips focuses on partnering with financial advisors and investment professionals to provide quality education, research and investment solutions. For more information on NEWZ ETF or to explore investment opportunities with StockSnips, please contact Rebecca Wilde atrebecca@stocksnips.net or call 412.452.1220. **Join Us in the Future of Investing** Invest in NEWZ today and be part of the movement towards **AI**-powered portfolio diversification and innovation for the modern era & investor. **Contact:** Rebecca Wilde – Managing Director, StockSnips

800 Vinial Street, Suite B305

Pittsburgh, PA, 15212

Phone: 412.452.1220

Email: rebecca@stocksnips.net www.stocksnipsetfs.ai **Important Information** The Fund's investment objective, risks, charges and expenses must be considered prior to investing. Click here for the NEWZ Prospectus and Summary Prospectus. A free hardcopy of any prospectus may be obtained by calling +1.215.882.9983 or visiting <https://stocksnipsetfs.ai>. Read carefully before investing. Investments involve risk. Principal loss is possible. Redemptions are limited and often commissions are charged on each trade. Unlike mutual funds, ETFs may trade at a premium or discount to their net asset value. Principal risks of investing in the Fund include: **AI** Model Risk, Foreign Securities Risk, Risk of Investing in Other ETFs, New Fund Risk, Machine Learning Risk, Risk of Investing in the U.S., ADR Risk, Investment Risk, Equity Investing Risk, Management Risk, High Portfolio Turnover Risk, and Geopolitical/Natural **Disaster** Risk. For more detailed information about risks inherent in investing in the Fund, please review the Prospectus. **The Fund is distributed by Quasar Distributors, LLC.** View original content to download multimedia: <https://www.prnewswire.com/news-releases/stocksnips-unveils-their-first-ai-powered-etf-newz-now-trading-on-nasdaq-302114956.html> SOURCE StockSnips

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: **ARTIFICIAL INTELLIGENCE** (90%); NEW PRODUCTS (90%); PRESS RELEASES (90%); TECHNOLOGY (90%); AMERICAN DEPOSITARY RECEIPTS (89%); NATURAL LANGUAGE PROCESSING (89%); SECURITIES & OTHER INVESTMENTS (89%); STOCK EXCHANGES (89%); EQUITIES (79%); FINANCIAL MARKETS & INVESTING (79%); DATA SCIENCE (78%); DEPOSITORY SERVICES (78%); ENTREPRENEURSHIP (78%); EXECUTIVES (78%); MANAGERS & SUPERVISORS (78%); STOCK PRICES (77%); HOLDING COMPANIES (75%); STOCKSNIPS-**AI**-ETF (%) ; PDT New Products and Services (%)

Company: StockSnips

Industry: **ARTIFICIAL INTELLIGENCE** (90%); NEW PRODUCTS (90%); AMERICAN DEPOSITARY RECEIPTS (89%); SECURITIES & OTHER INVESTMENTS (89%); STOCK EXCHANGES (89%); EQUITIES (79%); FINANCIAL MARKETS & INVESTING (79%); DATA SCIENCE (78%); DEPOSITORY SERVICES (78%); STOCK PRICES (77%); BANKING & FINANCE (73%); FIN Banking; Financial Services (%); CPR Computer; Electronics Products (%); FNT Financial Technology (%); MFD Mutual Funds (%)

Geographic: PITTSBURGH, PA, USA (79%); PENNSYLVANIA, USA (79%); UNITED STATES (79%); Pennsylvania

StockSnips Unveils their first AI-powered ETF: NEWZ, now trading on Nasdaq

Load-Date: April 12, 2024

End of Document

APEC BUSINESSES CALL FOR GREATER ACTION AMID INSUFFICIENT ECONOMIC GROWTH AND
INCREASING CLIMATE RISK

**APEC BUSINESSES CALL FOR GREATER ACTION AMID INSUFFICIENT
ECONOMIC GROWTH AND INCREASING CLIMATE RISK**

States News Service

August 5, 2024 Monday

Copyright 2024 States News Service

Length: 507 words

Byline: States News Service

Dateline: TOKYO, Japan

Body

The following information was released by Asia-Pacific Economic Cooperation (APEC):

The APEC Business Advisory Council (ABAC) concluded its meeting in Tokyo this week, calling for decisive action to boost trade, digitalization and climate response.

"Tackling trade and investment barriers, promoting digitalization and accelerating the climate response is urgent. We can't wait any longer" said Julia Torreblanca, the 2024 Chair of ABAC.

In that regard, Torreblanca announced that ABAC has finalized its recommendations for APEC Leaders addressing these challenges, under its' theme for this year, 'People, Business, and Prosperity,' to be formally presented during the APEC Economic Leaders' Week taking place November in Lima, Peru. ABAC also prepared detailed recommendations to Ministers of Finance, Health, Energy, Food Security, and Small and Medium Enterprises.

"Achieving our goals requires a seamless commercial environment built on strong foundations. APEC needs to make the Free Trade Area of the Asia-Pacific a reality, and ensure that the World Trade Organization (WTO) remains relevant and effective", said Torreblanca.

"All APEC economies should join the new WTO E-commerce Agreement, which prevents the use of tariffs on digital trade and lays a critical foundation."

Torreblanca also highlighted the need for a renewed APEC Investment Facilitation Agenda and enhanced supply chain cooperation.

"Another key focus of ABAC is on boosting interoperable digitalization in our region and enabling small businesses to access digital tools like interoperable paperless trade and **artificial intelligence (AI)**. All this, within an **AI** framework that maximizes benefits while mitigating the risks, particularly for workers," she added.

"We have also identified concrete actions to enable micro, small and medium enterprises, especially those led by women and Indigenous entrepreneurs, as well as those in the informal economy, to succeed," Torreblanca noted.

Lastly, addressing the climate crisis, Torreblanca called for urgent collective action to ensure sustainable and resilient growth.

APEC BUSINESSES CALL FOR GREATER ACTION AMID INSUFFICIENT ECONOMIC GROWTH AND INCREASING CLIMATE RISK

"The world has now experienced over 12 consecutive months of temperatures exceeding 1.5 degrees above pre-industrial levels. Public-private sector collaboration will be essential to unlock and scale up financing for the energy transition, innovation and **disaster** resiliency," she emphasized.

"We are also advocating for a new Greener Trade Framework to support emissions reduction throughout supply chains and the transition to a low-carbon economy."

ABAC delegates had the opportunity to engage in different events with local business community and senior government officials, including Japan's Prime Minister Fumio Kishida, Minister for Foreign Affairs Yoko Kamikawa, Minister of Economy, Trade and Industry Saito Ken, Minister for Digital Transformation Taro Kono, and Mayor of Tokyo Yuriko Koike. Torreblanca expressed gratitude to the government for their continued support of the APEC process, and ABAC Japan for their excellent hosting of the meeting.

Classification

Language: ENGLISH

Publication-Type: Newswire

Subject: INTERNATIONAL ECONOMIC ORGANIZATIONS (92%); ECONOMIC CONDITIONS (90%); ECONOMIC DEVELOPMENT (90%); EMERGING MARKETS (90%); INTERNATIONAL GOVERNMENTAL ORGANIZATIONS (90%); INTERNATIONAL TRADE (90%); TALKS & MEETINGS (90%); TRADE DEVELOPMENT (90%); GOVERNMENT BODIES & OFFICES (89%); SMALL & MEDIUM ENTERPRISES (89%); SMALL BUSINESS (89%); GOVERNMENT ADVISORS & MINISTERS (88%); PUBLIC OFFICIALS (79%); AGREEMENTS (78%); ASSOCIATIONS & ORGANIZATIONS (78%); COMMERCE DEPARTMENTS (78%); ECONOMIC GROWTH (78%); ECONOMIC POLICY (78%); ECONOMY & ECONOMIC INDICATORS (78%); ENTREPRENEURSHIP (78%); GOVERNMENT & PUBLIC ADMINISTRATION (78%); GREEN ECONOMY (78%); INTERNATIONAL ORGANIZATIONS & BODIES (78%); LOW CARBON ECONOMY (78%); MICRO ENTERPRISES (78%); STATE DEPARTMENTS & FOREIGN SERVICES (78%); TRADE TREATIES & AGREEMENTS (78%); CLIMATE ACTION (77%); CLIMATE CHANGE (77%); FREE TRADE TREATIES & AGREEMENTS (77%); GREEN SUPPLY CHAINS (77%); NEGATIVE ENVIRONMENTAL NEWS (77%); HEADS OF STATE & GOVERNMENT (75%); PRIME MINISTERS (75%); EMISSIONS (74%); NATIONAL SECURITY & FOREIGN RELATIONS (74%); INTERNATIONAL RELATIONS & NATIONAL SECURITY (73%); POLLUTION MONITORING, PREVENTION & REMEDIATION (73%); PUBLIC PRIVATE PARTNERSHIPS (73%); TARIFFS & DUTIES (73%); UNOFFICIAL ECONOMY (73%); **ARTIFICIAL INTELLIGENCE** (69%); FOOD SECURITY (69%); ELECTRONIC COMMERCE (52%)

Organization: WORLD TRADE ORGANIZATION (90%); ASIA-PACIFIC ECONOMIC COOPERATION (84%)

Industry: DIGITALIZATION & DIGITAL TRANSFORMATION (90%); GREEN ECONOMY (78%); LOW CARBON ECONOMY (78%); GREEN SUPPLY CHAINS (77%); EMISSIONS (74%); **ARTIFICIAL INTELLIGENCE** (69%); ELECTRONIC COMMERCE (52%)

Person: FUMIO KISHIDA (79%)

Geographic: TOKYO, JAPAN (90%); LIMA, PERU (71%); JAPAN (93%); ASIA (92%); PERU (79%)

APEC BUSINESSES CALL FOR GREATER ACTION AMID INSUFFICIENT ECONOMIC GROWTH AND
INCREASING CLIMATE RISK

Load-Date: August 5, 2024

End of Document

A NIST FOUNDATION TO SUPPORT THE AGENCY'S AI MANDATE

States News Service

June 24, 2024 Monday

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Length: 2384 words

Byline: States News Service

Dateline: WASHINGTON, DC

Body

The following information was released by the Federation of American Scientists (FAS):

Text by Aleksandra Srdanovic

The National Institute of Standards and Technology (NIST) faces several obstacles to advancing its mission on **artificial intelligence (AI)** at a time when the field is rapidly advancing and consequences for falling short are wide-reaching. To enable NIST to quickly and effectively respond, Congress should authorize the establishment of a NIST Foundation to unlock additional resources, expertise, flexible funding mechanisms, and innovation, while ensuring the foundation is stood up with strong ethics and oversight mechanisms.

Challenge

The rapid advancement of **AI** presents unprecedented opportunities and complex challenges as it is increasingly integrated into the way that we work and live. The National Institute of Standards and Technology (NIST), an agency within the Department of Commerce, plays an important role in advancing **AI**-related research, measurement, evaluation, and technical standard setting. NIST has recently been given responsibilities under President Biden's October 30, 2023, Executive Order (EO) on Safe, Security, and Trustworthy **Artificial Intelligence**. To support the implementation of the EO, NIST launched an **AI** Safety Institute (AISi), created an **AI** Safety Institute Consortium (AISiC), and released a strategic vision for AISi focused on safe and responsible **AI** innovation, among other actions.

While work is underway to implement Biden's **AI** EO and deliver on NIST's broader **AI** mandate, NIST faces persistent obstacles in its ability to quickly and effectively respond. For example, recent legislation like the Fiscal Responsibility Act of 2023 has set discretionary spending limits for FY26 through FY29, which means less funding is available to support NIST's programs. Even before this, NIST's funding has remained at a fractional level (around \$11.3 billion each year) of the industries it is supposed to set standards for. Since FY22, NIST has received lower appropriations than it has requested.

In addition, NIST is struggling to attract the specialized science and technology (SandT) talent that it needs due to competition for technical talent, a lack of competitive pay compared to the private sector, a gender-imbalanced culture, and issues with transferring institutional knowledge when individuals transition out of the agency, according to a February 2023 Government Accountability Office report. Alongside this, NIST has limitations on how it can work with the private sector and is subject to procurement processes that can be a barrier to innovation, an issue the agency has struggled with in years past, according to a September 2005 Inspector General report.

A NIST FOUNDATION TO SUPPORT THE AGENCY'S AI MANDATE

The consequences of NIST not fulfilling its mandate on AI due to these challenges and limitations are wide-reaching: a lack of uniform AI standards across platforms and countries; reduced AI trust and security; limitations on AI innovation and commercialization; and the United States losing its place as a leading international voice on AI standards and governance, giving the Chinese government and companies a competitive edge as they seek to become a world leader in artificial intelligence.

Opportunity

An agency-related foundation could play a crucial role in addressing these challenges and strengthening NIST's AI mission. Agency-related nonprofit research foundations and corporations have long been used to support the research and development (RandD) mandates of federal agencies by enabling them to quickly respond to challenges and leverage additional resources, expertise, flexible funding mechanisms, and innovation from the private sector to support service delivery and the achievement of agency programmatic goals more efficiently and effectively.

One example is the CDC Foundation. In 1992, Congress passed legislation authorizing the creation of the CDC Foundation, an independent, 501(c)(3) public charity that supports the mandate of the Centers for Disease Control and Prevention (CDC) by facilitating strategic partnerships between the CDC and the philanthropic community and leveraging private-sector funds from individuals, philanthropies, and corporations. The CDC is legally able to capitalize on these private sector funds through two mechanisms: (1) Section 231 of the Public Health Service Act, which authorizes the Secretary of Health and Human Services "to accept on behalf of the United States gifts made unconditionally by will or otherwise for the benefit of the Service or for the carrying out of any of its functions," and (2) the legislation that authorized the creation of the CDC Foundation, which establishes its governance structure and provides the CDC director the authority to accept funds and voluntary services from the foundation to aid and facilitate the CDC's work.

Since 1995, the CDC Foundation has raised \$2.2 billion to support 1,400 public health programs in the United States and worldwide. The importance of this model was evident at the height of the COVID-19 pandemic when the CDC Foundation supported the Centers by quickly raising to deploy various resources supporting communities. In the same way that the CDC Foundation bolstered the CDC's work during the greatest public health challenge in 100 years, a foundation model could be critical in helping an agency like NIST deploy private, philanthropic funds from an independent source to quickly respond to the challenge and opportunity of AI's advancement.

Another example of an agency-related entity is the newly established Foundation for Energy Security and Innovation (FESI), authorized by Congress via the 2022 CHIPS and Science Act following years of community advocacy to support the mission of the Department of Energy (DOE) in advancing energy technologies and promoting energy security. FESI released a Request for Information in February 2023 to seek input on DOE engagement opportunities with FESI and appointed its inaugural board of directors in May 2024.

NIST itself has demonstrated interest in the potential for expanded partnership mechanisms such as an agency-related foundation. In its 2019 report, the agency notes that "foundations have the potential to advance the accomplishment of agency missions by attracting private sector investment to accelerate technology maturation, transfer, and commercialization of an agency's RandD outcomes." NIST is uniquely suited to benefit from an agency-related foundation and its partnership flexibilities, given that it works on behalf of, and in collaboration with, industry on RandD and to develop standards, measurements, regulations, and guidance.

But how could NIST actually leverage a foundation model? A June 2024 paper from the Institute for Progress presents ideas for how a foundation model could support NIST's work on AI and emerging tech. These include setting up a technical fellowship program that can compete with formidable companies in the AI space for top talent; quickly raising money and deploying resources to conduct "rapid capability evaluations for the risks and benefits of new AI systems"; and hosting large-scale prize competitions to develop "complex capabilities benchmarks for artificial intelligence" that would not be subject to usual monetary limitations and procedural burdens.

A NIST Foundation, of course, would have implications for the agency's work beyond AI and other emerging technologies. Interviews with experts at the Federation of American Scientists working across various SandT

A NIST FOUNDATION TO SUPPORT THE AGENCY'S AI MANDATE

domains have revealed additional use cases for a NIST Foundation that map to the agency's topical areas, including but not limited to:

Set standards for industrial biomanufacturing to improve standardization and enable the U.S. bioeconomy to be competitive.

Support the creation and adoption of building codes and standards for construction and development in wildfire-prone regions.

Enable standardization across the transportation system (for example, through electric vehicle charging standardization) to ensure safety and efficiency.

Enable more energy-efficient building and lower impacts of power demand on the grid by improving the interoperability of building systems and components through standardizing the communication between these systems.

Improve disaster resilience mechanisms by creating common standards to regularly collect, validate, share, and report on disaster data in consistent and interoperable formats.

Critical to the success of a foundation model is for it to have the funding needed to support NIST's mission and programs. While it is difficult to estimate exactly how much funding a NIST Foundation could draw in from external sources, there is clearly significant appetite from philanthropy to invest in AI research and initiatives. Reporting from Inside Philanthropy uncovered that some of the biggest philanthropic institutions and individual donors such as Eric and Wendy Schmidt and Open Philanthropy have donated approximately \$1.5 billion to date to AI work. And in November 2023, 10 major philanthropies announced they were committing \$200 million to fund "public interest efforts to mitigate AI harms and promote responsible use and innovation."

Plan of Action

In order to enable NIST to more effectively and efficiently deliver on its mission, especially as it relates to rapid advancement in AI, Congress should authorize the establishment of a NIST Foundation. While the structure of agency-related foundations may vary depending on the agency they support, they all have several high-level elements in common, including but not limited to:

Legal status: Established as 501(c)(3) entities, which enables them to receive tax-deductible donations and grants.

Governance: Operate independently and are governed by a board of directors representative of industry, academia, the agency, advocacy groups, and other constituencies.

Fundraising and financial management: Authorized to accept funds from external sources, with the flexibility to allocate them to initiatives in support of the agency's mission.

Transparency and accountability: Subject to regular financial reporting requirements and audits to ensure proper management of external funds.

The activities of existing agency-related foundations have left them subject to criticism over potential conflicts of interest. A 2019 Congressional Research Service report highlights several case studies demonstrating concerning industry influence over foundation activities, including allegations that the National Football League (NFL) attempted to influence the selection of research applicants for a National Institutes of Health (NIH) study on chronic traumatic encephalopathy, funded by the NFL through the FNIH, and the implications of the Coca-Cola Company making donations to the CDC Foundation for obesity and diet research.

In order to mitigate conflict of interest, transparency, and oversight issues, a NIST Foundation should consider rigorous policies that ensure a clear separation between external donations and decisions related to projects. Foundation policies and communications with donors should make explicit that donations will not result in specific project focus, and that donors will have no decision-making authority as it relates to project management. Donors

A NIST FOUNDATION TO SUPPORT THE AGENCY'S AI MANDATE

would have to disclose any potential interests in foundation projects they would like to fund and would not be allowed to be listed as "anonymous" in the foundation's regular financial reporting and auditing processes.

Additionally, instituting mechanisms for engaging with a diverse range of stakeholders is key to ensure the Foundation's activities align with NIST's mission and programs. One option is to mandate the establishment of a foundation advisory board composed of topical committees that map to those at NIST (such as AI) and staffed with experts across industry, academia, government, and advocacy groups who can provide guidance on strategic priorities and proposed initiatives. Many initiatives that the foundation might engage in on behalf of NIST, such as AI safety, would also benefit from strong public engagement (through required public forums and diverse stakeholder focus groups preceding program stand-up) to ensure that partnerships and programs address a broad range of potential ethical considerations and serve a public benefit.

Alongside specific structural components for a NIST Foundation, metrics will help measure its effectiveness. While quantitative measures only tell half the story, they are a starting point for evaluating whether a foundation is delivering its intended impact. Examples of potential metrics include:

The total amount of funding raised from external sources such as philanthropic institutions, individual donors, and corporate entities

The number of strategic partnerships engaged in between the foundation and entities across government, academia, advocacy groups, and industry

Alignment of programs and initiatives to NIST's mission, which can be determined through reviewing rubrics used to evaluate projects and programs before they are stood up and implemented

Speed of response, which can be measured from the number of days between the formal identification of an opportunity to be addressed and the execution of a foundation initiative

Conclusion

Given financial and structural constraints, NIST risks being unable to quickly and efficiently fulfill its mandate related to AI, at a time when innovative technologies, systems, and governance structures are sorely needed to keep pace with a rapidly advancing field. Establishing a NIST Foundation to support the agency's AI work and other priorities would bolster NIST's capacity to innovate and set technical standards, thus encouraging the safe, reliable, and ethical deployment of AI technologies. It would also increase trust in AI technologies and lead to greater uptake of AI across various sectors where it could drive economic growth, improve public services, and bolster U.S. global competitiveness. And it would help make the case for leveraging public-private partnership models to tackle other critical SandT priorities.

This idea is part of our AI Legislation Policy Sprint. To see all of the policy ideas spanning innovation, education, healthcare, and trust, safety, and privacy, head to our sprint landing page.

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A NIST FOUNDATION TO SUPPORT THE AGENCY'S AI MANDATE

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