

U.S. Government Open Innovation Summit

June 14, 2019



#PublicInnovation
#Crowdsourcing

Agenda

8:30 - 9:10 a.m. - Registration

9:10 - 9:15 a.m. - Welcome

- William “Jay” Huie - Assistant Commissioner, Office of Products and Programs (GSA)

9:15 - 9:30 a.m. - Opening Remarks

- Dr. Kelvin Droegemeier - Director of the White House Office of Science and Technology Policy

9:30 a.m. - *A Primer on Open Innovation in Government*

- Jarah Meador (GSA) - Federal Prize Competitions: Crowdsourcing Innovation
- John McLaughlin (GSA & NOAA) - Citizen Science: Accelerating Innovation Through Public Participation
- Jennifer Shieh (OSTP) - Highlights of the Implementation of Federal Prize and Citizen Science Authority, Fiscal Years 2017-2019

10:00 a.m. - *Examples of Impact Through Crowdsourcing*

- Marc Kuchner (NASA) - NASA’s Citizen Scientists
- Ellen Ryan (NIST) - NIST Public Safety Communications (PSCR): Prize Challenges
- Sophia B. Liu (USGS) - Leveraging Social Media and Digital Volunteers to Inform Hazard Science and Emergency Management

10:40 - 11:00 a.m. - Break

11:00 - 11:45 a.m. - *Panel Discussion: Innovation and the Power of Public Engagement*

- Jenn Gustetic (NASA), moderator
- Caren Cooper, Ph.D. (N.C. State University)
- Therese Griebel (NASA)
- Alexis Bonnell (USAID)

11:45 a.m. - 1:00 p.m. Break

1:00 - 1:50 p.m. - Concurrent Sessions

- *Agency Innovation Showcase (Atrium)*
- *Breakouts: How U.S. Agencies Use Open Innovation*
 - Session A: Disaster Resilience
 - Session B: Catalyzing Health
 - Session C: The Future of Work

1:50 - 2:00 p.m. - Break

2:00 - 2:45 p.m. - *Transformational Partnership and Engagement Models*

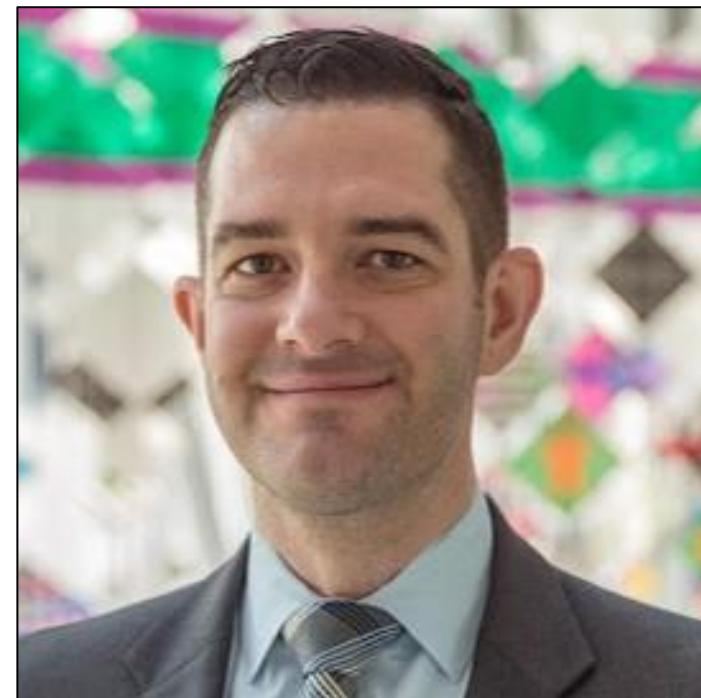
- Drew Zachary (U.S. Census Bureau): Crowdsourcing Digital Solutions Through Tech Partnerships: The Opportunity Project
- Lauren Algee (Library of Congress): Creating an Innovation Culture at the Library of Congress
- Ku McMahan (USAID): Accelerating Innovation: Securing Water for Food Grand Challenge Model

2:45 - 3:00 p.m. - Concluding Remarks

3:00 - 4:00 p.m. - Open Networking

Welcome

William “Jay” Huie
Assistant Commissioner
Office of Products and
Programs, General Services
Administration



Keynote

**Kelvin Droegemeier,
Ph.D.**

Director

White House Office of
Science and Technology
Policy



Federal Prize Competitions: Crowdsourcing for Innovation

Jarah Meador, Ph.D.

Director of Challenge.gov
and CitizenScience.gov

Office of Products and
Programs, General Services
Administration



Federal Prize Authority
has been in place
**Since the year
2010**

Almost **1,000**
prize
competitions
launched



> **100** Federal
agencies have
participated

Over **\$250M**
offered in prizes
and other
incentives



Federal Prize Authority

- 2010 - America COMPETES Reauthorization Act (P.L. 111-358)
- 2017 - American Innovation and Competitiveness Act (P.L. 114-329)

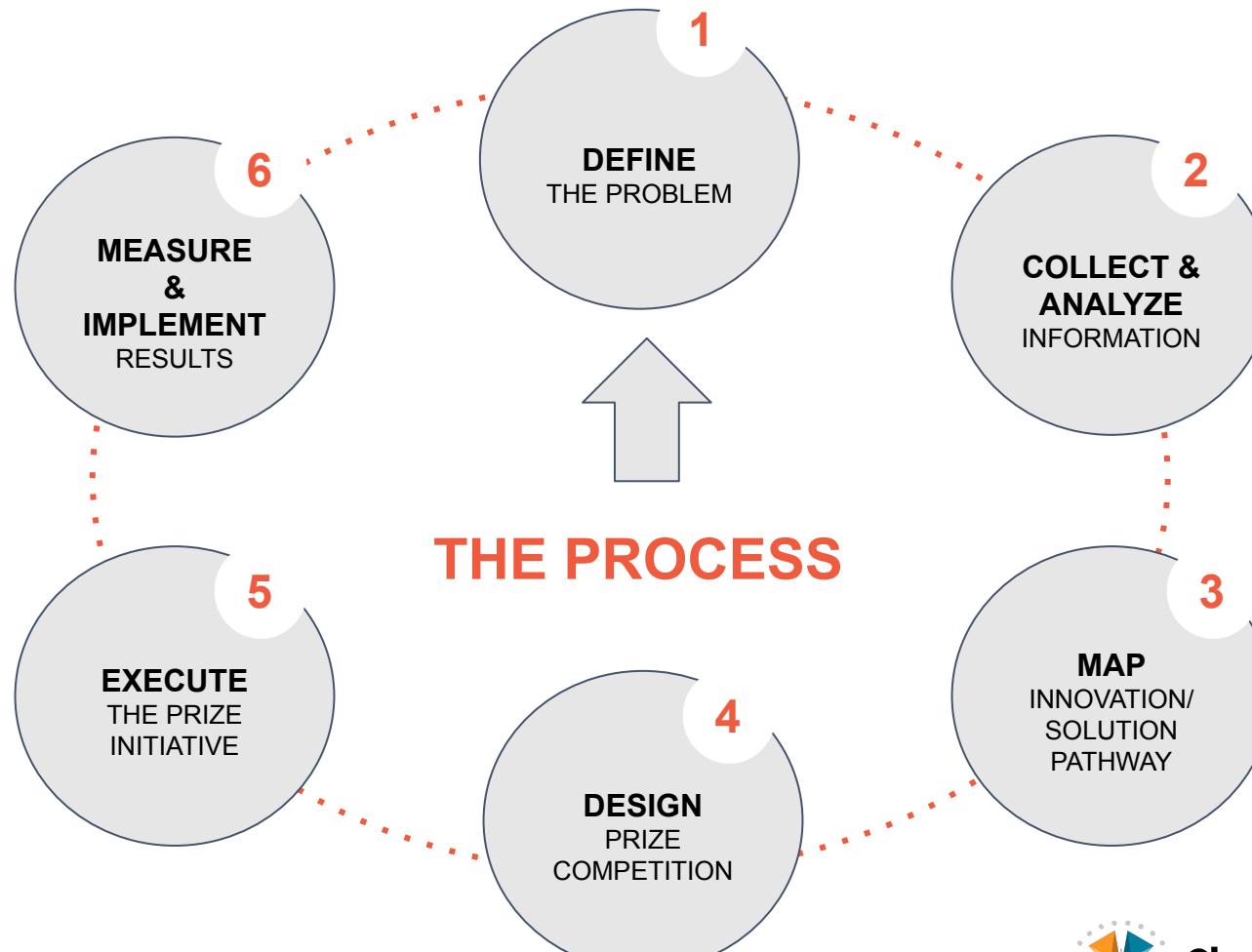
Benefits of Prize Competitions

- Pay for the best results
- Save time and resources
- Engage innovators with diverse skill sets
- Create opportunity for public-private partnerships



Challenge.gov
Government Challenges, Your Solutions

Open Innovation & Prize Competitions



PRIZE TYPES



Analytics



Entrepreneurship



Ideas



Design



Scientific



Software



Technology

EXAMPLES

The Opioid Detection Challenge (DHS)



Artists Inspiring Astronauts Challenge (NASA)



KidneyX (HHS)



Veterans Online Memorial Challenge (VA)



Challenge.gov
Government Challenges, Your Solutions

Challenge.gov

Here, members of the public compete to help the U.S. government solve problems big and small. Browse through challenges and submit your ideas for a chance to win.



Department of Defense - U.S. Army

ARMY XTECHSEARCH 3.0

xTechSearch will highlight opportunities for small businesses to collaborate with the Army to tackle the most critical Army modernization challenges...

Open Until: 06/13/2019 02:59 AM ET

[View Details](#)

Department of Health and Human Services - Centers for Medicare and Medicaid Services

CMS AI HEALTH OUTCOMES CHALLENGE

Accelerate the future of health care with AI

Open Until: 06/18/2019 05:00 PM ET

[View External Challenge Details](#)

Customer Experience Hackathon 2019

A day focused on designing a better customer experience with and within government

GSA Sponsored by The General Services Administration



General Services Administration

GSA HACKATHON 2019

A day focused on designing a better customer experience with and within government.

Open Until: 06/19/2019 05:00 PM ET

[View Details](#)

Challenge.gov
Government Challenges, Your Solutions

Thank You!

Contact Us!



team@challenge.gov



@challenegov



Facebook.com/challenegov

And join our listserv: challenges@listserv.gsa.gov

Citizen Science: Accelerating Innovation Through Public Participation

John McLaughlin

Program Manager,
CitizenScience.gov

Office of Products and
Programs, General Services
Administration



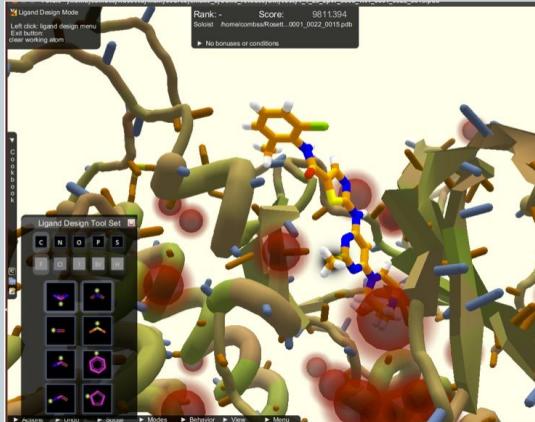
Citizen Science:

accelerating innovation through public participation



JOHN MCLAUGHLIN
CitizenScience.gov Program Manager

June 14, 2019



Definitions

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Citizen Science

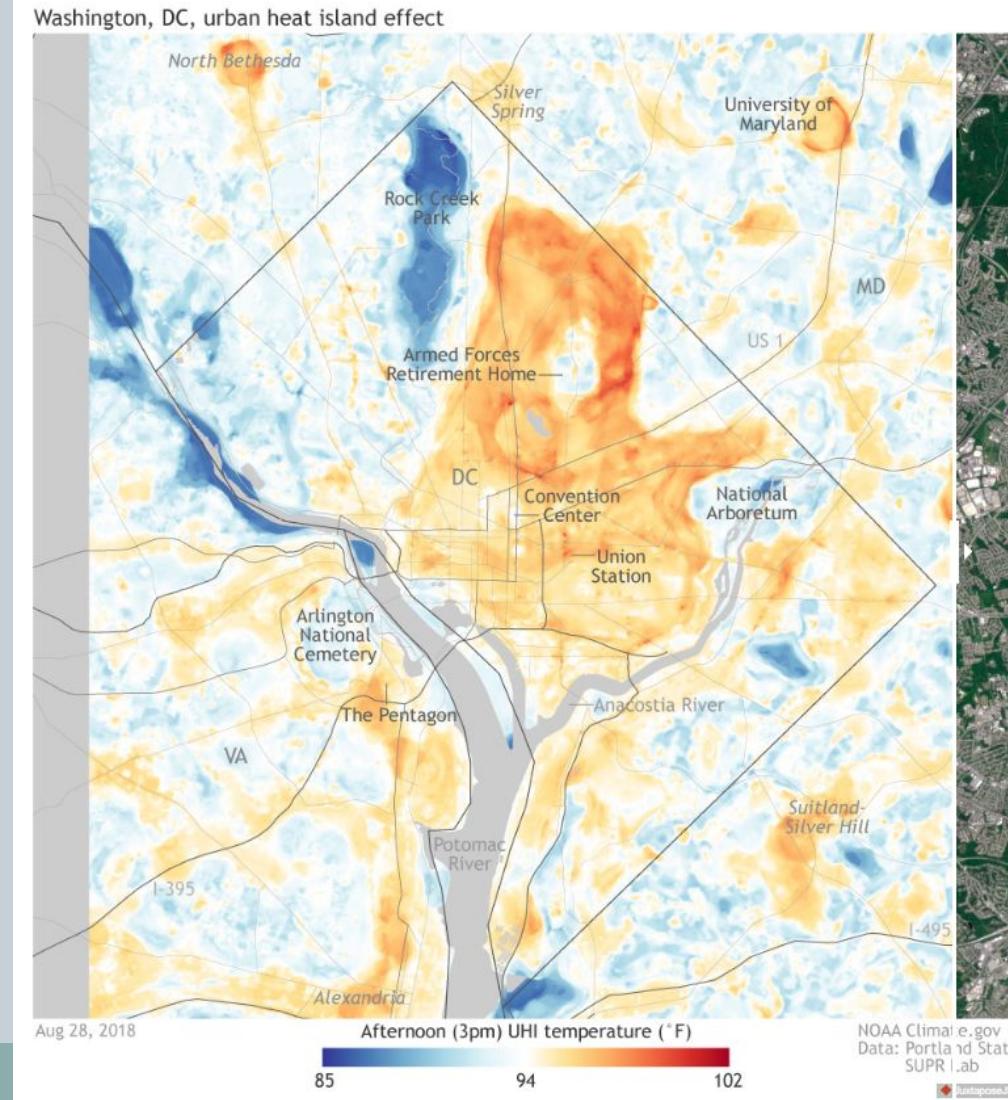
a form of open collaboration in which individuals or organizations participate voluntarily in the scientific process in various ways, including— (A) enabling the formulation of research questions; (B) creating and refining project design; (C) conducting scientific experiments; (D) collecting and analyzing data; (E) interpreting the results of data; (F) developing technologies and applications; (G) making discoveries; and (H) solving problems.

Crowdsourcing

a method to obtain needed services, ideas, or content by soliciting voluntary contributions from a group of individuals or organizations, especially from an online community.

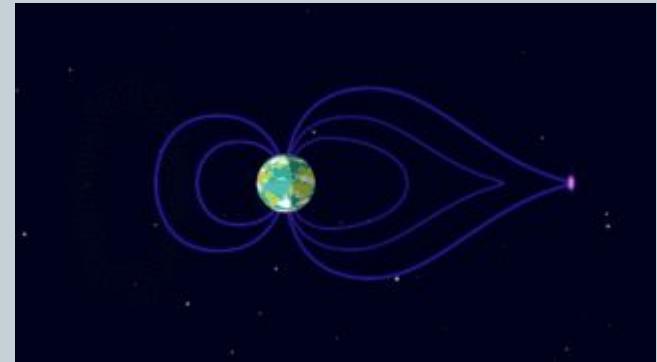
Urban Heat

14



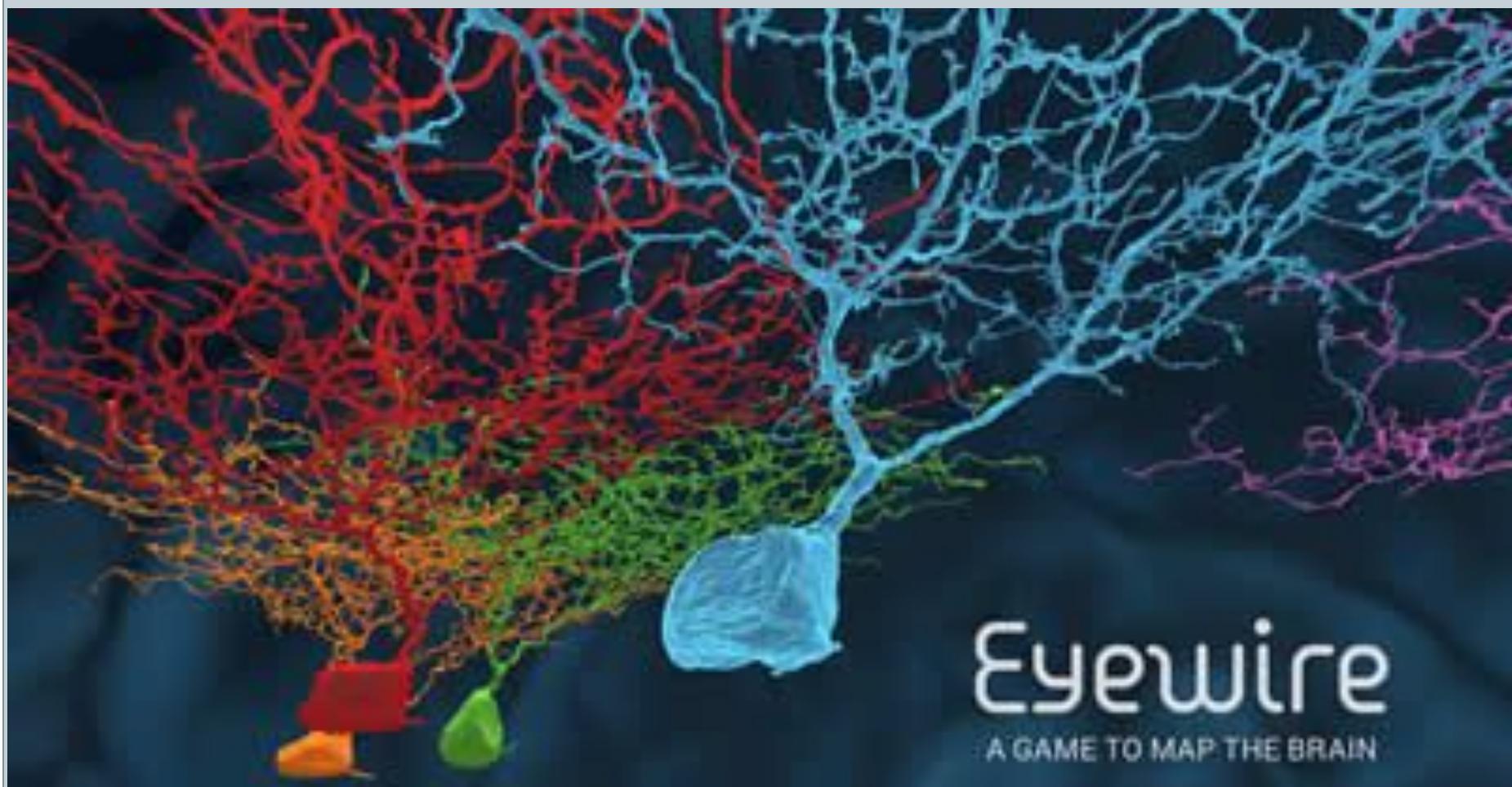
Purple Ribbon in the Aurora Borealis?

15



Eyewire

16



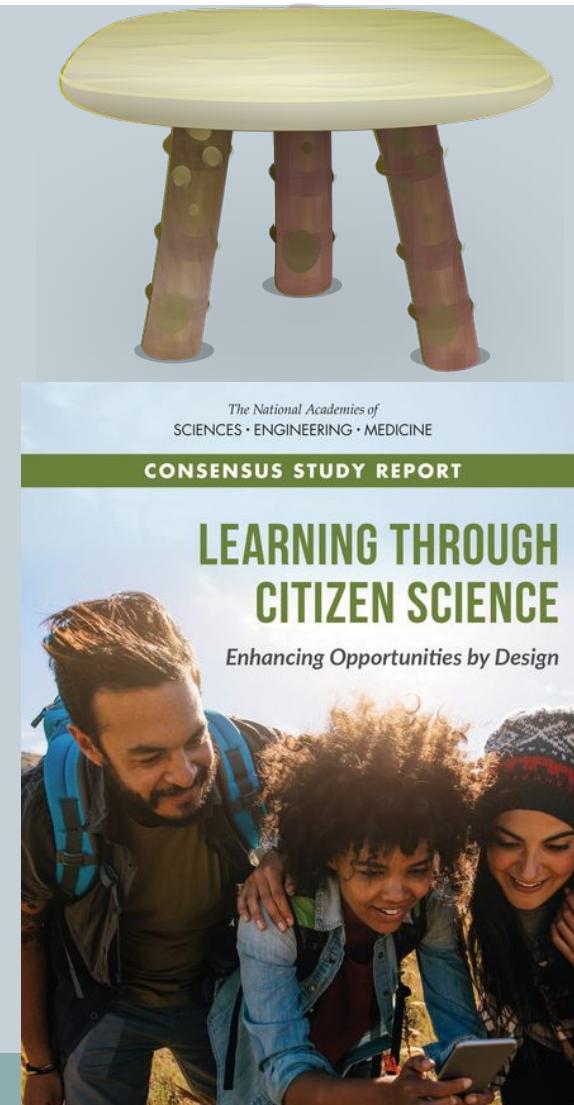
Eyewire

A GAME TO MAP THE BRAIN

Multiple, Complementary Impacts

17

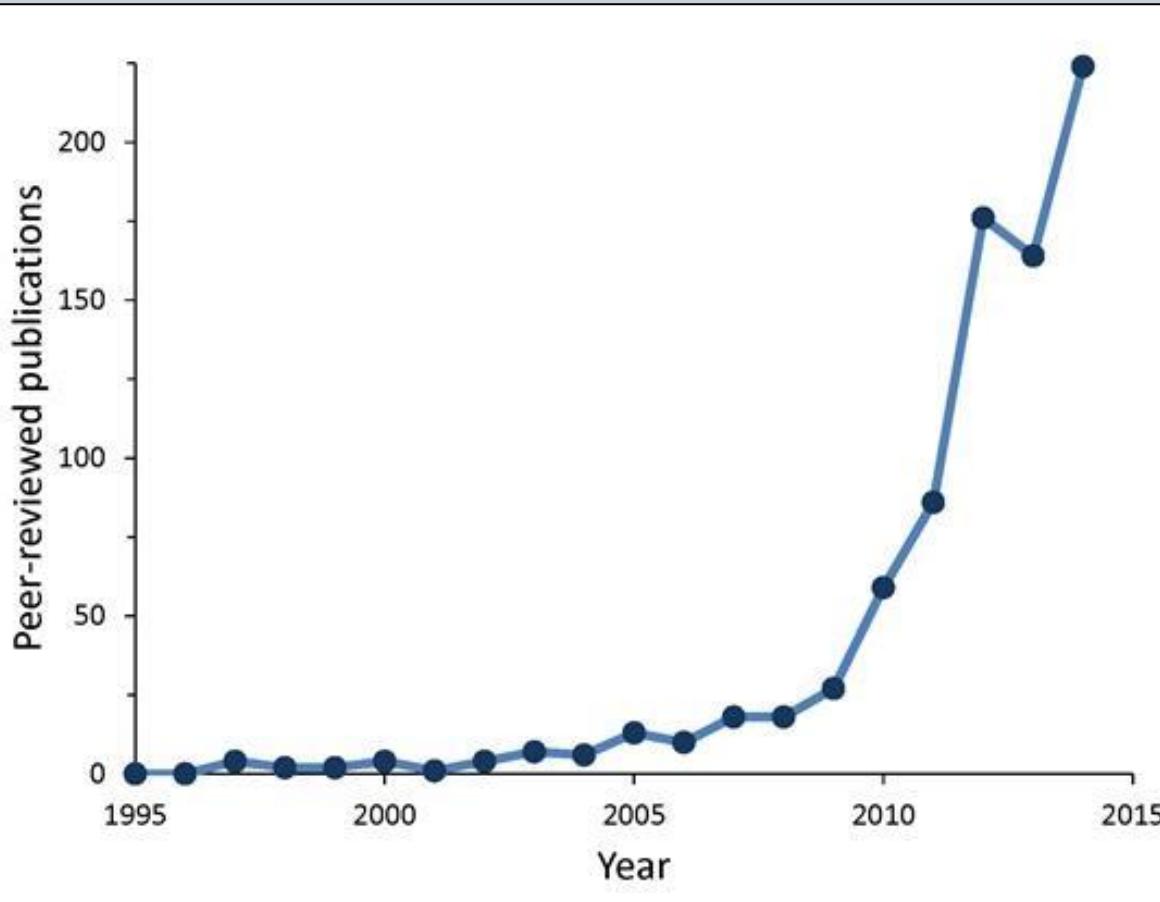
- Citizen Science can:
 - Enhance scientific research and monitoring
 - Provide hands-on learning and increase STEM literacy
 - Help address societal needs
- 2018 report from National Academies suggests these impacts can be mutually reinforcing



A Growing Practice

18

David Hanych, an NSF Program Officer at the time, described the growth in the field as a “coming tsunami” in 2012.



Results for a search of the Web of Science for the keyword “citizen science”

McKinley et al (2015) Issues in Ecology 19.

CitizenScience.gov

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Resources from federal government and partners available at:

The screenshot shows the homepage of citizenscience.gov. At the top left is the logo, which consists of three overlapping colored shapes (red, green, blue) forming a triangle. To its right is the text "citizenscience.gov". On the far right of the header are links for "About" and "Blog", and a search bar with a magnifying glass icon. The main content area features a dark background image of Earth from space, showing city lights at night. Overlaid on this image is white text that reads: "Helping federal agencies accelerate innovation through public participation." Below this text is a blue button with the white text "Learn more". At the bottom of the page are three white rectangular boxes with rounded corners, each containing a logo and text: the first box has a red "catalog" logo and text; the second has a teal "community" logo and text; the third has an orange "toolkit" logo and text.

citizenscience.gov

About Blog

Helping federal agencies accelerate innovation through public participation.

Learn more

catalog

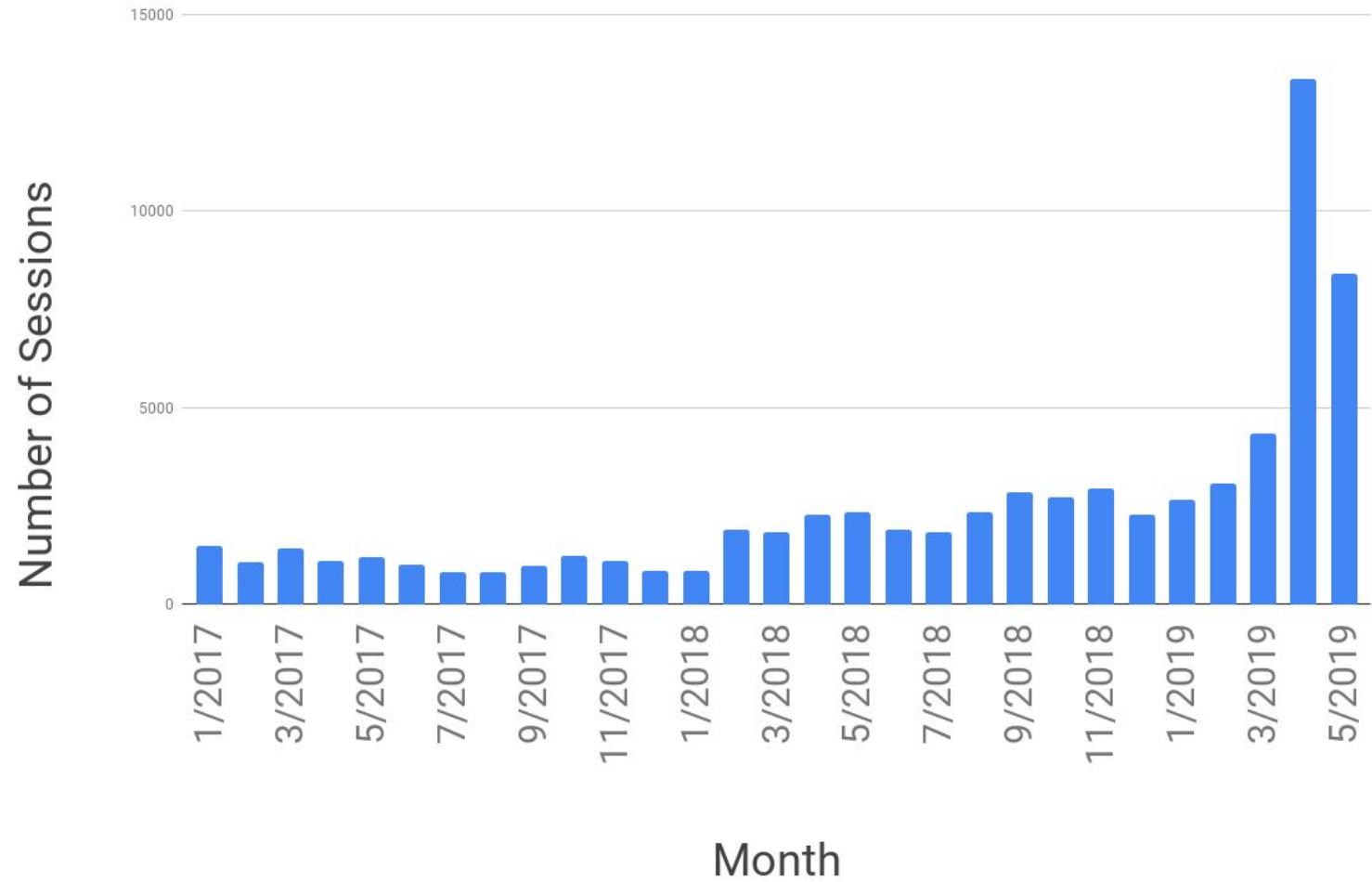
community

toolkit

Usage is Growing

20

Sessions on CitizenScience.gov Over Time



Let's
rethink



Federal Prize and Citizen Science Authority Implementation Highlights

Jennifer Shieh, Ph.D.

Assistant Director of
Entrepreneurship

White House Office of
Science and Technology
Policy



Highlights from *Implementation of Federal Prize and Citizen Science Authority:* *Fiscal Years 2017-2018*

Jennifer Shieh
Office of Science and
Technology Policy
June 14, 2019

www.ostp.gov
@WHOSTP

Prize competitions aimed to engage new people, solve problems, and advance scientific research

■ Number of prizes and challenges seeking particular goal

■ Total number of prizes and challenges reported in given fiscal year

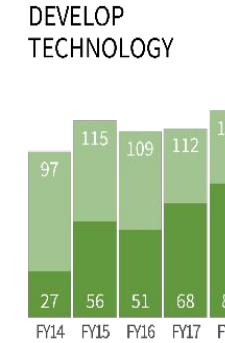
ADVANCE
SCIENTIFIC
RESEARCH



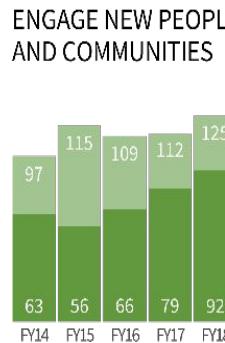
BUILD CAPACITY



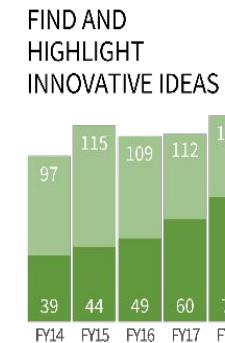
DEVELOP
TECHNOLOGY



ENGAGE NEW PEOPLE
AND COMMUNITIES



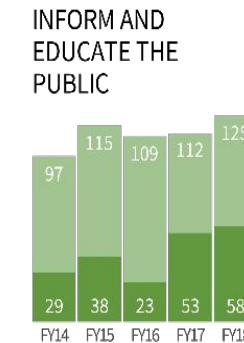
FIND AND
HIGHLIGHT
INNOVATIVE IDEAS



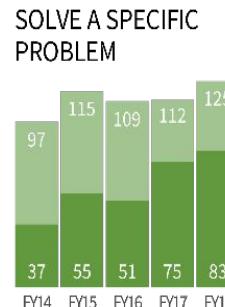
IMPROVE
GOVERNMENT
SERVICE DELIVERY



INFORM AND
EDUCATE THE
PUBLIC



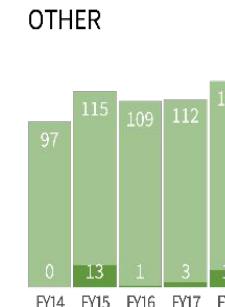
SOLVE A SPECIFIC
PROBLEM



STIMULATE A
MARKET



OTHER

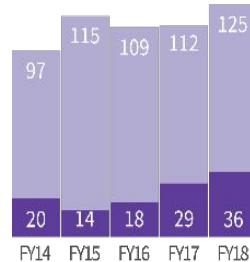


The public submitted their ideas, and solved challenges with software, hardware, and analytics

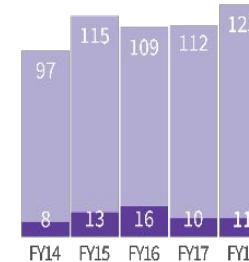


- Number of prizes and challenges seeking particular solution
- Total number of prizes and challenges reported in given fiscal year

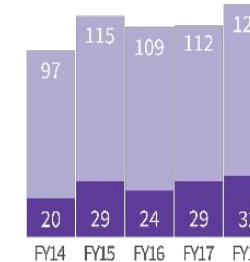
ANALYTICS
VISUALIZATIONS
ALGORITHMS



BUSINESS PLANS



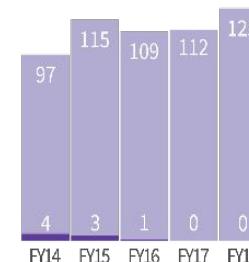
CREATIVE



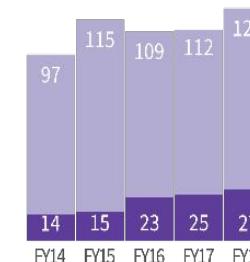
IDEAS



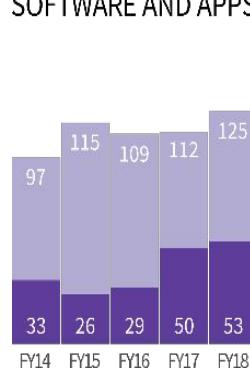
NOMINATIONS



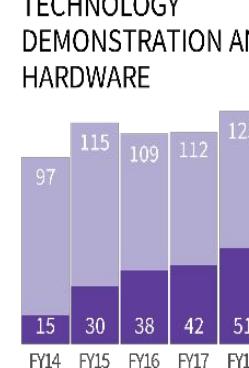
SCIENTIFIC



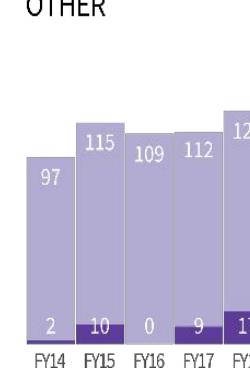
SOFTWARE AND APPS

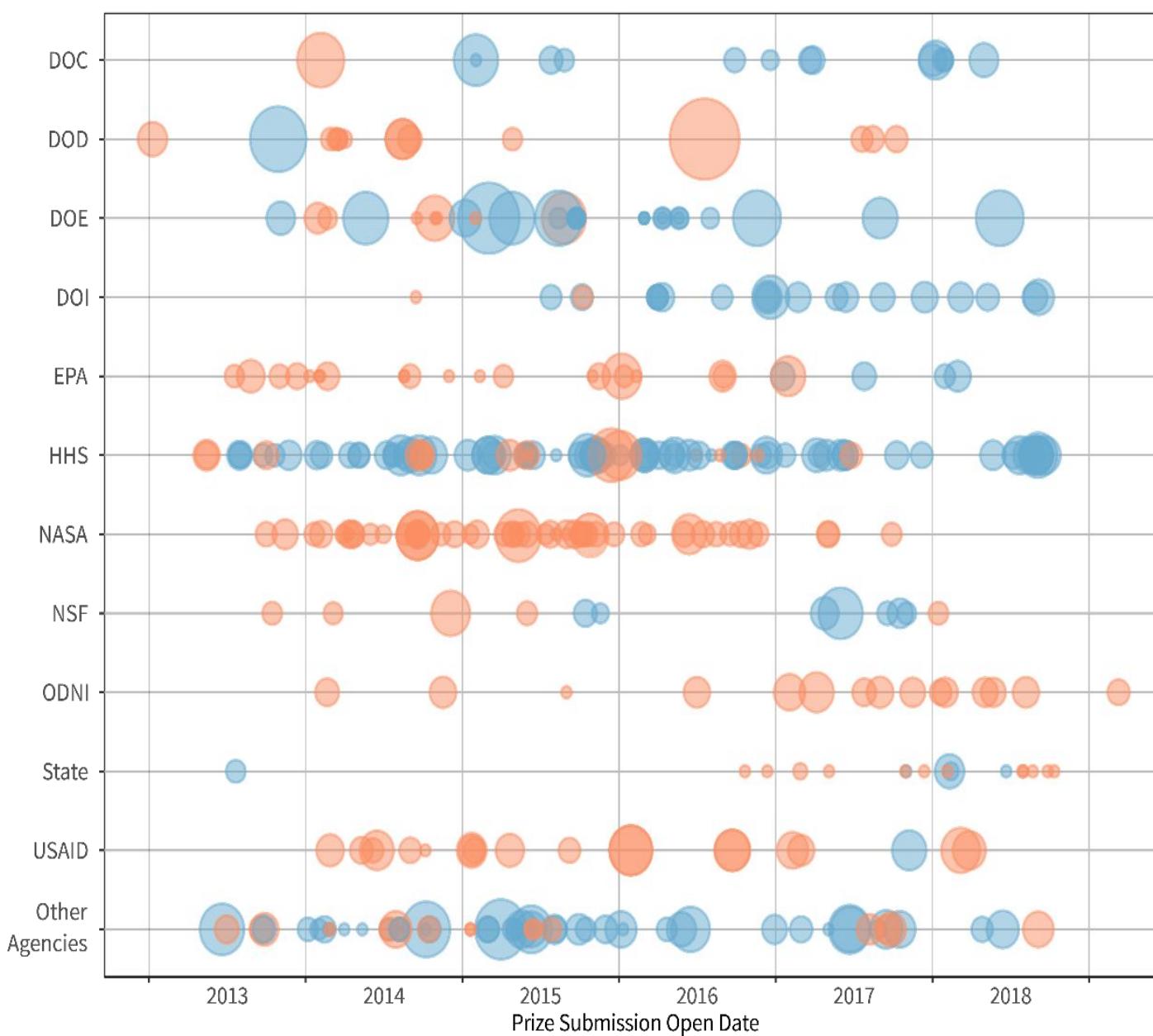
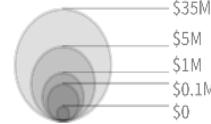


TECHNOLOGY
DEMONSTRATION AND
HARDWARE



OTHER

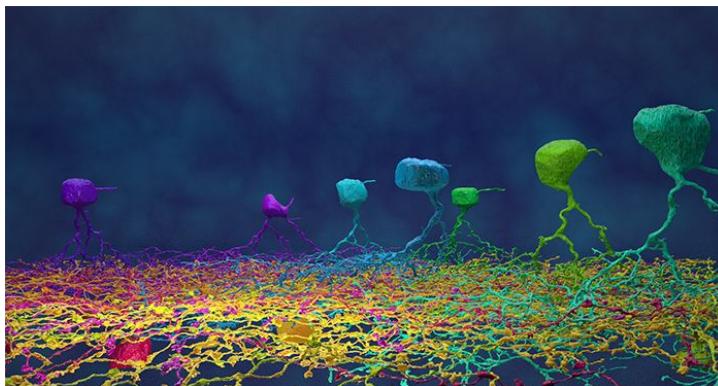




Crowdsourcing and Citizen Science Projects are Diverse



Credit: Johanna Varner

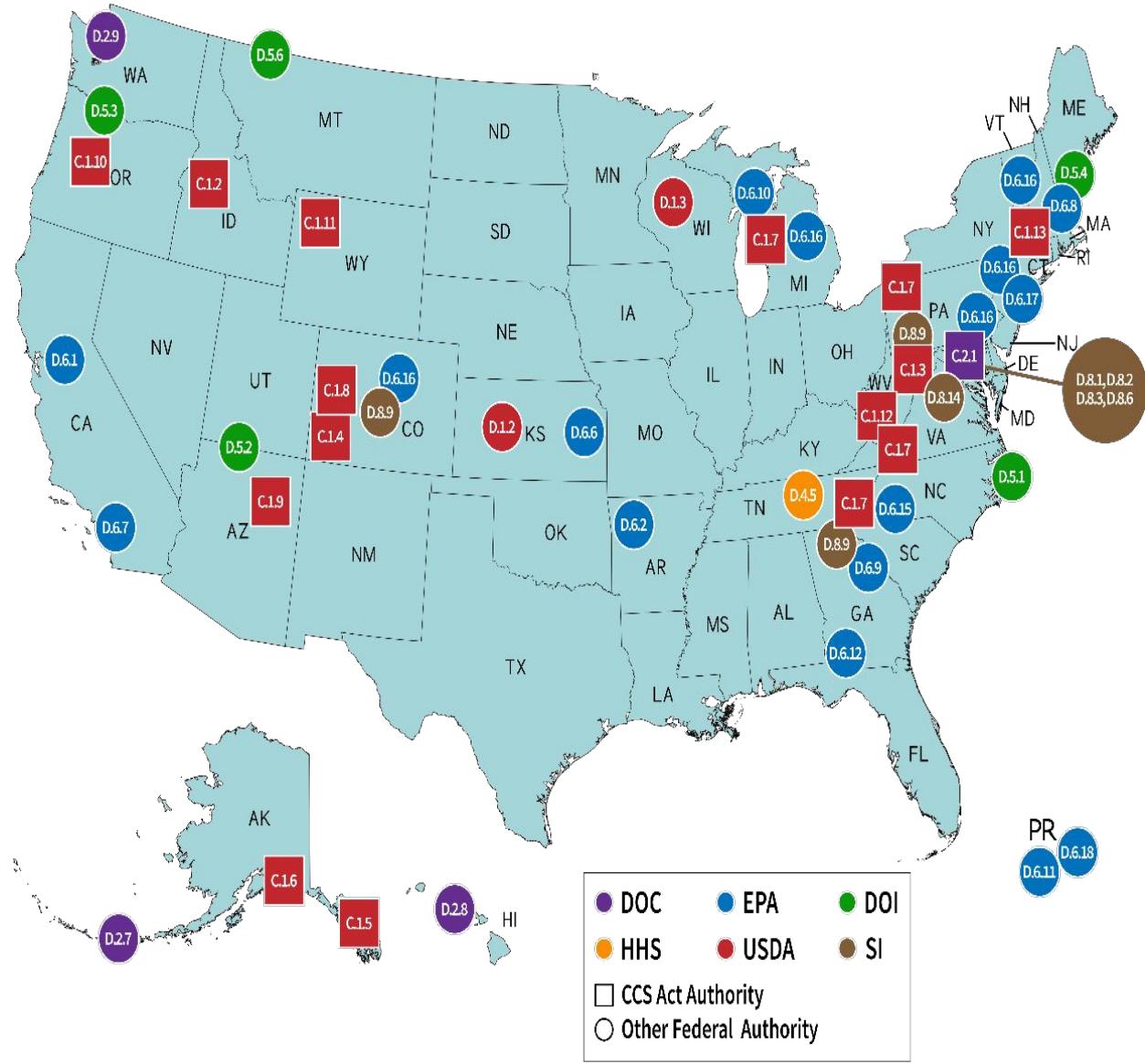


Credit: Amy Robinson, Alex Norton, William Silversmith, Jinseop Kim, Kisuk Lee, Aleks Zlasteski, Matt Green, Matthew Balkam, Rachel Prentki, Marissa Sorek, Celia David, Devon Jones, and Doug Bland, Sebastian Seung

- Enhance scientific research
- Provide hands-on STEM learning
- Address societal needs and agency missions



Citizens participated in localized and distributed projects



Thank You!

www.ostp.gov
@WHOSTP



Photo credit: Lloyd Whitman

NASA Citizen Scientists

Marc Kuchner

Citizen Science Lead

Science Mission Directorate,
National Aeronautics and
Space Administration
(NASA)





NASA has > 1.5 million Citizen Scientists



NASA-Funded Citizen Science Projects Have Discovered:

- 400,000 Martian Seasonal Fans (Planet Four)
- 3500 Comets (Sungrazer Project)
- 1000 Brown Dwarf Candidates (Backyard Worlds: Planet 9)
- 100 Extrasolar Planets (Planet Hunters)
- 47 Near-Earth Asteroids (IASC)
- 4 Meteorites (Desert Fireball Network)
- A New Kind of Aurora (Aurorasaurus)
- The Oldest Planet-forming Disk (Disk Detective)



Tom Bolton

His penguin population dynamics model
outperformed the model
created by experts!





Hugo Durantini Luca

Drove 12 hours across South America
to help out with an observing run!





Michaela Allen

Business major....now
starting a masters
program in astrophysics!

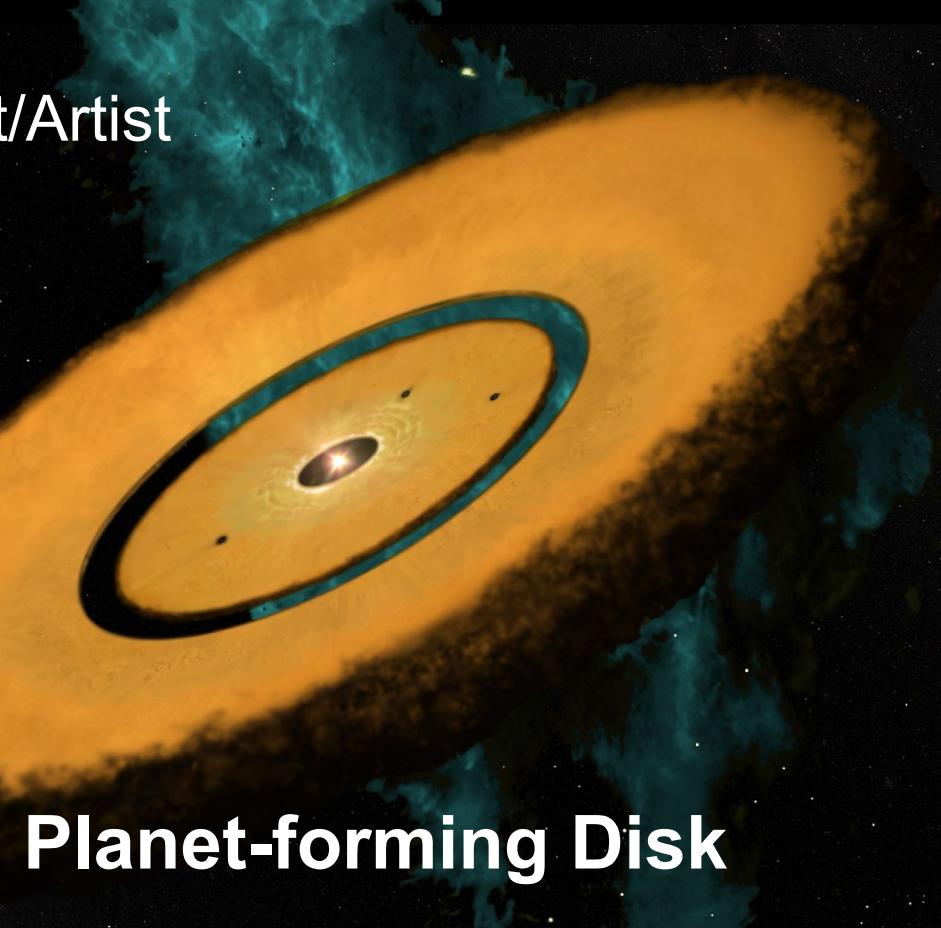


Michiharu Hyogu

Now a professor at Meisei University!

“The professor from the University of Tokyo, who helped me organize the demonstration sessions for Disk Detective, has introduced me about the position....Since I did well leading the demonstration session, he thought I might be very well suited for this position...”

Image by Citizen Scientist/Artist
Jonathan Holden



Oldest Known Planet-forming Disk

Now in the University of Michigan Natural History Museum!

The First Brown Dwarf Discovered by the Planet 9 Citizen Science Proj

Marc J. Kuchner¹, Jacqueline K. Faherty², Adam C. Schneider¹, Aaron M. Meisner¹,
Laura Trouille¹, Steven M. Silverberg¹, Rosa Castro³, Bob Fletcher⁴, Khoa

¹ NASA Goddard Space Flight Center, Astrophysics and Stellar Astrophysics Laboratory,



Rosa Castro

“I am just honored to be part of this process. I entered this activity without any agenda and simply from a place of joy.”

The oldest disk around a **white** dwarf, an analog for the solar system 8 million years from now.

BACKYARD WORLDS: PLANET 9

Two dust rings.

Cold **white** dwarf
LSPM J0207+333

Tidally shredded
comets and asteroids.

Discovered by
Citizen Scientist
Melina Thévenot



backyardworlds.org

Sciencing with NASA Facebook Group!

Facebook.com/groups/Sciencing

Sciencing with NASA

<https://www.facebook.com/groups/Sciencing/>

Marc | Home | Create | 

Sciencing with NASA

Sciencing with NASA

Closed group

Interacting as yourself

About

Discussion

Chats

Members

Events

Photos

Group Insights

Moderate Group

Search this group

Joined ▾ Notifications Share More

Write Post Add Photo/Video Live Video More

Write something...

Photo/Video Watch Party Tag Friends ...

GROUP BY

NASA - National Aeronautic... 21,358,873 like this

Use App

INVITE MEMBERS Embed Invite



Contact: Marc.Kuchner@nasa.gov

science.nasa.gov/citizenscientists

Right Ascension and declination (decimal)
133.795140 -7.245150

Field of View (arcseconds): 100

W2 jet fixed

Trim Bright (521.66)

Linear (1)

Speed (274)

Nearest Zooniverse Subjects:

maximum intensity before stretching. In "percent" mode, "Trim Bright" scales to the "Trim Bright" percentile, whereas "fixed" sets an absolute maximum intensity. For example, "percent" with "99.5" caps the intensity to that of the 99.5th percentile pixel, whereas "fixed" with "1000" caps it at 1000. "adapt" attempts to find good minimum and maximum values automatically, and does not take a "Trim Bright" input.

To replicate legacy wiseview behavior, use either "fixed" or "percent" (instead of legacy "Brighten"), and set "linear" = 1.

Band W1 and W2 correspond to WISE bands. "Bands W1+W2" displays a color image where W1 is blue and W2 is red.

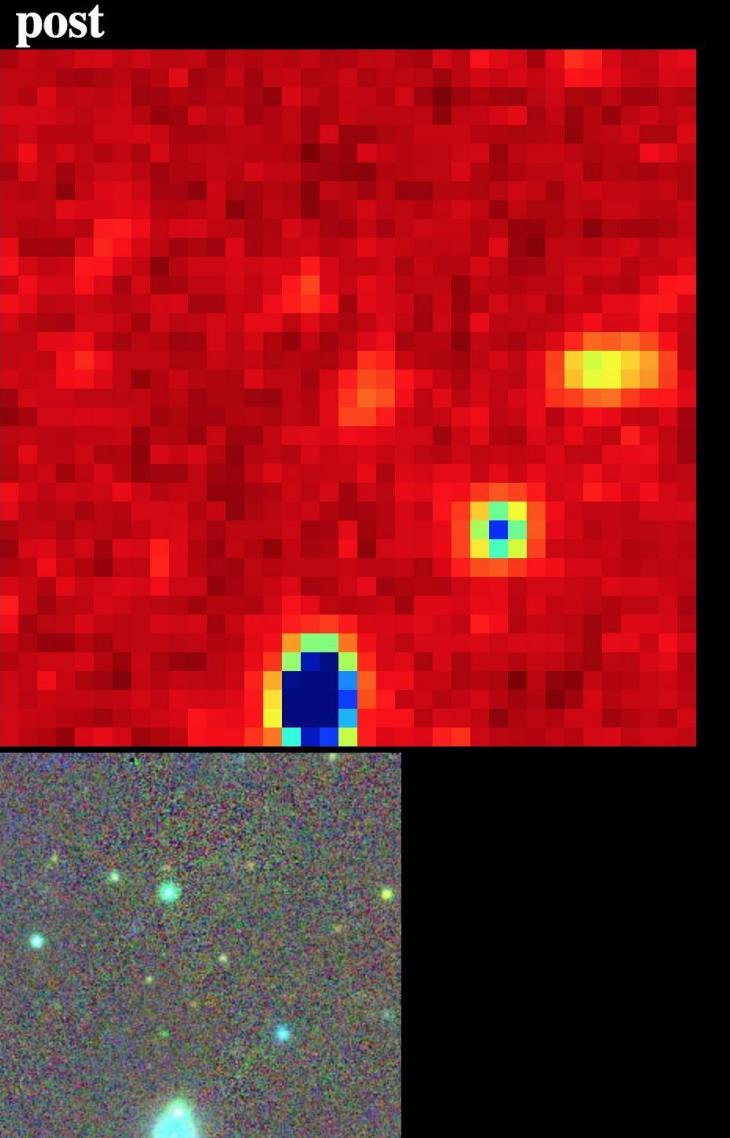
This site is authored by Dan Caselden and Paul Westin. For questions, you may contact this gmail address: dancaselden@gmail.com

[1] unWISE AllWISE:
<http://adsabs.harvard.edu/abs/2014AJ....147..100C>

[2] unWISE NEO1:
<http://adsabs.harvard.edu/abs/2017AJ....153...3C>

[3] unWISE NEO2:
<http://adsabs.harvard.edu/abs/2017arXiv1705010C>

post



WISEView
Web-Based Tool
Written by
Citizen Scientists
Dan Caselden
and Paul Westin



NIST Public Safety Communications Research: Prize Challenges

Ellen Ryan

Deputy Division Chief,
Public Safety
Communications Research

National Institute of
Standards and Technology
(NIST)



NIST Public Safety Communications Research (PSCR): Prize Challenges

June 14, 2019

Open Innovation Team
Public Safety Communications
Research
NIST



*Solving the Public Safety needs of
tomorrow...today*



PSCR Innovation Accelerator Program



Middle Class Tax Relief and Job Creation Act of 2012 passed



Focus on MCV & LMR to LTE

Provides \$300M to NIST to perform critical R&D to ensure success of nations' 1st public safety LTE network



Addressing R&D necessary to push beyond current broadband technology



Working closely with Public Safety every step of the way



Open Innovation program utilizing grants and prizes to address high priority public safety R&D needs

Past PSCR Prize Challenges

2017 The Future of Public Safety Technology Challenge



- **Challenge:** Submit a video concept that will inspire Americans to help develop the public safety technology of tomorrow.
- **Prize Purse:** \$100,000

2018 Unmanned Aerial Systems Flight and Payload Challenge

- **Challenge:** Keep a UAS and its payload airborne for the longest time possible.
- **Prize Purse:** \$432,000



2018 Virtual Reality Heads-Up Display Navigation Challenge



- **Challenge:** Create a heads-up display (HUD) for first responders' navigation with unimpeded visual aids.
- **Prize Purse:** \$125,000

2018/2019 Differential Privacy Synthetic Data Challenge



- Creating new methods of data de-identification for practical utility through developing differential privacy synthetic datasets.
- **Prize Purse:** \$190,000



Current PSCR Prize Challenges



PARTICIPATE ONLINE//
OR IN PERSON
#TECHTOPROTECT

Held throughout 2019, both online and at 10 in-person locations across the U.S., the Tech to Protect coding contests will bring creative minds together to collaborate and solve complex technology challenges that emergency responders face. Contest solutions will include mobile apps, software applications, user interfaces, data systems and more.



Tech to Protect//

LOCATION & DATES

September 27-29 November 1-3

Chicago, IL	Miami, FL
College Station, TX	Los Angeles, CA
Denver, CO	New York, NY
Pittsburgh, PA	San Francisco, CA
Washington, DC	Seattle, WA

www.techtoprotectchallenge.org



SECONDMUSE





**USE YOUR SECURITY OR
DEVELOPMENT EXPERTISE
TO HELP PUBLIC SAFETY
OFFICIALS!**

**NIST PSCR's
Expanding the SIM Card Use
for Public Safety Challenge**
Challenge Kickoff Meeting
June 10, 2019

Phase 1: Concept Paper



Start: April 3, 2019
End: June 3, 2019

Phase 2: File Stored on SIM Card



June 3, 2019
August 14, 2019

Phase 3: Verified Authentication



August 14, 2019
October 23, 2019



Phase 1
Concept Paper



Start: March 18

End: May 10

Phase 2
Teaming



May 13

May 23

Phase 3
Prototyping



May 24

July 9 -11

Phase 4
VR Evaluation



July 9

September 10

Phase 5
Fire Nav. Course



September 10

November 15



PUBLIC SAFETY
COMMUNICATIONS
RESEARCH

Challenge Kickoff Meeting
May 14, 2019



America's first responders need your help.

Support our nation's heroes -- while advancing your own research and innovation -- with funding from PSCR.

**Get started by signing up
for the PSCR Newsletter at PSCR.gov.**

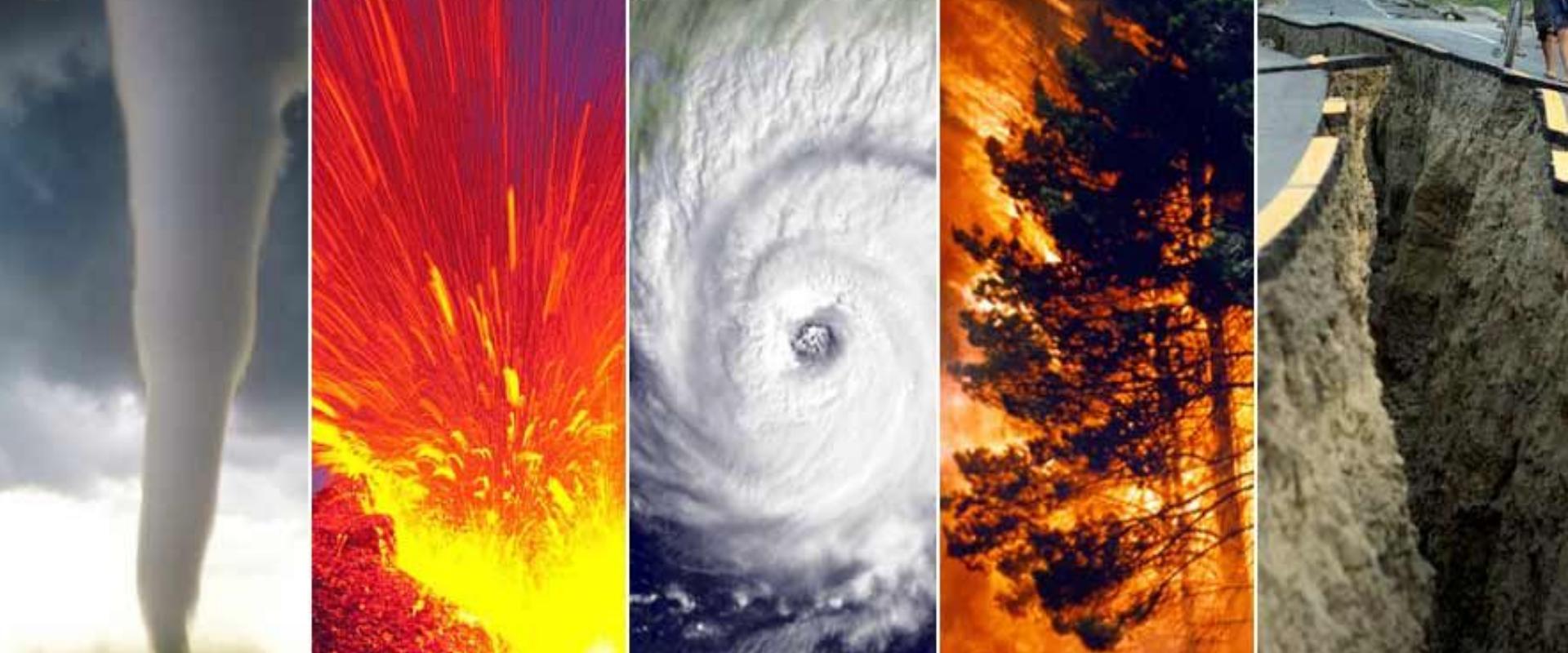


Leveraging Social Media and Digital Volunteers to Inform Hazard Science and Emergency Management

Sophia B. Liu, Ph.D.

Innovation Specialist
U.S. Geological Survey





Leveraging Social Media and Digital Volunteers to Inform Hazard Science and Emergency Management



Sophia B Liu, Ph.D.

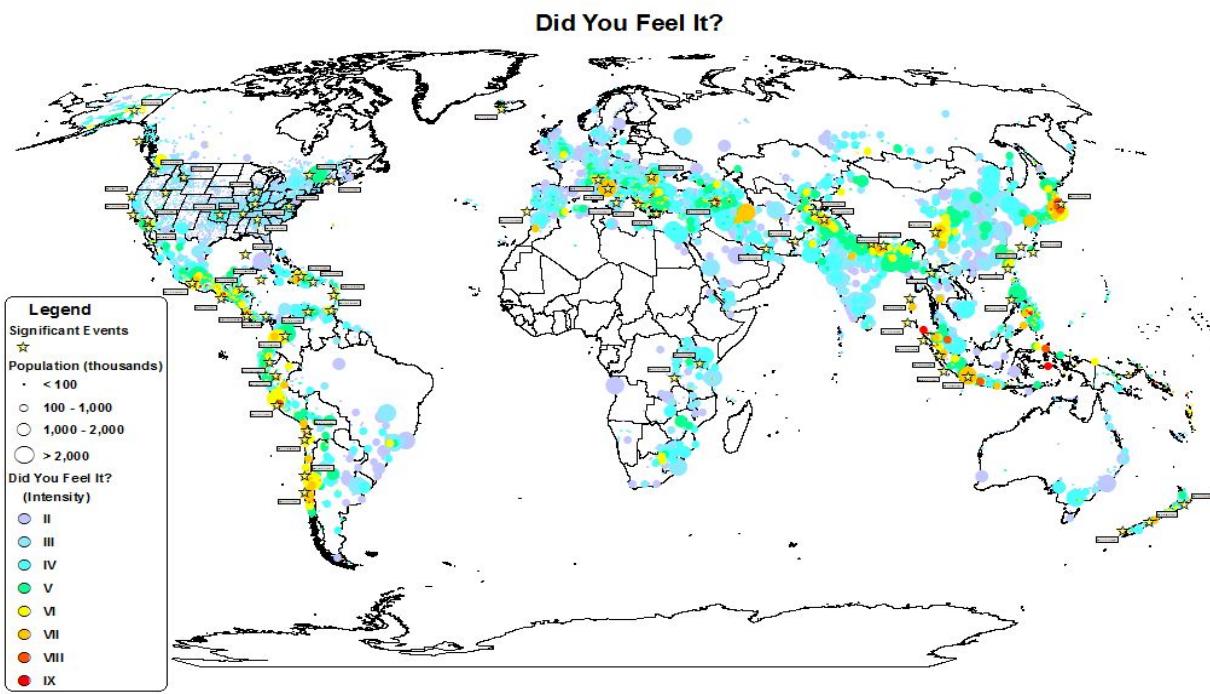
@sophiabliu

Innovation Specialist, Science and Decisions Center, U.S. Geological Survey (USGS)
Co-Chair of Federal Community of Practice for Crowdsourcing & Citizen Science (CCS)
USGS CCS Coordinator and FEMA Crowdsourcing Unit Coordinator

June 14, 2019

1st US Government Open Innovation Summit

USGS Did You Feel It? (DYFI)



4.5+ million DYFI reports since 1991

~ 30 seconds to
submit report

Felt Report

OMB No. 1028-0048

Expires 05/31/2018

Your location when the earthquake occurred

Choose Location

Did pictures on walls move or get knocked askew?

- Not specified
- No
- Yes, but did not fall
- Yes, and some fell

Did any furniture or appliances slide, topple over, or become displaced?

- Not specified
- No
- Yes

Was a heavy appliance (refrigerator or range) affected?

- Not specified
- No
- Yes, some contents fell out
- Yes, shifted by inches
- Yes, shifted by a foot or more
- Yes, overturned

Were free-standing walls or fences damaged?

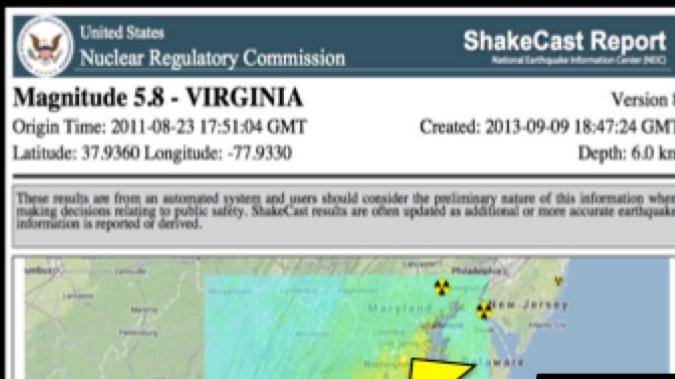
- Not specified
- No
- Yes, some were cracked
- Yes, some partially fell
- Yes, some fell completely

Submit

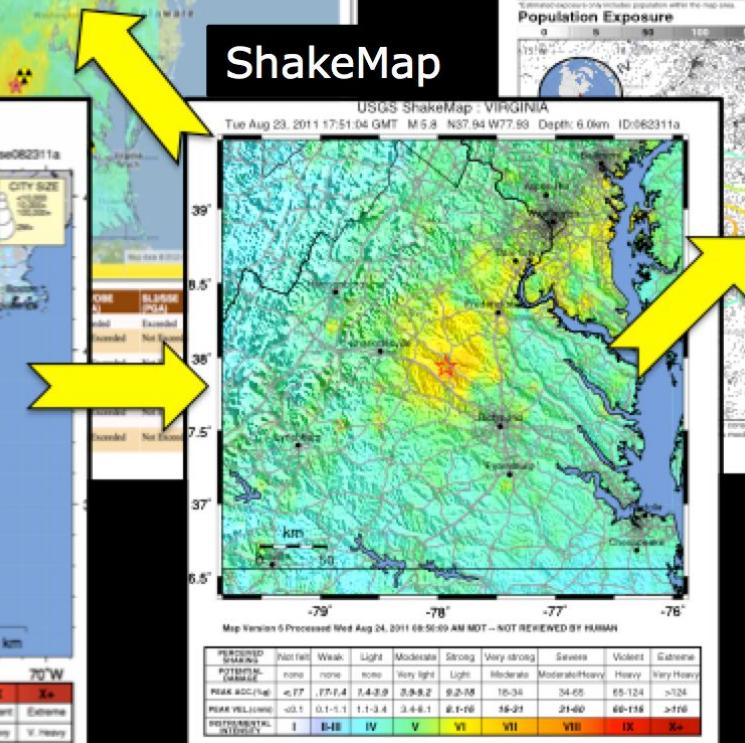
Cancel

Integration into Official USGS Products

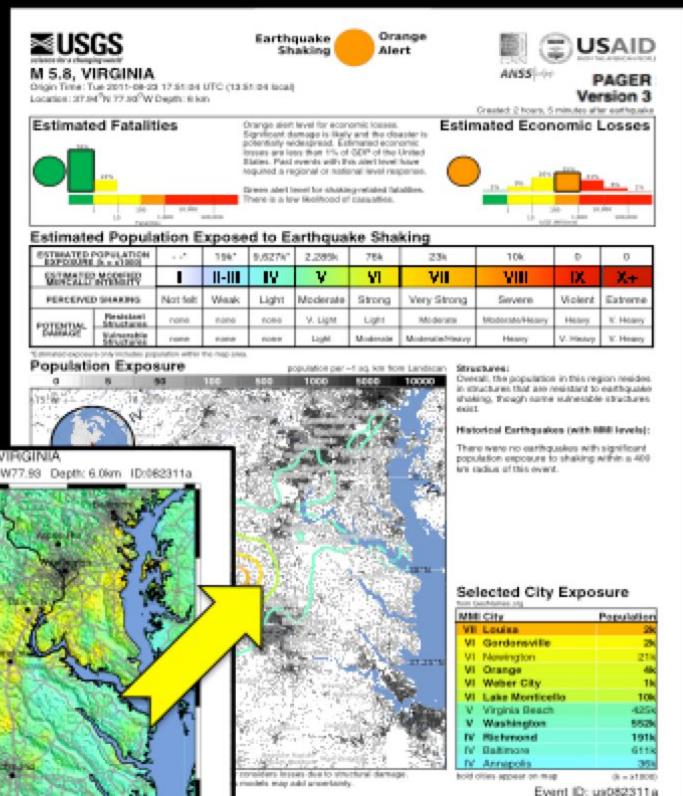
ShakeCast



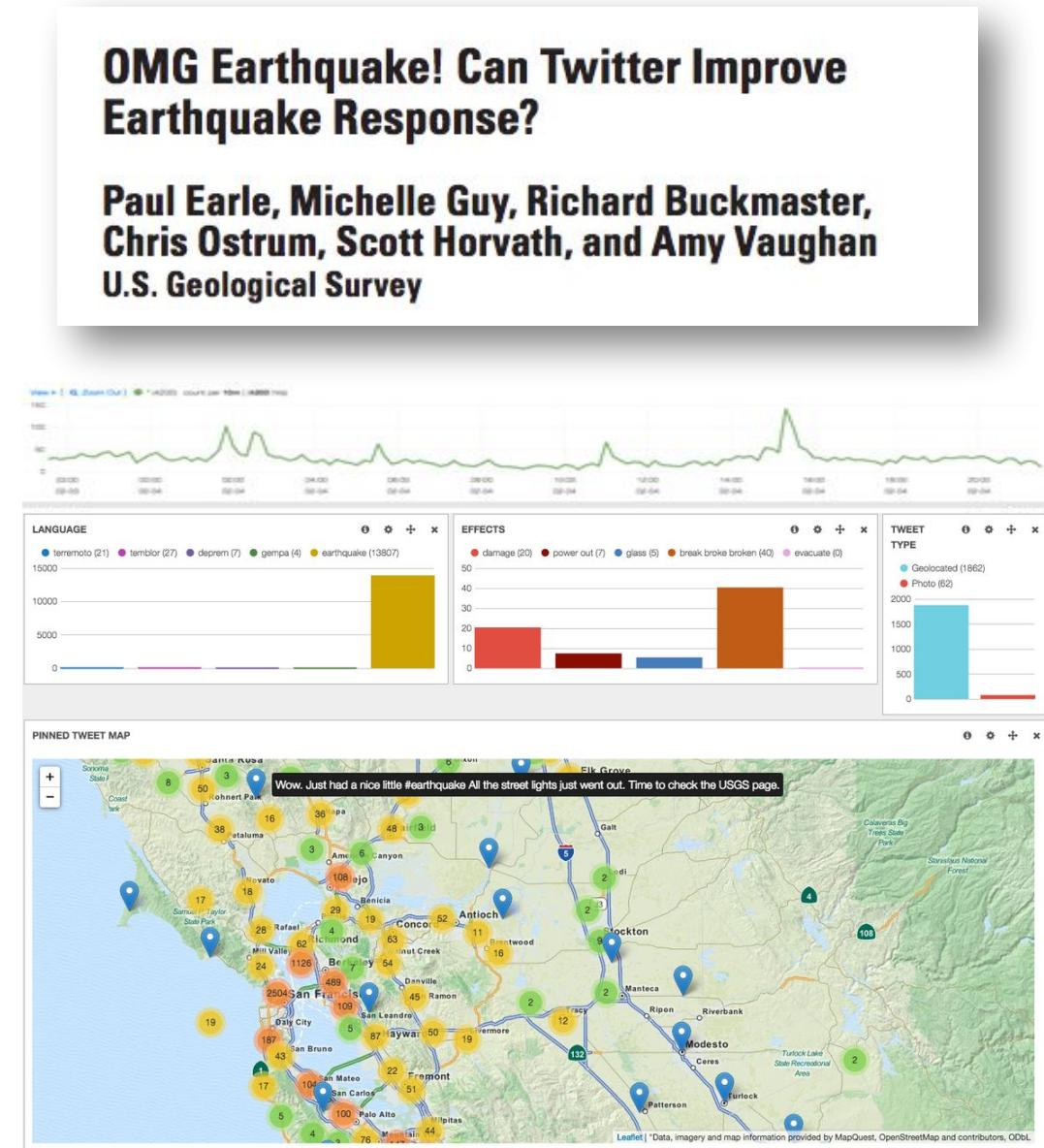
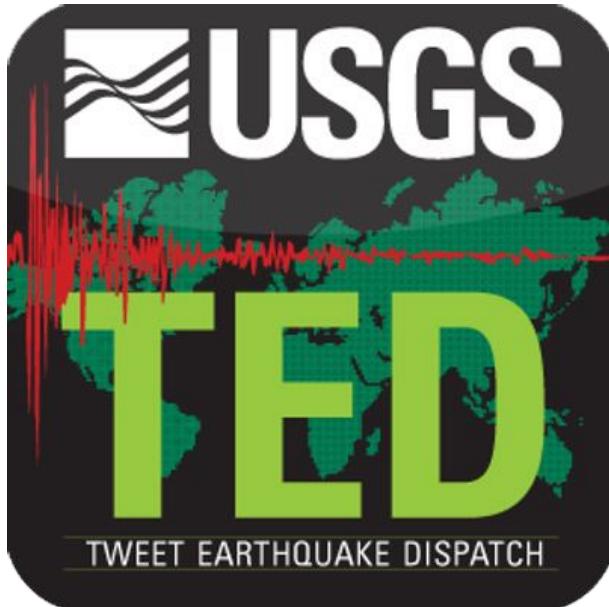
“Did You Feel It?”



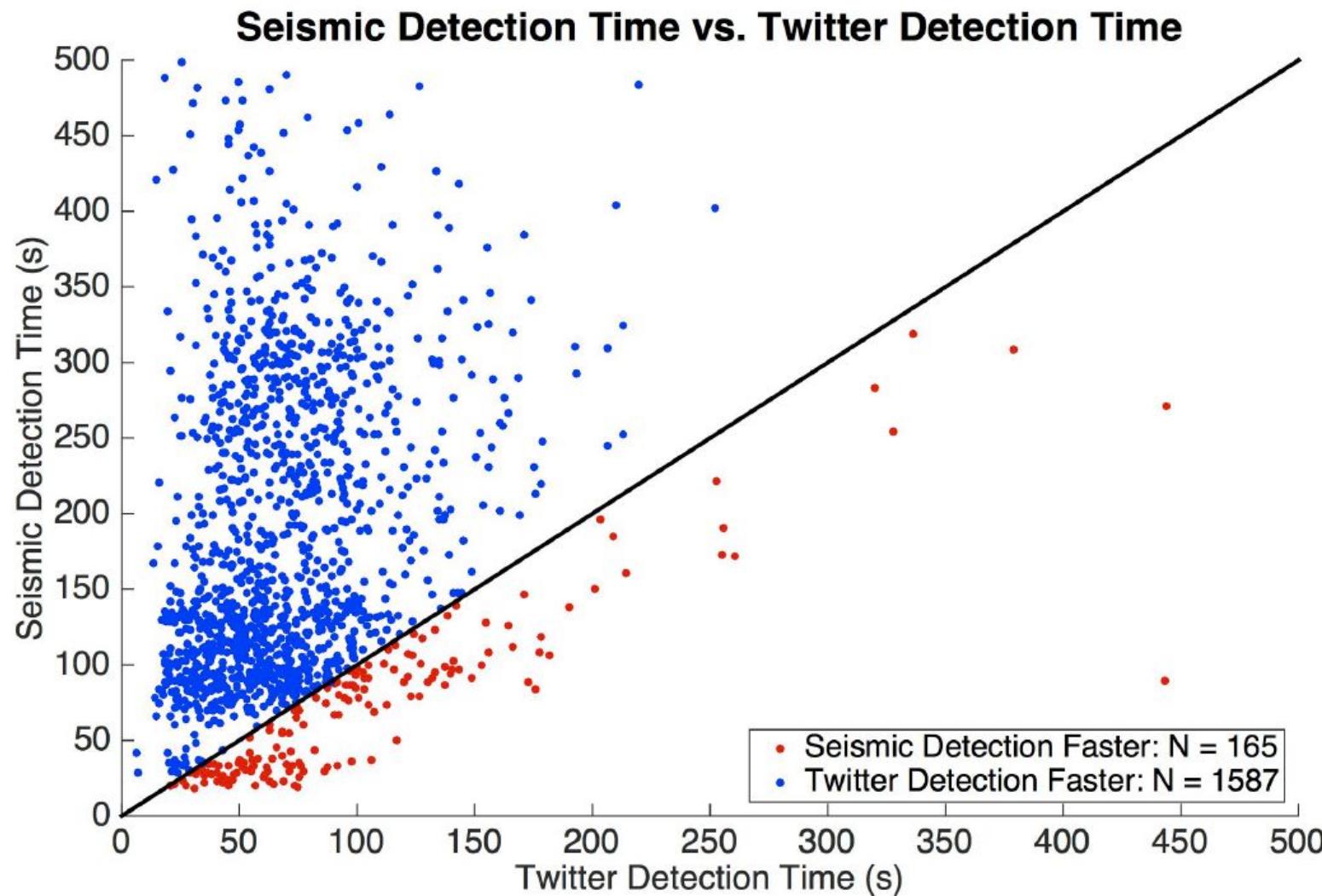
PAGER (Prompt Assessment of Global Earthquakes for Response)



USGS Tweet Earthquake Dispatch (TED)



USGS Tweet Earthquake Dispatch (TED)



90% of TED Detections are FASTER than seismometer detections

USGS Tweet Earthquake Dispatch (TED)



USGSted @USGSted · Aug 23

Prelim M5.5 earthquake OFFSHORE COQUIMBO, CHILE Aug-23 23:10 UTC, updates [on.doi.gov/1V38Ylh](https://doi.org/1V38Ylh), 82 #temblor tweets/min

4 21 11 ...



The image shows three tweets from the account @USGSted. Each tweet includes the USGS TED logo profile picture and the text 'USGSted' followed by a blue checkmark and '@USGSted'. The first tweet is dated May 26, 2024, at 07:41 UTC, reporting a Prelim M8.0 Earthquake in northern Peru with a link to go.usa.gov/xm7Eh. The second tweet is dated May 25, 2024, at 10:31 UTC, reporting a Prelim M5.6 Earthquake in Vanuatu with a link to go.usa.gov/xm7k3. The third tweet is dated May 23, 2024, at 15:02 UTC, reporting a Prelim M5.6 Earthquake southeast of the Loyalty Islands with a link to go.usa.gov/xmGjB. Each tweet has a small number of interactions (e.g., 6 comments, 90 retweets, 62 likes) and a reply icon.

- USGSted** @USGSted · May 26
Prelim M8.0 Earthquake northern Peru May-26 07:41 UTC, updates go.usa.gov/xm7Eh
- USGSted** @USGSted · May 25
Prelim M5.6 Earthquake Vanuatu May-25 10:31 UTC, updates go.usa.gov/xm7k3
- USGSted** @USGSted · May 23
Prelim M5.6 Earthquake southeast of the Loyalty Islands May-23 15:02 UTC, updates go.usa.gov/xmGjB

Broadcast @USGSted public Tweet alerts with frequency of earthquake tweets and official USGS seismic data

Using Twitter platform to broadcast earthquake alerts more rapidly and efficiently

Value of USGS TED Detections

□ SPEED:

- 90% of TED detections are faster than automatic detections
- Currency vs Accuracy, provides starting time and location

□ COMPLETENESS:

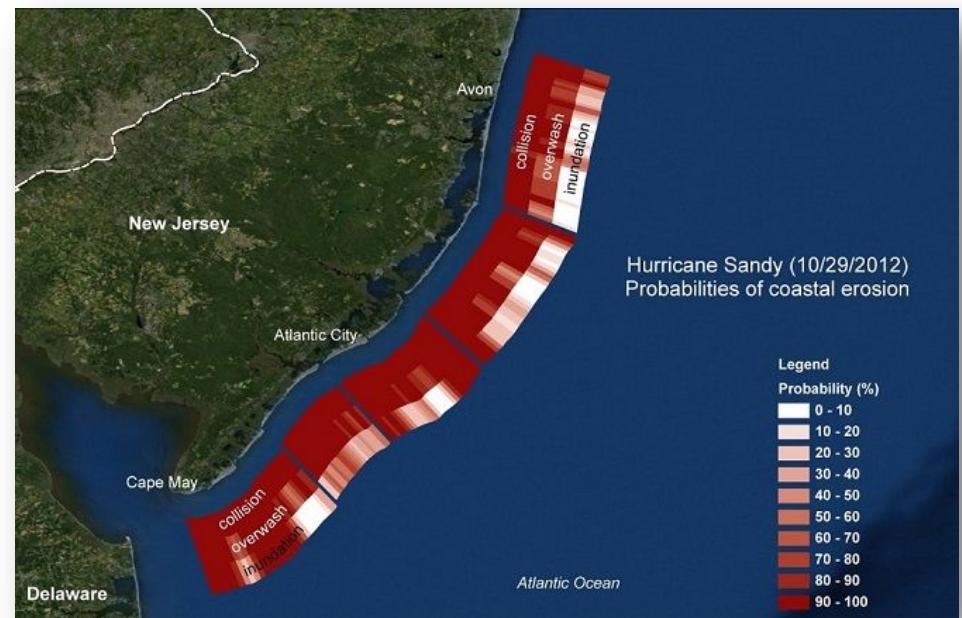
- Improves completeness for felt earthquakes in sparsely instrumented areas
- Detects lower magnitude felt earthquakes
- Around 22% of earthquakes are missed by seismic systems

□ LOW-COST INFRASTRUCTURE:

- Inexpensive to develop, access, and use Twitter data
- Using Twitter platform to broadcast earthquake alerts more efficiently

USGS iCoast - Did the Coast Change?

- **Ground truth, validate, and enhance USGS coastal erosion prediction models**
- **Cost effective** way to classify large volumes of photos covering a wide area to enhance coastal hazard research and response to extreme storms
- **Educate the public** about coast vulnerability from extreme storms



USGS iCoast - Did the Coast Change?



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

USGS iCoast - Did the Coast Change?

[Home](#) [Classify](#) [Profile](#) [Help](#) [About](#) [Logout](#)

PRE-STORM: Before Hurricane Sandy
21 May 2009 at 10:52:22 EDT near Winter Yacht Basin, Mantoloking, NJ



POST-STORM: After Hurricane Sandy
05 Nov 2012 at 12:24:10 EST near Winter Yacht Basin, Mantoloking, NJ



TASK 4: SPECIFY CHANGES TO COASTAL LANDFORMS

What changes do you see in the POST-storm photo for each coastal change process?

Beach Erosion
(choose any)

- Less Sand
- Dark Sand
- Beach Scarp

Dune Erosion
(choose any)

- Dune Scarp
- Leveled Dune
- Less Vegetation

Overwash
(choose any)

- Sand Inland
- Sand on Roads
- Sand in Marsh

Inundation
(choose any)

- Breach
- Standing Water
- Dead Vegetation

Which coastal change process is most dominant in the POST-storm photo?
(choose one)

- Beach Erosion
- Dune Erosion
- Overwash
- Inundation
- No Change

[PREVIOUS TASK](#)

• • • 4 •

[NEXT TASK](#)

“‘PLEASE SEND HELP.’

HURRICANE HARVEY VICTIMS

TURN TO TWITTER AND FACEBOOK” (TIME)

“HURRICANE HARVEY:

5 WAYS SOCIAL MEDIA SAVED

LIVES IN TEXAS” (SAN DIEGO UNION-TRIBUNE)

“SOCIAL MEDIA PLAYS GROWING ROLE IN GUARD’S

HURRICANE RESPONSE” (MILITARY.COM)

“WHEN DISASTER

HITS AND LANDLINES FAIL, SOCIAL

MEDIA IS A LIFELINE” (NEW YORK TIMES)

FACEBOOK, TWITTER REPLACE

911 CALLS FOR STRANDED IN HOUSTON (NPR)

“REDDIT, TWITTER OFFER

AN OASIS OF INFO, RESOURCES FOR HARVEY

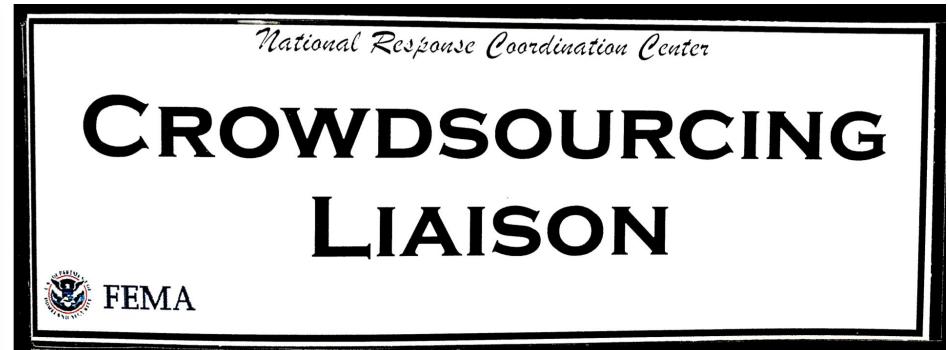
VICTIMS” (MASHABLE)



FEMA Crowdsourcing Unit

“Don’t think outside the box...FORGET the friggin’ box!”

– Brock Long (FEMA Administrator)



FEMA Crowdsourcing Unit Activations

10

Digital
Volunteer
Networks

4

Hurricanes

50

Crowdsourced
Products

8

Private Sector
Companies

2

National
Exercises



Crowdsourcing Playbook for
Emergency Management
Considerations for Emergency Managers

[Month] 2018]



FEMA

DRAFT v4

FEMA Crowdsourcing Unit Activations

October 6 - 20, 2017

Activation #1 - Hurricane Maria

13 Coordination Calls and Reports
11 Crowdsourcing Products
6 Digital Volunteer Networks
5,700+ Volunteers
2 Hackathons
* Crowdsourcing Exchange Hackathon at FEMA HQ

August 22 - 25, 2018

Activation #2 - Hurricane Lane

3 Coordination Calls
7 Crowdsourcing Products
6 Digital Volunteer Networks
* Official updates posted on social media in real-time
* Monitored Waze, GasBuddy, RxOpen

September 10 - 20, 2018

Activation #3 - Hurricane Florence (Olivia)

10 Coordination Calls
26 Crowdsourcing Roll-Ups
16 Crowdsourcing Products
8 Digital Volunteer Networks
8 Private Sector and other Partners
* Partnered with Private Sector thru NBEOC



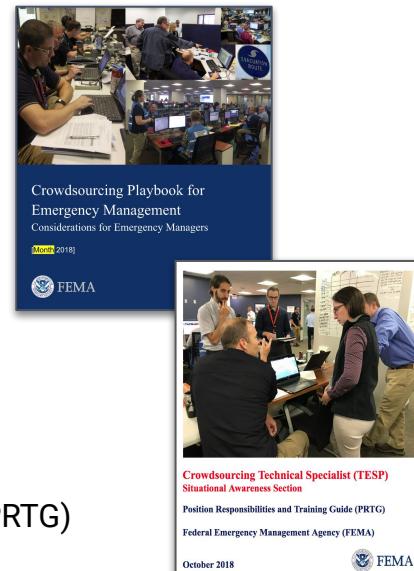
November 2017 - August 2018

Steady State

Participated in the **National Level Exercise** (May 3-8, 2018)

Developed **Crowdsourcing Playbook** for Emergency Management (Version 1)

Drafted Crowdsourcing Technical Specialist **Position Responsibilities and Training Guide** (PRTG)



October 8 - 14, 2018

Activation #4 - Hurricane Michael

7 Coordination Calls
11 Crowdsourcing & Social Listening Reports
15 Crowdsourcing Products
8 Digital Volunteer Networks
9 Private Sector and other Partners
* Waze & GasBuddy integrated into FEMA GIS dashboards

Partners and Participants

Digital Volunteer Networks



Private Tech Sector



NGOs and Non-Profit Organizations



Federal Partners



FEMA (NRCC Staff, Regional Staff, Liaisons, ESFs)



Situational Awareness Section, GIS Unit, External Affairs, National Business Emergency Operations Center, Mass Care, OpenFEMA, Region 3, Region 4, Region 9, IMAT-East

Crowdsourcing CAP Imagery Analysis for Damage Assessment



<< Previous Image Submit Skip - New Image >>

Mark the Image with Damage Assessments

FEMA: Image Analysis Training

- Mark Buildings as Affected
 - Mark Buildings as Minor
 - Mark Buildings as Major
 - Mark Buildings as Destroyed
- Remove All Marks on Image
- In General, Impact is shown in Image
 - In General, No Impact in Images

Image Info:
Event: CAP - Hurricane Irma
Team: 17-1-5752
Mission: A0011
Photo Date: 2017-09-10 09:34:31
Altitude: 491(m)



FEMA



A photograph showing three Civil Air Patrol members in uniform (two men and one woman) sitting at a desk in an office setting. They are looking at a computer monitor displaying a map or image analysis software. Behind them are shelves filled with boxes and supplies.

Civil Air Patrol Puerto Rico Wing members review #HurricaneMaria damage assessment photos using FEMA Federal Emergency Management Agency's crowdsourcing site. AOPA: your freedom to fly, Air Force Association, United States Air Force, Air Combat Command, Flying Magazine, General Aviation News, Plane & Pilot Magazine

Paul Wescott, Ricardo X. Torres, Herman Liboy and 283 others like this. Top Comments - 72 Shares 6 Comments

Civil Air Patrol Here's the crowdsourcing site - <http://imageruploader.geoplatform.gov/DamageReview>

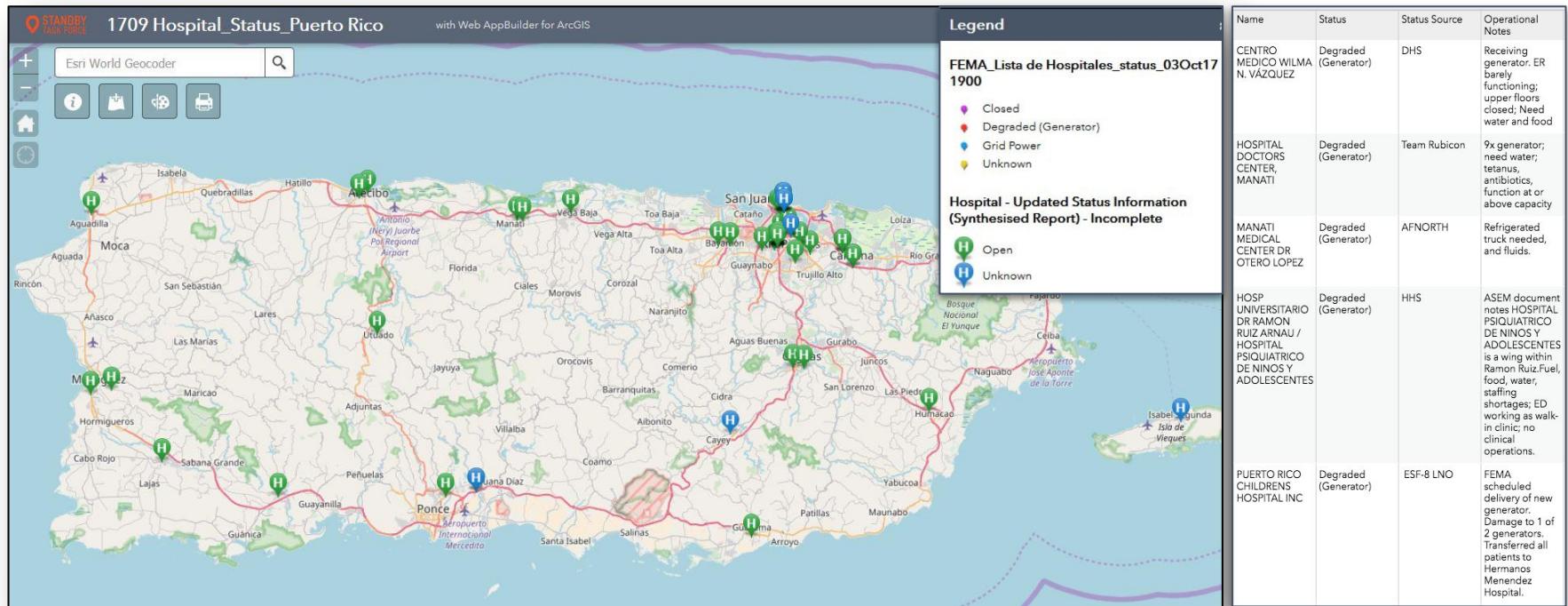
CAP Image Damage Assessment
IMAGERUPLOADER.GEOPLATFORM.GOV
October 7 at 5:55pm · Edited

Hospital Status Map



Standby Task Force (SBTF) was formed in 2010 to provide volunteer online digital responses to humanitarian crises.

In 36 hours, **55 Standby Task Force volunteers** updated **33 of 71 hospitals** (compared to **30 of 71 hospitals** on the official side), then they found info on **63 of 71 hospitals & 44 other health facilities**.



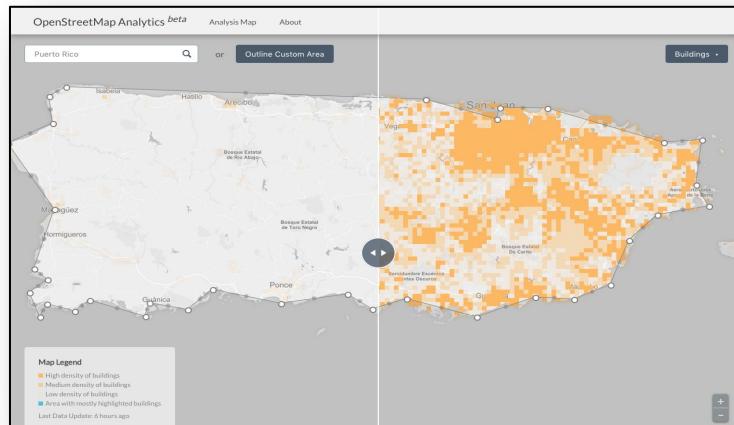
This was used to build hospital resupply plans, support volunteer medical groups, and prioritize resources.

Puerto Rico Buildings & Roads Base Map



Humanitarian
OpenStreetMap
Team

The Humanitarian OpenStreetMap Team (HOT) creates and provides free, up-to-date maps with the help of volunteer mappers during disasters around the world.



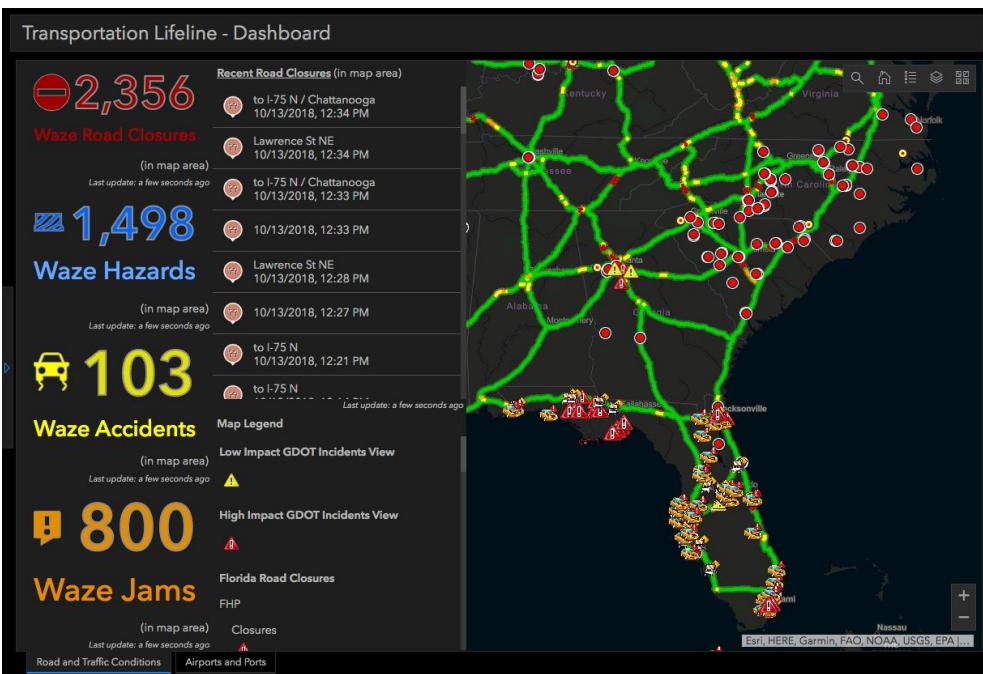
OpenStreetMap

Volunteers: 5,400+, ~300 active daily
Start & End Date: 9/23 - Ongoing
Buildings mapped: 1.4 million buildings
Roads mapped: 45,000+ km

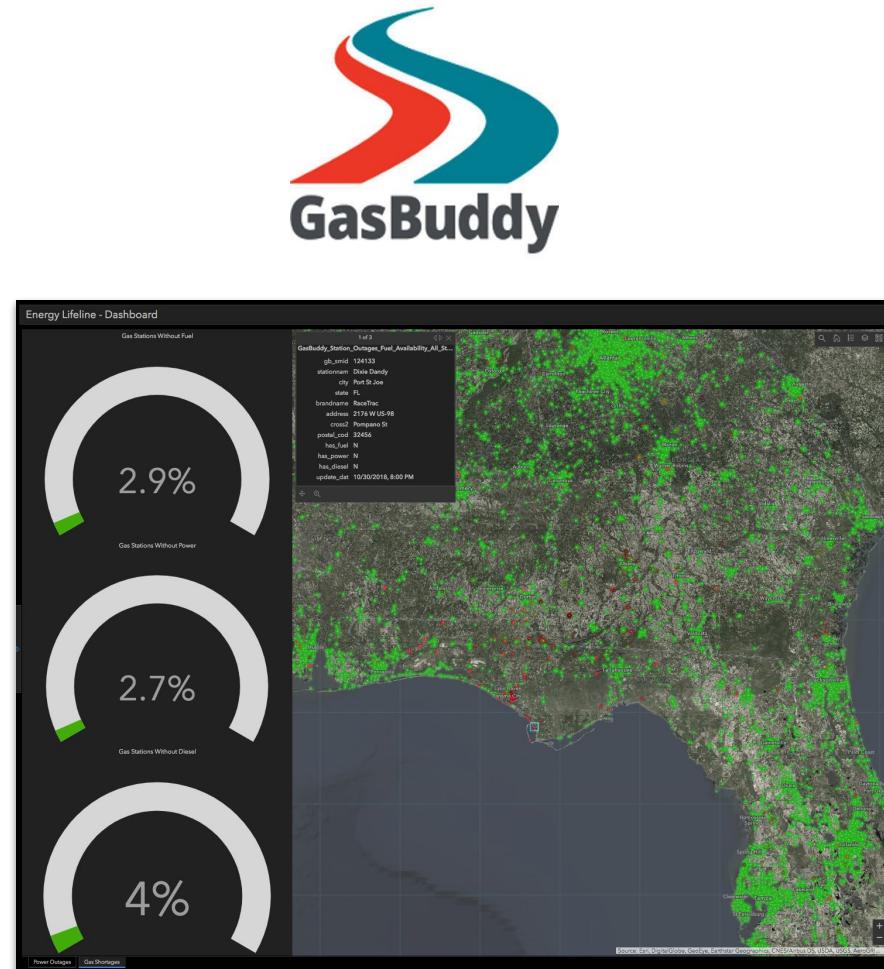
A screenshot of the OSM Tasking Manager. The top bar says "Please download OSM Tasking Manager". Below it, a message says "#3633 - Hurricane Maria | 2017 - Puerto Rico 2 (Guajataca Dam Area)". The map shows Puerto Rico with a green shaded area indicating work done. A legend at the bottom left shows "Can work on (0)" with an orange square, "Completed" with a yellow square, and "Validated" with a green square. Scale bars for 20 km and 10 m are also present. A "Instructions" button is at the bottom right.



Crowdsourced Data from the Tech Sector



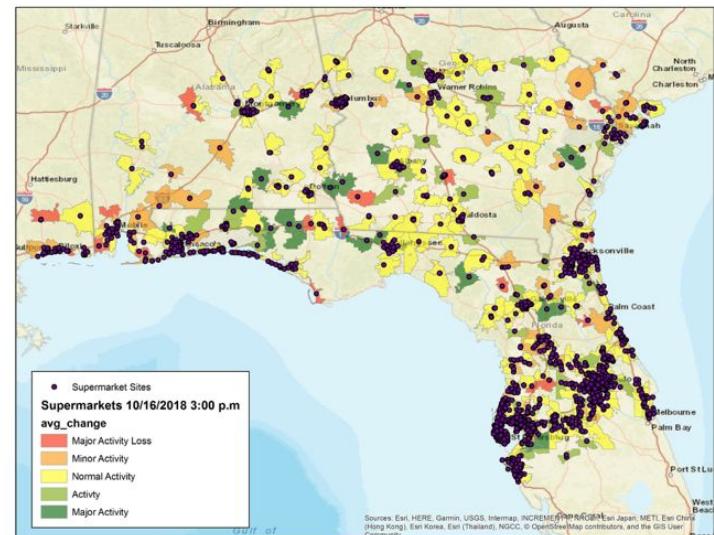
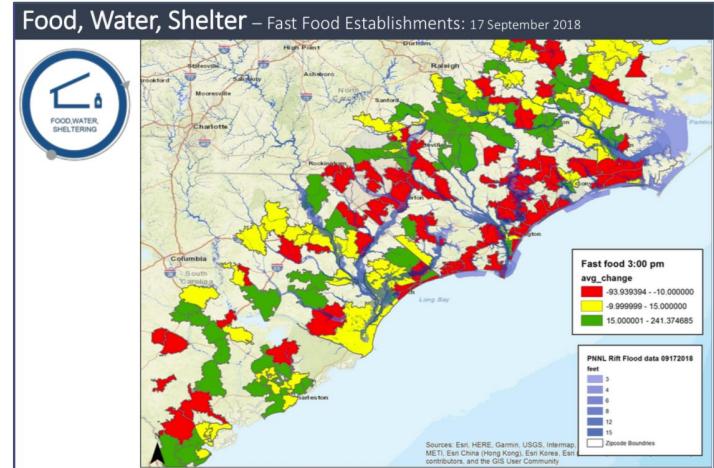
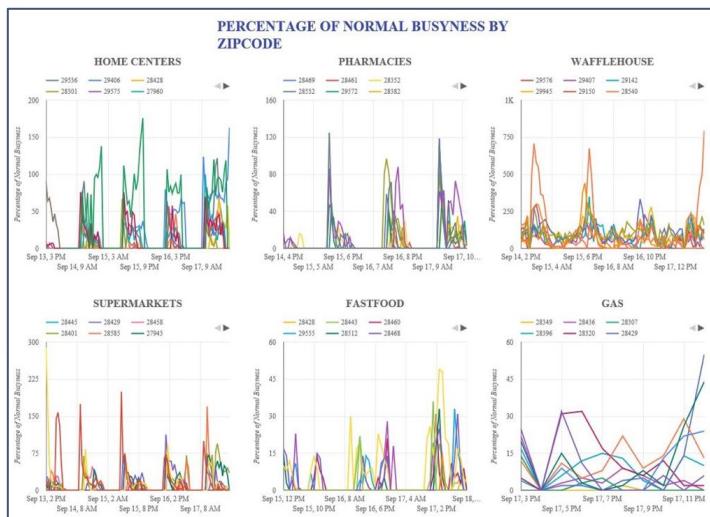
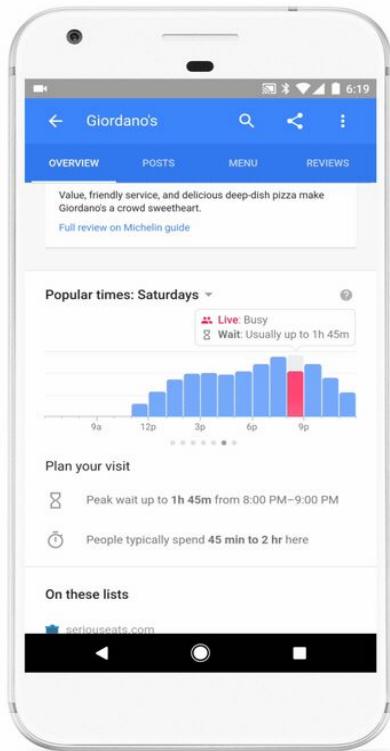
USACE integrated Waze data into Trafficability Map



Department of Energy (DOE) integrates GasBuddy data into DOE Situation Reports

Google Busyness Data

Impact to commerce indicating businesses that are open or closed with long or no wait times.



Crowdsourcing Unit Map Journal

<http://bit.ly/CrowdMichaelJournal>

FEMA Crowdsourcing Unit - Hurricane Michael

- FEMA NRCC Crowdsourcing Unit
- 2018 Hurricanes Crowdsourced Photos
- CrowdSource Rescue - Requests and Offers
- NAPSG Joint SAR Activity
- CEDR Shelters Crowdsourced
- C4A MichaelResponse.org
- C4A Points of Distribution (POD)
- SBTF Medical Facility Status
- GasBuddy Fuel Availability & Station Outages
- Facebook Disaster Maps - Network Coverage
- Waze Alerts - Traffic & Road Conditions
- Crisis Cleanup - Recovery Work Orders

CRISIS CLEANUP

Public: 800-451-1954, Extended to Nov. 2. Flyers & Info: Download.

Visualize the Disaster in Real Time

Personal information has been hidden, and the location has been blurred to 400 meters.

Map Satellite

Case #: Z13506

Name, Address, Phone Number are removed from the public map

Address: Carolina Avenue, Washington, North Carolina 27889

Work Type: Trees

Status: Open, unassigned

Legend

- Muckout/Flood
- Tree/Wind
- Tarp/Roof
- Tornado
- Debris
- Mold Remed.
- Fire Damage
- Ash Sifting
- Landslide
- Deferred Maint.
- Other/Unknown
- Rejected

Work Order Claim/Status

- Unclaimed
- Claimed by Org.
- Unassigned
- Assigned / Followup
- Completed
- Out of Scope

© data ©2018 Google, INEGI | Terms of Use

SophiaLiu@usgs.gov

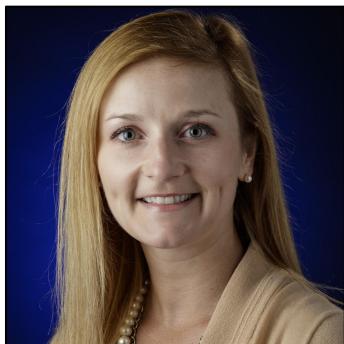


FEMA-Crowdsourcing@fema.dhs.gov



FEMA

Panel Discussion: Innovation and the Power of Public Engagement



Jennifer Gustetic

Program Executive for Small Business Innovation Research (SBIR/STTR)
NASA



Caren Cooper, Ph.D.

Associate Professor, Forestry and Environmental Resources and Chancellor's Faculty Excellence Program in Leadership and Public Science

N.C. State University



Therese Griebel

Deputy Associate Administrator for Programs, Space Technology Mission Directorate

NASA



Alexis Bonnell

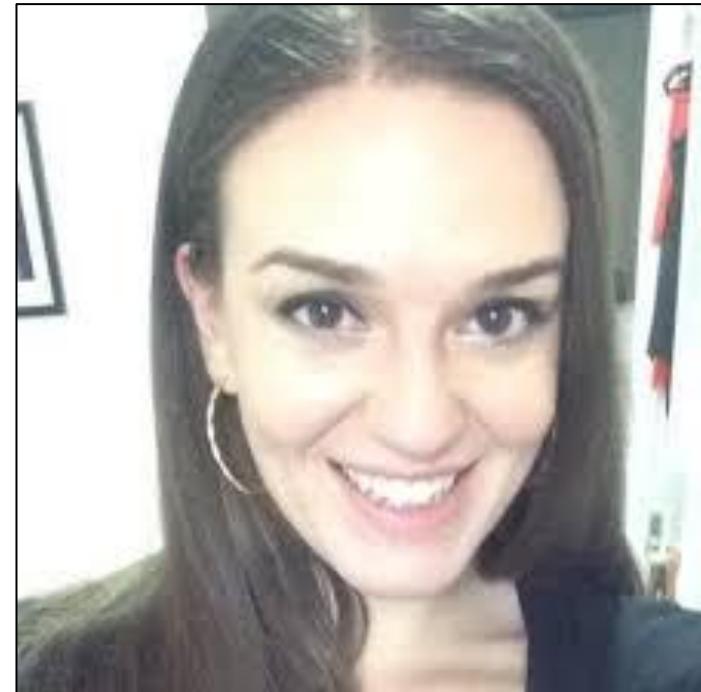
Chief Innovation Officer
USAID

Crowdsourcing Digital Solutions Through Tech Partnerships: The Opportunity Project

Drew Zachary

Director of The Opportunity
Project and Open
Innovation Labs

U.S. Census Bureau





The Opportunity Project

Engaging industry and communities through collaborative design/build sprints

June 14, 2019

Drew Zachary, Co-Director, Census Open Innovation Labs
U.S. Census Bureau | U.S. Department of Commerce

The Opportunity Project

The Opportunity Project (TOP) facilitates collaboration between tech industry, government and communities, to generate data-driven digital products that benefit the public and drive the economy using federal open data.

opportunity.census.gov

The Sprint Process

The Opportunity Project works through 12-week technology development sprints that bring technology developers, communities, and government together to solve problems using open data.

[Learn More](#)

Tech Team

Tech Teams are the private sector companies, universities, non-profits, and even students who participate in sprints to build products that translate open data into valuable tools for people across the country. The tech teams design, own, and help to launch the products they build.

Government

Federal government policy experts help to identify problems facing the public. Data stewards from federal agencies answer questions about open data to help the tech teams find and use the best data available to solve the problem. They also listen to feedback from sprint participants to make data more user-friendly.

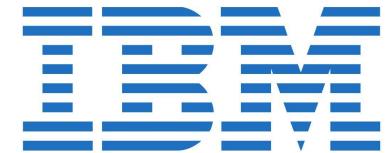
User Advocate

User Advocates are community leaders, advocates, and people with direct lived experience that can help the tech teams design products that are realistic, useful, and solve a problem for the target end users. For example, user advocates for a veterans problem statement might include service providers and veterans themselves.

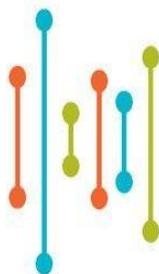
Product Specialist

Product Specialists from outside of government help the teams to ensure that the products they create continue after the sprints, so that they can reach their target end users and have real impact.

REDFIN



POLICYMAP



MEASUREOFAMERICA
of the Social Science Research Council

LinkedIn



 **Zillow**®



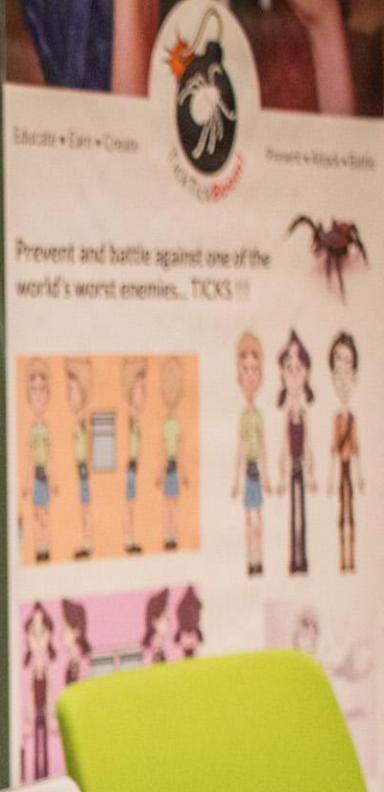
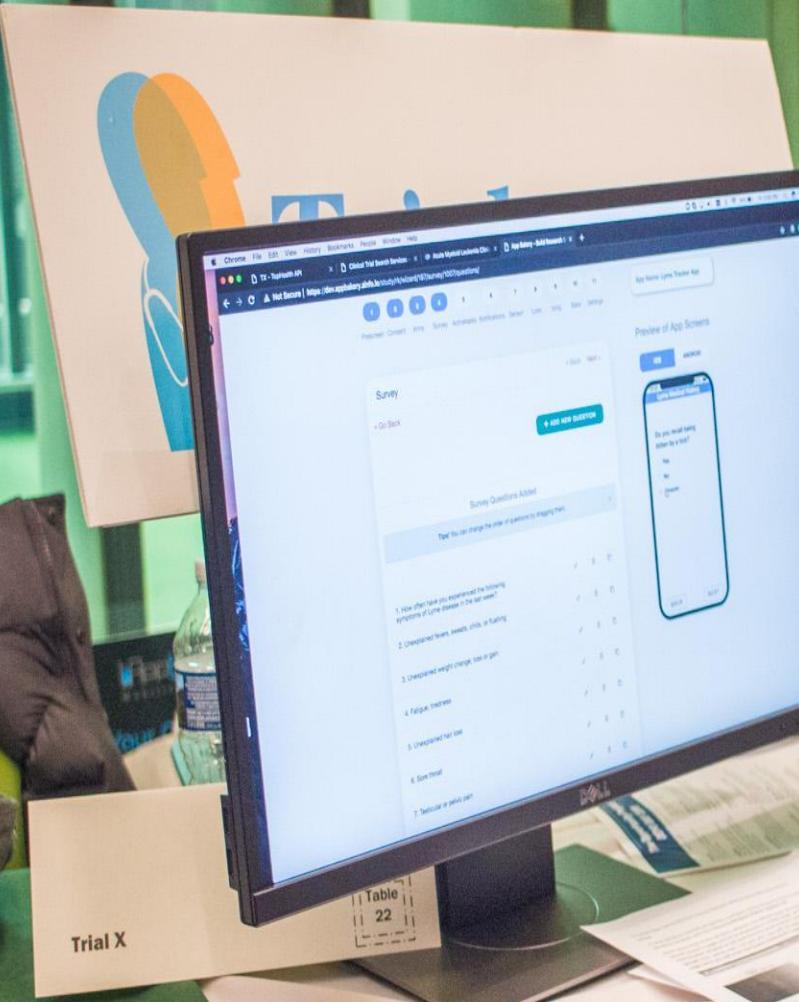
How does the process work?

- Federal agencies identify high-priority problem statements
- COIL facilitates a 14-week tech development sprint
 - User research, data exploration, and design/build milestones
- Tech talent, end users, data stewards & policy experts collaborate virtually
- Tech teams drive design/development and own final products and associated IP
- Each team launches an MVP of a digital product at public demo day

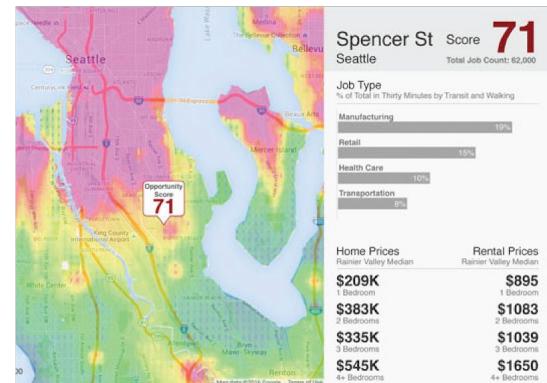
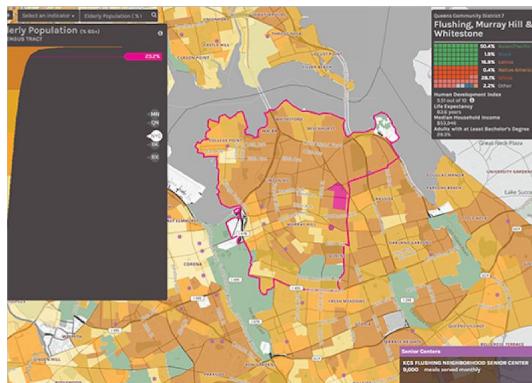
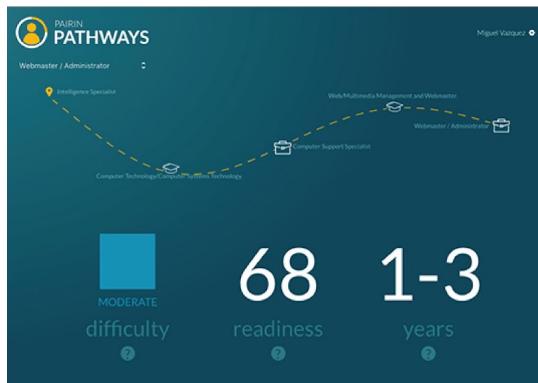
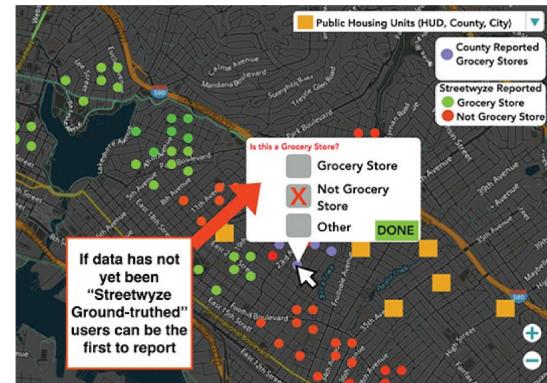
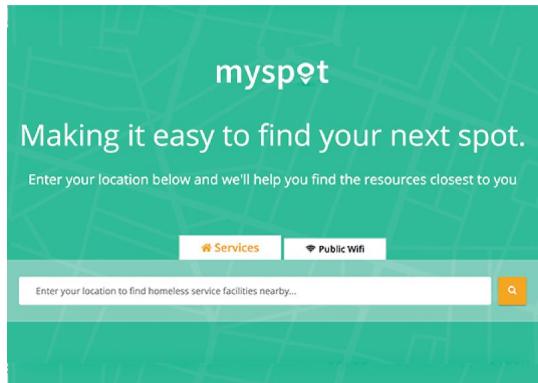
nuestro barrio

San Juan, PR





80 Products Created to Date



The Opportunity Project Toolkit

The Opportunity Project Toolkit

This toolkit documents the process that The Opportunity Project team at the Department of Commerce and other federal agencies have used to facilitate collaborative, user-centered technology development sprints. Anyone interested in transforming federal data into digital tools for the American people can adopt this process, adapt it for your own sprint, and share your feedback to help improve it.

Civic tech organizations, coding boot camps, and more have adopted The Opportunity Project process. We hope that teachers, community organizations, and state, local, and other government leaders will use it and share feedback to help improve it.

RESOURCES



Data.gov

Search nearly 200,000 data sets from federal agencies. View the Opportunity Project collection of data sets at [data.gov/opportunity](#).

FORUMS, TUTORIALS, AND OTHER TOOLS



The Opportunity Project Slack

The Opportunity Project community on Slack is a great place to ask questions about finding, accessing, or using data sets.

- Intro
- 01 Choose a Problem
- 02 Form a Team
- 03 Conduct User Research
- 04 Explore Data
- 05 Design and Build
- 06 Share the Product
- 07 Keep Improving

FORUMS, TUTORIALS, AND OTHER TOOLS



Data.world

Data.world created compilation of data sets for teams in The Opportunity Project with space to share feedback on data and collaborate with others.

CitySDK

The U.S. Census Bureau created a series of tools that make it easier to combine and use government data. You can find The Opportunity Project module

RESOURCES



Empathy Isn't Enough

Read this article written by a past participant in The Opportunity Project to learn more about the user research workshop, user interviews, and other methods they used to build a useful tool for youth experiencing homelessness.



User Centered Design Training

Watch this user-centered design training that Exgy created for Opportunity Project participants.



How to Conduct User Interviews

This article provides tips on how to create interview questions and conduct user interviews, and includes resources you can use for interviewing.



IDEO Design Methods

Consider using IDEO Design Methods to narrow down your problem statement.

STEP 05

Design and Build a Product

Once you identify a problem to tackle, the end users your tool will serve, and the data you will use, you can start building! Work collaboratively to build a digital product, including many voices as possible in the design process and seeking feedback as you design and build. Build iteratively, showcasing early versions and revising your design plans based on feedback. Remember that you don't have to build the perfect or "final" solution in 12 weeks! During this phase, we recommend the whole group communicate frequently and come together remotely or in person every 2-3 weeks to demo their works in progress, ask questions, and share feedback.

- Build according to the user research. Use the data you found during data exploration.
- Share the concepts, wireframes, and prototypes early and often. Revise your design and plans based on the feedback you receive.
- Conduct user testing or feedback sessions to improve the product and

- Intro
- 01 Choose a Problem
- 02 Form a Team
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- Intro
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Get Involved

Workforce sprint

Investing in the workforce in all communities

Virtual engagement: June 25 - Sep 27

- Modernizing talent discovery to grow the innovation economy (EDA)
- Resources to unleash American entrepreneurship (OSTP)
- Improving entrepreneurs and small businesses access to capital (SBA)
- Catalyzing investment in Opportunity Zones (CEA/HUD)
- Leveraging apprenticeships for career growth (COIL)

JOIN US IN PERSON IN CHICAGO (July 2)

Topchicago.splashthat.com

INVESTING IN
THE AMERICAN
WORKFORCE: A
TECH &
COMMUNITY
WORKSHOP

07.02.2019



2020 Census Sprint

Innovating the 2020 Census

Virtual engagement: July 30 - October 31

- Enumerator recruitment
- Real time response data
- Reaching hard to count populations
 - Children under 5
 - Rural and tribal communities
 - People experiencing homelessness
 - LGBTQ communities

JOIN US IN PERSON IN DC - August (Date TBD)



The Opportunity Project Prize Challenge

A prize competition sponsored by the US Census Bureau to promote **sustainability of digital products created through TOP** and reward creative, effective **applications of federal open data**.

Awarding close to \$100,000 in prizes and in-kind awards in 2019.

Why a prize?

How to Participate

- 1) Create a product through The Opportunity Project
 - o Join a facilitated sprint
 - o Use online toolkit and join optional open sessions on user research & data exploration
- 2) Review rules posted on Challenge.gov in June
- 3) *Optional:* Send a notice that you plan to apply when prize opens
- 4) Submit your product and documentation by the deadline in October!
 - o A live, working digital product that uses open data
 - o Documentation of your sprint or toolkit participation (user research and open data)
 - o Document your product's usage and impact to date or plans to deploy your product to end users
- 5) Submissions reviewed by a panel of data, technology, and policy experts from within and outside of government
- 6) Prize winners announced in December

Prize Categories

Revolutionizing the Workforce

Ex: employment, education, developing regional talent pipelines

Building Thriving Communities

Ex: affordable housing, transportation, public safety

Resilient People and Places

Ex: disaster preparedness, environment stewardship, community

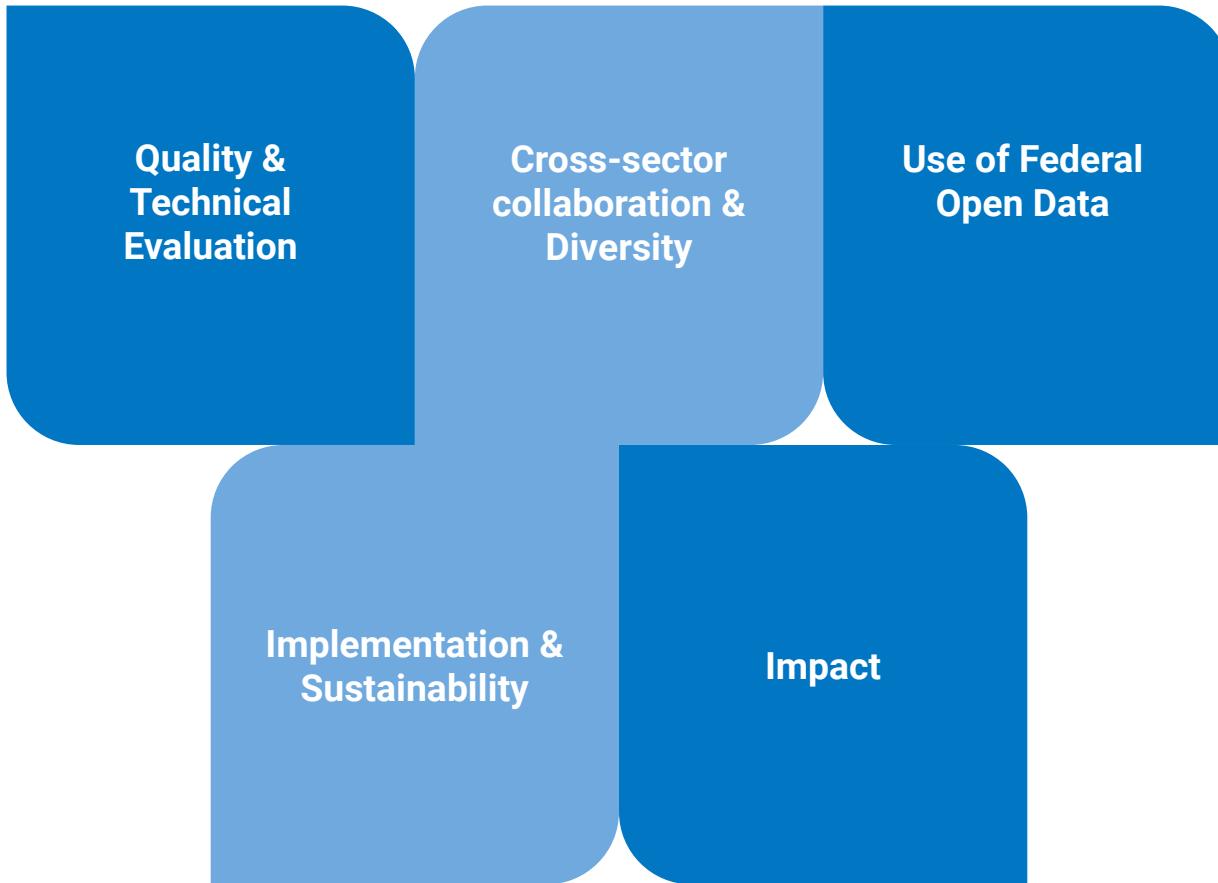
Creating the Future of Health

Ex: preventing tick borne disease, responding to the opioid crisis

Get Out the Count: Innovating for the 2020 Census

Ex: using technology to reach hard to count populations, bridging the digital divide

Evaluation Criteria



Important Dates

Prize competition opens on
challenge.gov &
opportunity.census.gov

Submit optional "email of intent" to
participate

Open Sessions (i.e. user research, data
exploration)

Final submission deadline for prize

Submissions reviewed

Winners announced/prizes awarded

June

June

July -
October

Late
October

November

December

Engage

- 1) Sign up for updates on opportunity.census.gov
- 2) Join our Slack
opportunity-slack.herokuapp.com
- 3) Email us questions
census.opportunityproject@census.gov
- 4) RSVP to Chicago workshop:
[**TOPchicago.splashtthat.com**](https://TOPchicago.splashtthat.com)



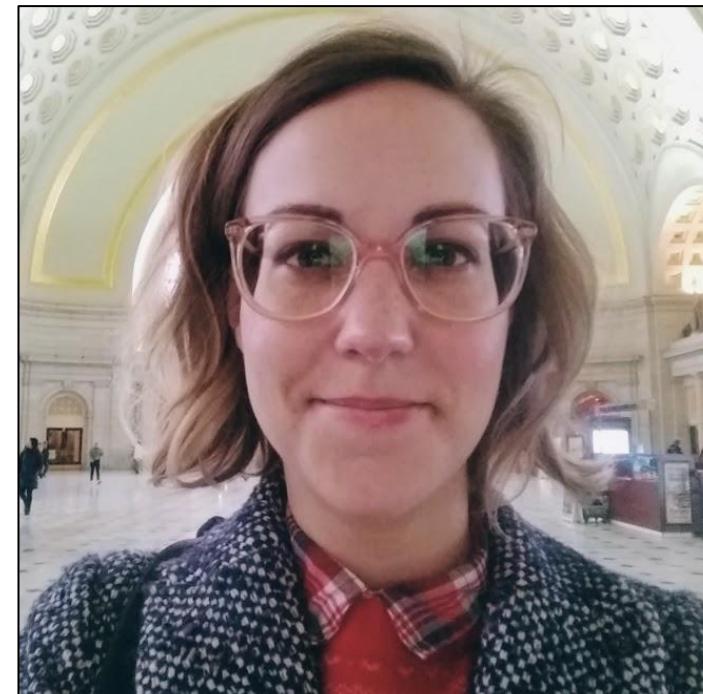
Thank you!

Drew Zachary
drew.a.zachary@census.gov

Creating an Innovation Culture at the Library of Congress

Lauren Algee
Senior Innovation
Specialist
Library of Congress

Library of Congress Labs (@LC_Labs)
By the People (@Crowd_LOC)





Featherlite Pancakes
sift together

1 C flour

2 T B. Powder

$\frac{1}{2}$ t salt

2 T sugar

mix

1 egg - $\frac{1}{4}$ C milk

$\frac{1}{3}$ C peanut butter

melted

1 T shortening or oil

combine with dry ingredients

Cook at 275°

on griddle

Engage, inspire, and inform Congress
and the American people with a
universal and enduring source of
knowledge and creativity

**All Americans are connected to
the Library of Congress**

labs.loc.gov



Welcome to Labs!

A place to encourage innovation with Library of Congress digital collections.



Experiments

Check out tools, art, applications, and visualizations we've made with our collections.



LC for Robots

Find APIs, bulk downloads, and tutorials for the Library's digital collections.



Events

See what's coming up, and read about past events.

Library of Congress Digital Strategy



We will throw open the treasure chest.



We will invest in our future.

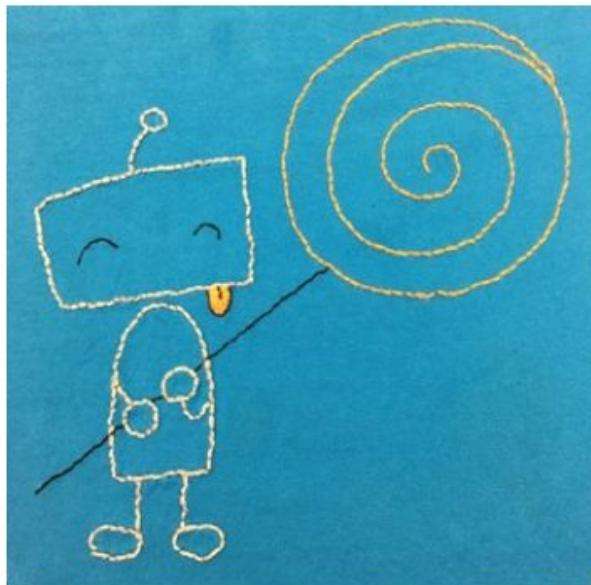


We will connect.

Loc.gov/Digital-Strategy

LC for Robots

We hope this list of APIs, bulk downloads, and tutorials will help you begin exploring the many ways the Library of Congress provides machine-readable access to its digital collections.

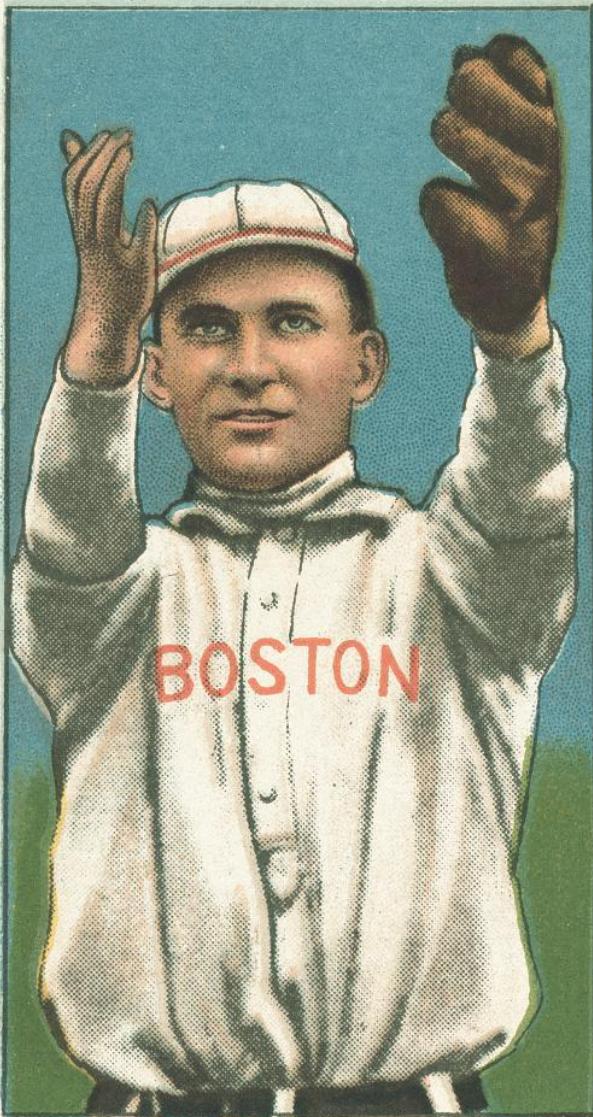


Get Data

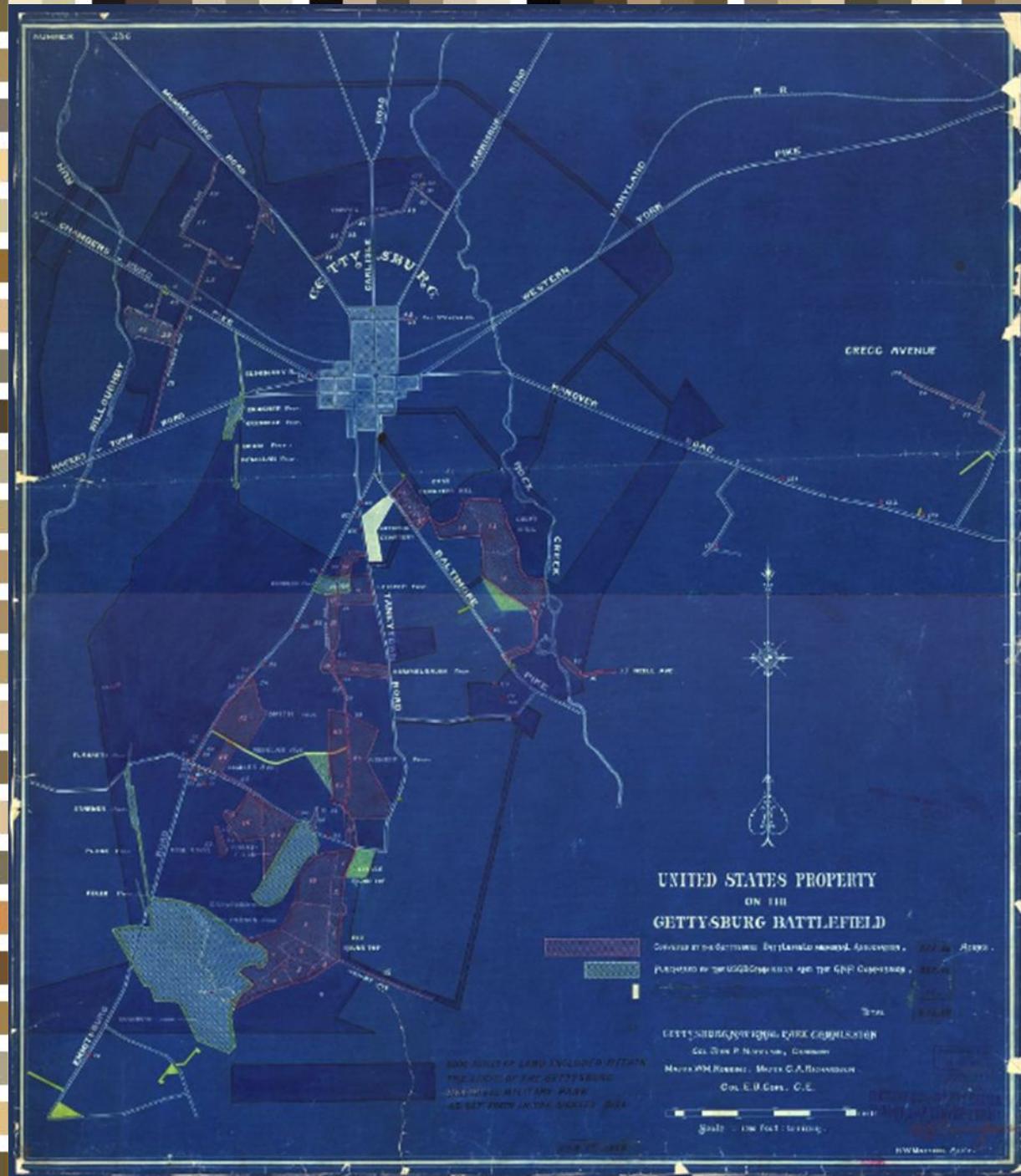
- Bulk data for Congress.gov bills, bill status, and bill summaries
- MARC records - bibliographic information for most of the Library's collections. 25 million records are available for exploration in UTF-8, MARC8, and XML formats.
- Sample MARC data set and ReadMe file
- Chronicling America Bulk OCR Data – text only
- Chronicling America Bulk Data – image, metadata, and OCR text batches

APIs

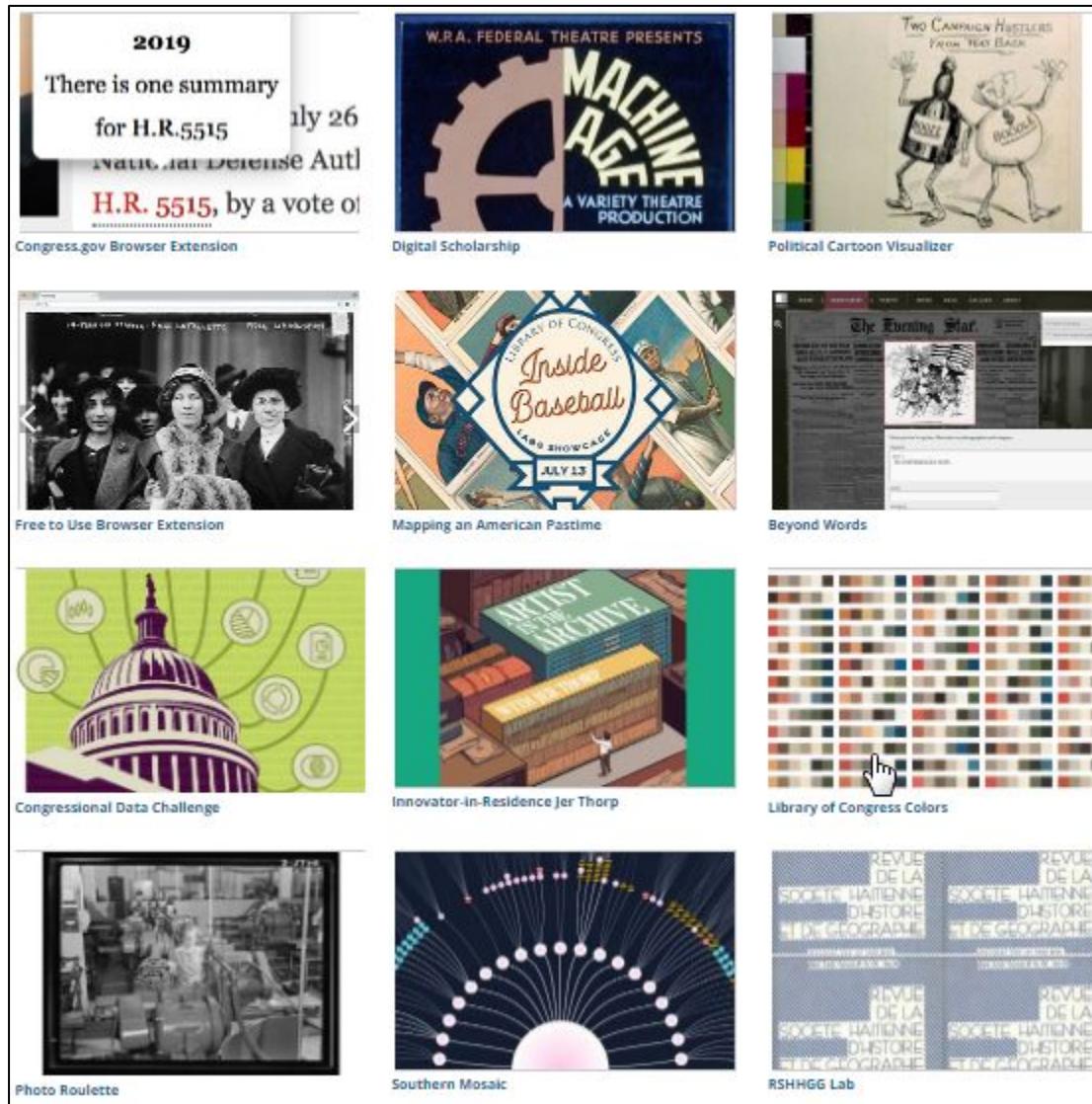
- Loc.gov JSON API ↗ - provides data about Library of Congress digital collections. The API is a work in progress and subject to change.
- Chronicling America APIs - over 12 million (and growing) digitized historic newspaper pages from almost every U.S. state and territory.



STAHL, BOSTON AMER.



Labs.loc.gov/experiments



The image displays a grid of 12 experimental projects from the U.S. Government Open Innovation Summit, each with a small thumbnail and a caption below it.

- 2019**
There is one summary
for H.R.5515
July 26
Health Defense Autl
H.R. 5515, by a vote of
Congress.gov Browser Extension
- W.R.A. FEDERAL THEATRE PRESENTS**
MACHINE AGE
A VARIETY THEATRE PRODUCTION
Digital Scholarship
- Two Campaign Hustlers**
FROM TEAS BACK
Political Cartoon Visualizer
- Free to Use Browser Extension**
A screenshot showing a historical photograph of three women.
- Mapping an American Pastime**
An illustration of a baseball diamond with the text "LIBRARY OF CONGRESS LABS SHOWCASE Inside Baseball JULY 13".
- Beyond Words**
A screenshot of a website interface with a newspaper header "The Evening Star".
- Congressional Data Challenge**
An illustration of the U.S. Capitol dome with a network of icons around it.
- Innovator-in-Residence Jer Thorp**
An illustration of a person standing in front of a large stack of books labeled "ARTIST ARCHIVE".
- Library of Congress Colors**
A grid of numerous color swatches with a hand cursor icon pointing at one.
- Photo Roulette**
A black and white photograph of a group of people in what appears to be a factory or workshop setting.
- Southern Mosaic**
A circular graphic with radiating lines and dots, resembling a sunburst or a map.
- RSHHGG Lab**
A series of four panels showing the front cover of a publication titled "REVUE DE LA SOCIETE HAÏTIENNE D'HISTOIRE ET DE GEOGRAPHIE".

Free to use browser extension



Suffragists in parade | 1910

Congress.gov Browser Extension



U.S. Reps. Mac Thornberry (R-TX), Mike Turner (R-OH), and Tom Cole (R-OK) commended final U.S. House approval of the conference report resolving differences with the U.S. Senate on the fiscal year (FY) 2019 national defense funding package.

The House on July 26 passed the John S. McCain National Defense Authorization Act for FY 2019, [H.R. 5515](#), by a vote of 359 to 54. The measure now heads back to the Senate, which must approve it by

Sept. 30.

This year's reauthorization "takes a big step toward rebuilding and repairing," said Rep. Mac Thornberry, who introduced the bipartisan [H.R. 5515](#) on April 13 with U.S. Rep. Mike Turner, chairman and ranking member, respectively, of the U.S. House Armed Services Committee. The bill marks the fourth national defense reauthorization under Rep. Thornberry's tenure.

2019

There is one summary

for H.R.5515

July 26

National Defense Aut

[H.R. 5515](#), by a vote of

Congressional Data Challenge



CONGRESSIONAL DATA CHALLENGE

Use Congressional data to create something that helps the public understand Congress and legislation in a new way.
Things you could make:



Interactive
visualizations



Mobile or desktop
applications



Website



Other digital
creation

FIRST PRIZE

\$5,000

BEST FROM HIGH SCHOOL

\$1,000

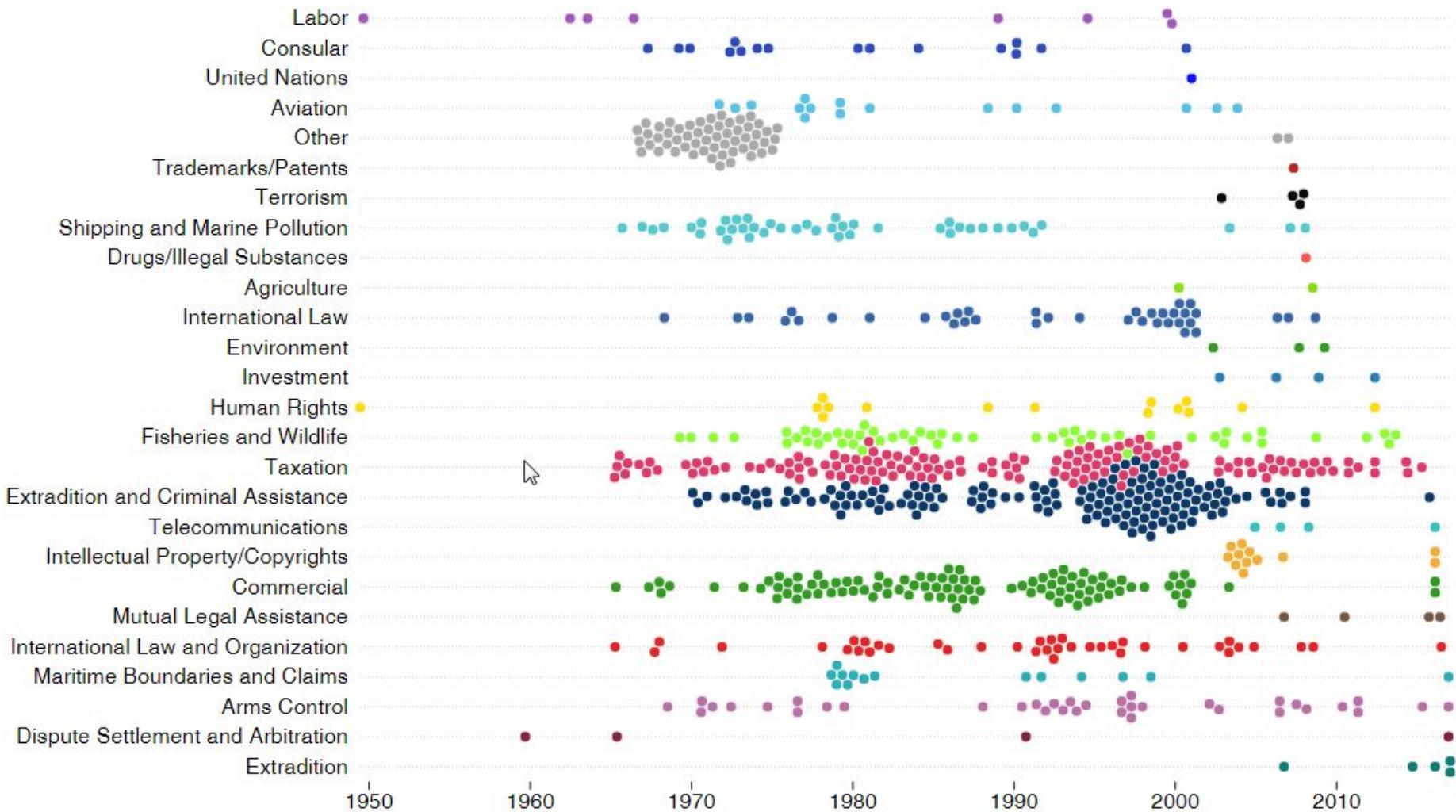
DEADLINE FOR ENTRIES

APRIL 2, 2018

MORE INFORMATION

labs.loc.gov/experiments/congressionalchallenge

Treaty Explorer



Innovator in Residence, Jer Thorp



Dear Reader,

Let's you and I walk through the endless stacks of the Library, collecting books. We'll pick out 265 of them published in or around 1650 . Let's put them in one big pile, and then we'll close our eyes and choose twenty of them. Now let's write down the names of their authors:

Luigi, James, Johannes, Richard, Thomas, Hugo,
Andrea, Charles, Nicholas, Pierre, Johann, Giovanni,
Jean, another Johann, another Richard, William,
another William, Alexandre, Edward, and Reginald.

Who are these people? Can you picture their faces? Do you know how they spoke, how they dressed, how they thought? You can change the year by clicking on it, and explore how these people change in the data (and in your mind) over time.

Sincerely,

Jer

Dear Reader,

Let's you and I walk through the endless stacks of the Library, collecting books. We'll pick out 210,179 of them published in or around 2000. Let's put them in one big pile, and then we'll close our eyes and choose twenty of them. Now let's write down the names of their authors:

Andrew, 'Alī, William, Manuel, Albert, Alberto, Wei, Mark, Philip, Carlo, Jens, Gaston, Ron, Anita, Laura, Patricia, Giovanni, Alexander, Thomas, and Jim.

Who are these people? Can you picture their faces? Do you know how they spoke, how they dressed, how they thought? You can change the year by clicking on it, and explore how these people change in the data (and in your mind) over time.

Sincerely,

Jer

6 + 8

Americanus ex Virginia. Aetat 23

The **Forty** million.

39, single, and pregnant

alker, half-length portrait, dressed in jersey #38, holding football, facing front]

Kānmūrang Thai lang lūraktang Kō. Khō. **37** /

[Pictorial envelope for Hokusai's **36** views of Mount Fuji series]

Memories Reproductions' **35** mm. photography basic.

alterations to a school ("John Eaton School"), **34** Street and Lowell Place, N.W., Washington, D.C.

The **33** convicted members of the Duquesne spy ring

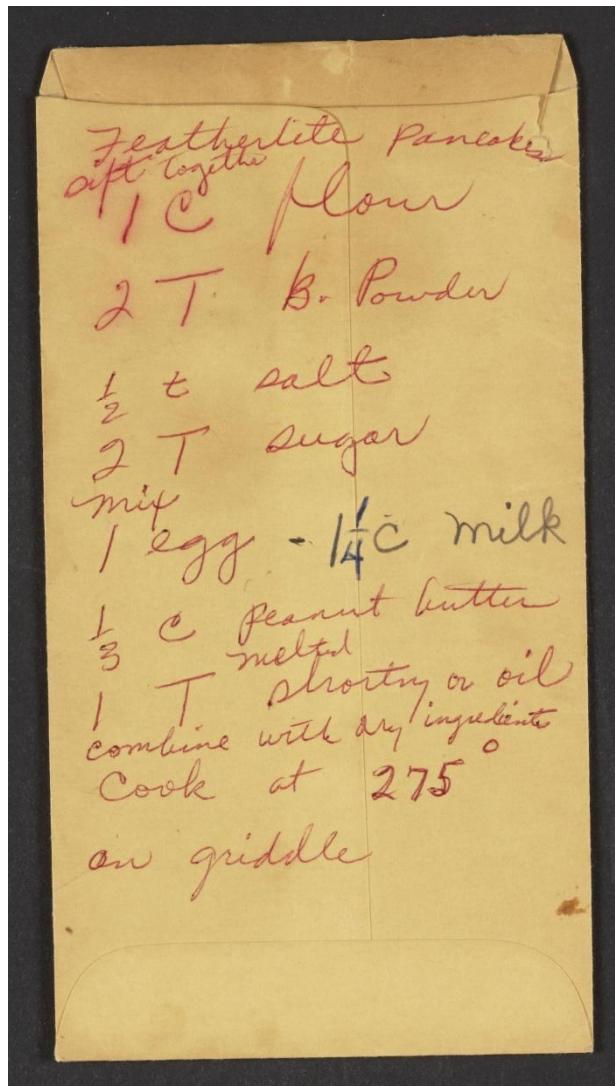
Trouble at number **thirty-two** ; Paddington and the Christmas shoppi

Journée du Poilu. **31** octobre – 1er novembre 1915. Organisée par le pa

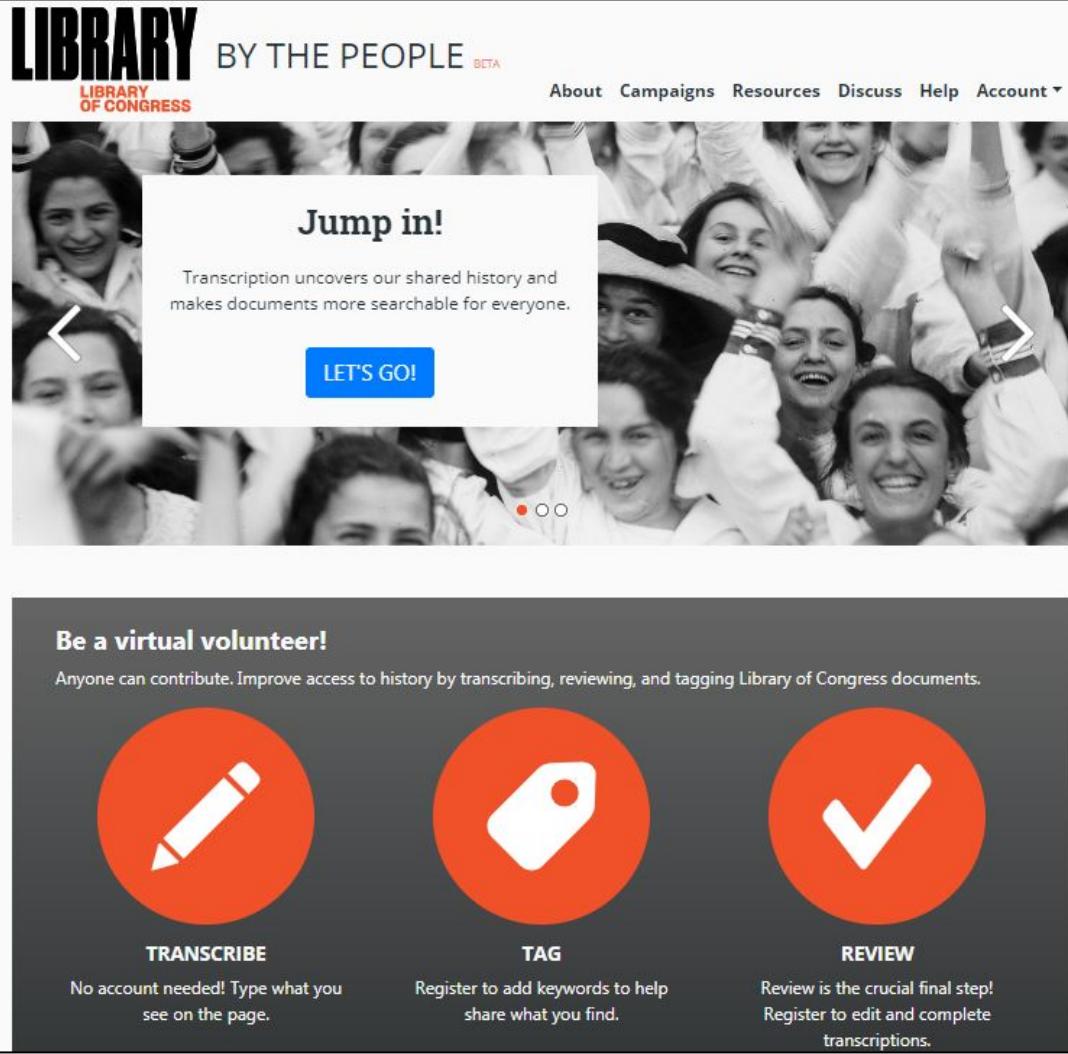
1 Newcomb à Monsieur Robert Kastor, Paris le **30** Mai 1903

ig center ("Seminole Trail Shopping"), Route **29**, Charlottesville, Virginia

Mes **28** jours



crowd.loc.gov



The screenshot shows the homepage of crowd.loc.gov. At the top, there's a navigation bar with links for About, Campaigns, Resources, Discuss, Help, and Account. The main heading "LIBRARY BY THE PEOPLE" is displayed, with "LIBRARY OF CONGRESS" below it. A large, central image of a group of diverse people smiling is overlaid with a white rectangular callout containing the text "Jump in!" and "Transcription uncovers our shared history and makes documents more searchable for everyone." Below this is a blue button labeled "LET'S GO!". Below the main image, a dark grey section features the heading "Be a virtual volunteer!" followed by the text "Anyone can contribute. Improve access to history by transcribing, reviewing, and tagging Library of Congress documents." Three large orange circles contain icons: a pencil for "TRANSCRIBE", a tag for "TAG", and a checkmark for "REVIEW". Below each icon is a brief description: "No account needed! Type what you see on the page.", "Register to add keywords to help share what you find.", and "Review is the crucial final step! Register to edit and complete transcriptions.".

LIBRARY BY THE PEOPLE BETA

LIBRARY OF CONGRESS

About Campaigns Resources Discuss Help Account ▾

Jump in!

Transcription uncovers our shared history and makes documents more searchable for everyone.

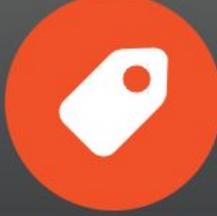
LET'S GO!

Be a virtual volunteer!

Anyone can contribute. Improve access to history by transcribing, reviewing, and tagging Library of Congress documents.

 TRANSCRIBE

No account needed! Type what you see on the page.

 TAG

Register to add keywords to help share what you find.

 REVIEW

Review is the crucial final step!
Register to edit and complete transcriptions.

By the People

Transcription and tagging of digitized collections
(mostly handwritten but some typed) to make them:

- Keyword searchable
- Readable by individuals and accessibility technologies
- Available for computational analysis

Open-source platform – **Concordia**

- github.com/LibraryOfCongress/concordia



Shakespeare's



Government
of Canada

Gouvernement
du Canada

Canada.ca | Services | Departments | Français

Library and Archives Canada



Canada

Co-Lab Home

About Co-Lab

Challenges

Library and Archives Canada Home

Log in or register

Co-Lab

[Home](#) / [Challenges](#) / View Challenge

Co-Lab

Challenges

Transcription challenges

Translation challenges

Tagging challenges

Description challenges

Guidelines

Start Tutorial

The Call to Duty: Canada's Nursing Sisters

The First World War saw a major mobilization of soldiers, equipment, supplies and medical staff. Between 1914 and 1918, 2,003 women enlisted with the Canadian Expeditionary Force (CEF) and went overseas. The war was perceived as exclusively male, but the presence of nursing sisters near the front and close to the line of fire has shattered this misperception and highlighted the importance of female caregivers during the war. These women looked after almost 540,000 soldiers and worked near the battlefields under difficult conditions.

Check out the letters, diaries and photographs of Canadian nursing sisters who served during the Great War. Follow these nurses as they witness the destruction of war, participate in social events, and help patients, as you transcribe, translate, tag and/or describe their writings and photographs.



Alice Isaacson

Contains 1188 image(s)

Transcription

65% completed

Type of Material:

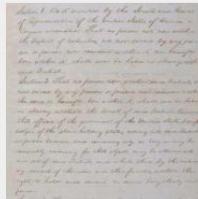
Photographs

Language of material:

English

COLLECTION**Abraham Lincoln Papers at the Library of Congress**[About this Collection](#)[Collection Items](#)[Articles and Essays](#)**Featured Content**

Abraham Lincoln, notes on the legitimate object of government, ...



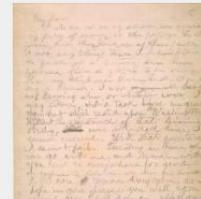
Abraham Lincoln, handwritten draft bill to abolish slavery in ...



Letter, Stephen A. Douglas to Abraham Lincoln, July 30, 1858, ...



Honorary membership certificate issued to Abraham Lincoln by the...



Abraham Lincoln, farewell address, February 11, 1861, delivered ...

[About this Collection](#)[Related Resources](#)[Rights and Access](#)**Teaching Resources**[Abraham Lincoln – Resource Guide](#)["I Do Solemnly Swear..." – Presidential Inaugurations](#)[The Library of Congress Celebrates the](#)

About this Collection

The papers of Abraham Lincoln (1809-1865), lawyer, representative from Illinois, and sixteenth president of the United States, contain approximately 40,550 documents dating from 1774 to 1948, although most of the collection spans from the 1850s through Lincoln's presidency (1861-1865). Roughly half of the collection, more than 20,000 documents, comprising 62,000 images, as well as transcriptions of approximately 10,000 documents, is online. Included on this website in their entirety are Series 1-3 of the Lincoln Papers and the original materials in Series 4. Excluded from this online presentation is a sizeable portion of Series 4, which consists of printed material and reproductions of government and military documents made from originals in the holdings of the National Archives and Records Administration.

Image 4 of Abraham Lincoln papers: Series 4. Addenda, 1774-1948: Matthew Marsh to George M. Marsh, Sept. 17, 1835

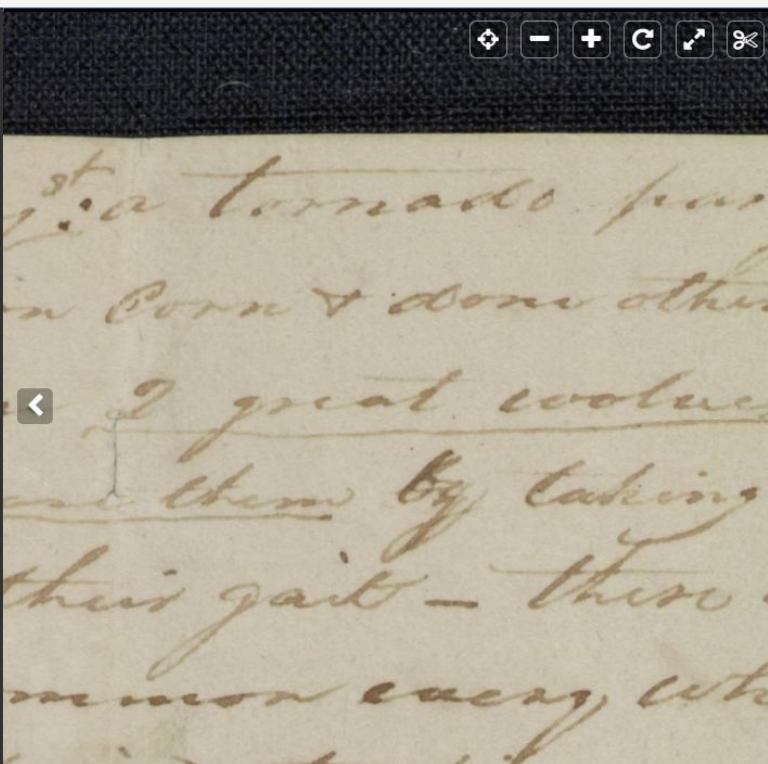
[« About this Item](#)

Image 4 of 4 [Go](#) Pages [«](#) [»](#)

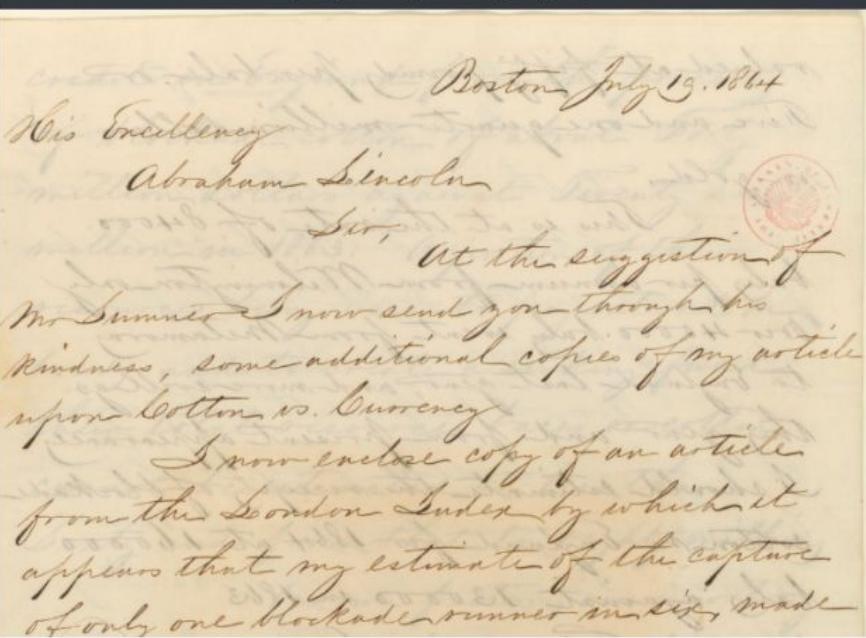
Hide Text [View Single image](#) [Go](#)

on the night of the 17 August a tornado passed over this place, laid the fences flat, rooted up trees blew down corn & done other damage. The next morn by daylight as I was putting up my fence 2 great wolves walked along unconcerned within 30 yds of me - I tried to scare them by taking off my hat & running towards them but they would not quicken their gait - there are the only ones I have seen - High winds seem to be common every where this year, so the papers say - There has been a flock of wild turkeys around my house since I cut my oats and as I had not shot at them but twice. They were pretty tame. Seeing them last week I took out my gun which had a great charge in/that I intended to shoot a Bull with who had badly hooked Clarks horse / and as their heads all go up together when they see any one. I let drive & shot fine. but could not catch but 3. had I a dog or another person with me I would have [snared?] all - Prairie hens are very plenty this fall - they are all the color of a "gray duck" & their feathers lay closer to them than to barnyard fowls. with a trap a person could catch as many as they could eat during the winter. Partridges are too small game to shoot at - If you were only here we could live like Princes. I do not know exactly where I shall go yet - but if no better chan[ce] offer[ed]

Transcribed and reviewed by volunteers participating in the *By The People* project at crowd.loc.gov.



Page 1 Go < > View on www.loc.gov Fullscreen Find a new page →



Boston July 19. 1864

His Excellency
Abraham Lincoln

Sir,

At the suggestion of Mr. Sumner I now send you through his kindness, some additional copies of my article upon Cotton vs. Currency.

I now enclose copy of an article from the London Index by which it appears that my estimate of the capture of only one blockade runner in six, made

Another user is transcribing this page. [Transcribe this page.](#)

Go ahead, start typing. You got this!

Nothing to transcribe [?](#)

[Save](#) [Submit for Review](#)

Tags

Want to tag this page? [Register](#) or [login](#) to add tags.

[Need help?](#)[Quick Tips](#)[Questions?](#)

CAMPAIGNS: CHOOSE WHAT TO TRANSCRIBE



Branch Rickey: Changing the Game



Civil War Soldiers: "Disabled but not disheartened"



Clara Barton: "Angel of the Battlefield"

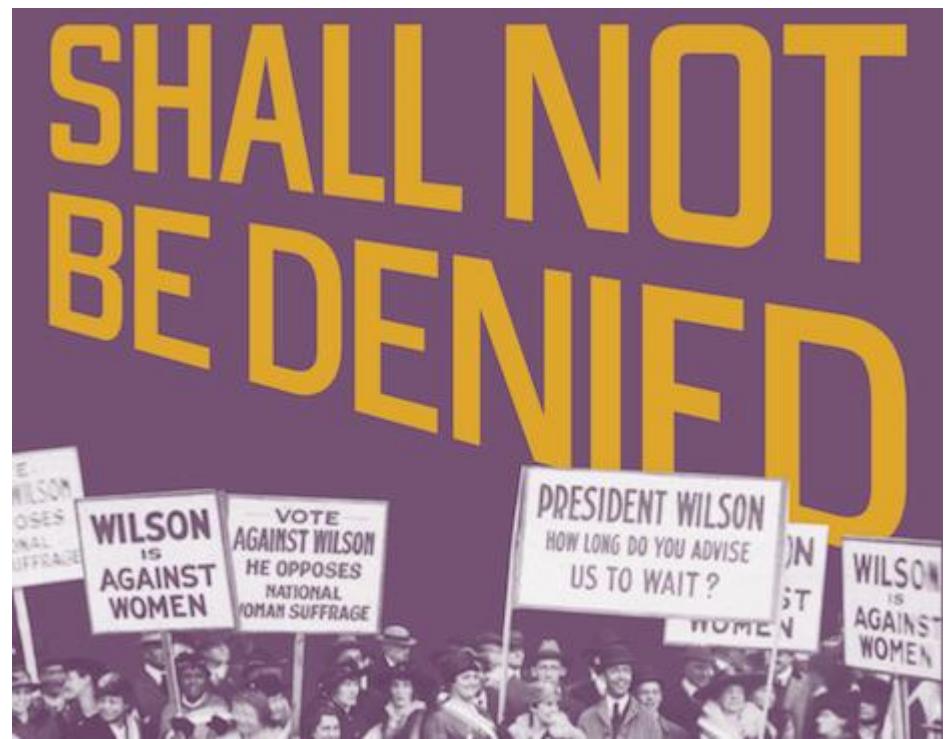
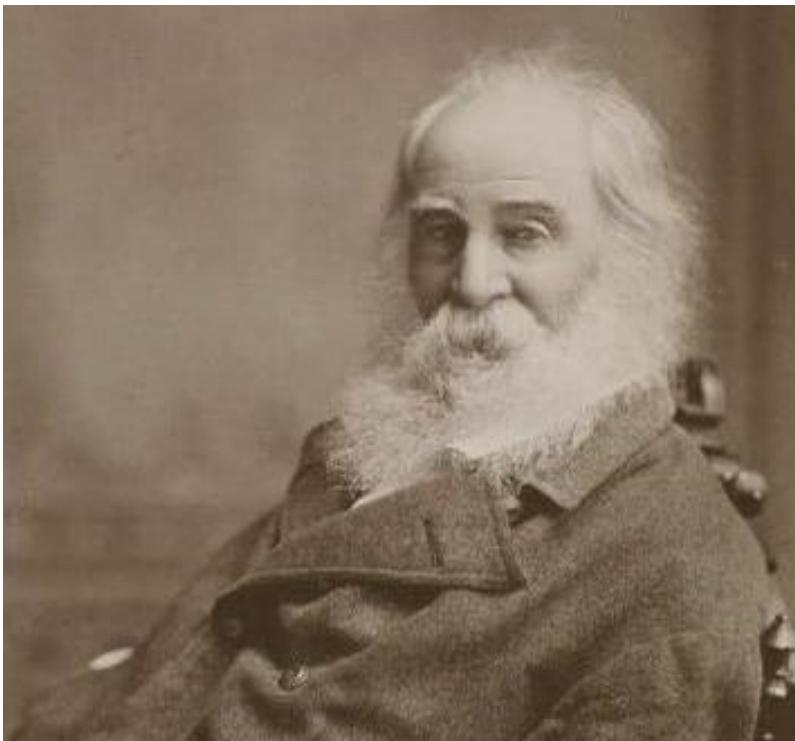


Letters to Lincoln



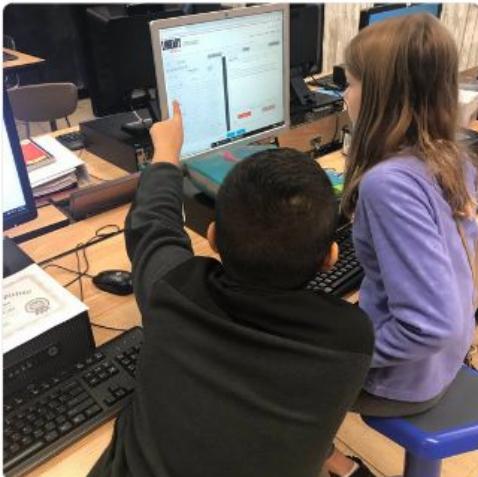
Mary Church Terrell: Advocate for African Americans and Women

Whitman, suffrage, & more



In the classroom

6th graders loved transcribing for the @librarycongress through @Crowd_LOC - really brought primary sources to life, and they thought it was so cool to actually get to preserve the nation's history.



Mrs. Flaherty @RooseveltLib Mar 20

The Black Experience class with @ms_nmb is transcribing some primary sources of Mary Church Terrell for the @Crowd_LOC to celebrate Women's History and make learning history accessible for all! #KentRiderPride



LOC Crowdsourcing @Crowd_LOC · 17 Dec 2018

A @Georgetown Lincoln History class shares #LettersToLincoln insights, including complexities of 19th c. politicking and trash talk. Which Lincoln rival was alternately described as "weak", "lame" and full of "chicanery"? go.usa.gov/xEcYc



By the People by the numbers

In 8 months:

- ✓ 4,600 registered users
- ✓ 15,000 actions by anonymous users
- ✓ 35,000 pages transcribed and awaiting review
- ✓ 16,000 pages complete
- ✓ 5,000 transcriptions published on loc.gov

Engaging & forging connection



Henry M. Rosenberg @DoctorHenryCT · 13 Nov 2018

It's very rewarding to know I am contributing to preserving history.



1



1



3



Beth Graham @zagraham · 13 Nov 2018

I feel exactly the same way. A bonus is that I'm personally learning so much about U.S. history.



Christian Mobley @Mo... 10 Dec 2018

Replies to @Crowd_LOC

I have been transcribing today to help keep my mind off of the chronic pain I am having. I enjoy doing the long letters and difficult ones.



1



Kristina Killgrove @DrKillgrove

My 9yo is ridiculously excited to help the @librarycongress transcribe records from the Civil War. She's learning about the "Left Handed Penmanship" contest for veterans who lost use of their right hands.

Check it out at crowd.loc.gov!



Show this thread



1



1



13



Kristina Killgrove @DrKillgrove

Replies to @Crowd_LOC

I've also been doing the Lefthanded Penmanship Contest transcriptions, since I'm both left-handed and interested in disease and disability in the past. Your project is great, and now I'm going to see what other citizen-STEAM projects I can get my girls involved in.



Thank you!

Even more at
crowd.loc.gov

&

labs.loc.gov

Accelerating Innovation: Securing Water for Food Grand Challenge Model

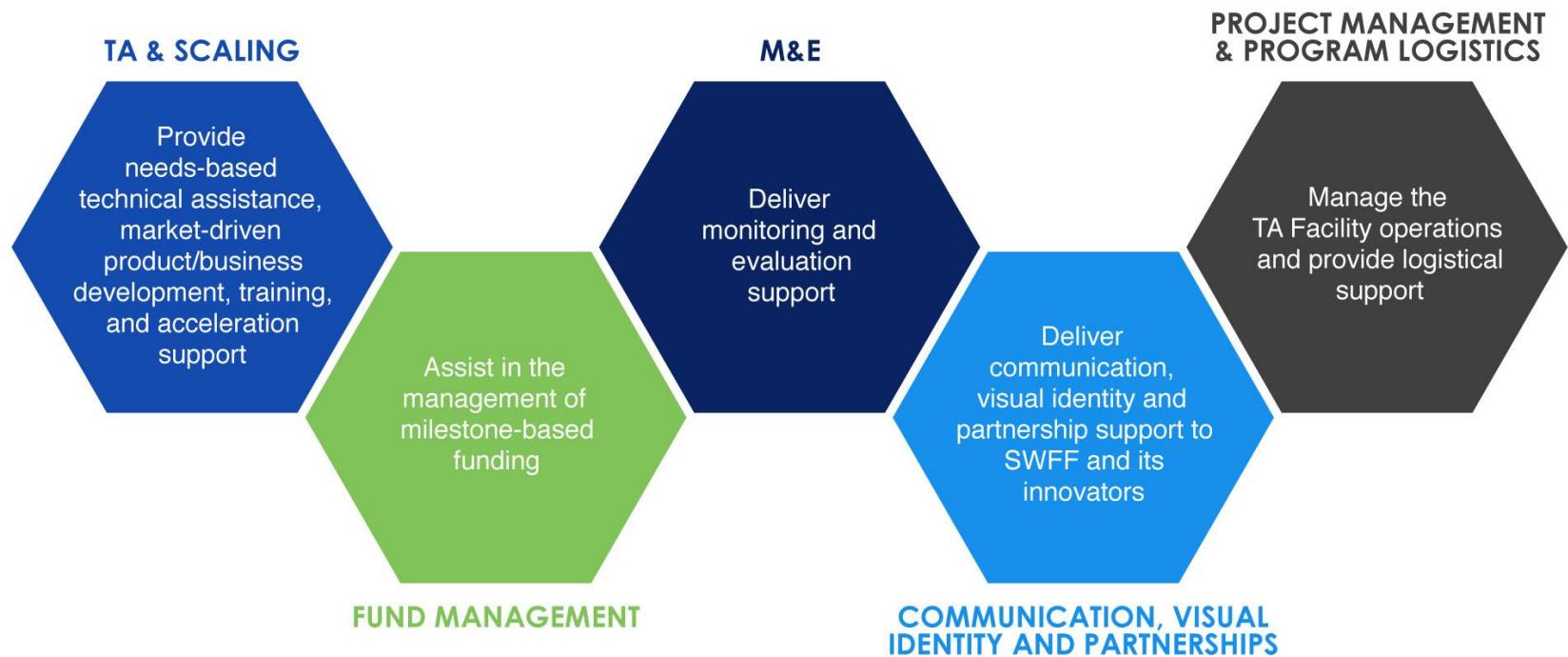
Ku McMahon, Ph.D.

Team Lead, Securing Water for Food, Center for Development Innovation

U.S. Global Development Lab, USAID



Technical Assistance Facility **Portfolios and Objectives**



Lesson Learned 1: Milestone-Based Funding + Acceleration Support



Lesson Learned 2: Capacity Building on Grants Management



Lesson Learned 3: Multi-Stakeholder Collaboration + Flexibility to Pivot



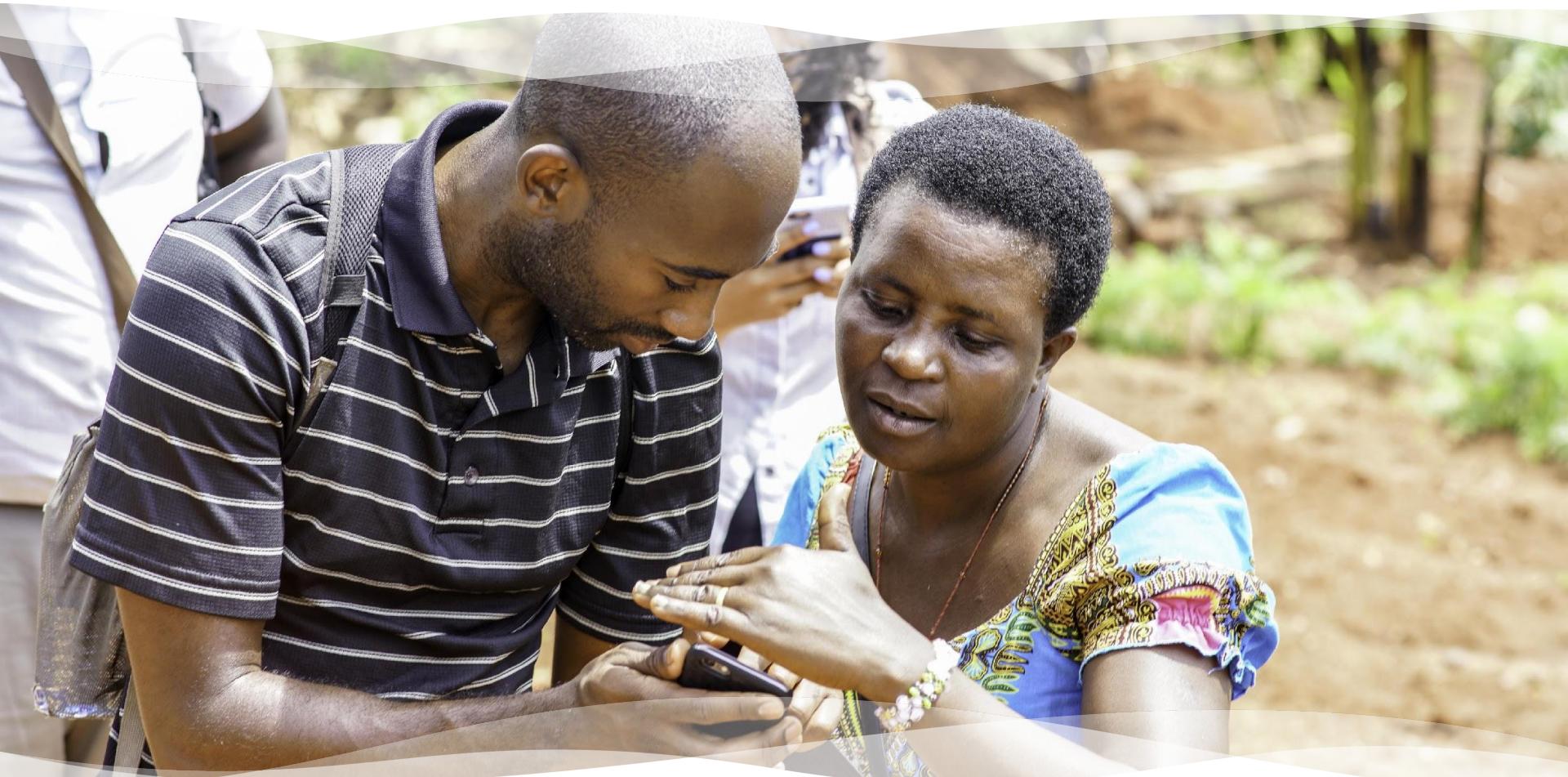
Lesson Learned 4: Creating a Viable Financial Model & Marketing Strategy



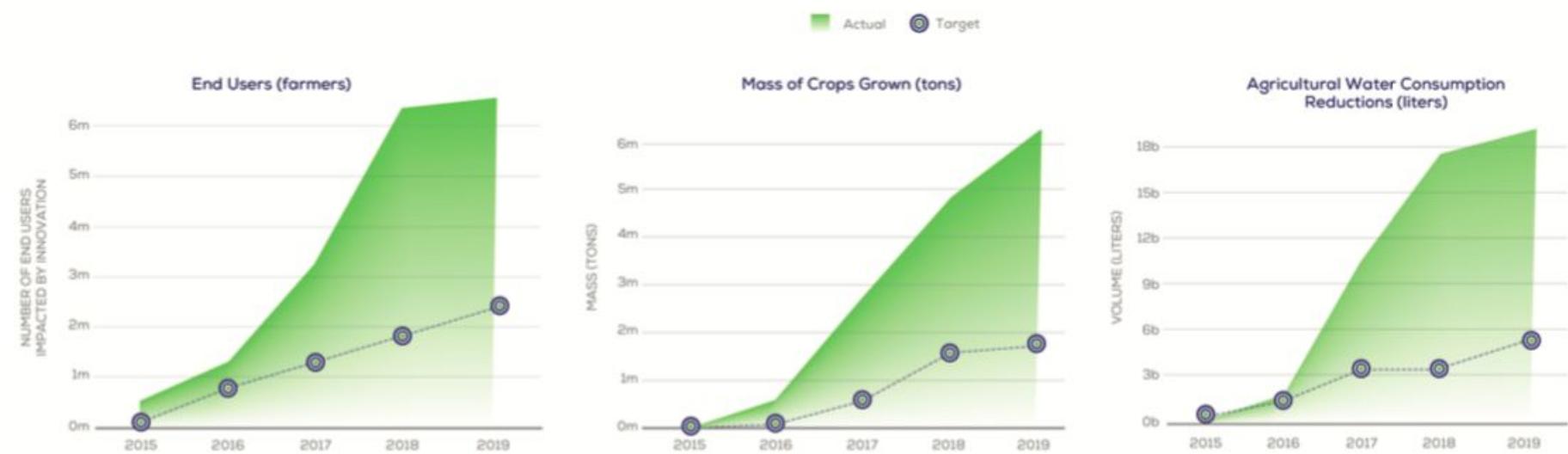
Before & After SWFF

	Before SWFF(<2017)	After SWFF (>2017)
Stage of growth	Start Up	Scale up
Management Tools	None	Sales & Marketing Strategy, Business Model & Financial Policies.
Management Structure	6 Employees	36 employees(Management &Board)
Number of Products	2 (Nutrients & Fodder)	6 (food crops,
Partners	1 (KCIC)	5 (KCV, Aqua for All, Via Water, Africa Funded & Climate Circle)
Branches	1 (Kenya)	3 (Rwanda,Burkina & Nepal)
Market Niche	1 (Kenya)	4(Kenya,TZ,Rwanda,UG & Somalia)
Number of Installations, water saved,yield and Hectares	3000. Water<150M, Yield<1Tonn, Hectares<1	6,000 Water 110M, Yield 2,500 tonnes, Hectares 3.5
Sales Increase	<250,000	>350,000 (40% Increase)
Profit Margin	8%	30%

Lesson Learned 5: Incorporating Design & Marketing Feedback from Women



Program Targets and Actual Impact



THANK YOU

Dr. Ku McMahan

lmcman@usaid.gov

www.securingwaterforfood.org

SECURING
WATER
FOR FOOD:
A GRAND CHALLENGE
FOR DEVELOPMENT

Questions?

Dr. Ku McMahan

lmcman@usaid.gov

www.securingwaterforfood.org

SECURING
WATER
FOR FOOD:
A GRAND CHALLENGE
FOR DEVELOPMENT



SECURING
WATER
FOR FOOD:
A GRAND CHALLENGE
FOR DEVELOPMENT

Closing Remarks

Jarah Meador, Ph.D.

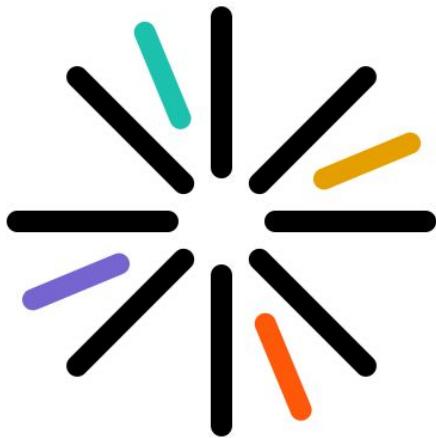
Director of Challenge.gov
and CitizenScience.gov

Office of Products and
Programs, General Services
Administration





THANK YOU!!



U.S. Government Open Innovation Summit

June 14, 2019

