



# International Open Government Data Conference

## Building a Blueprint for Collaboration— A Healthy Approach to Open Data

Kshemendra Paul, *Program Manager, Information Sharing Environment, Office of the Director of National Intelligence*

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# Unleashing the Power of Open Health Data to Improve Health

International Open Government Data Conference  
November 16, 2010

# Key HHS priority: “Data Liberacion”

WEDNESDAY, JUNE 30, 2010

## HHS.gov/Open

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### EXPLORE. ENGAGE. ENLIGHTEN.

Data Sets Tools Our Plan Discuss

Spotlight on

ClinicalTrials.gov : Linking Patients to Medical Research

Providing patients, family members, health care professionals, and members of the public easy access to information on clinical trials for a wide range of diseases and conditions. [More details...](#)

1 2 3 4 5

Home Data Sets Tools Our Plan FOIA Records Management Get Involved Discuss Leadership Contacts

### HHS's Open Government Plan: Version 1.1

Posted June 25, 2010 | Todd Park

I am very happy to announce the release of [version 1.1 of our Open Government Plan!](#)

It's an updated version of our Plan, reflecting comments and input we've gotten since the release of our initial Plan on April 7.

What's different about version 1.1? We've added more clarity, specificity, and depth of explanatory policy detail in multiple areas throughout the Plan. We've also included exciting updates on our work to

Share Your Ideas

Our Open Government Plan

Open Government Plan

# The Community Health Data Initiative (CHDI)

- **Vision:** to help improve health by creating a growing “ecosystem” of community health data supply and use – modeled on what NOAA has done with weather data

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

 **NOAA** NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION UNITED STATES DEPARTMENT OF COMMERCE

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[» NOAA In Your State](#)  
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**Weather**

NOAA's weather programs touch the lives of every American. Every day, decisions are made based on NOAA weather information – from the mundane "should I pack an umbrella today?" to the most critical and potentially life-saving.

With the mission to protect life and property, and enhance the United States' economy, NOAA's [National Weather Service](#) is the sole official voice of the U.S. government for issuing warnings during life-threatening weather situations.

Covering the sun to the seas, the National Weather Service provides local and regional forecasts, and emergency alerts for [severe storms](#), [tornadoes](#), [hurricanes](#), [floods](#), [extreme heat](#), [winter storms](#), [fire threats](#), [tsunamis](#) and [solar flares](#). From its [national centers](#) to its 122 [Weather Forecast Offices](#) and 13 [River Forecast Centers](#), the National Weather Service is watching over the nation and your neighborhood.

**Related Links**

[» Past Weather Information](#)  
[» NOAA Weather Radio ALL HAZARDS](#)  
[» StormReady/TsunamiReady Community Program](#)

  
[Click for Current Weather Warnings](#)

Weather and climate sensitive industries in the United States account for about one-third of the nation's Gross Domestic Product. [Marine](#), [aviation](#) and [space](#) interests rely on National Weather Service information, alerts and warnings. In addition, NOAA has a responsibility to support the growth of an environmental information enterprise, a [partnership](#) between government, academia and the private sector.

# On March 11, we laid out an aggressive vision for the Community Health Data Initiative

## Description

- Provide a major infusion of free, easily accessible community health data from the government, the private sector and public crowd sourcing

Release Data

## Sample Participants



INGENIX

Build Applications

- Encourage innovators to build applications across an array of high-potential uses of the data (e.g., maps, dashboards, search engine tools, games)

Microsoft

Google



Palantir



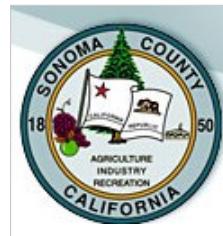
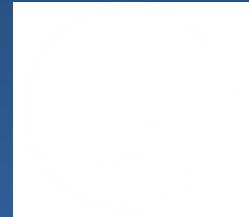
HEALTHWAYS

Catalyze Change

- Via these applications, increase awareness of community performance, spark action from consumers and decision makers, and help improve health



# What happened next: publication of HHS data + an explosion of innovation



# 90 days later: a stunning array of apps, built by private sector innovators, showcased on June 2

The collage illustrates a variety of mobile health and data visualization applications:

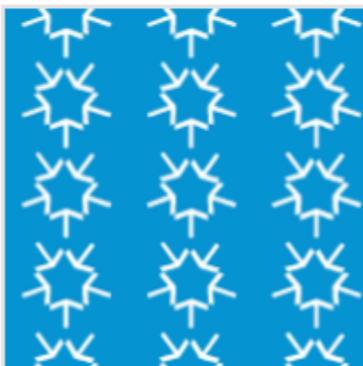
- Sonoma County Network of Care™**: A screenshot of a mobile application interface titled "Community Dashboard". It features a green and yellow header with the text "Sonoma County Network of Care™". Below the header, there are several icons and sections, including a "Share" button and a "Google fusion Hospital I" search interface.
- bing Web**: A screenshot of the Bing search results page for "New York Presbyte". The results list includes "Hospital Address", "Hospital Jobs", "Hospital Cornell", "Hospital InfoNet", "Hospital Employme", "Columbia Presbyte", "Hospital New York", "Doctors New York", "Presbyterian Hospit", and "Mercy Medical Ce NY". Categories like "Health", "Economy", "Education", "Government & Politics", "Natural Environment", "Public Safety", and "Social Environment" are also listed.
- New York 100-10**: A screenshot of a mobile application interface titled "New York 100-10". It shows a navigation bar with icons for clouds, people, and a person in a wheelchair. Below the bar, there is a text box containing the text: "Inhalers use GPS to anonymously track time and location of use..." followed by a horizontal line.
- ASTHMAPOLIS**: A screenshot of a mobile application interface titled "ASTHMAPOLIS". It features a logo consisting of blue dots forming a globe-like shape. Below the logo, the text "...aggregating to identify outbreaks and aid in treatment of patients" is displayed. To the right, there is a map of a coastal area showing numerous colored dots representing patient locations, with a histogram at the bottom showing "January 2009" data.
- Google**: A screenshot of the Google search interface. The word "Google" is prominently displayed in its signature blue, red, yellow, and green colors. Below the search bar, there is a small note: "help offset the massive cos public health system :P".
- Map**: A screenshot of a map showing the New York City area, specifically Jersey City, Hoboken, and surrounding regions. Major roads like Interstate 1, Interstate 78, and Interstate 278 are labeled. The map includes a callout bubble with the text "Quiet at night. 40%".

# Also launched on June 2: the Health 2.0 Developer Challenge at [www.Health2Challenge.org](http://www.Health2Challenge.org)



[About](#)   [Challenges](#)   [Teams](#)   [People](#)   [Resources](#)   [LIVE CODE!](#)   [Partners](#)   [Sponsor](#)   [Gallery](#)   [In the News](#)   [Blog](#)

## Teams



### Health Conscious

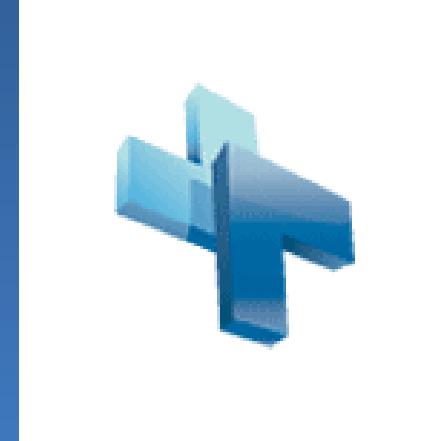
- San Jose
- Challenges Accepted: [Developer's Challenge for Consumer Apps to Visualize Health Care Quality Measures](#)
- Team Status: [Looking for Members](#)
- [Health Conscious](#)



### RexMobi

- Challenges Accepted: [Why-Health ?!?! Challenge](#)
- Team Status: [Looking for Members](#)
- [RexMobi](#)

On October 7, sponsors of the first six challenges announced winning applications at Health 2.0



# Also on October 7: “Blue Button” formally launched by VA and HHS, expanding the scope of open health data to personal health data

UNITED STATES  
DEPARTMENT OF VETERANS AFFAIRS

VA Home My HealthVet VA Facility Locator About MHV Help FAQs Contact MHV Search: May 2010 Women's Health Month GO

HOME PERSONAL INFORMATION PHARMACY RESEARCH HEALTH GET CARE TRACK HEALTH MRV COMMUNITY SECURE MESSAGING

IN CASE OF EMERGENCY PROFILES ACCOUNT HEALTH INFORMATION CARD

Personal Information

My HealthVet (MHV) has made it easy to keep track of your Personal Information. MHV is all about you and your health. Part of your health journal is your identification. When you registered for My HealthVet, you entered important information about yourself. This find it, along with other important facts like your login information, blood type and emergency contacts.

In Case of Emergency My Profile Download your data My Account Change password

Keep your emergency contacts in one place... More > View My Links Information (self-entered)

MyMedicare.gov The Official U.S. Government Site for Medicare

Welcome, Chris Smith | Sign Out Search FAQ

[3] Messages My Account

Live Help Print ? Help Español AA

Home Claims Plans & Coverage My Health My MSP

On The Go Report

Home > Breadcrumb > Breadcrumb > Breadcrumb

Download My Data

On The Go Report: John Owen

**Personal Profile**

Name:	Nancy Hoyle	Date of Birth:	11/23/48	Part A Effective Date:	6/12/2000
Address:	1234 Main Street Baltimore MD, 21244	Gender:	Female	Part B Effective Date:	6/12/2000
Home Phone:	410-123-3456	Weight:	190lbs		
Email Address:	sample@email.com	Blood Type:	AB+		

**Recent Plan Changes**

Primary Insurance XYZ expired on 01/22/2010

**Emergency Contacts**

Name:	Nancy Hoyle	Name:	Nancy Hoyle
Address:	1234 Main Street Baltimore MD, 21244	Address:	1234 Main Street Baltimore MD, 21244

**Downloads to date: over 100,000**

HHS is committed to fueling the emerging “open health data” ecosystem – with ever more data...

## Additional HHS Data Commitments

- 1 New HHS Health Indicators Warehouse, announced 6/2010 and launching 12/2010 – and to be made available via both a website and web services API**
- 2 Provider COMPAR E APIs ([data.medicare.gov](http://data.medicare.gov)), National Library of Medicine API portal: launched 9/2010**
- 3 Insurance product data from HealthCare.gov: coming soon**
- 4 Continuously expanding inventory of HHS data put online, for free download/access ([Data.gov](http://Data.gov), [hhs.gov/open](http://hhs.gov/open), HHS Open Government Plan)**
- 5 *HEALTHDATA.GOV*, new community on Data.gov dedicated to health data and its use -- coming 12/2010**

... and through work as a facilitator and catalyst

- **Annual Open Health Data forum (June 2011)**, convened with the Institute of Medicine
- Continued support of challenges via **Health2Challenge.org**
- Upcoming **Health Data Journalism workshop**
- Continuous work to **actively market our data to innovators** who can turn it into useful applications and services that help consumers, providers, employers, community leaders, etc. make better decisions and get better results (e.g., DC2VC)

The goal: a self-propelled ecosystem of health data supply and use that creates escalating benefit and value

- Example: expansion of **Network of Care for Healthy Communities** to additional counties across the U.S.
- Example: **Health 2.0 developer network (350+ developers)**, already beginning to be leveraged by startups
- Example: **Doximity**, new startup by the co-founder of Epocrates
- Example: **Microsoft integration of Community Health Data Initiative data into Azure/Amalga**
- Example: the emerging “**Blue Button**” ecosystem

# A Data-Driven Approach to the Information Sharing Environment

Kshemendra Paul

Program Manager, Information Sharing Environment



November 16, 2010



# Open Government Accelerates Transformation

**Data.gov Concept of Operations**

Office of E-Government and Management

Office of Management and Budget

E-GOV

CIO Council

Powered by the Federal Chief Information Officer

GSA

Version 1.0

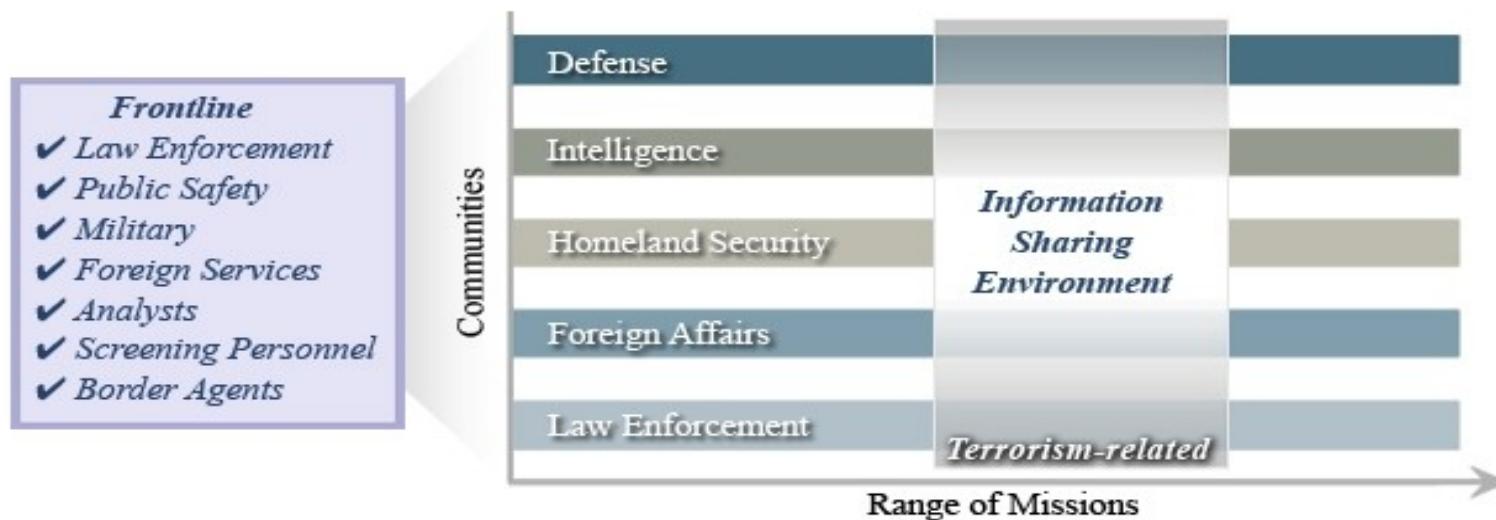
**ISE**  
INFORMATION SHARING ENVIRONMENT

Annual Report to The Congress  
Prepared by the  
Program Manager, Information Sharing Environment  
July 2010

**Applying Data-Driven  
Government to the  
Counter Terrorism and  
Homeland Security Mission**



# Stakeholders & Mission



- Information Sharing Environment (ISE) spans across USG Agencies; State, Local, and Tribal Governments; Private Sector ; and International Allies (Mission Partners).
- ISE Enables Mission Partners to Share, Discover, Fuse, & Deliver Terrorism-related Information<sup>1</sup> to support the frontline.
- PM-ISE's Mission is to Plan, Oversee (Mission Partner) Building, and Manage the ISE.

<sup>1</sup>Section 1016 of the Intelligence Reform and Terrorism Prevention Act of 2004 (IRTPA), P.L. 108-485, § 1016, 118 Stat. 3638, 3664 (2004), as amended by the Implementing the Recommendations of the 9/11 Commission Act of 2007, directs the ISE to improve the sharing of terrorism and homeland security information. The IRTPA definition, as amended, encompasses all terrorism-related information "collected, produced, or distributed by intelligence, law enforcement, military, homeland security, or other activities", and includes weapons of mass destruction information. For brevity, these types of information are collectively referred to as "terrorism-related" information.



# Baseline National ISE Strategy

## Building Beyond the Foundation to Accelerate Delivery of the ISE:

- ISE strengthens Whole of Government for the counter-terrorism mission
- Mission Partners are centers of excellence, building, operating, and using the ISE
- Open the Aperture to the totality of Terrorism-Related Information Sharing
- Leverage Industry via **standards-based innovation**:
  - Functional & technical standards
  - FAR clauses and grant conditions
- Net-centric approach enables partner action:
  - Align common mission processes
  - Share tech-enabled capabilities
- Focus on data creates value through reuse:
  - Timely discovery through federated, inter-operable indices & cross-linking
  - Identity mgmt, authorized use (automated policy enforcement & audit)



# Current Priorities

004166

THE WHITE HOUSE  
WASHINGTON  
July 23, 2010

MEMORANDUM FOR THE DEPUTY SECRETARY OF STATE  
THE DEPUTY SECRETARY OF THE TREASURY  
THE DEPUTY SECRETARY OF DEFENSE  
THE DEPUTY ATTORNEY GENERAL  
THE DEPUTY SECRETARY OF THE INTERIOR  
THE DEPUTY SECRETARY OF AGRICULTURE  
THE DEPUTY SECRETARY OF COMMERCE  
THE DEPUTY SECRETARY OF HEALTH AND HUMAN SERVICES  
THE DEPUTY SECRETARY OF HOUSING AND URBAN  
DEVELOPMENT  
THE DEPUTY SECRETARY OF TRANSPORTATION  
THE DEPUTY SECRETARY OF ENERGY  
THE DEPUTY SECRETARY OF HOMELAND SECURITY  
PRINCIPAL DEPUTY DIRECTOR OF NATIONAL  
INTELLIGENCE  
DIRECTOR, FEDERAL BUREAU OF INVESTIGATION  
VICE CHAIRMAN, JOINT CHIEFS OF STAFF  
ARCHIVIST OF THE UNITED STATES, NATIONAL ARCHIVES  
AND RECORDS ADMINISTRATION

SUBJECT: FY 2012 Programmatic Guidance for Information  
Sharing Environment (ISE)

The Administration is committed to improving the Information Sharing Environment by better coordinating policies, business processes, and systems supporting national counterterrorism efforts. This collaborative effort is crucial to ensuring those responsible for combating terrorism have access to, and are able to process, all relevant information in a timely and accurate manner.

Based on Presidential guidance, we will continue our commitment to information sharing among our Federal, state, local, and tribal governments and private sector partners through the following Fiscal Year (FY) 2012 ISE priorities:

- Building a National Integrated Network of Fusion Centers
- Continuing Implementation of the Nationwide SAR Initiative (NSI)
- Establishing SBU/CUI Network Interoperability
- Improving governance of the classified National Security Information Program
- Advancing Implementation of CUI Policy



# Sharing Data While Protecting Privacy



EXECUTIVE OFFICE OF THE PRESIDENT  
OFFICE OF MANAGEMENT AND BUDGET  
WASHINGTON, D.C. 20503

November 3, 2010

M-11-02

- Performance Measures
- Information Sharing

## MEMORANDUM FOR THE HEADS OF EXECUTIVE DEPARTMENTS AND AGENCIES

FROM:

Jeffrey D. Zients  
Deputy Director for Management

Cass R. Sunstein  
Administrator, Office of Information and Regulatory Affairs

SUBJECT:

Sharing Data While Protecting Privacy

The judicious use of accurate and reliable data plays a critical role in initiatives designed to increase the transparency and efficiency of Federal programs and to enhance our capacity to gauge program effectiveness. Sharing data among agencies also allows us to achieve better outcomes for the American public through more accurate evaluation of policy options, improved stewardship of taxpayer dollars, reduced paperwork burdens, and more coordinated delivery of



# CASE STUDY: SBU/CUI Interoperability

Interconnecting existing SBU/CUI networks and services spread across the 5 ISE Communities empowers the frontline to integrate their efforts and strengthen national capacity in support of a Whole of Government approach to counterterrorism.

[Skip to content](#)

## SBU-USER-REQUIREMENTS

[Register | Sign In](#)



Recently an online discussion was conducted directly with LEO, RISSNET, Intelink-U and HSIN users. In that online discussion users were presented with some questions about how they perform their mission and asked to provide comments and feedback. Users were also asked to submit new ideas for ways to improve interoperability between the systems they rely on for information. Hundreds of ideas and comments were received. From these inputs, user requirements were derived and distilled into nine (9) categories. Direct user input is again being solicited to review the derived requirements and determine whether they reflect, with fidelity, the inputs from which they were derived.

Please review the categories and the requirements within each category. If a derived requirement is incorrectly stated, please submit a comment. If a significant requirement is not captured please submit a new idea. Vote on the requirements you deem to be your highest priority. Once the requirements are validated, they will be incorporated into a user requirements document that will be input to system interoperability planning.

It would be best if you scroll down and use the category list on the left to proceed to the list of requirements. All ideas below are listed by rank which is being determined by the number of votes.



Rank	Requirement	Votes
1	Requirement 1	200
2	Requirement 2	180
3	Requirement 3	160
4	Requirement 4	140
5	Requirement 5	120



# CUI Network Inter-operability Results

## Successes

- Gathering and Documenting CUI User Requirements
- Improving Network Usability for Frontline Personnel
- Sharing User and Service Directories
- Improving Access to Help Desks

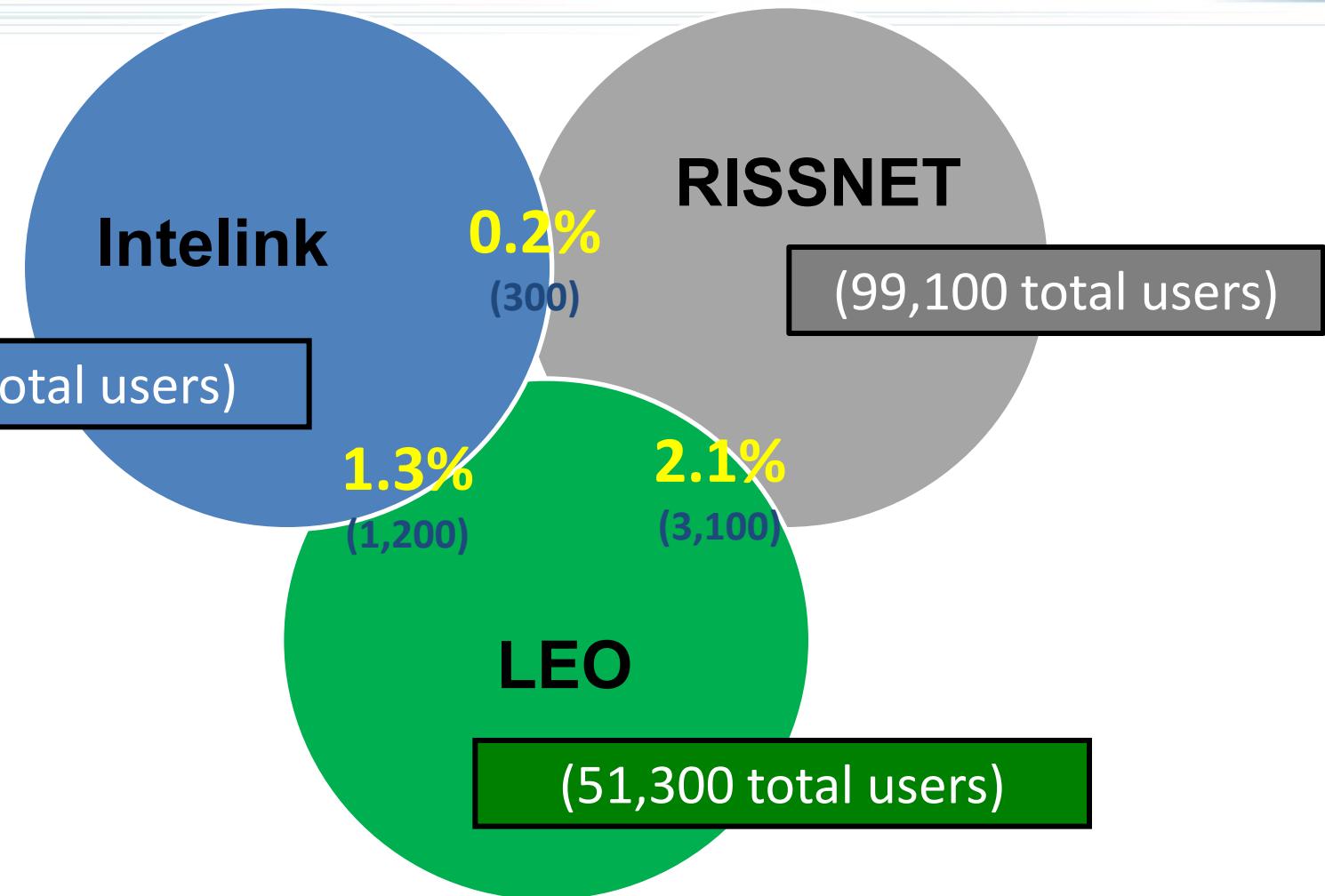
## Upcoming Focus Areas

- Identity and Access Management
- Audit
- XMPP
- Extending the SBU Environment to new partners
- Geospatial

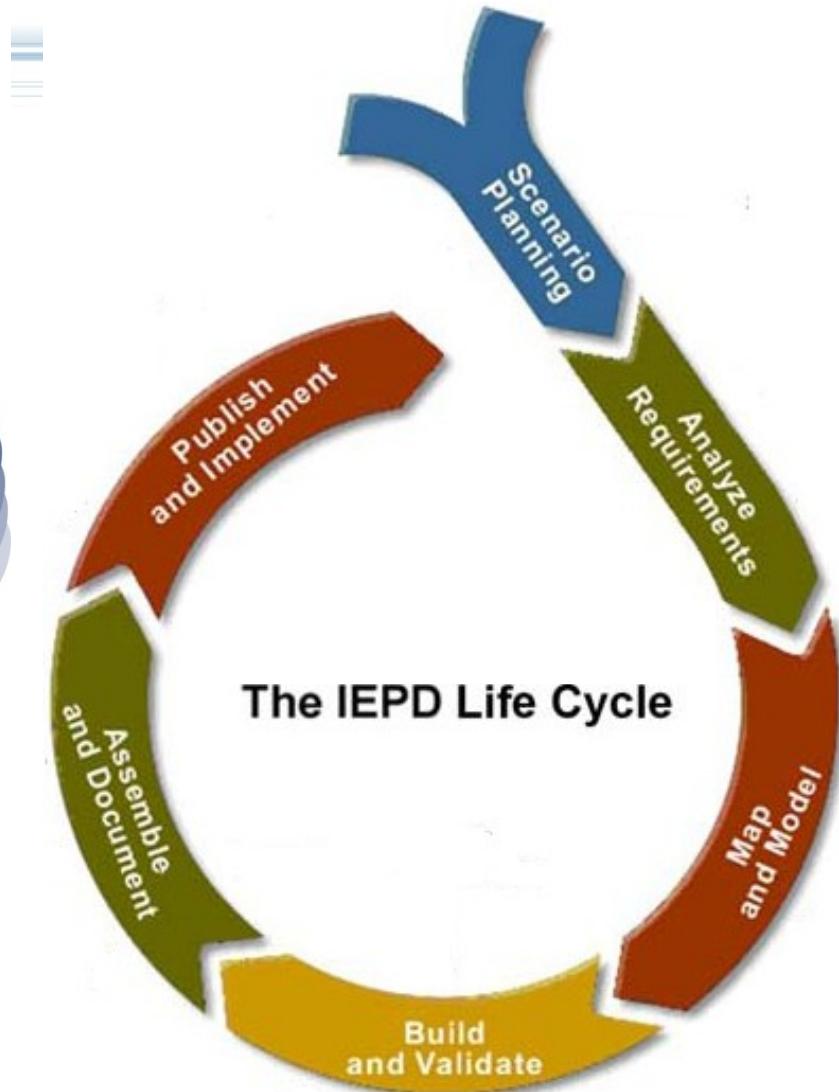
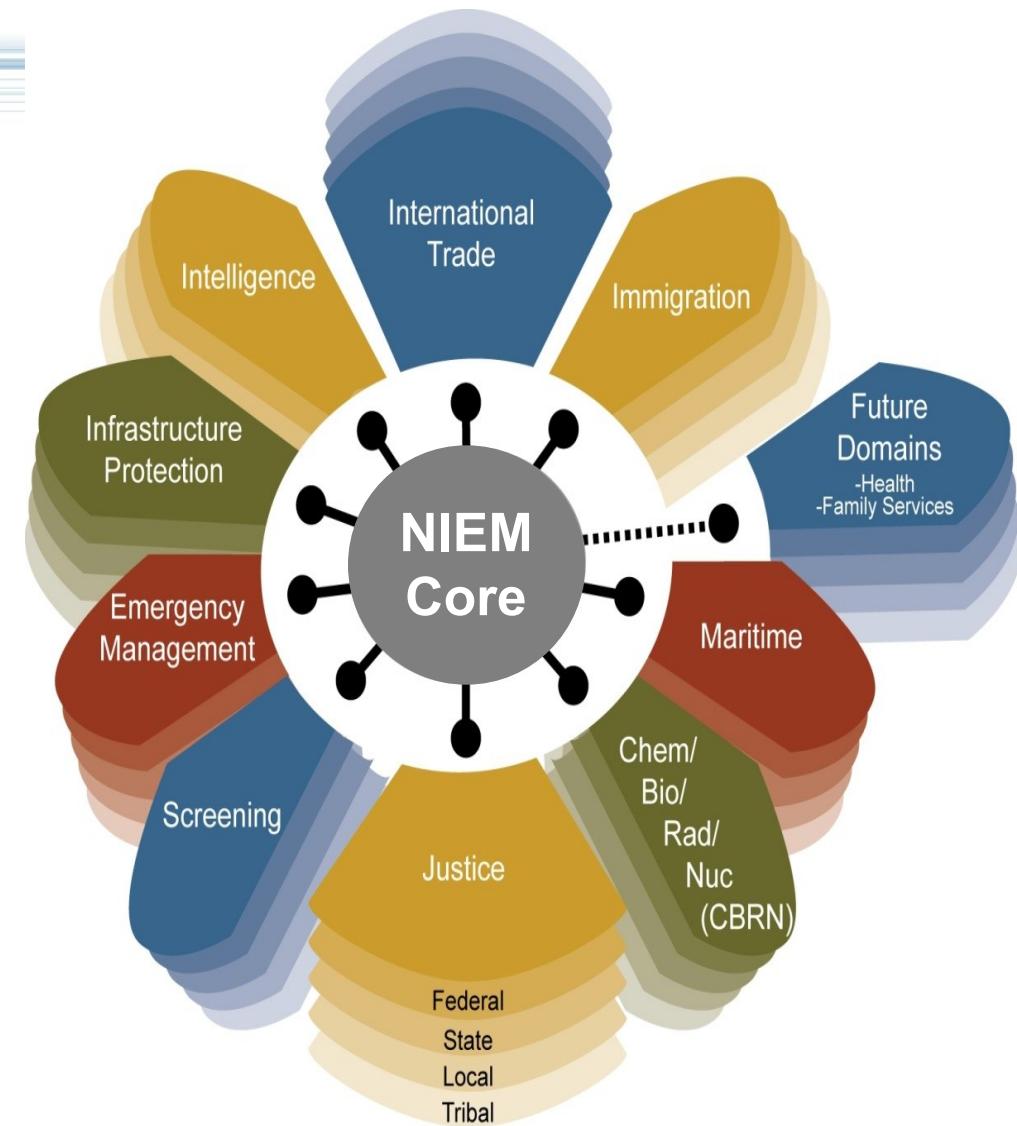


# CASE STUDY

## SBU User Account Overlap: *Actual Results*



# Case Study 2: National Information Exchange Model





1. Functional Standards (NIEM IEPDs)
2. Tools
3. Data Portability/Cloud Computing
4. Business Analytics



An Official Website of the United States Government

Tuesday, November 09, 2010 | Text -A A +A | SHARE

Information Sharing Environment  
Empowering the Frontline by Enhancing Information Sharing & Access

Mission Processes Core Capabilities Enablers Mission Partners

Get Email Updates | Contact Us

## Cargo Screening



Every year almost 250 million tons of cargo crosses our Nation's land borders or arrives at air and seaports.... *read more*

■ ■ ■

### ISE SPOTLIGHT

Centers of Excellence building out the ISE

Friday, October 29, 2010 Report from the 2010 Annual IACP Meeting Administration Officials Stress Importance of State, Local and Tribal Law Enforcement Partnerships [Click Here](#)

Friday, October 08, 2010 IN CASE YOU MISSED IT: The ISE Event at CSIS On October 5, CSIS hosted a working session on Accelerating the Delivery of the ISE. Hear a one-on-one interview with the PM, and download videos and transcripts from the day. [Click here](#)

### Most Popular

Nationwide SAR Initiative (NSI)

Core Awareness Training

The ISE Blog

Law Enforcement Information Sharing

State and Major Urban Area Fusion Centers

SEARCH ISE

### Information Sharing Environment Career Opportunities

### Message From The Program Manager

### Information Sharing Today 2010 ISE Annual Report Delivered to Congress

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