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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*

Todd Park, *Chief Technology Officer, Office of the Secretary, U.S. Department of Health and Human Services*

Keith Thurston, *Assistant Associate Administrator for Electronic Government, OCSIT, U.S. GSA (Moderator)*



Unleashing the Power of Open Health Data to Improve Health

International Open Government Data Conference
November 16, 2010

Key HHS priority: “Data Liberation”

The screenshot shows the HHS.gov/Open website interface. At the top left, there is an American flag icon and the date "WEDNESDAY, JUNE 30, 2010". The main header features the "HHS.gov/Open" logo in white and orange. To the right of the logo is a search bar with a "Search" button. Below the search bar are icons for font size adjustment, a printer, an email icon, and an "OPEN GOV" button. The main content area is divided into two sections. On the left, under the heading "EXPLORE. ENGAGE. ENLIGHTEN.", there are four blue boxes with icons and labels: "Data Sets" (magnifying glass over books), "Tools" (wrench and screwdriver), "Our Plan" (document icon), and "Discuss" (speech bubble with exclamation mark). On the right, a "Spotlight on" section features a photograph of a doctor and a patient. The text reads: "ClinicalTrials.gov : Linking Patients to Medical Research" and "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...". Below the spotlight is a navigation bar with numbered tabs 1 through 5. A yellow navigation bar at the bottom contains links: Home, Data Sets, Tools, Our Plan, FOIA, Records Management, Get Involved, Discuss, and Leadership Contacts. The main content area below the navigation bar features a post titled "HHS's Open Government Plan: Version 1.1" by Todd Park, dated June 25, 2010. The post text states: "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". To the right of the post is a yellow button with a lightbulb icon and the text "Share Your Ideas". Below this is a yellow box titled "Our Open Government Plan" with a small image of the plan document.

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



The screenshot displays the NOAA website's 'Weather' section. At the top, a navigation bar includes links for NOAA HOME, WEATHER, OCEANS, FISHERIES, CHARTING, SATELLITES, CLIMATE, RESEARCH, COASTS, and CAREERS. The NOAA logo and the text 'NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, UNITED STATES DEPARTMENT OF COMMERCE' are prominently featured. Below the header, there are links for 'About NOAA', 'Contacts', 'Staff Directory', and 'Help', along with a search bar. The main content area is titled 'Weather' and contains several paragraphs of text. The first paragraph states that NOAA's weather programs touch the lives of every American, from mundane decisions to life-saving warnings. The second paragraph describes the mission to protect life and property, highlighting the National Weather Service as the official voice of the U.S. government for issuing warnings. The third paragraph details the services provided, including local and regional forecasts and emergency alerts for severe storms, tornadoes, hurricanes, floods, extreme heat, winter storms, fire threats, tsunamis, and solar flares. A fourth paragraph notes that weather and climate sensitive industries account for about one-third of the nation's Gross Domestic Product, and that NOAA supports the growth of an environmental information enterprise through a partnership between government, academia, and the private sector. On the left side, there is a 'Weather.gov Forecast' section with a search box for 'City, ST' and a 'GO' button. Below this are several links: 'Active Weather Alerts', 'NOAA Organizations', 'Working With NOAA', 'Media & Constituents', 'NOAA In Your State', 'Budget Information', and 'Emergency Information for NOAA Employees'. At the bottom left, there is a 'Related Links' section with links for 'Past Weather Information', 'NOAA Weather Radio ALL HAZARDS', and 'StormReady/TsunamiReady Community Program'. A map of the United States is shown in the bottom center, with a link to 'Click for Current Weather Warnings'. On the right side, there is a yellow square icon with white clouds.

NOAA HOME WEATHER OCEANS FISHERIES CHARTING SATELLITES CLIMATE RESEARCH COASTS CAREERS

NOAA NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
UNITED STATES DEPARTMENT OF COMMERCE

About NOAA Contacts Staff Directory Help **SEARCH**

Weather

Weather.gov Forecast
City, ST **GO**

- » **Active Weather Alerts**
- » [NOAA Organizations](#)
- » [Working With NOAA](#)
- » [Media & Constituents](#)
- » [NOAA In Your State](#)
- » [Budget Information](#)
- » [Emergency Information for NOAA Employees](#)

Related Links

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

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.

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.

[Click for Current Weather Warnings](#)

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

Release
Data

Description

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

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



Robert Wood Johnson Foundation

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

Sonoma County Network of Care™

Community Dashboard

Share



Health

Economy

Education

Government & Politics

Natural Environment

Public Safety

Social Environment

New York

10010

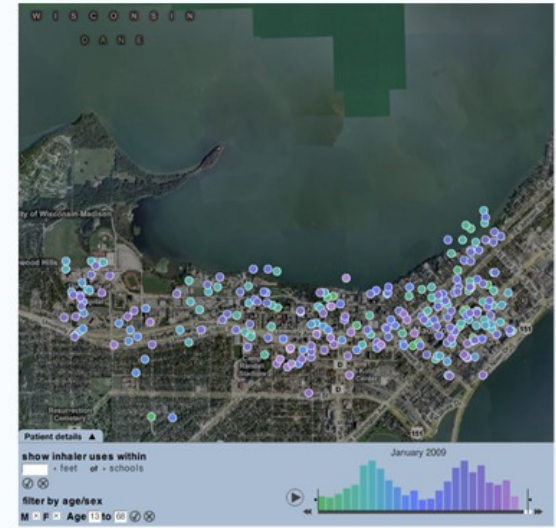


Inhalers use GPS to anonymously track time and location of use...



ASTHMAPOLIS

...aggregating to identify outbreaks and aid in treatment of patients



Google™

help offset the massive costs of a public health system. :P



Also launched on June 2: the Health 2.0 Developer Challenge at 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

MARKLE

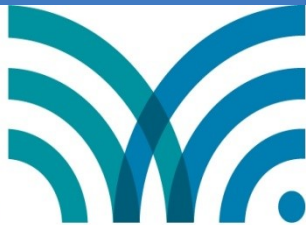
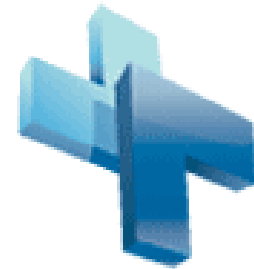
pioneer

Robert Wood Johnson Foundation



County Health Rankings

Mobilizing Action Toward Community Health



Gary & Mary

West Wireless Health Institute

snaptic



Move Your App!
Developer Challenge

pioneer

Robert Wood Johnson Foundation



CALIFORNIA
HEALTHCARE
FOUNDATION

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



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 COMPARE APIs (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, 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



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

Data.gov Concept of Operations

Office of E-Government Development
Office of Management and Enterprise Information

E-GOV

Powered by the Federal Chief Information Officer

GSA

Version 1.0

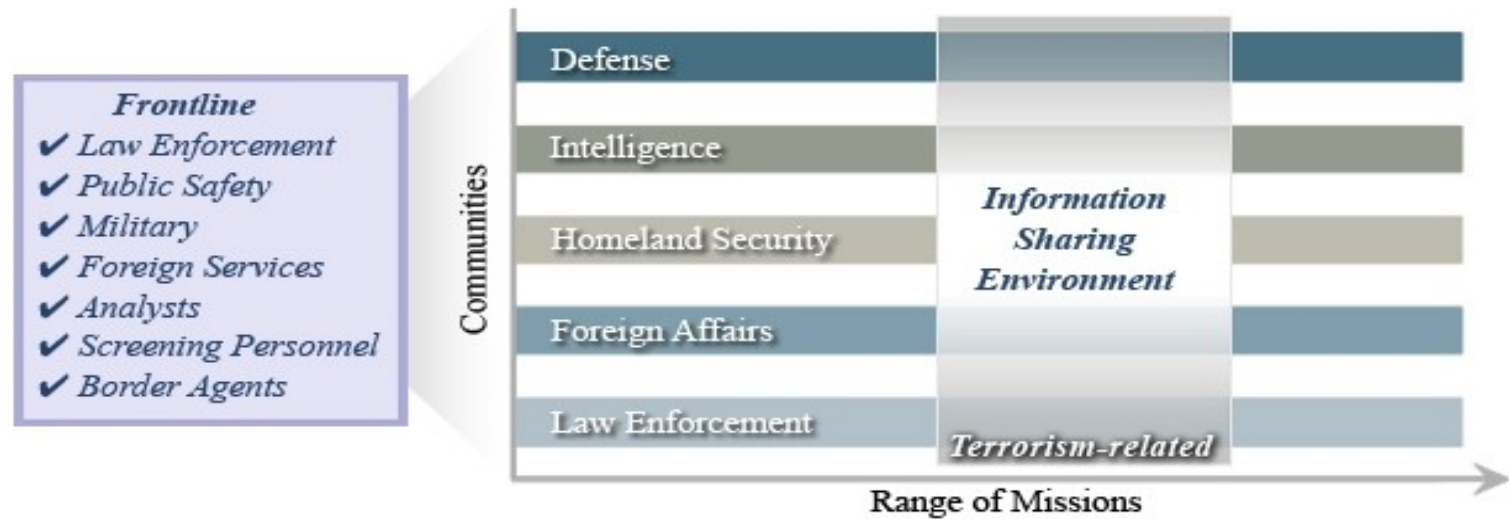
ISE
INFORMATION SHARING ENVIRONMENT

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

The image shows two overlapping document covers. The left cover is the 'Data.gov Concept of Operations' document, featuring the Department of Homeland Security seal, the Office of E-Government Development logo, and the GSA logo. The right cover is the 'ISE Information Sharing Environment Annual Report to The Congress' document, featuring the ISE logo and a collage of images related to homeland security and information sharing.



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 Information¹ to support the frontline.
- PM-ISE’s Mission is to Plan, Oversee (Mission Partner) Building, and Manage the ISE.

¹ 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

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

- Performance Measures
- Information Sharing

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](#) [Register](#) | [Sign In](#)


SBU-USER-REQUIREMENTS



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	Number of Votes
1	175



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

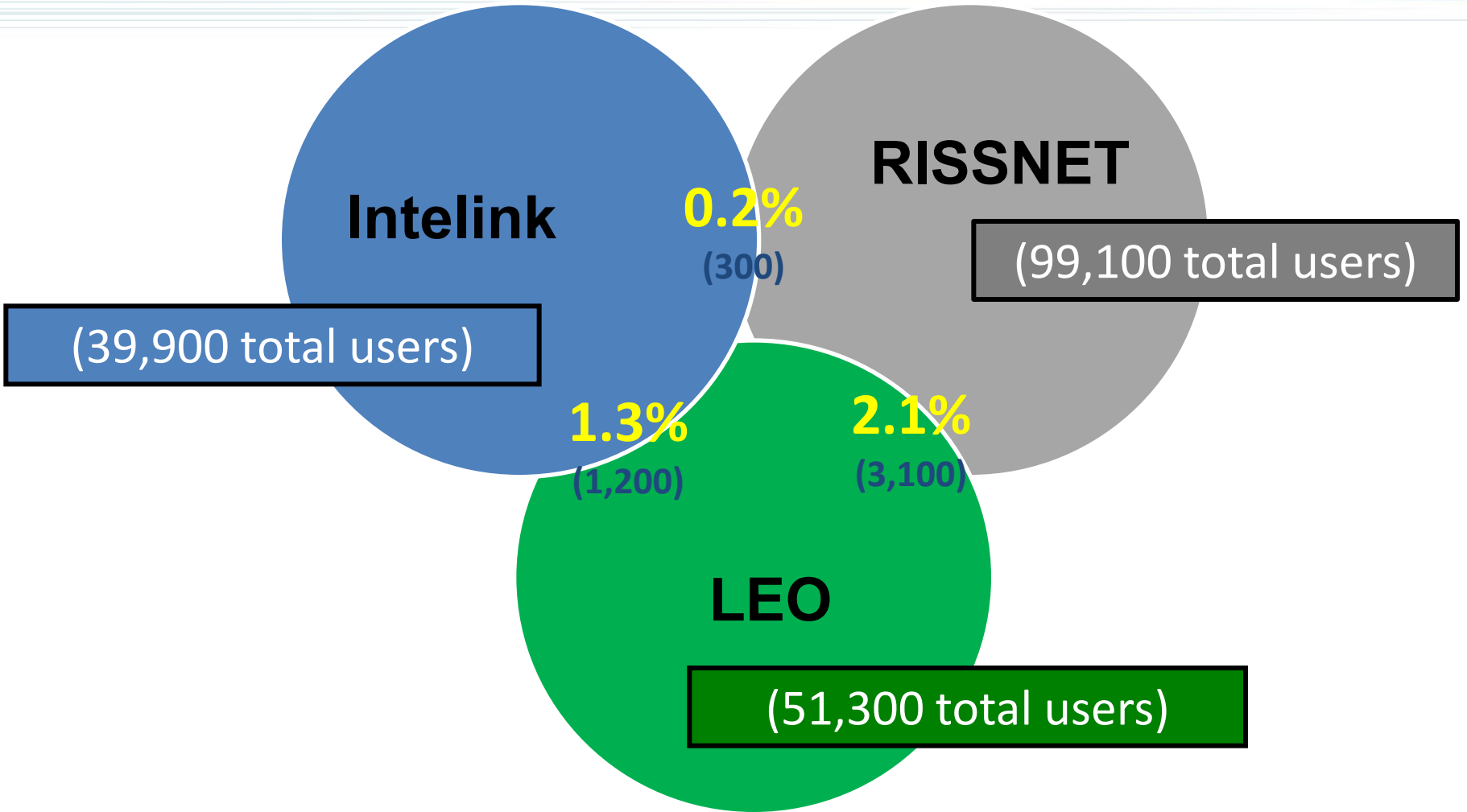
Upcoming Focus Areas

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

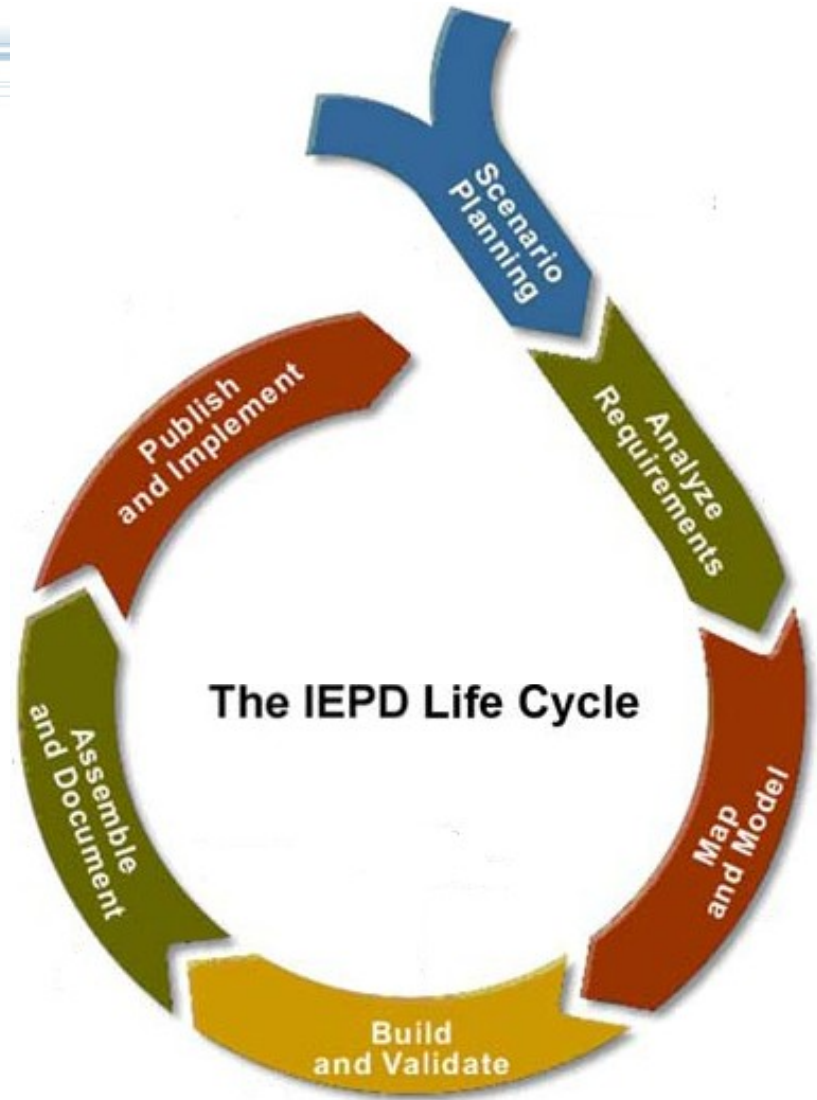
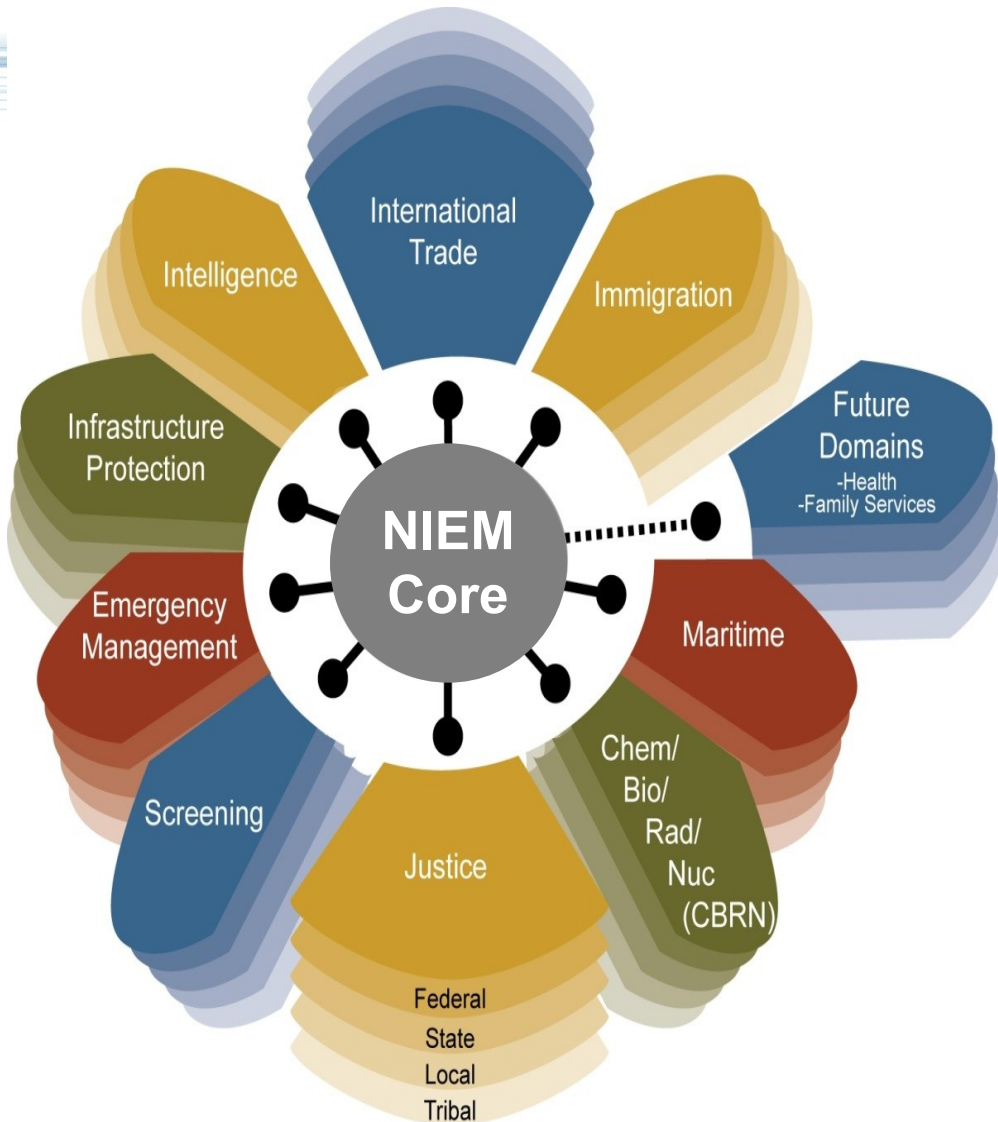


CASE STUDY

SBU User Account Overlap: *Actual Results*



Case Study 2: National Information Exchange Model





Standards-based Innovation

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

ISE

Get Email Updates | Contact Us

Mission Processes | Core Capabilities | Enablers | Mission Partners

Cargo Screening



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

■ ■ ■ ■

THE ISE BLOG

October 28, 2010
Travel Journal: The IACP Annual Conference, Orlando
Posted by Kshemendra Paul
I just returned from the 117th International Associations of Chiefs of Police (IACP) conference in Orlando, FL. The annual meeting brought together more than 13,000 law enforcement officials and...
[Learn More >](#)

October 19, 2010
"Standardization + Privacy = Everyone Wins"
Posted by Thomas O'Reilly, Director, Nationwide Suspicious Activity Reporting Initiative Program Management Office, Department

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

- Sign up for Email Alerts to get the latest on:
- National ISE Strategy
 - Open Government Dialogues
 - Information Sharing Blogs and News