

Update:

Information Sharing Environment (ISE) Standards Coordinating Council (SCC)

Presentation to National Geospatial Advisory Committee

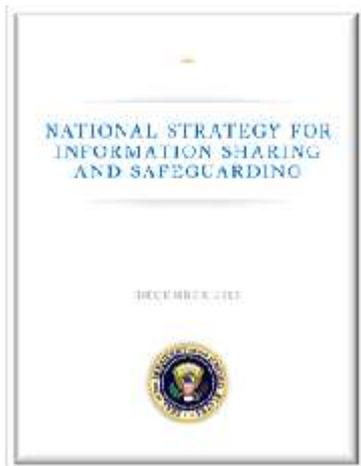
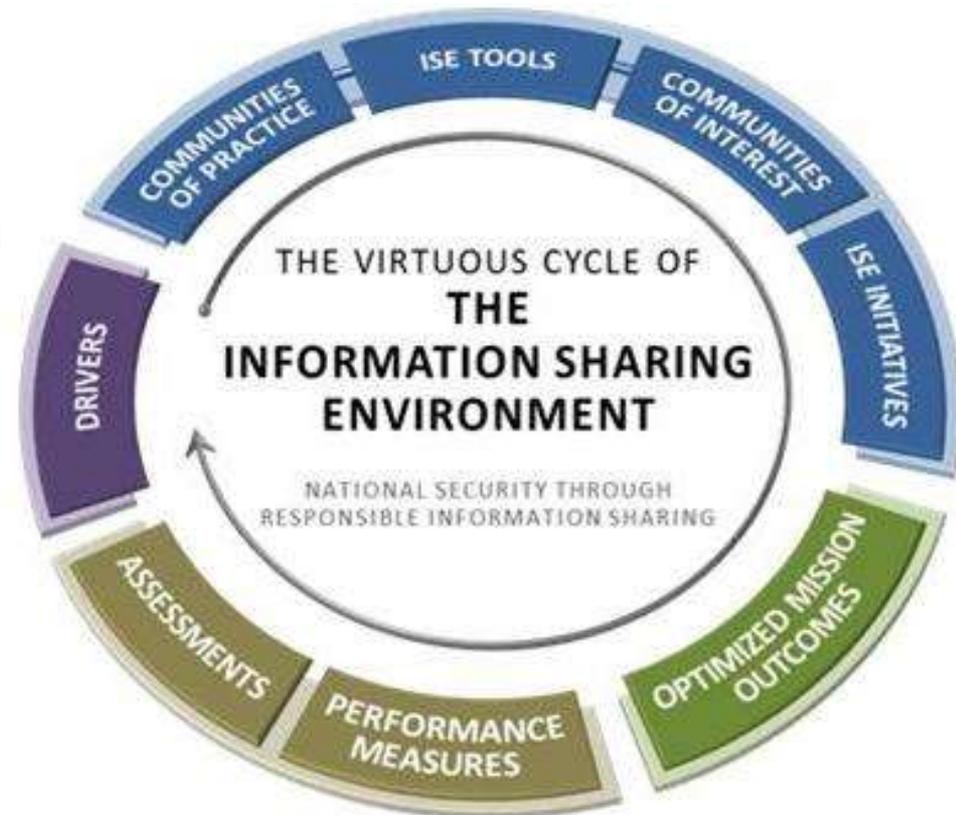
7 April 2016

NATIONAL STRATEGY FOR INFORMATION SHARING AND SAFEGUARDING



Principles:

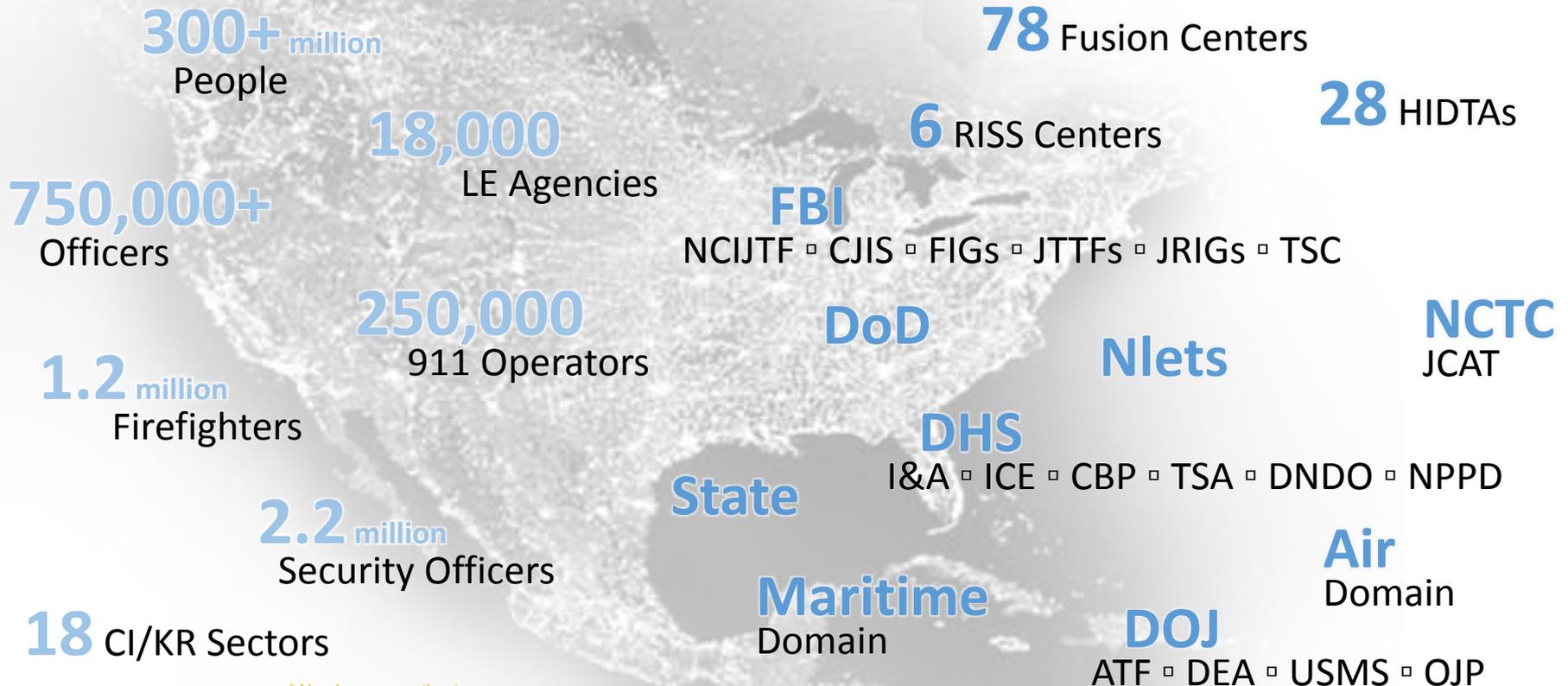
- Information as a national asset.
- Information sharing and safeguarding requ
- Information informs decision making.



NATIONWIDE CHALLENGES



Evolving & Converging Threats & Risks ↔ National Approaches to Interoperability
Collaboration Imperative ↔ Common Operating Models
Strengthening Legitimacy ↔ Consistent, Transparent & Distributed Policies
Enterprise Data Management ↔ Integrated Capabilities & Shared Services



* Numbers are estimates

Protection of Privacy, Civil Rights, and Civil Liberties

INFORMATION SHARING ENVIRONMENT (ISE) SCOPE



ISE GOVERNANCE MAP



SCC Scope

The Standards Coordinating Council (SCC) as a public / private partnership shall advise, and support the Program Manager of Information Sharing Environment (PM-ISE) by addressing needs for information sharing standards, enablers and issues related to information sharing.

- Operationalization and acceleration of the IS&S strategy;
- Advise on capabilities, standards and projects;
- Technology innovation via standards-based information interoperability architecture

See: <http://www.standardscoordination.org/>

SCC Objectives

- Serving as a forum for standards development organizations (SDOs), Industry and government partners to:
 - engage and coordinate standards development activities
 - to enhance communication, collaboration, and consensus between standards partners;
- Adoption of high value standards initiatives, owned and driven by SDOs and industry organizations, designed to advance information sharing;
- Enhance awareness of industry standards activities and establish a coordinated feedback channel from government to industry to help focus industry efforts.

STANDARDS COORDINATING COUNCIL



The Organization for the Advancement of Structured Information Standards

Standards Coordinating Council

Help us find out about:

- Information Sharing Standards
- The Standards Coordinating Council
- ISCC Information Sharing and Interoperability Initiative
- Shared Interoperability
- Work on Planning in Information Sharing
- Interoperability Tools
- ISCC Information Interoperability
- Information 2011
- Information 2012

Welcome to the Standards Coordinating Council website!

Information sharing and collaborating is a growing and effective need in a variety of domains, including criminal justice, public safety, homeland security, public health, and transportation, just to name a few. These information sharing and collaborating projects are supported by standards - these standards ensure that all the parties working towards information sharing are doing so in the same way, using the same terminology, and working towards the same goals.

Information sharing standards are numerous. They are generated by multiple different types of organizations for a variety of purposes. These needs and for teaching efforts require insight and coordination, which is the purpose of the Standards Coordinating Council.

The Standards Coordinating Council (SCC) is an advisory working group to the White House interagency policy council. The SCC provides advice and counsel to various related to information sharing and collaborating standards and other special issues in interoperable information sharing. This site has been created to educate visitors about the SCC and also provide resources about information sharing standards, guidance on common terminology, and information about current and planned information sharing and collaborating initiatives.

www.standardscoordination.org



IJIS Institute



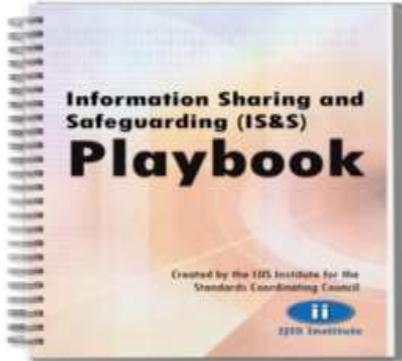
NATIONAL STRATEGY FOR TRUSTED IDENTITIES IN CYBERSPACE

Enhancing Online Choice, Efficiency, Security, and Privacy



NATIONAL INFORMATION EXCHANGE MODEL

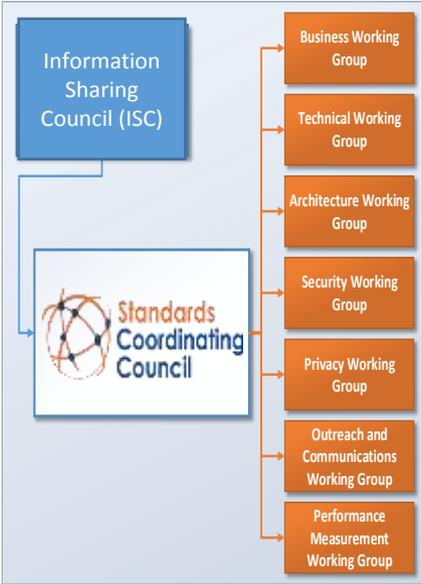
Mission



Enablement

SCC

- Mission Centric – ISS Strategic
- Policy Automation
 - Services Transformative
 - Cyber/Info Safeguarding
 - Geospatial
 - Sustainability (Market Attraction)



Project Interoperability

- Enablement Centric – ISS Architecture
- Project Pipeline
 - Standards Normalization – Project Prototyping
 - Info Interoperability Architecture Framework – Common Profile
 - Taxonomies and Inherencies



GEOSPATIAL CAPABILITIES

Asset Information



Public Safety Tracking



Suspicious Activity



Models & Analysis



Traffic cameras



Sensors

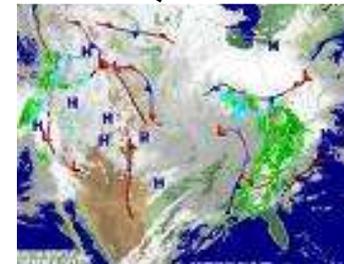


UAV sensors / streaming video



Security cameras

Weather feeds



Field collected data



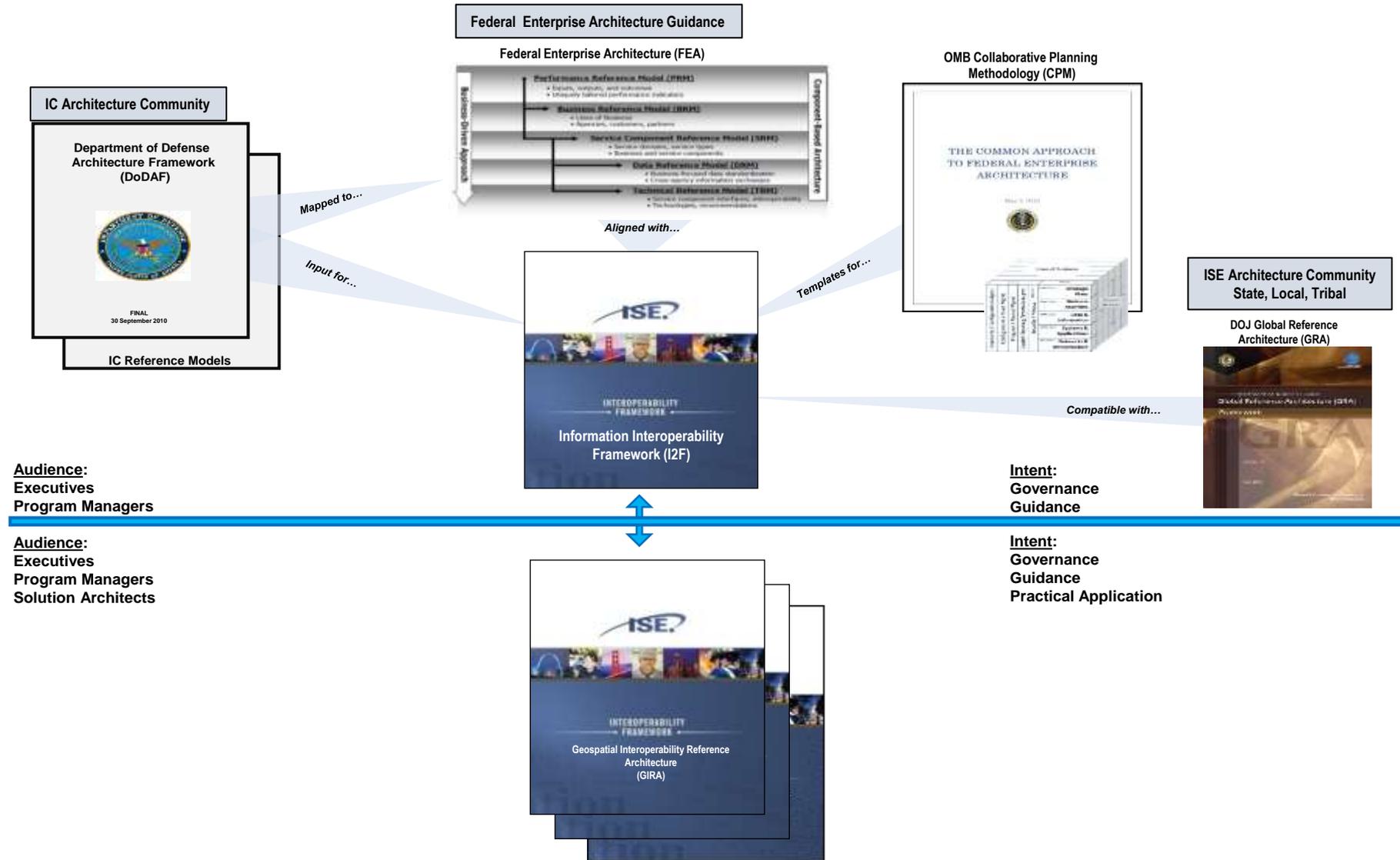
Web discovery/
Smart Phones/
Social Media



Airlines, vessels, cargo, ...



GEOSPATIAL INTEROPERABILITY REFERENCE ARCHITECTURE (GIRA): BACKGROUND & PURPOSE

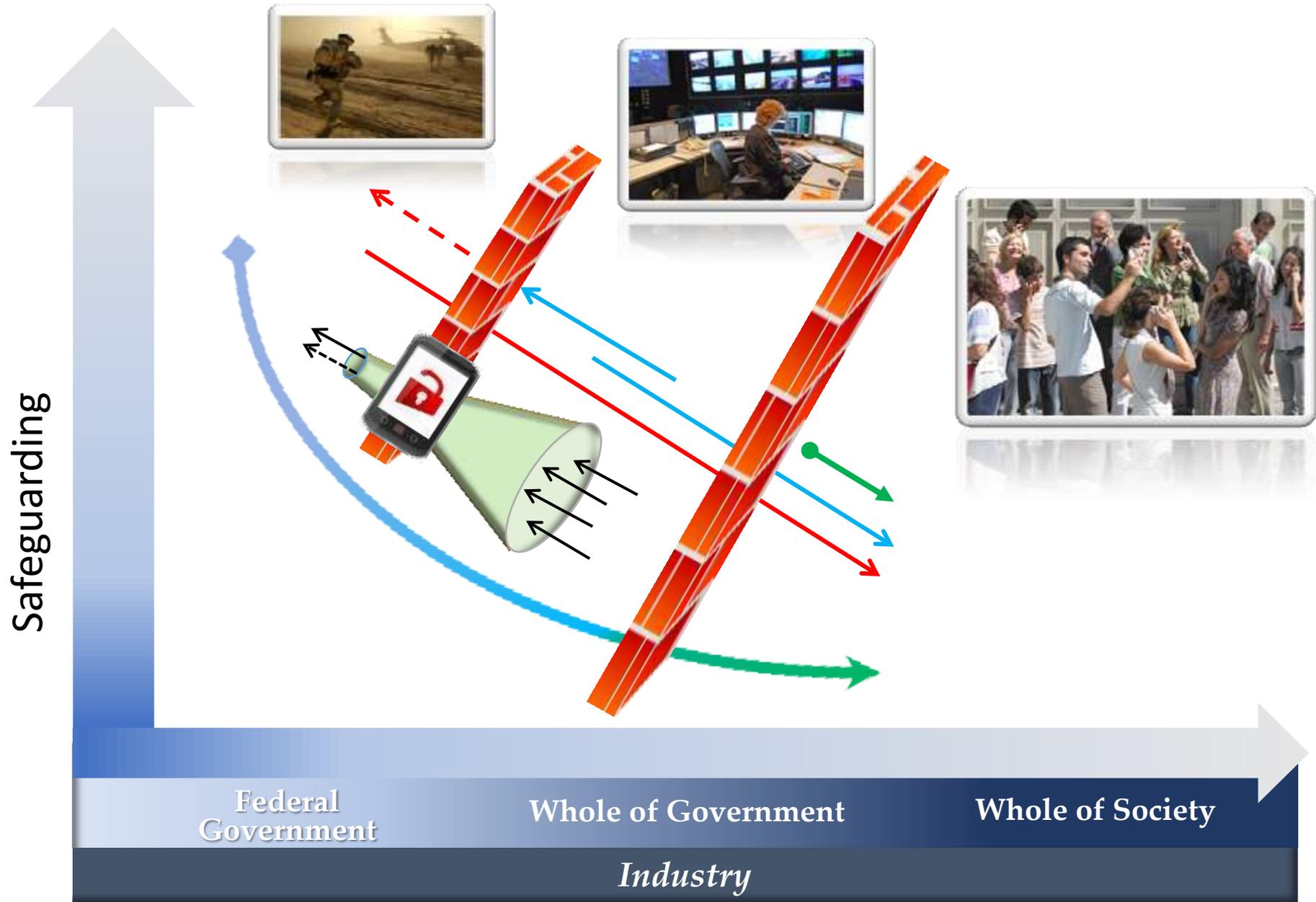


GIRA: GOALS & OBJECTIVES



- Define governance oversight considerations that should be taken to ensure consensus and responsible program management to meet mission objectives and drive cost efficiencies.
- Serve as a base-line target reference and identifies the necessary interoperability requirements within each of the key architecture elements (e.g., data, applications/services, infrastructure, security, standards and performance).
- Provide best practice implementation artifacts, interoperability standards, authoritative reference documentation, performance measures and procedural guidance.
- Provide sufficient technical details to serve as inputs for operational requirements documentation, engineering designs, contract and procurement language and related activities associated with implementing interoperable geospatial architectures.
- Align and conform to the Federal Enterprise Architecture Framework v2, and The Common Approach to Federal Enterprise Architecture.

GEOSPATIAL CONTINUUM



Project Interoperability

Project Interoperability

- Project Interoperability is a start-up guide for information interoperability
- Project Interoperability can be used to access, improve, and use information sharing tools and resources
- It uses some of the existing, well known enterprise architecture frameworks and the principles of service-oriented architecture (such as reuse and intrinsic interoperability) to suggest standards, tools, and methodologies to link existing systems

Project Interoperability Project Pipeline - Background

- In 2014 SCC members discussed the prospect of developing a **pipeline of projects** that could be positioned for assessment and ‘mapping’ implementation use cases to further advance PI goals
- These use cases would
 - provide real world reinforcement of the ISE Interoperability framework
 - serve to inform the community on successful approaches that have been taken to implement IS&S constructs
 - Provide feedback

Project Interoperability Goals

- Project Interoperability will be achieved through the mapping of active and new projects where standards-based Information Sharing and Safeguarding (IS&S) solutions are being implemented
- Establish the Information Sharing and Safeguarding Core Interoperability Framework (ICIF) for standards-based information sharing and interoperability in support of the public safety and national security missions

Project Interoperability Project Pipeline - Examples

- **New Jersey – Information Sharing Environment**
 - *Mission Context: Statewide information sharing environment for public safety*
- **Incident Management Information Sharing (DHS S&T)**
 - *Mission Context: First responder information sharing environment*
- **Corrections Information Sharing**
 - *Mission Context: Corrections information sharing environment*
- **Maritime Information Sharing Environment**
 - *Mission Context: Maritime information sharing environment*
- **Cross-border Trusted Information Sharing**
 - *Mission Context: Cross-border, bi-national information sharing environment*
- **Law Enforcement Event Deconfliction**
 - *Mission Context: Creation of a nationwide event deconfliction system*
- **Open Geospatial Consortium (OGC) Geo4NIEM Testbed**
 - *Mission Context: Any use case calling for NIEM IC IEPs containing geospatial data or GML feature representations leveraging NIEM components*

Prototyping Standards Based Patterns / Solutions - Geo4NIEM



- Play <http://www.opengeospatial.org/projects/initiatives/testbed11>

For More Information:

- Standards Coordinating Council:
<http://www.standardscoordination.org/>
- SCC Inquiries:
info@standardscoordination.org
- Project Interoperability:
http://www.standardscoordination.org/project_interoperability
- ISE Interoperability Framework:
http://ise.gov/sites/default/files/FINAL%20-%20ISE_I2F_v0%205.pdf
- SCC Interoperability Tools/Resources (including the Geospatial Interoperability Reference Architecture):
<http://www.standardscoordination.org/content/interoperability-tools>
- GIRA Blog (DeLoatch, Alexander)
<https://www.ise.gov/blog/ivan-b-delatch-and-david-alexander/introduction-geospatial-interoperability-reference>