

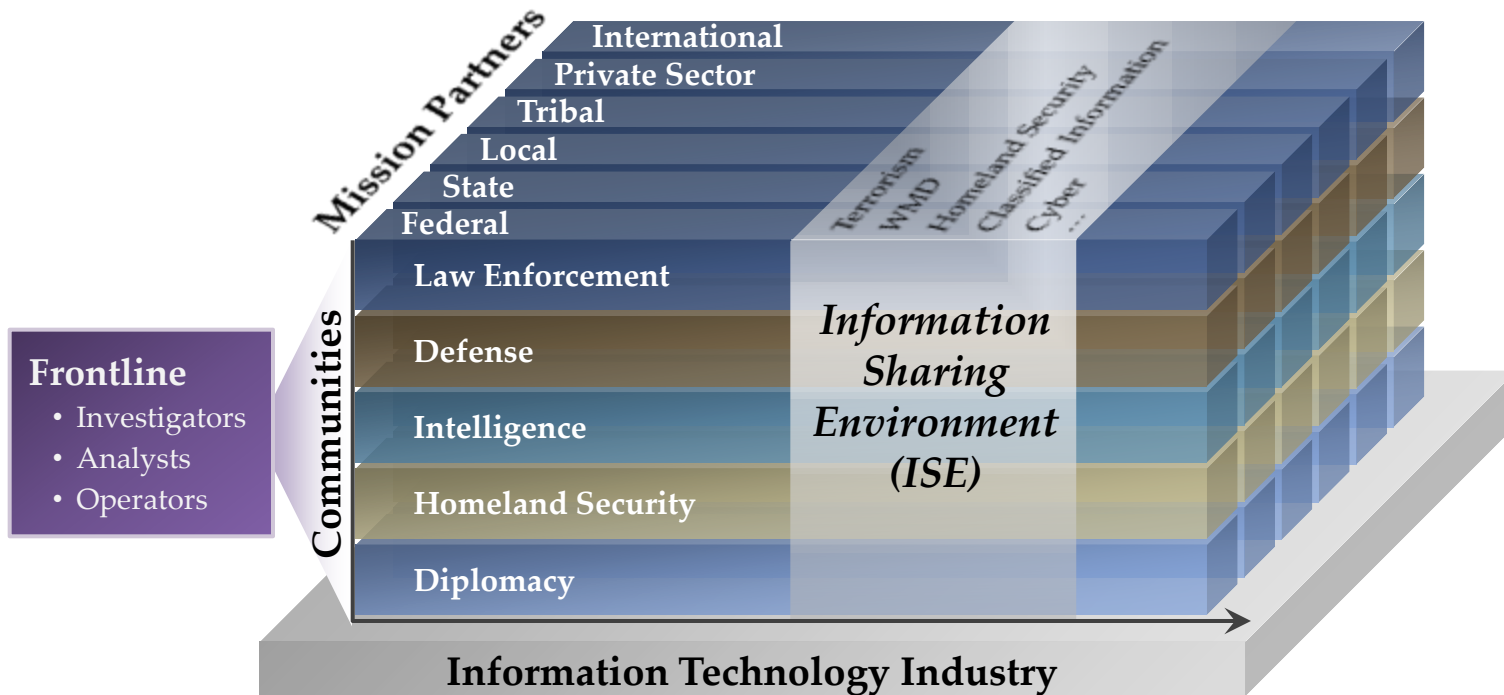


National Security Through Responsible Information Sharing

Michael Howell
Principal Deputy Program Manager,
Information Sharing Environment
August 2015



SCOPE OF THE INFORMATION SHARING ENVIRONMENT (ISE)



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

300+ million
People

18,000
LE Agencies

750,000+
Officers

250,000
911 Operators

1.2 million
Firefighters

2.2 million
Security Officers

18 CI/KR Sectors

* Numbers are estimates

78 Fusion Centers

6 RISS Centers

28 HIDTAs

FBI
NCIJTF ◻ CJIS ◻ FIGs ◻ JTTFs ◻ JRIGs ◻ TSC

DHS
I&A ◻ ICE ◻ CBP ◻ TSA ◻ DNDO ◻ NPPD

DOJ
ATF ◻ DEA ◻ USMS ◻ OJP

Maritime
Domain

State

DoD

Air
Domain

Nlets

NCTC
JCAT

Protection of Privacy, Civil Rights, and Civil Liberties

ISE MISSION PORTFOLIOS



Statewide &
Regional ISE



Cybersecurity
Information Sharing



Watchlisting,
Screening, &
Encounters



Domain
Awareness



Transnational
Organized Crime



Incident
Management

information

VALUE PROPOSITION



- If we:
 - Unify stakeholder communities' requirements
 - Translate requirements into standardized information exchanges
 - Involve industry in development of standards-compliant solutions
- Then we can:
 - Build interoperability into solutions “off-the-shelf”
 - Increase the effectiveness and value of the solutions we purchase
 - Reduce total costs for both solution consumers and solution providers

information

STANDARDS COORDINATING COUNCIL



www.standardscoordination.org



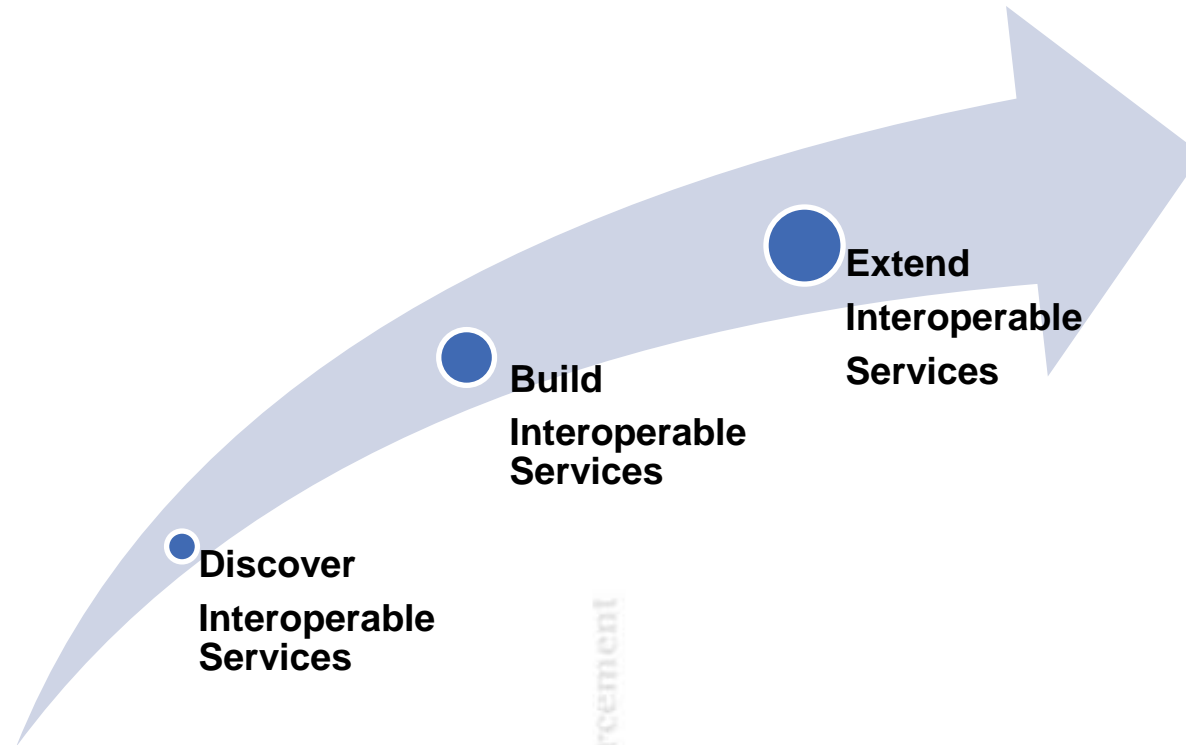
IJIS Institute



PROJECT INTEROPERABILITY

The Capabilities

- Architecture Alignment
- Attribute Exchange
- Common Profile
- Data Aggregation (DARA)
- Exchange Patterns
- Geospatial (GIRA)
- Identity and Access Management
- Maturity Model
- National Information Exchange Model
- Reference Architecture
- Standards and Specification Framework
- Springboard



the project is build upon

Authorities, Governance & Policy, Performance Management, Budget and Resourcing, Communications & Outreach

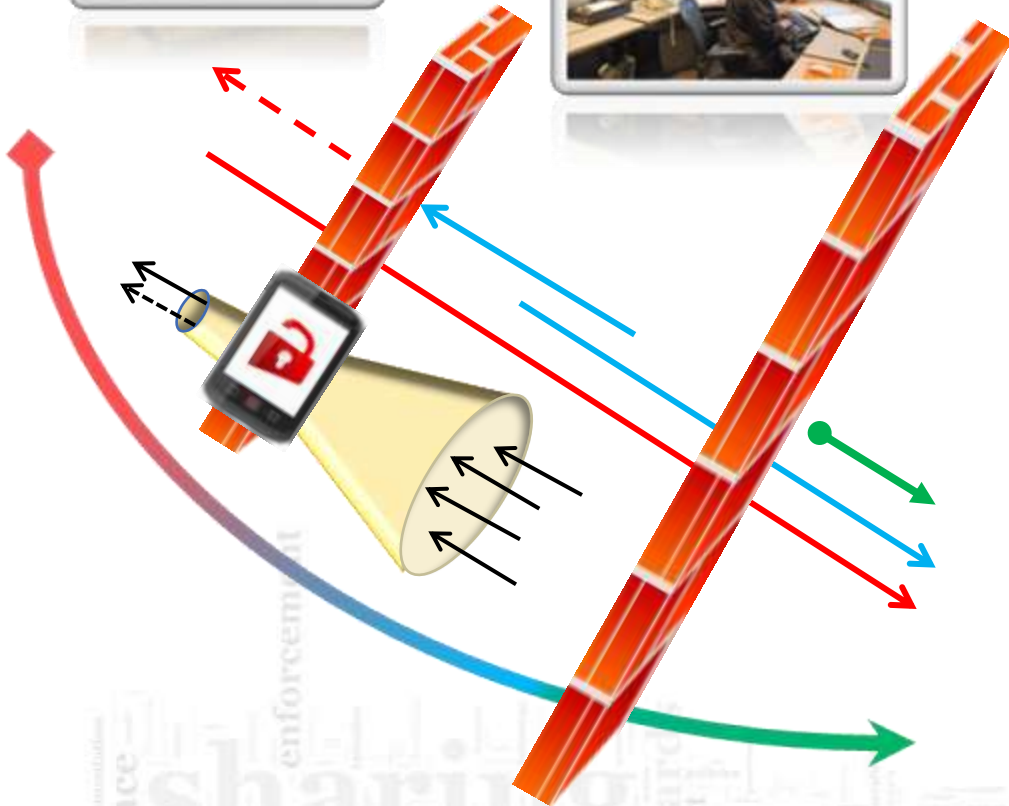
<http://project-interoperability.github.io/>



GEOSPATIAL CONTINUUM



Safeguarding



Federal Government

Whole of Government

Whole of Society

Industry

GEOSPATIAL CAPABILITIES



Asset Information



Public Safety Tracking



Suspicious Activity



Models & Analysis



Traffic cameras



Sensors

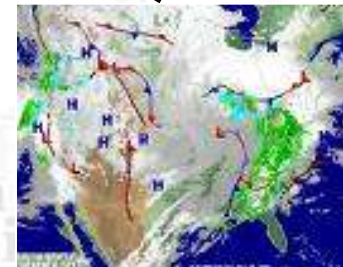


UAV sensors / streaming video



Security cameras

Weather feeds



Field collected data



Web discovery/
Smart Phones/
Social Media



Airlines, vessels, cargo, ...

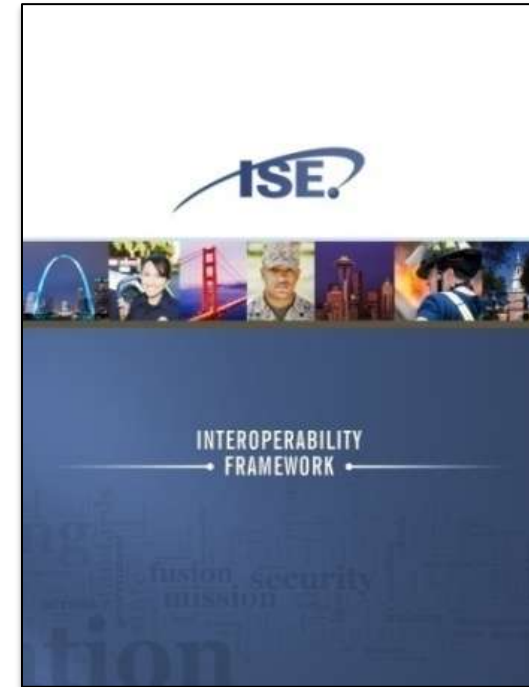
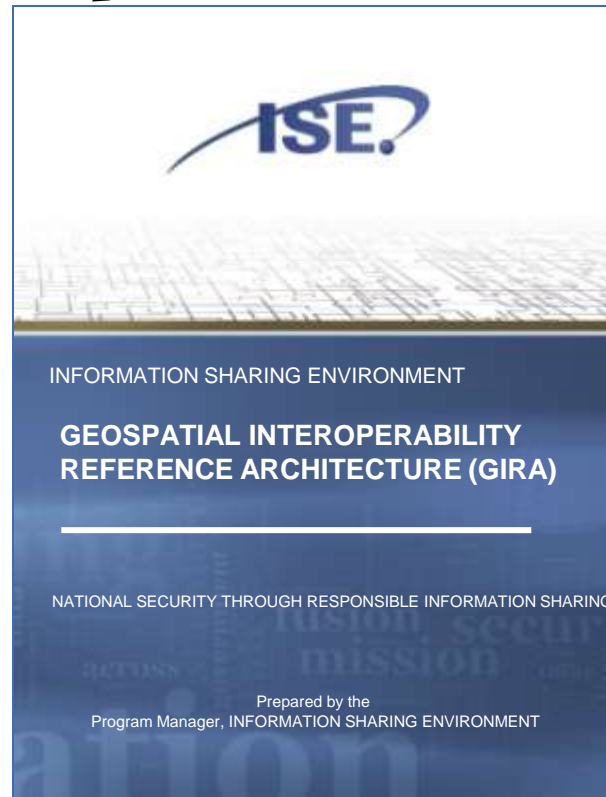


GEOSPATIAL INTEROPERABILITY REFERENCE ARCHITECTURE



Federal Enterprise Architecture

ISE Architecture Alignment



www.ise.gov/sites/default/files/GIRA.pdf



Information Sharing Environment

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Project Interoperability

A community start-up guide to interoperability and info sharing. Help us edit and improve it on GitHub!

[Information Interoperability Framework \(I2F\)](#)

[Project Interoperability on GitHub](#)

1 2 3 4

Want to Join ISE on GitHub?
check out
Project Interoperability



@shareandprotect

What is ISE?

The Information Sharing Environment (ISE) broadly refers to the people, projects, systems, and agencies that enable responsible information sharing for national security.

[Read More about ISE](#)



ISE on Twitter

@shareandprotect



DefenseIntel

DIA welcomes @USMC LtGen Vincent Stewart as its 20th director.

[t.co/CSeaOxUmHY](#)

[t.co/2mNrffcTka](#)

1 day 22 hours ago