

A collage of images showing emergency responders and security personnel in various settings. One image shows a person with 'EMS' on their uniform, another shows a person in a uniform, and others show people in uniform in different contexts.

National Security Through Responsible Information Sharing

Kshemendra Paul
Program Manager, Information Sharing Environment
April 2014



VISION

National security through responsible information sharing

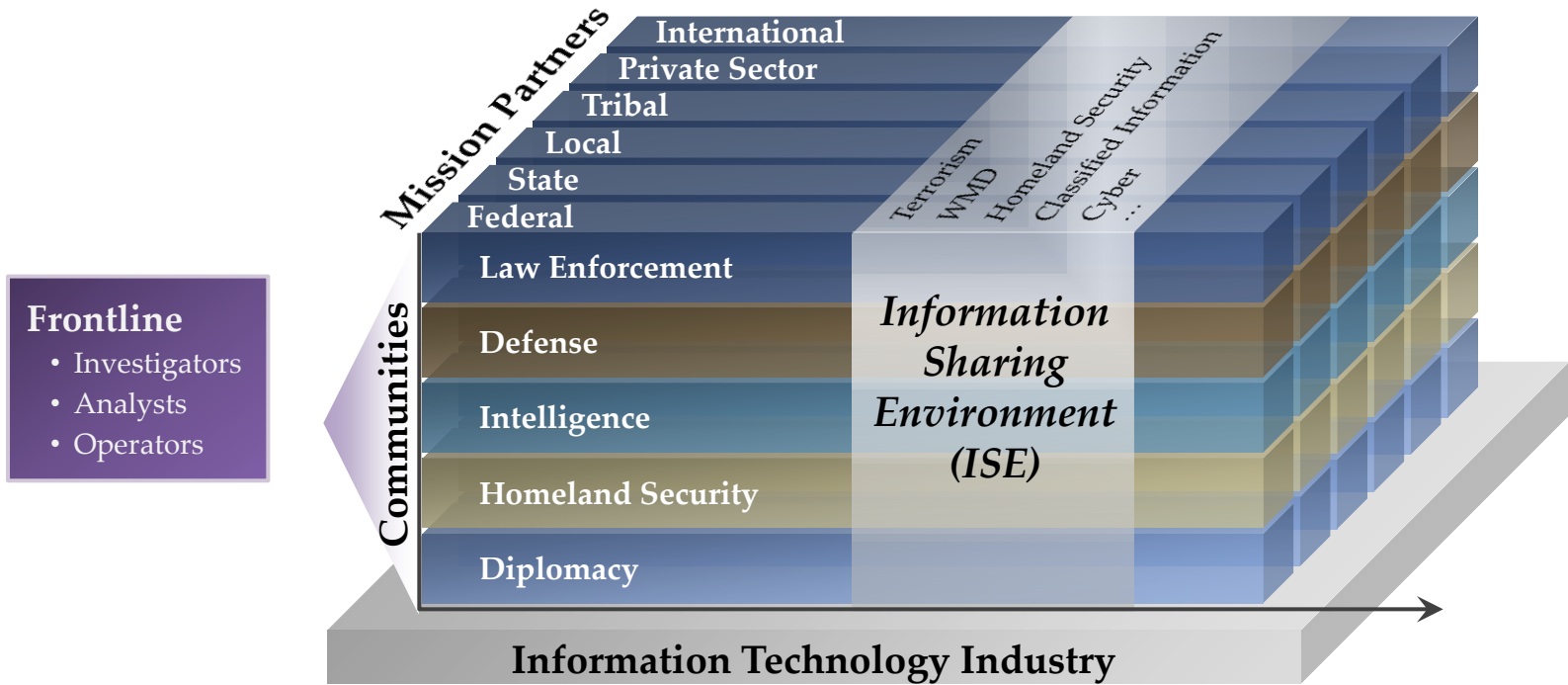
MISSION

Advance responsible information sharing to further counterterrorism and homeland security, and cybersecurity missions

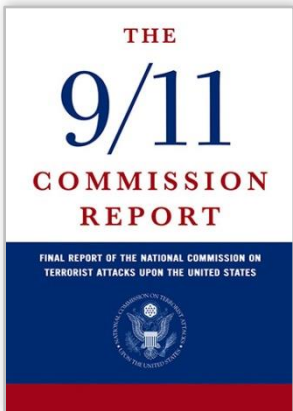
Improve nationwide decision making by transforming information ownership to stewardship

Promote partnerships across federal, state, local, and tribal governments, the private sector, and internationally

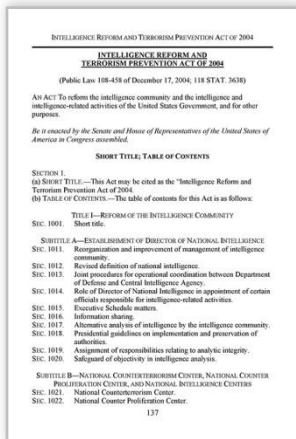
SCOPE



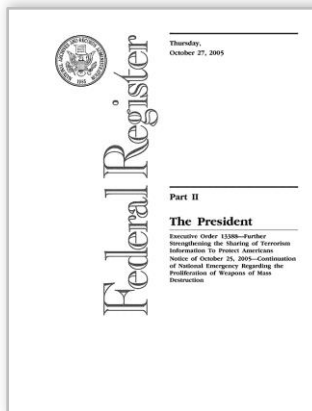
FOUNDATION



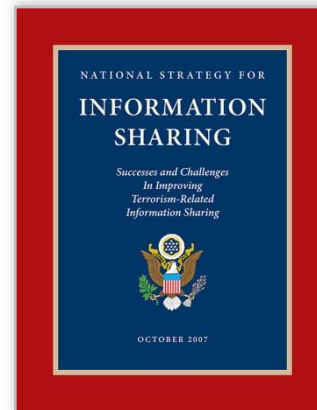
IRTPA: Intelligence Reform and Terrorism Protection Act of 2004



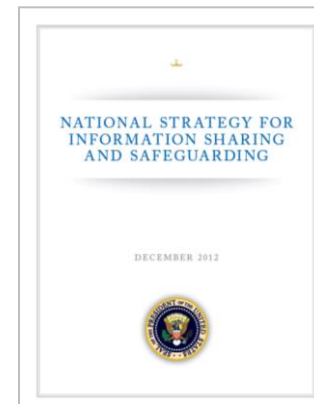
Executive Order 13388



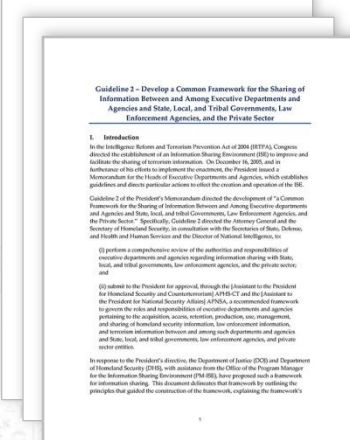
2007 National Strategy



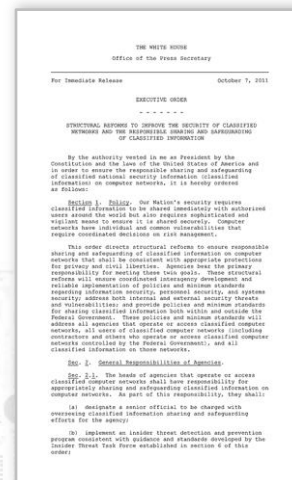
2012 National Strategy



Presidential Guidelines



Executive Order 13587



Markle Task Force



information

capabilities efforts provide partner center the process the access the access working homeland by training Management within private

NATIONWIDE CHALLENGES



- Multiple Missions & Authorities ↔ National Approaches to Interoperability
- Crushing Financial Pressures ↔ Integrated Capabilities & Shared Services
- Evolving & Converging threats ↔ Common Operating Models



Protection of Privacy, Civil Rights, and Civil Liberties

AGENDA

- PM-ISE's Mission, Scope, and Background
- National Strategy for Information Sharing and Safeguarding
- National Information Exchange Model
- ISE Project Interoperability
- Potential Collaboration Between ISA & ISE

NATIONAL STRATEGY FOR INFORMATION SHARING AND SAFEGUARDING

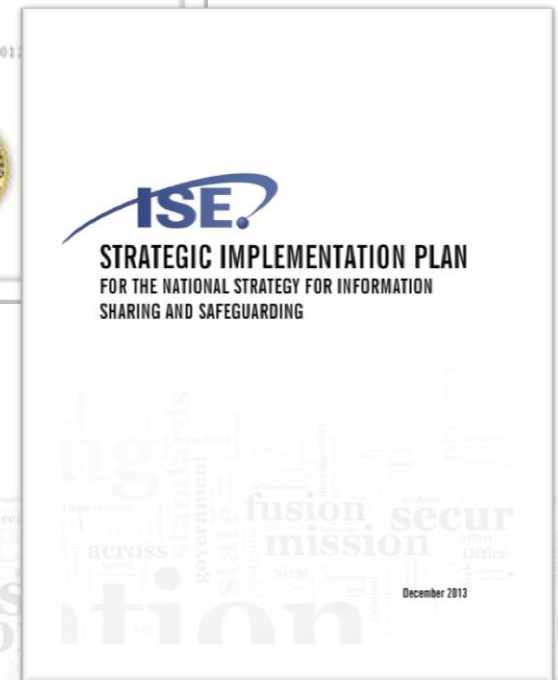


Principles:

- Information as a national asset.
- Information sharing and safeguarding requires shared risk management.
- Information informs decision making.

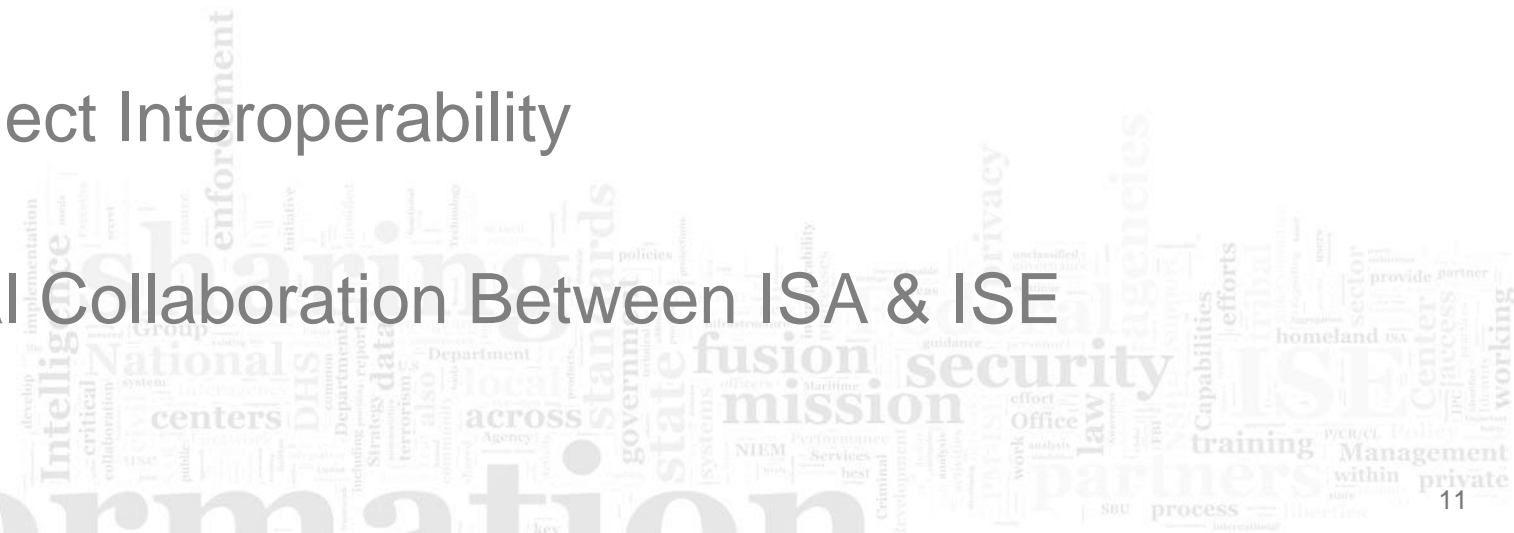
INSTITUTIONALIZING A MANAGEMENT FRAMEWORK

- White House-based Governance
- Strategic Implementation Plan
- Performance-Based Oversight



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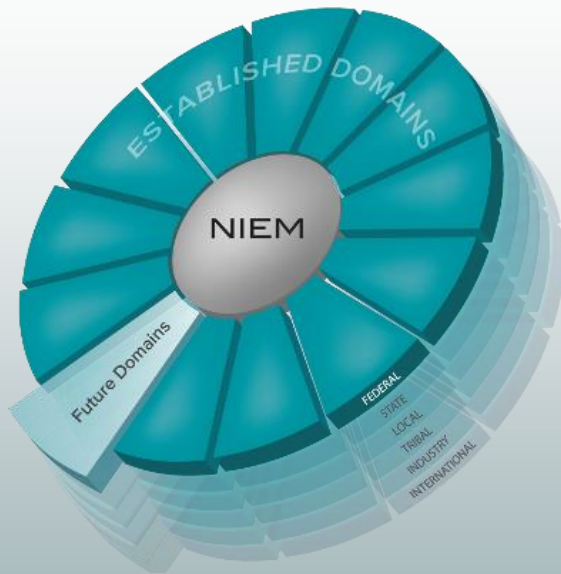


THE NEED FOR SEMANTIC INTEROPERABILITY



WHAT IS NIEM?

Common Language (Community-driven Data Model)



Built and governed by the business users at federal, state, local, tribal, international, and private sectors

Repeatable, Reusable Process (Information Exchange Development Lifecycle)



INTERNATIONAL INTERACTIONS

ISA Programme

- Interoperability Solutions for European Public Administrations (ISA) Programme supports and facilitates cross-border electronic collaboration between European public administrations
- Explored potential alignment between NIEM & ISA Core Vocabularies via mapping exercise for:
 - Core Person
 - Core Business
 - Core Organization

Europol

- Create a common framework for structured information exchange between European Union (EU) law enforcement authorities
- Potential to leverage the NIEM framework to inform Europol's Universal Messaging Format (UMF2) development

CrimTrac, Australia

- Responsible for national information sharing services between state, territory and federal law enforcement and national security agencies
- Objective to deepen understanding of NIEM in context specific to the Justice & Biometrics Domains
- Interest in NIEM expressed across several Australian agencies

EU CASE STUDY: EPOC IV USE OF NIEM

< NIEM >

NATIONAL INFORMATION EXCHANGE MODEL
NIEM.gov

CASE STUDY

Benefits of NIEM Extends Beyond Borders

EPOC USE OF NIEM

WHAT IS EUROJUST?

Eurojust, the European Union's Judicial Cooperation Unit, was created by the Council of the European Union in February 2002, to help provide safety within the areas of freedom, security, and justice. Eurojust improves the fight against serious crime by facilitating the optimal coordination of action for investigations and prosecutions covering the territory of more than one European Union (EU) Member State with full respect for fundamental rights and freedoms. Eurojust is composed of 27 National Members, one from each EU Member State. Senior and experienced judges, prosecutors, and police officers of equivalent competence form the College of Eurojust.

THE EPOC IV PROJECT

The EPOC IV Experimentation Project started on April 1, 2009 for a three-year period with Eurojust and ten European Member State Project Partners. The Project's key aim is to "Further evolution of the EPOC software to allow the exchange of information with national CMSs and the promotion of its usage in the Member States."

One of the five objectives for the EPOC IV project was the "Drafting of a Data Standard to exchange data between different Case Management Systems." From this data standard it was decided to develop a communication for the specific scenario of

THE EPOC CONCEPT

The idea behind the European Pool against Organized Crime (EPOC) is to develop tools to support the fight against serious and organized crime. The EPOC concept started in 2002 with the Italian Ministry of Justice.

Eurojust adopted the EPOC software as its case management system (CMS) in 2004 and continues to



NORTH AMERICA ADOPTION

Temporary Resident Biometrics Project

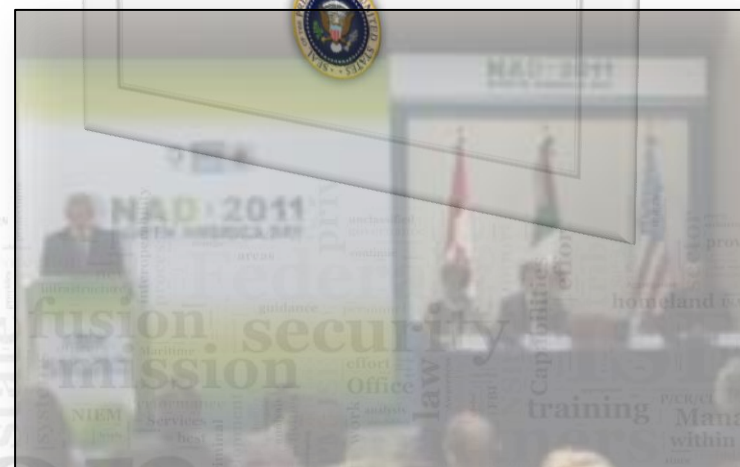
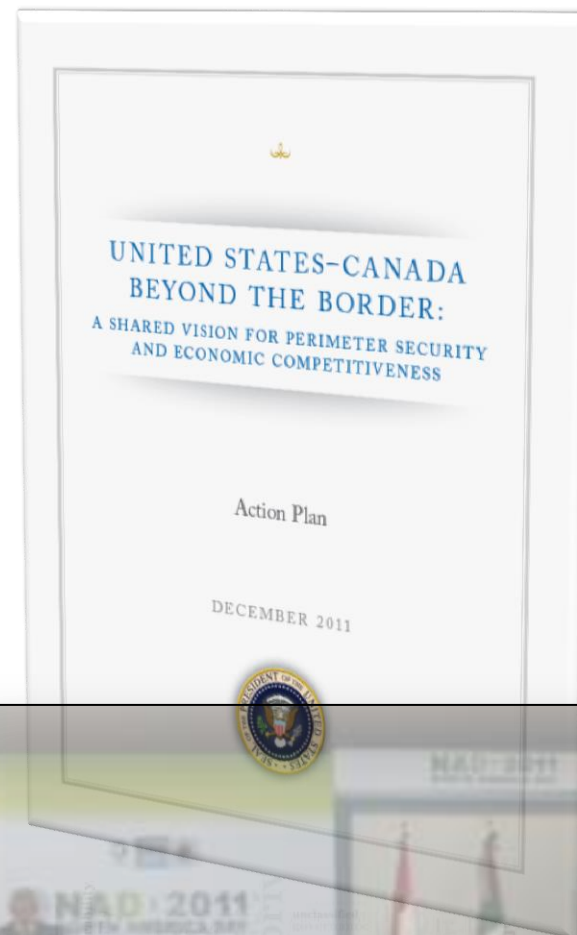
- Citizenship and Immigration Canada
- US Citizenship and Immigration Services

Entry/Exit Data Exchange

- Canada Border Services Agency
- US Customs and Border Protection

North American Day Pilots (US/Canada/Mexico)

- Public Health Pilot, Public Health Alerts
- Public Safety Pilot, Stolen Vehicles



CELEBRATING A MAJOR MILESTONE ANNOUNCING THE LAUNCH OF NIEM 3.0!

As we celebrate the launch of NIEM 3.0, the NIEM Program Management Office (PMO) would like to thank the NIEM community for their active participation and feedback.

SO, WHAT DID IT TAKE TO LAUNCH 3.0?

TIMELINE



13 months



5 stages



6 years since last major release



CONTENT UPDATES



Architectural Enhancements



Existing data element definitions modified



Substitution list placeholders added



33 code list updates

WEBSITE STATS



180 attendees for Beta Tech Talk in June 2013



12,513 page views to NIEM 3.0 web pages

DOMAIN UPDATES



Biometrics added their first input to the model



Chemical, Biological, Radiological, Nuclear (CBRN); Children, Youth, and Family Services (CYFS); Justice; Maritime; Immigration; and Screening added and/or updated content

COMMUNITY REVIEW



First ever public review of NIEM (three rounds)



20+ NBAC harmonization calls in the past year



70+ total NBAC review submissions



30 total NTAC review submissions



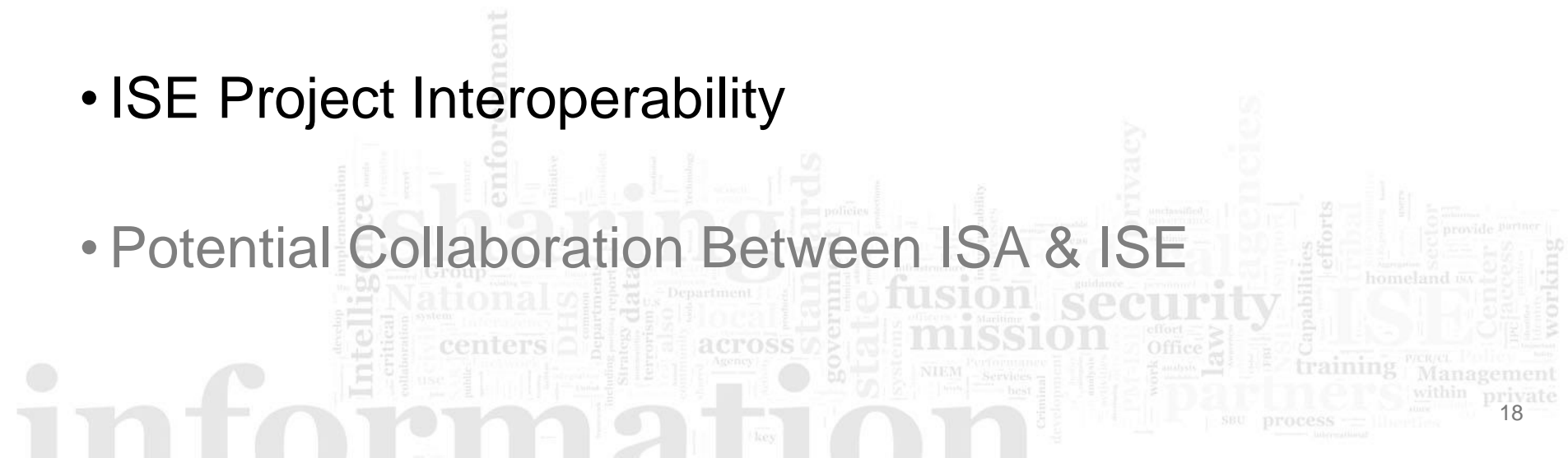
Comments received from federal, state, local, international, and industry partners

The PMO thanks the NIEM community for your dedication to advancing the program.

< NIEM >
in November

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PROJECT INTEROPERABILITY



- Focused on the white-space between Agencies
- Mission & framework agnostic
- Modular development extending existing capability
- Practitioner-focused integration of best practices

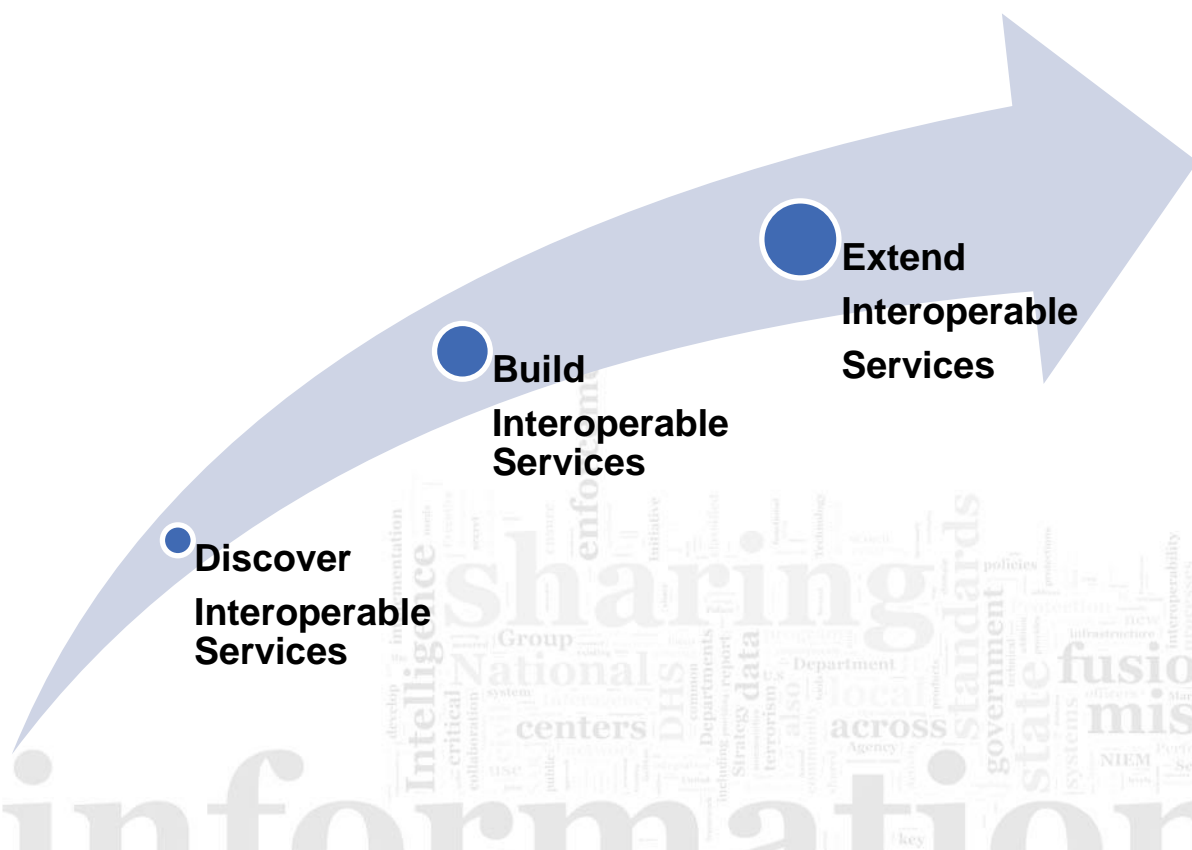
ISE Interoperability Tools

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

Discover Interoperable Services

Build Interoperable Services

Extend Interoperable Services



MISSION USE: NEW JERSEY INFORMATION SHARING ENVIRONMENT



TOOL EXAMPLE: ADVANCING FEDERATED IDENTITY MGMT

- National Strategy for Trusted Identities in Cyberspace
- Federation to Inter-Federation
- Managed Attribute Federations
- Integrate into Standards-Based Acquisition efforts



STANDARDS COORDINATING COUNCIL



The Organization for the Advancement of Structured Information Standards



IJIS Institute



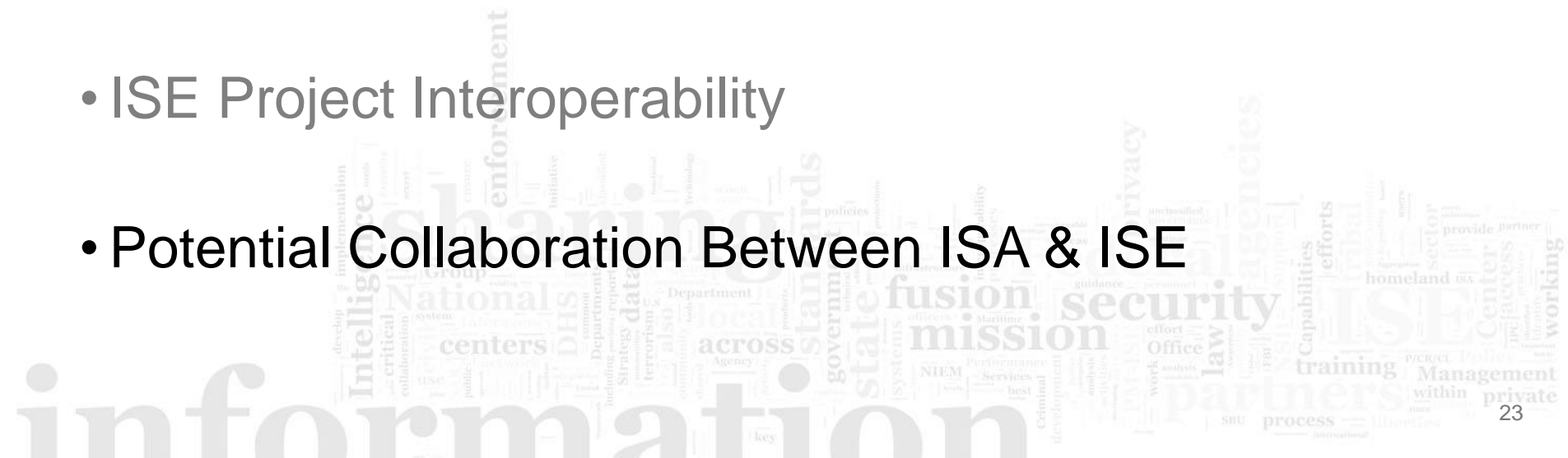
NATIONAL STRATEGY FOR TRUSTED IDENTITIES IN CYBERSPACE

Enhancing Online Choice, Efficiency, Security, and Privacy

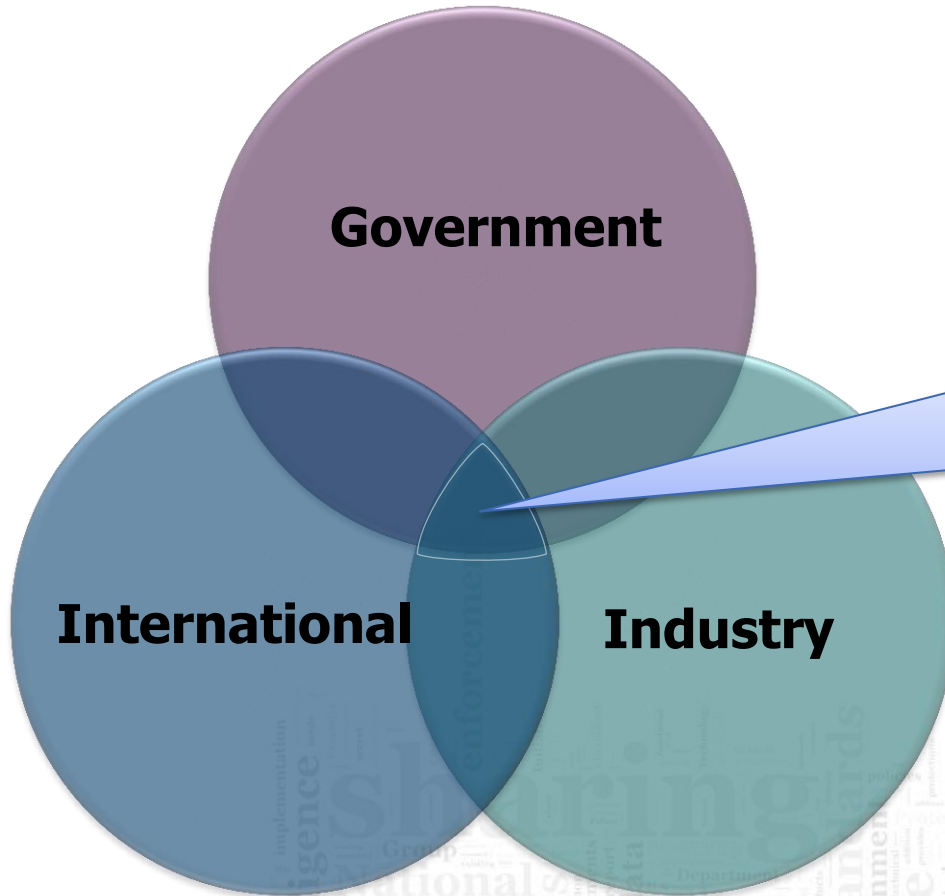


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INTEROPERABILITY NEEDS COLLABORATION



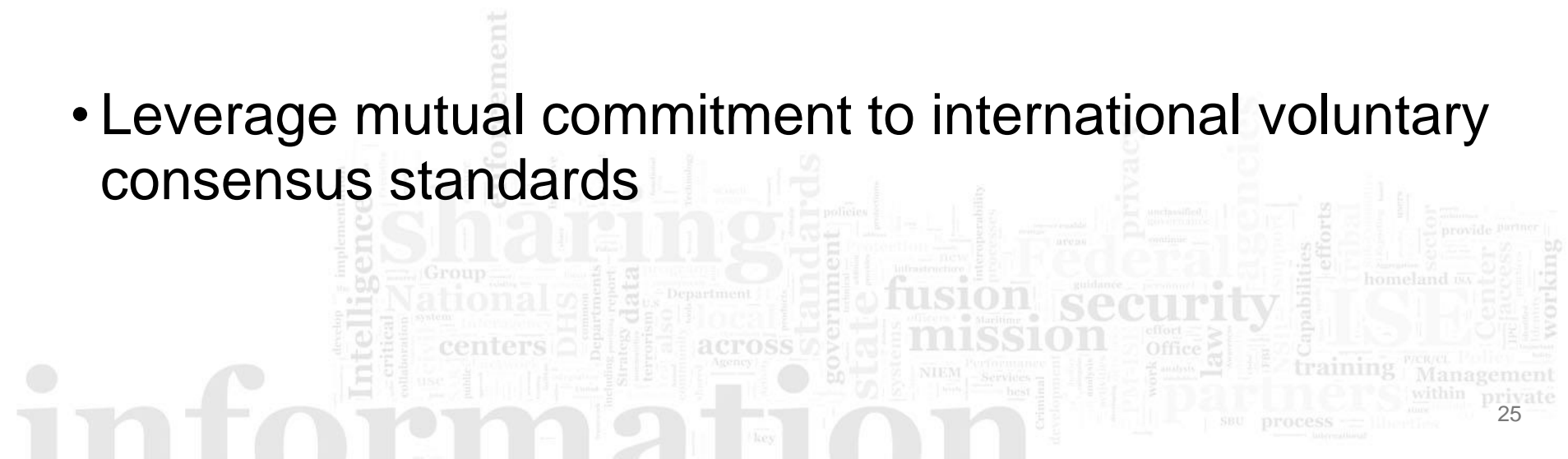
Collaboration Value

- Reduce standards fragmentation
- Accelerate industry adoption
- Lower risk and cost
- Increase mission agility



NEXT STEPS

- Discuss and joint exploration of possibilities
- Identify potential areas of collaboration and target outcomes
- Gain stakeholder buy-in and engagement
- Leverage mutual commitment to international voluntary consensus standards



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Project Interoperability [↗]

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

[Project Interoperability](#) [Help Improve this Content](#) [View Revision History](#) [Discuss](#)

PROJECT INTEROPERABILITY

Project Interoperability: A Start-Up Guide to Info Sharing

IMPORTANT: THIS IS A DRAFT AND STILL UNDER CONSTRUCTION.

1. Background

Project Interoperability is a start-up guide for information interoperability. The tools and resources

1 2

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

shareandprotect [↗]
This is no April Fool's joke: We posted guides and resources for building info sharing on @GitHub [↗]. Help improve it!
t.co/H69P3hnbWq [↗]
14 hours 42 min ago. [↗]



@shareandprotect

information



www.ise.gov



RESPONSIBLE INFORMATION SHARING TO ENHANCE NATIONAL SECURITY