The National Information Exchange Model (NIEM) is a federal, state, local and tribal interagency initiative providing a national approach and common vocabulary for information exchanges.

NIEM is a program, built by the implementers for the implementers. It represents the hard work and dedication of many, working toward the goal of information sharing because it was and is the right thing to do.

NIEM provides a mature lifecycle that is a repeatable, reusable process.

Most recently, the Office of the National Coordinator has chosen to use NIEM to build and package functional specifications required for meaningful use of electronic health records.

NIEM was selected for Recovery.gov reporting based on feedback from state and local stakeholders.

NIEM conformance is now a requirement under some federal grants.

Learn more by registering and participating in this event.

This project is supported by Grant No. 2009-D2-BX-K013 awarded by the Bureau of Justice Assistance. The Bureau of Justice Assistance is a component of the Office of Justice Programs, which also includes the Bureau of Justice Statistics, the National Institute of Justice, the Office of Juvenile Justice and Delinquency Prevention, and the Office for Victims of Crime. Points of view or opinions expressed are those of the presenter(s) and do not represent the official position or policies of the U.S. Department of Justice.

Register now!

Gaining Competitive Advantage through NIEM - *How NASCIO Corporate Members Can Position Themselves as Enablers of Government Collaboration*

NASCIO invites you to join an **Industry Partners Innovations Forum**. The objective of this forum is to build awareness of the National Information Exchange Model (NIEM) among the community of corporations serving government. This forum has been developed with our NASCIO Corporate Members as our target audience. However, federal, state and local government representatives are welcome to participate.

Please submit advance questions on the registration page. You must register for this event in order to receive the slide deck that will be used. **Teleconferencing information and the slides will be sent to registrants prior to the call.**

This call is primarily for our NASCIO Corporate Members.

Agenda

Government relies on its industry partners for much of the planning and implementation of technology solutions. This includes the development of information exchanges. It is extremely prudent for industry to understand one of the foremost government best practices for planning, designing, and implementing these exchanges - the National Information Exchange Model (NIEM). The purpose of this Innovations Forum is to communicate the value of NIEM to our corporate members so they can position themselves in the market for government services to deliver NIEM conformant solutions.

We will discuss how NIEM has been leveraged in several government cross-boundary initiatives and the outcomes that resulted from the ability to effectively share information. Please join us and learn what a growing number of corporations are embracing as a market advantage within their government service offerings.

NASCIO will hold a teleconference call on March 17th, 2010:
3:00 to 4:00 p.m. ET
2:00 to 3:00 p.m. CT
1:00 to 2:00 p.m. MT
Noon to 1:00 p.m. PT

Our Panel of Speakers:

- **Paul Wormeli**
  Mr. Paul Wormeli is Executive Director of the Integrated Justice Information Systems Institute, a non-profit corporation formed to help state and local governments

develop ways to share information among the disciplines engaged in law enforcement and the administration of justice. Mr. Wormeli was the first national project director of Project SEARCH, and was subsequently appointed by the President as Deputy Administrator of the Law Enforcement Assistance Administration (LEAA) in the U.S. Department of Justice. He has been an advisor to the White House on security and privacy, participated in the drafting of Federal law on this topic, and responsible for the development of numerous state plans to implement the Federal and state laws on information system security and privacy. During his tenure in the Justice Department, he served on the President's Committee on Drug Enforcement. Mr. Wormeli is an author and lecturer on law enforcement and justice technology.

- **Justin Murphy**
  Mr. Justin Murphy currently serves as the Senior Law Enforcement Advisor and Special Assistant to the Chief Information Officer of the US Department of Justice. As such he is responsible for being a liaison with Federal State, Local and Tribal Law Enforcement partners on topics relating the Office of the Chief Information Officer (OCIO). In that role, he provides insight and recommendations on the Department's Law Enforcement Information Sharing Plan and its adoption across Federal, State, Local and Tribal partners. This includes an in-depth understanding of such programs as the FBI's National Data Exchange (N-Dex), Sentinel, Next Generation Identification (NGI) and others. In addition, Mr. Murphy is the Deputy Executive Director for the National Information Exchange Model, a partnership between the US Department of Justice and the US Department of Homeland Security. The program is designed to develop, disseminate and support enterprise-wide information exchange standards and processes that can enable justifications to effectively share critical information.

Please contact Eric Sweden at esweden@AMRms.com or (859) 514-9189 if you have questions.

Gaining Competitive Advantage through NIEM
The National Information Exchange Model

- How NASCIO Corporate Members Can Position Themselves as Enablers of Government Collaboration

Paul Wormeli
Executive Director
IJIS Institute

Justin Murphy,
Deputy Director, DOJ

Presentation to the NASCIO Corporate Leadership Council Teleconference on March 17, 2010

NASCIO
Representing Chief Information
Officers of the States

NIEM
BRIDGING INFORMATION SYSTEMS

Host:

> **Eric Sweden**, *Senior Enterprise Architect, The National Association of State Chief Information Officers (NASCIO)*

Introductory remarks:

> **Peter Berkel,** *Director, Public Sector, EMC, Chair of the NASCIO Corporate Leadership Council*
> **Donna Roy**, *Executive Director, NIEM Program Management Office*

Presenters:

> **Paul Wormeli**, *Executive Director of the Integrated Justice Information Systems Institute*
>
> **Justin Murphy**, *Deputy Director, US Department of Justice*

Agenda

- ## Value of NIEM
  - Information Sharing Impediments
  - NIEM: A Common Language

- ## Current Successes
  - Adoption
  - NIEM Version 2.1

- ## Future of NIEM
  - What is the future of NIEM?
  - The Model Content
  - Technology and Structure of the Content
  - IEPD Lifecycle Process
  - The People

Value of NIEM

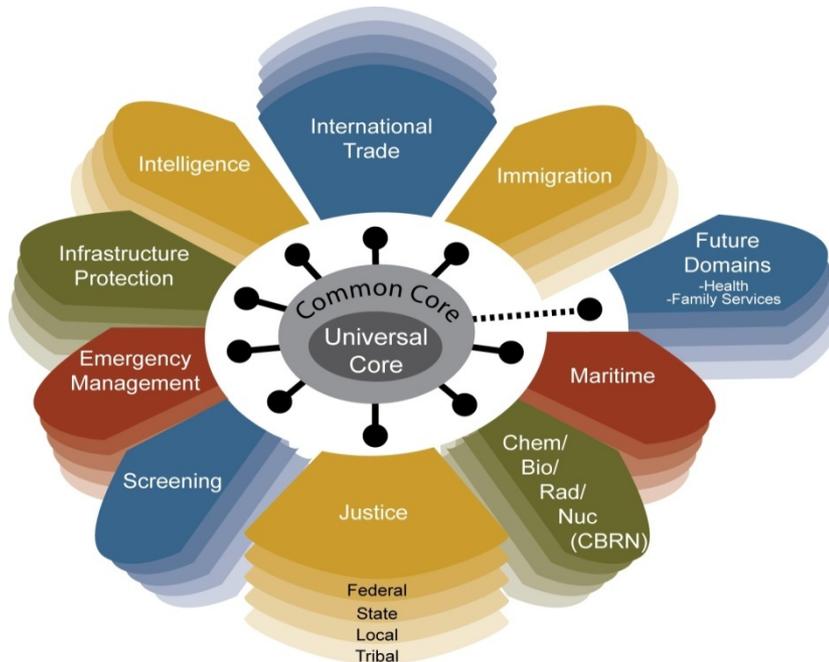## The National Information Exchange Model

Information Sharing Impediments

- **Access Barriers**: Legal, Privacy, and Policy protections associated with each type of data created, stored, maintained and shared in each agency.

- **Technology Barriers**: Network connectivity, system access, and an aging infrastructure.

- **Awareness Barriers**: We don't know what we don't know presents discovery barriers. An understanding of the data within an agency is a challenge.

- **Culture Barriers**: Differing cultures creates human barriers.

- **Language Barriers**: A standard set of terms and definitions for data that needs to be exchanged creates understanding barriers.
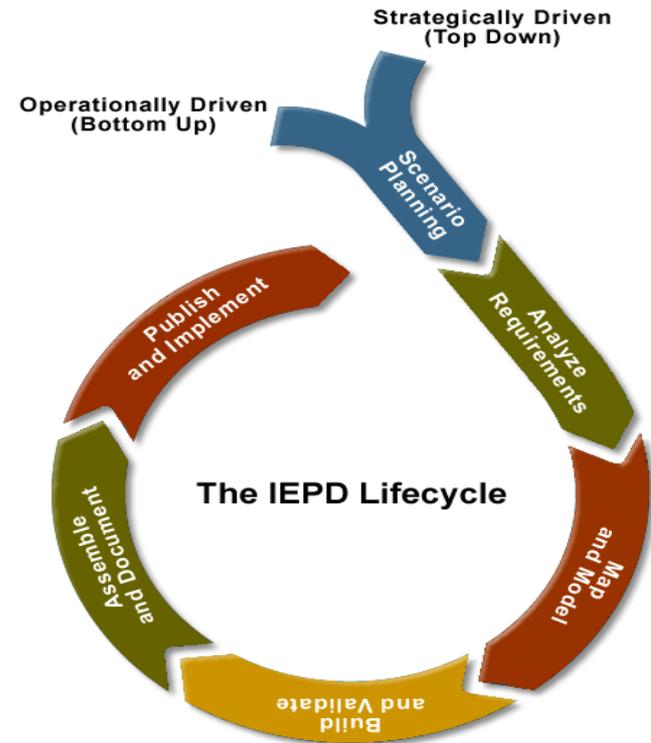
NIEM: A Common Language

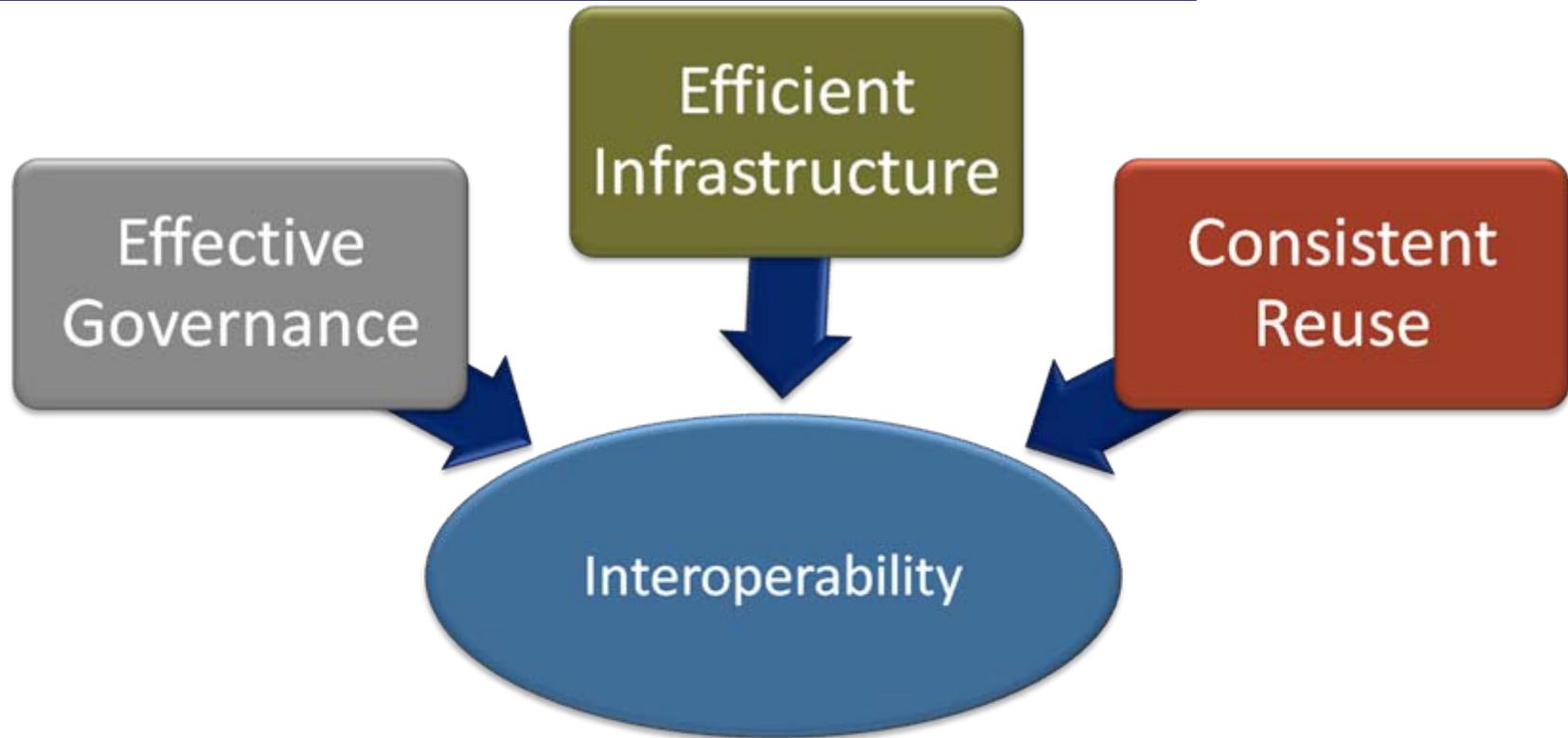"Common Language" for Information Exchange

Built and governed by the business users at Federal, State, Local, Tribal and Private Sectors

A **Structured Approach** providing a repeatable, reusable process for business users to document information exchange requirements

NIEM: A Common Language

Interoperability is the ability of many diverse systems to work together. By increasing interoperability between mission areas and jurisdictions, government can enhance its services across key functional areas such as law enforcement and emergency response.

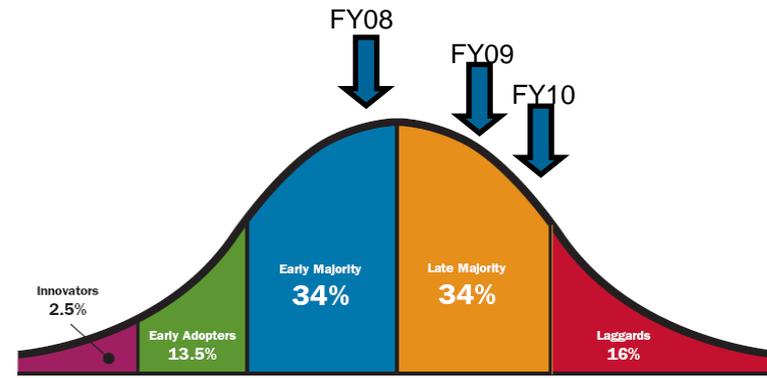# NIEM: A Common Language

NIEM Infrastructure

- – NIEM has several mission based domains.

- – The data elements within the domains are defined their respective Communities of Interest (COIs).

- – Information relevant across domains is built into a NIEM Core.

Domain Governance

- – Each domain has its own stewarding organization comprised of relevant stakeholders to manage updates and minor releases, e.g. NIEM 2.1.

- – The NIEM Program Management Office (PMO) supports cross domain harmonization and maturation of the core for major releases.

Current Successes

Adoption

- **DHS adoption at 60% of Major IT programs for end of FY09**
  - Focus on discrete reference Information Exchanges has increased adoption significantly
  - Measured compliance in investment review process
  - Built into Enterprise SOA Guidance and System Engineering Lifecycle
- **DOJ adoption**
  - Criminal Justice Information System (CJIS)
  - Terrorist Screening Center (TSC)
  - FBI's Guardian
  - National Data Exchange (NDEX) / One DOJ
  - Future Development of Next Generation Identification (NGI)
  - SAR – Suspicious Activity Reporting
  - LEXs Exchanges

FY08 FY09 FY10

Innovators 2.5%
Early Adopters 13.5%
Early Majority 34%
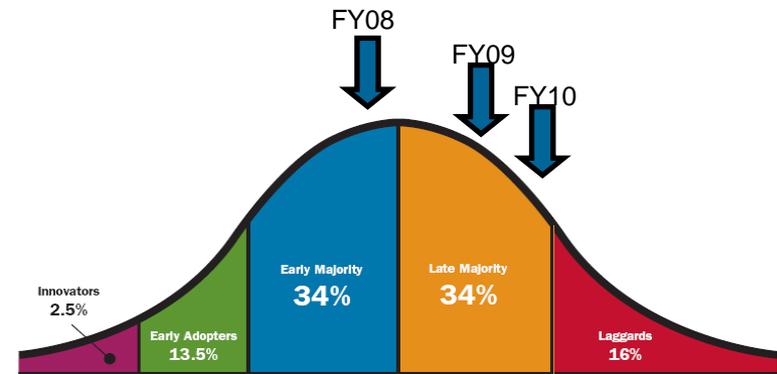Late Majority 34%
Laggards 16%

Currently, the adoption rate for DHS major IT programs is 35 percent, with a target of 60 percent at the end of fiscal year 2009. According to a recent FCW.com article, NIEM has reached its tipping point.
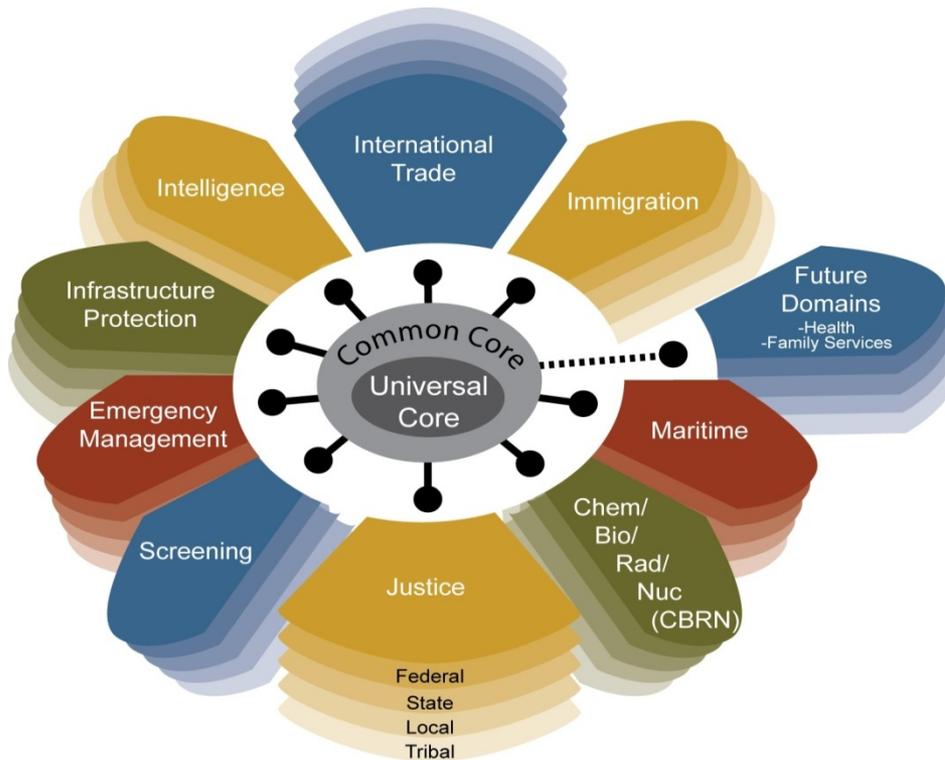
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Adoption

- DOD/DNI adoption through Maritime Domain Awareness and UCore 2.0

- HHS adoption through CIO and Office of the National Coordinator for Health Information Technology (ONC) efforts

- PM ISE adoption of the TSC Terrorist Watch List and Suspicious Activity Reporting Functional Standards which are NIEM conformant standards

Currently, the adoption rate for DHS major IT programs is 35 percent, with a target of 60 percent at the end of fiscal year 2009. According to a recent FCW.com article, NIEM has reached its tipping point.

Adoption

- ## State/Local/Tribal Adoption

  - American Recovery Reinvestment Act Reporting (Recovery.gov): Consistent guidance across Federal agencies to States, Localities, and Tribal communities

  - Colorado Integrated Criminal Justice Information System (CICJIS): Facilitates the sharing of criminal justice data among five state-level agencies at key decision points in the criminal justice process

  - Emergency Operation Center-Interconnectivity (EOC-i): Defined a set of data exchanges for requesting and responding to incident and resource information enacted and acquired during the incident (developed through interactions with state, regional, local, and tribal first responders in the Seattle and Cincinnati regions as well as in coordination with FEMA National Incident Management System (NIMS) multiple working groups)

  - 100% of States participating thru DOJ's NDEX

NIEM Version 2.1

	Properties	Types	Codes Lists
NIEM 2.0	4,291	1,601	42,609
NIEM 2.1	5,692	2,157	46,430
	+33%	+35%	+9%

- Release of new domains, update of current domains, focus on cross domain info exchanges

- New:
  - Maritime
  - Chem/Bio/Rad/Nuc (CBRN)
  - Family Services

- Updated:
  - International Trade
  - Infrastructure Protection
  - Emergency Management

- Future Areas of Controlled Growth:
  - Federal Financials
  - Cyber
  - Health
  - Human / Family Service

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An Industry Perspective

- Reduced risk and cost of building information exchanges
- Improved success in meeting contract obligations
- Reduced communications problems
- Potential for reuse, replication of IEPD's, exchanges, web services
- Increased market for information sharing—IEPD's, exchanges, cross-domain information sharing
- Drives increased market for web services and SOA

- Industry has been involved from the beginning to help shape the model and harmonize the data content

- Representation on NBAC, NTAC, and NC&OC

- In the Justice domain, representation on XSTF

- Through the IJIS Institute, developing major reference IEPD's, help desk, coordinating training, technical assistance to state and local agencies, creating the IEPD clearinghouse

- Read more at www.ijis.org

- Expanding domains for NIEM means expanded markets for IEPD and system development in Health, Family support, etc.

- Use of NIEM for federal reporting systems such as N-DEx and potentially health related systems creates new revenue opportunities (some grant funded)

- Step toward unrealized potential of e-government with attendant cost reduction and better service

- Interest in many states to expand to other domains

- NASCIO is actively promoting NIEM within state government and across NASCIO's corporate partners

How to get started

1. Do some homework—read the executive summary and conops at niem.gov
2. Send developers and project managers to NIEM training
3. Volunteer to work on domain or national committees
4. Select a high priority exchange to pilot test
5. Define outcomes, success measures
6. Search the IEPD clearinghouse for reference exchanges
7. Draft an IEPD
8. Implement the exchanges
9. Document the results—share your IEPD's and experiences
10. Ask for technical assistance from the community

- Basic documentation
- Tools for schema generation and conformance test
- On-line executive summary
- On-line developer training
- Self-help knowledge base and help desk
- Clearinghouse of IEPD's
- Developer training

. . . and more at
www.niem.gov

Future of NIEM

The Model Content

Use Cases

- – Health – Health benefit access
- – Cyber – Event notification and request for resources
- – Financial Reporting – Recovery.gov and a possible relationship with XBRL US (eXtensible Business Reporting Language)

Goal of NIEM:

- *Include content to facilitate government cross-domain information exchange, including the ability to co-exist with standards, taxonomies or vocabularies already in use today.*

The IEPD Lifecycle Process

- Make it simpler to use!
- Reduce barriers in the implementation of NIEM!
- Industry helps smooth out the tools

The People

- Collaboration Zones
- Open and transparent model development

Join NIEM on LinkedIn
Join the NIEM group on LinkedIn and gain access to lively discussions and event updates. If you already have a profile on LinkedIn, simply search for NIEM and request to join the group.

Follow NIEM on Twitter
Follow NIEM updates on @NIEM_training and @NIEMExecDir
Don't forget to include #NIEM!

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www.niem.gov