MISSION:

FACILITATE INTERAGENCY AND CROSS--DOMAIN INFORMATION EXCHANGES
INFORMATION EXCHANGES BUILT ON NIEM

- Interstate Justice and Public Safety Network (NLETs) - exchange mission-critical law enforcement information.
- Amber Alert - child abduction emergency alert.
- Prescription Drug Monitoring Exchange (PMIX) - Mitigate pharmaceutical drug abuse across state lines.
- FBI Incident Reporting National Data Exchange System (N-Dex) standardized and secure criminal justice information sharing to relevant criminal justice agencies.
- FBI National Crime Information Center (NCIC) - United States' central database for tracking crime-related information.
- Centers for Disease Control and Prevention (CDC) Emergency Preparedness and Response Exchange Requirements - exchange and sharing of critical emergency management (EM) data.
- National Electronic Interstate Compact Enterprise (NEICE) - placement of children in foster care across state lines.
- Indian Child Welfare Act (ICWA) e-Notice.

https://www.niem.gov/about-niem/success-stories
LIVES ARE AT STAKE!

THE BASIS OF COLLABORATION
ROADBLOCKS TO INTEROPERABILITY

• Silos of incompatible and proprietary software
• Lack of consensus on data standards
• Cultural impediments to information sharing
• Resources for making improvements
NIEM CONTRIBUTION

• **Semantic Interoperability**: Agreement on consistent terminology and meanings

• **Syntactic Interoperability**: Standards for how data is represented
The Voices Of NIEM

Collaboration

Equality

Local
State
Tribal
International
Federal
Territorial
Private Sector
THE NIEM COMMUNITY--GOVERNANCE

NIEM ESC
NIEM Executive Steering Council

NIEM MO
Management Office
Managing Director

NTAC
NIEM Technical Architecture Committee
Stakeholder / User Community

Technical Architecture / Specifications

NBAC
NIEM Business Architecture Committee
Domain Stewards (14+)
IEPD Developers

Semantic Content for Reference Models
THE NIEM COMMUNITY—DOMAIN UPDATES

- Agriculture
- Biometrics
- Chemical, Biological, Radiological, & Nuclear
- Cyber (Newest)
- Emergency Management
- Human Services
- Immigration
- Infrastructure Protection
- Intelligence
- International Trade
- Justice
- Maritime
- Military Operations
- Screening
- Surface Transportation
- Statistics?
- Learning and Development?
THE NIEM TECHNOLOGY—THE DATA MODEL 5.0

• NIEM Core—data elements harmonized across all domains

• Domain specific—data elements unique to a domain expanding beyond the core
Beyond XML—JSON
Meta Model beginning
NIEM SUPPORT SERVICES EXTENSIONS

• Tool Catalog
  – Information exchange (IEPD) development
  – Model management
  – Model search and discovery
  – Information exchange storage, search, and discovery
• On-line training classes being updated
• Migration and other technical assistance
STANDARDS BASED ON NIEM

- ANSI 42.42 Radiological Nuclear detectors – CBRN Domain
- ANSI APCO Alarm Monitoring Company to Public Safety Answering Point (PSAP)
- OASIS EXDL, Emergency Data Exchange Language FEMA (Emergency Management Domain)
- NIST Big Data Framework Vol 7
- National Fire Protection NFPA 950 calls for compliance with NIEM. Emergency Incident Data Document (EIDD) IEPD – NISTIR 8255
- Biometrics ANSI/NIST ITL Standard – Biometrics Domain
- Biometric Conformance Test Software (BioCTS)
- Model Minimum Uniform Crash Criteria Guideline (MMUCC) – Department of Transportation
Consistency
NIEM provides consistency through reusable schema, which allows for many implementation options

Development
Flexible and extendable, NIEM saves development time through agreed-upon elements, relationships, and formats independent of how information is stored in individual systems

Support
New users can leverage what already exists and engage directly with other NIEM members for assistance.

WHICH LEADS TO

Lower Development Costs
Enhanced Mission Capabilities
Common Vocabulary
Reduced Maintenance Costs
Faster Mediation
Rapid Implementation
Increased Interoperability
Reuse
NIEM SUCCESS STORY
NIEM IMPACT
ON PHARMACEUTICAL DRUG MONITORING

- The Standard Prescription Monitoring Information Exchange
As diversion of controlled substances and the abuse involving these drugs continues to escalate, how can we improve interstate monitoring of drug use?

How do we enable prescription drug monitors to see across state lines?
Before NIEM, there was large gap in interstate reporting.

As abuse and diversion escalate, law enforcement and health practitioners need a standardized, scalable solution to share drug purchases and distribution.

The Standard NIEM Prescription Monitoring Program Information Exchange assists prescribers, health agencies, and law enforcement in identifying potential abuse and diversion.
REFERENCE MATERIAL

- Starting Point:  https://www.niem.gov/
- Training:  https://niem.github.io/training/
- Technical Resources:  https://niem.github.io/
- Implementation Support:  https://niem.github.io/training/iepd-implementer/
- Tools:  https://www.niem.gov/tools-catalog
CONTACT US

NMO Katherine Escobar (Katherine.b.escobar.civ@mail.mil), 757-203-8631

NMO Steve Sullivan (stephen.m.sullivan14.ctr@mail.mil), 757-203-8619

SLTT Paul Wormeli (pwormeli@wormeliconsulting.com), 703-627-8154

SLTT Mike Phillips (michaelphillips@slginnovation.com), 850-443-1861

NIEM.gov
NIEM SLTT TIGER TEAM

State, local, tribal and territorial information exchange