AGENDA

1. NIEM Impact on Pharmaceutical Drug Monitoring
   *How do we enable prescription drug monitors to see across state lines?*

2. The NIEM Framework and Process
   *What common services, governance models, processes and tools are provided by NIEM?*

3. NIEM Governance
   *How is NIEM governed? How does the federated domain governance function? What are the different NIEM committees?*

4. NIEM Program Updates
   *What are next steps for the program? Updates on NIEM international adoption?*
THE NIEM FORMULA FOR SUCCESS

Identification of large scale, complex processes

Creation of the standardized exchange

Governance and adoption of the exchange

- Selection based on number of stakeholders and potential for reuse
- Complexity increases with numbers of entities involved
- Benefit increases with numbers of implementations
NIEM IMPACT ON PHARMACEUTICAL DRUG MONITORING

The Standard Prescription
Monitoring Information Exchange
NIEM IMPACT ON PHARMACEUTICAL DRUG MONITORING

From 1992-2003, 15.1 million Americans abused prescription drugs. That’s more than cocaine, hallucinogens, inhalants, and heroin COMBINED.

During the same period, there was a 150% INCREASE in prescriptions written for controlled substances.

The brand cost of 4 mg of Dilaudid is $88.94 per 100. The street value for the same amount is $10,000. The demand is REAL.
1 in 5 teens are abusing prescription drugs.

40% of teens believe that prescription drugs are safer than illegal drugs.

29% of teens believe that prescription pain relievers are not addictive.

“You have young people getting pills for free from the homes of family members and friends.”

- John Walters, former White House drug czar
Prescription drug monitoring is the coming together of pharmacy boards, health agencies, and law enforcement to monitor drug diversion.

There are three facets to the problem—misuse, abuse, and **diversion**—and three players—prescribers, dispensers, and patients.

Pharmaceutical drug abuse is crossing state lines as offenders realize the gap in interstate reporting.

As this map shows, **less than 20%** of prescriptions written in California were written for California residents.
NIEM IMPACT ON PHARMACEUTICAL DRUG MONITORING

• As diversion of prescription 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 patient drug history.

The Standard NIEM Prescription Monitoring Program Information Exchange assists prescribers, health agencies, and law enforcement in identifying potential abuse and diversion.
NIEM IMPACT ON PHARMACEUTICAL DRUG MONITORING

The Prescription Monitoring Program uses **NIEM to empower connections:**

- 1,600,000 Prescribers
- 284,000 Pharmacists
- 73,000 Pharmacies
- 54 Boards of Pharmacy
- 18,000 Law Enforcement Agencies
- 11,000 Substance Addiction Treatment Programs
- 140 Consumer Protection Agencies

This is a solution that the 50 states, Canada, and Mexico can leverage.

This map identifies the status of Prescription Drug Monitoring Programs (PDMPs):
THE NIEM FRAMEWORK AND PROCESS
WHAT NIEM IS NOT

• **A standard:** NIEM enables the creation of standardized exchanges of information as it moves between systems across agencies.

• **A database:** NIEM does not store information.

• **Software**

• **Exclusive to law enforcement and justice:** Twelve domains including international trade and family services participate in NIEM, and that number is growing to include human services and health, and more.

• **Exclusive to federal government:** NIEM is used by all 50 states as well as local government, private industry, and internationally.

• **Intrusive to existing systems:** NIEM allows organizations to leverage existing legacy infrastructure and move information quickly and effectively without rebuilding systems.

• **Unsupported:** Integrated into the NIEM framework are ready-to-use methodologies, tools, training, data models and an active practitioner community.
WHAT NIEM IS

• **Community-Built Framework:** NIEM is a grassroots initiative that was born as a best practice developed by a handful of state and local practitioners. NIEM connects communities of people who share a common need to exchange information to advance their missions.

• **A way of exchanging information that comprises of:**
  
  – A commonly understood way to connect data to improve government decision-making for the greater good. NIEM’s data dictionary has approximately 5,000 accepted terms commonly used in an information exchange that is governed by a broad community.

  – A well tested and mature repeatable, reusable process for developing information exchange requirements that improves efficiency, saves time, reduces costs, and advances and fulfills organizational missions.
NIEM connects communities of people who share a common need to exchange information in order to advance their missions, and provides a foundation for seamless information exchange between federal, state, local, and tribal agencies. Much more than a data model, NIEM offers an active user community as well as a technical and support framework.
NIEM intentionally does not address standardizing data inside legacy systems. NIEM serves as a translation layer (providing a common understanding) between and across disparate systems.
The NIEM Lifecycles

**Common Language**
(Data Model Lifecycle)

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

**Repeatable, Reusable Process**
(Exchange Specification Lifecycle)
NIEM GOVERNANCE
NIEM's governing structure is comprised of Federal, State, Local, Tribal and private organizations.

NIEM is jointly managed at an executive level by the Department of Homeland Security (DHS), Department of Justice (DOJ), and Department of Health and Human Services (HHS).
WHO STEERS NIEM CURRENTLY?

Founders and Voting Members
• Dept of Justice
• Dept of Homeland Security
• Dept of Health and Human Services

Ex-Officio Members
• Global Justice Information Sharing Initiative
• Office of Management and Budget
• Program Manager, Information Sharing Environment
• NASCIO

Partners
• Terrorist Screening Center
• Dept of Defense / Dept of Navy
• Dept of State, Consular Affairs (invited)
WHO GOVERNS NIEM DOMAINS?

- Justice
- Screening
- Immigration
- Intelligence
- Chem/Bio/Rad/Nuc
- Maritime
- Cyber
- Family Services
- Emergency Management
- Infrastructure Protection
- International Trade
- Biometrics

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<thead>
<tr>
<th>Domain</th>
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<td>Cyber</td>
<td>DHS/NPPD/CS&amp;C</td>
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<td>Family Services</td>
<td>HHS/ACFS &amp; DOJ</td>
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<td>Emergency Management</td>
<td>DHS/FEMA, DHS/S&amp;T (state &amp; local)</td>
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<td>Infrastructure Protection</td>
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<td>International Trade</td>
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<td>Biometrics</td>
<td>DHS/NPPD, DOJ/FBI, DOD, NIST</td>
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<td>*Health</td>
<td>HHS/ONC &amp; HHS/OCIO</td>
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<td>*Human Services</td>
<td>HHS/ACFS &amp; NYC/HHS</td>
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<td>*Financial (Budget, Planning, Accountability, Grants)</td>
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<td>DOMAIN</td>
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<td>Transportation</td>
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HHS officially joins DOJ and DHS on the NIEM Executive Steering Council as third strategic partner. NASCIO joins as a key advisor.

- Michael Carleton, HHS CIO, signed onto NIEM in October 2010
- Will begin establishment of the NIEM Health and NIEM Human Services Domains

North America Day

- With Canada CIO, Corinne Charette, and Mexico CIO, Carlos Viniegra
- DOJ, DHS, HHS and GSA engaged
- Trilateral memorandum signed in July 2011

NIEM establishing a Cyber and Biometrics Domain

- Roberta Stempfley, DHS NCSD Director, established NIEM Cyber in December 2010
- Dave Epperson, DHS NPPD, & Chase Garwoord, DHS USVISIT, established Biometric Domain facilitated by NIST in February 2011
MEMORANDUM FOR THE FEDERAL CHIEF INFORMATION OFFICERS

FROM: Michael W. Colvin<
Chief Information Officer, Department of Health and Human Services

Subject: Final Report: National Information Exchange Model (NIEM) Program

I. Introduction

The National Information Exchange Model (NIEM) is a standardized approach to sharing and exchanging data across federal, state, local, and tribal governments. The NIEM Program Management Office (PMO) has been working diligently to ensure the successful implementation of NIEM across various domains.

II. Key Achievements

1. Standards Development:
   - NIEM 3.0 has been released, incorporating lessons learned from previous versions.
   - The NIEM 4.0 roadmap has been established, focusing on improvements in scalability and support for emerging technologies.

2. Implementation:
   - Over 100 organizations have implemented NIEM, contributing to the growing ecosystem.
   - Collaborative efforts with state and local governments have been initiated, facilitating the adoption of NIEM in everyday operations.

III. Next Steps

1. Continued Development:
   - NIEM 5.0 is expected to be released in 2023, with an emphasis on enhancing interoperability.

2. Training and Support:
   - NIEM training resources have been expanded to support ongoing adoption.

IV. Conclusion

The NIEM Program has made significant strides in advancing the information exchange capabilities of federal, state, local, and tribal governments. Building on these achievements, the NIEM community remains committed to fostering a collaborative and innovative environment.

Michael W. Colvin
Chief Information Officer
Department of Health and Human Services

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A Call to Action: Information Exchange Strategies for Effective State Government

The National Information Exchange Model (NIEM) provides a broad range of products and capabilities for planning and implementing enterprise-wide information exchanges. Government effectiveness and citizen centers government services require effective exchange of business collaboration and communication. "NIEM" standards will allow relevant investment and necessary success to government agencies.

NIEM recommends that state government adopt NIEM capabilities as a component of state government enterprise architecture and data management strategy. This will provide some of the necessary and valuable for NIEM, the future of NIEM, success and sustainability on how to get started. The appendix presents a number of relevant references.

In general, NIEM recommends that state governments:

- Learn how to plan and implement information exchange and how to employ NIEM.
- Gain support through executive and technical staff training.
- Take advantage of NIEM training—online and on-site.
- Begin to use NIEM— leverage NIEM technical support.
- Ensure staff knowledge, experience and skills through ongoing training and NIEM National Events.
- Stay connected to the NIEM site for new developments, additional domains, and continued adoption across government.

Promote NIEM for government enterprise architecture and data management strategy. This will provide some of the necessary and valuable for NIEM, the future of NIEM, success and sustainability on how to get started. The appendix presents a number of relevant references.

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<td>STRATEGIC NEXT STEPS</td>
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<td><strong>Increasing NIEM international adoption</strong> (Canadian and Mexican cross-border initiatives)</td>
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<td><strong>Broadening NIEM state &amp; local implementations</strong> (including support through new Homeland Security grants specifications)</td>
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<td><strong>On-boarding new and strengthening existing NIEM Domains</strong></td>
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<td><strong>Expanding governance to support other Federal, State, Local and International agencies</strong></td>
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