# NASCIO & NIEM Working Together:
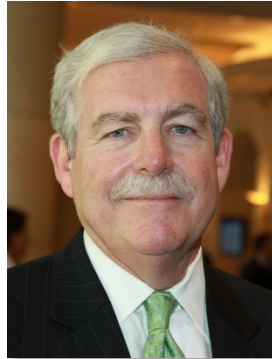## *Advancing Information Exchange Efforts Across All Levels of Government*

## Tuesday, April 12 at 2 pm ET

# Our Speakers Today

**Host**
Doug Robinson
Executive Director
NASCIO

**Donna Roy**
Executive Director,
NIEM

**Christina Bapst**
Acting Managing
Director,
NIEM

**Maria Roat**
Chief Technology
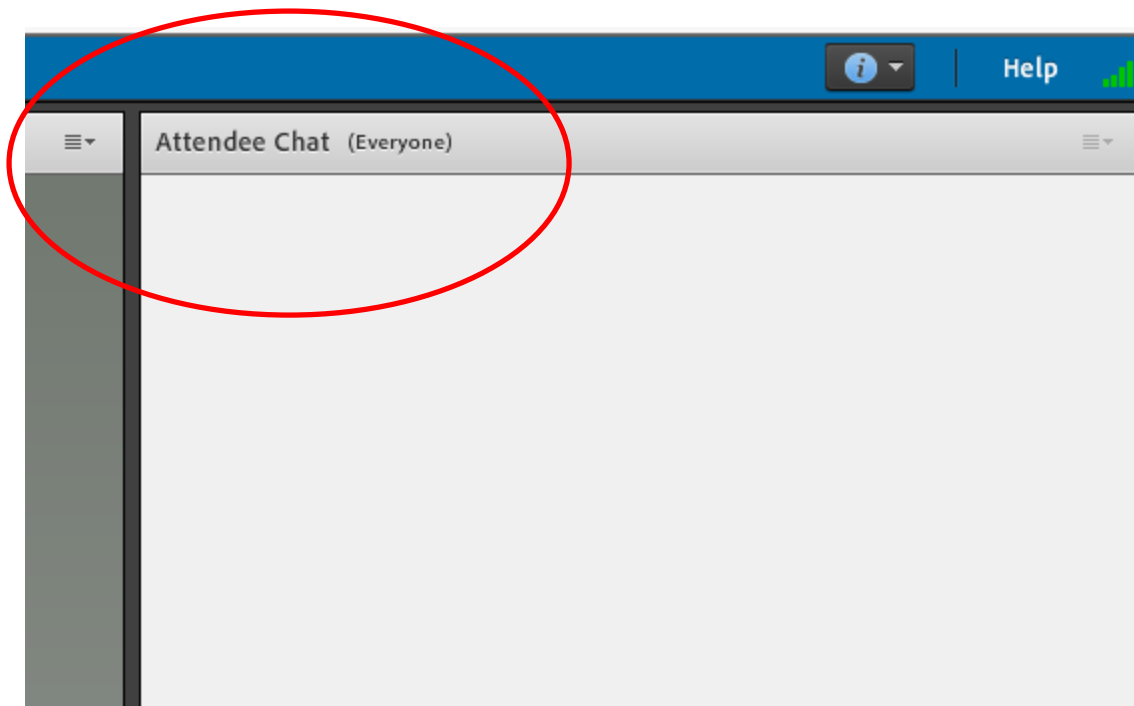Officer,
US Department of
Transportation

The Best of NIEM
2015 Winners!

# Questions?

*Please use Chat – send to presenters*

# Government Data Landscape

Data stored across multiple systems from multiple agencies in multiple formats

Data quality issues: dirty and messy

Lack of standards, consistency

Data sharing is difficult: format, language, access, culture, myths

Security concerns and privacy issues

Little insightful, usable data on "customers"

# 2016 NASCIO Federal Advocacy

Congress should work with state CIOs to include and enhance cross-boundary collaboration in legislative proposals

Congress should ensure appropriate funding to enable information sharing and exchange is authorized in legislative proposals

The federal government should continue to support the National Information Exchange Model (NIEM) and build new communities within NIEM to ensure it remains the standard of choice for state governments and our partners
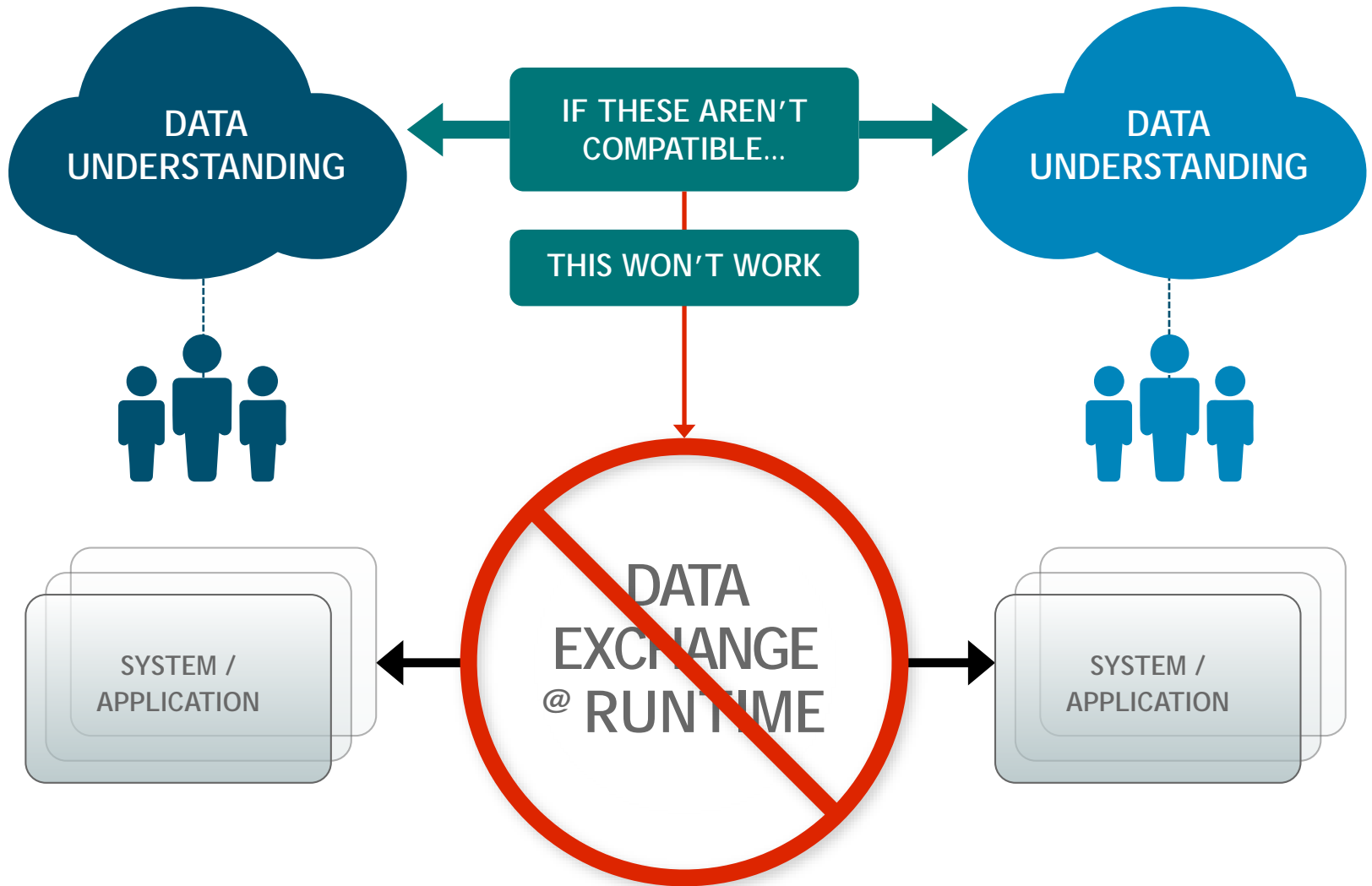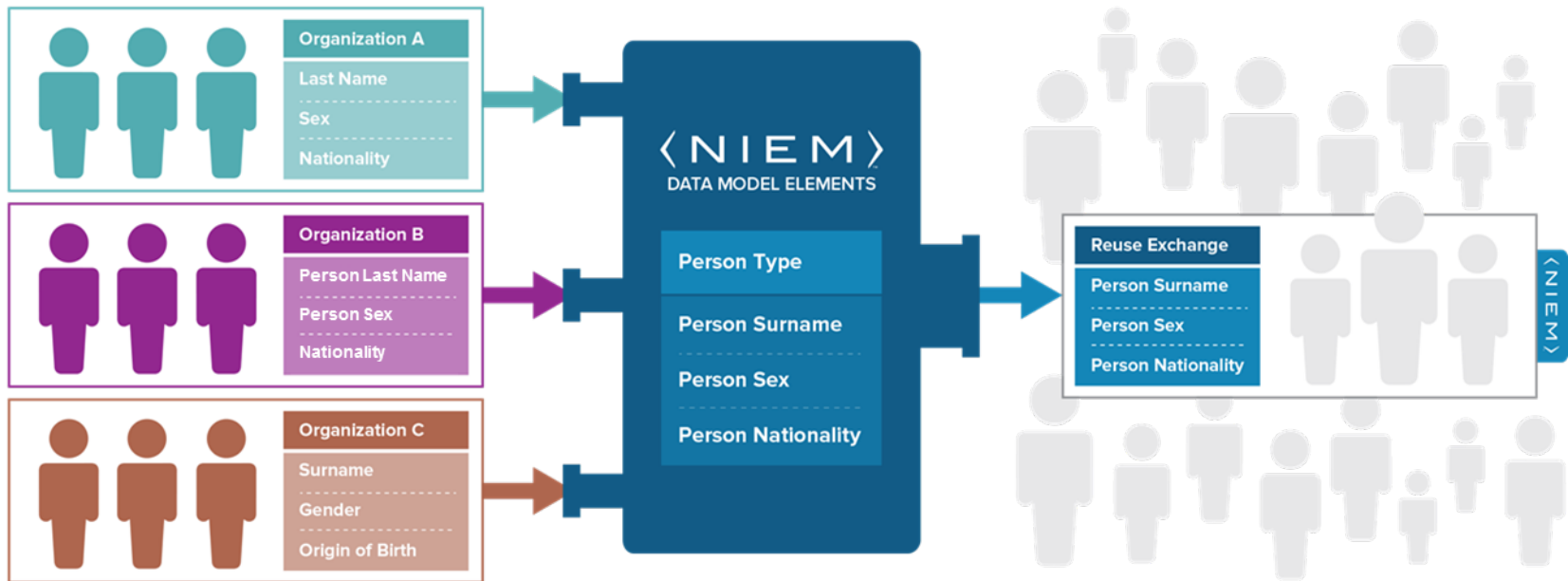
# Polling Questions

# What is NIEM?

NIEM is a common vocabulary that enables efficient information exchange across diverse public and private organizations.

NIEM can save time and money by providing consistent, reusable data terms and definitions and repeatable processes.

# Data Interoperability Problem



DATA UNDERSTANDING

IF THESE AREN'T COMPATIBLE...

THIS WON'T WORK

DATA UNDERSTANDING

SYSTEM / APPLICATION

DATA EXCHANGE @ RUNTIME

SYSTEM / APPLICATION

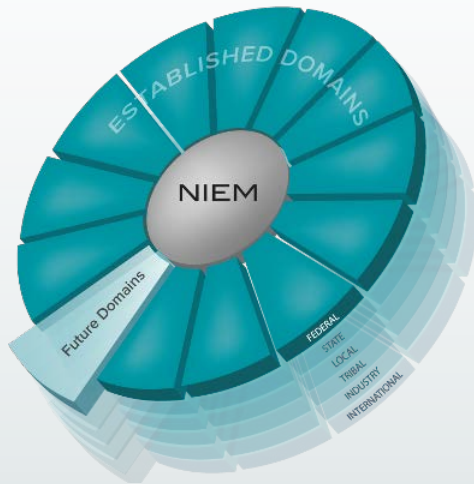# How NIEM Helps Form the Foundation for Data Exchange



Using NIEM, organizations can come together to agree on a common vocabulary. When additional organizations need to be added to the information exchange, the initial NIEM exchange can be reused, saving time and money.

# The Big Picture: How NIEM Works

Think of the NIEM data model as a mature and stable data dictionary of agreed-upon terms, definitions, relationships and formats—independent of how information is stored in individual agency systems.

## Common Vocabulary
### (Community-driven Data Model)



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

## Repeatable, Reusable Process
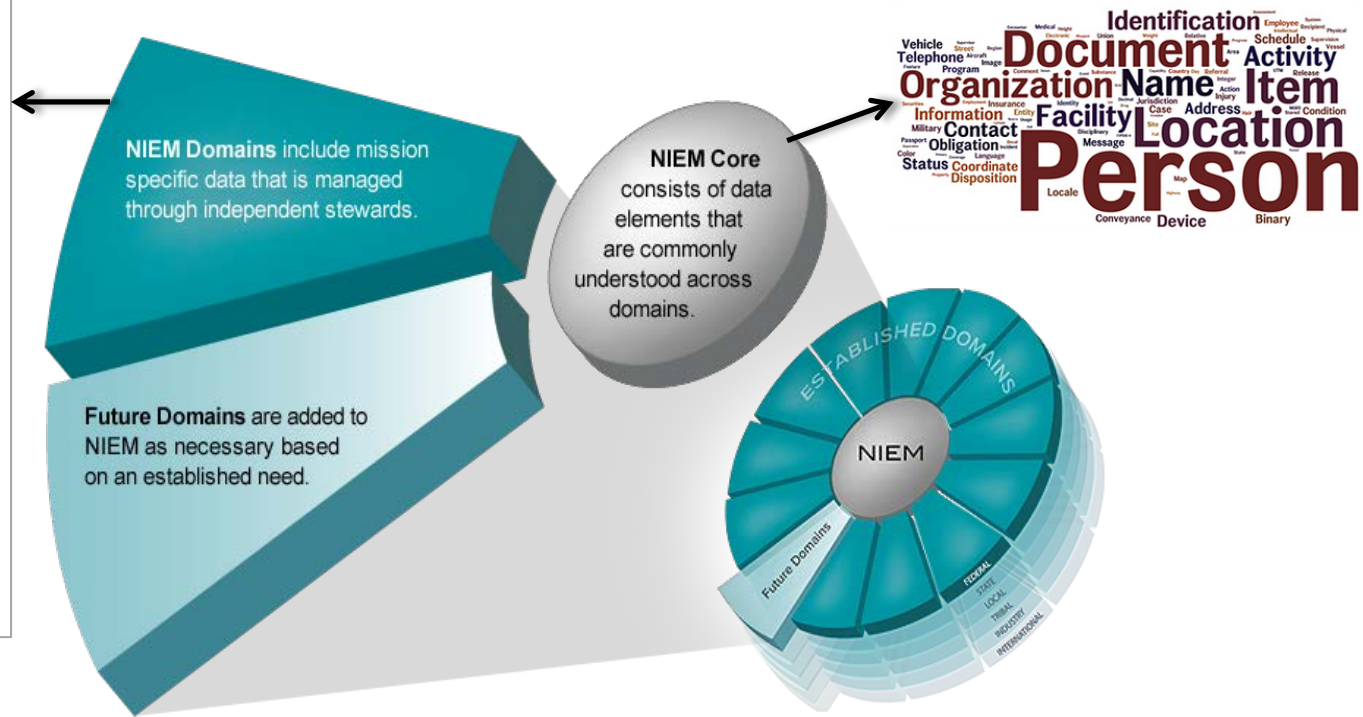### (Information Exchange Development Lifecycle)



NIEM enables organizations to move information across organizational boundaries
in order to interoperate and act as one, while maintaining authority of their own existing systems.

# Model Overview

The NIEM model itself is currently available in XSD and Microsoft Excel formats, where XSD is the authoritative representation. You can also use the NIEM model with Unified Modeling Language (UML) tools to graphically depict exchanges and the elements of each exchange message.

The NIEM data model consists of two sets of closely related vocabularies: **NIEM Core** and individual **NIEM Domains**.

- Biometrics
- Chemical, Biological,
   Radiological, & Nuclear
- Children, Youth, and
   Family Services
- Emergency Management
- Human Services
- Immigration
- Infrastructure Protection
- Intelligence
- International Trade
- Justice
- Maritime
- Military Operations
- Screening
- Surface Transportation (NEW!)



**NIEM Domains** include mission specific data that is managed through independent stewards.

**Future Domains** are added to NIEM as necessary based on an established need.

**NIEM Core** consists of data elements that are commonly understood across domains.

# Hearing from NIEM's New Surface Transportation Domain!

**Maria Roat**
Chief Technology Officer,
US Department of
Transportation

# Best of NIEM 2015 Awards

# Best of NIEM Hall of Fame

**Best of NIEM 2009 Winners**
- USCIS Enterprise Service Bus Program
- HHS Connect, Information Architecture and Development
- Disaster Assistance Improvement Program Management Office
- Colorado Integrated Criminal Justice Information System
- Emergency Operation Center - Interconnectivity

**Best of NIEM 2011 Winners**
- Northern Virginia CAD2CAD Exchange
- State of Iowa Criminal Justice Information Sharing Project
- Pennsylvania Data Quality Framework Project
- New York State Integrated Justice Portal
- U.S. Department of State, Bureau of Consular Affairs, Consular Systems
- and Technology, Enterprise Service-Oriented Architecture Migration

**Best of NIEM 2013 Winners**
- City of Richmond Automated Secure Alarm Protocol
- Maritime Information Sharing Environment
- New York State Justice Center Incident Report
- Open Justice Broker Consortium
- Temporary Resident Biometrics Project

**Best of NIEM 2014 Winners**
- Shared Computer Operations for the Protection and Enforcement (SCOPE) II
- North Carolina Families Accessing Services Through Technology (NC FAST)
- Wisconsin Department of Corrections
- Tactical Infrastructure Enterprise Services Coalition Warfare Program
- Pima County, AZ Justice – Health Integration Project

# And the winner is...

# Best of NIEM 2015 Presented to:

## Kansas Criminal Justice Information System (KCJIS): Electronic Disposition Reporting for DUIs and Traffic Safety

*Kansas Bureau of Investigation, State of Kansas Traffic Records Coordinating Committee, Traffic Safety Manager, Kansas Department of Transportation*

KCJIS has improved electronic disposition reporting for DUI offenses, which empowers public safety agencies to make informed, timely decisions that could improve transportation safety, prevent DUIs, and even save lives.
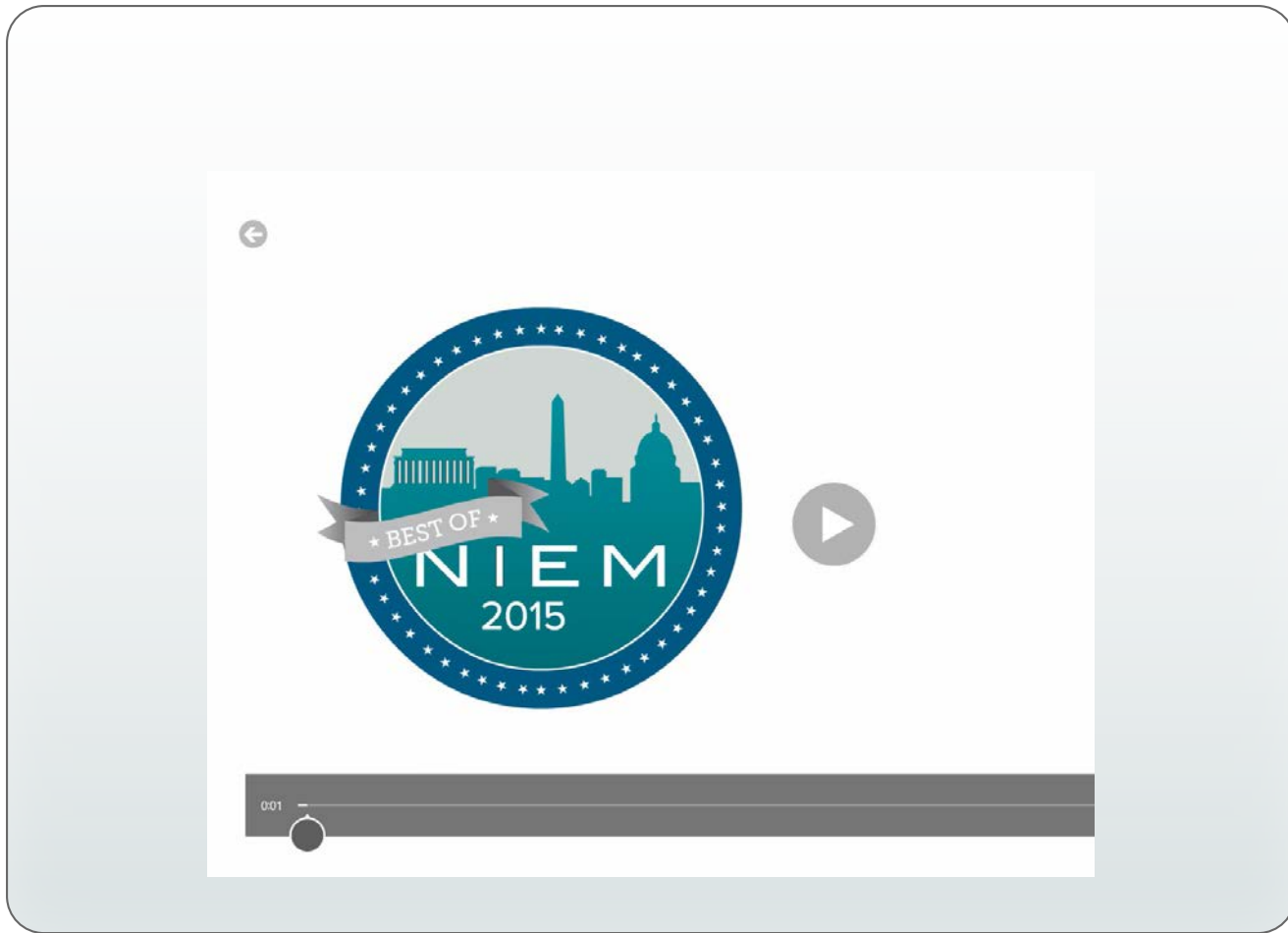
# Congratulations, Kansas!



**Joe Mandala**
Chief Information Officer,
Kansas Bureau of
Investigation

# The KCJIS Success Story

# Best of NIEM 2015 Awards

# And the winner is...

# Best of NIEM 2015 Presented to:

## Volusia County Florida Clerk of the Circuit Court: Comprehensive Case Information System (CCIS 3.0)

*Volusia County Florida Clerk of the Circuit Court*

In an effort to standardize and centralize crucial justice information, CCIS 3.0 enables diverse organizations and state agencies to effectively share, access, and query local court data and case files in real time.
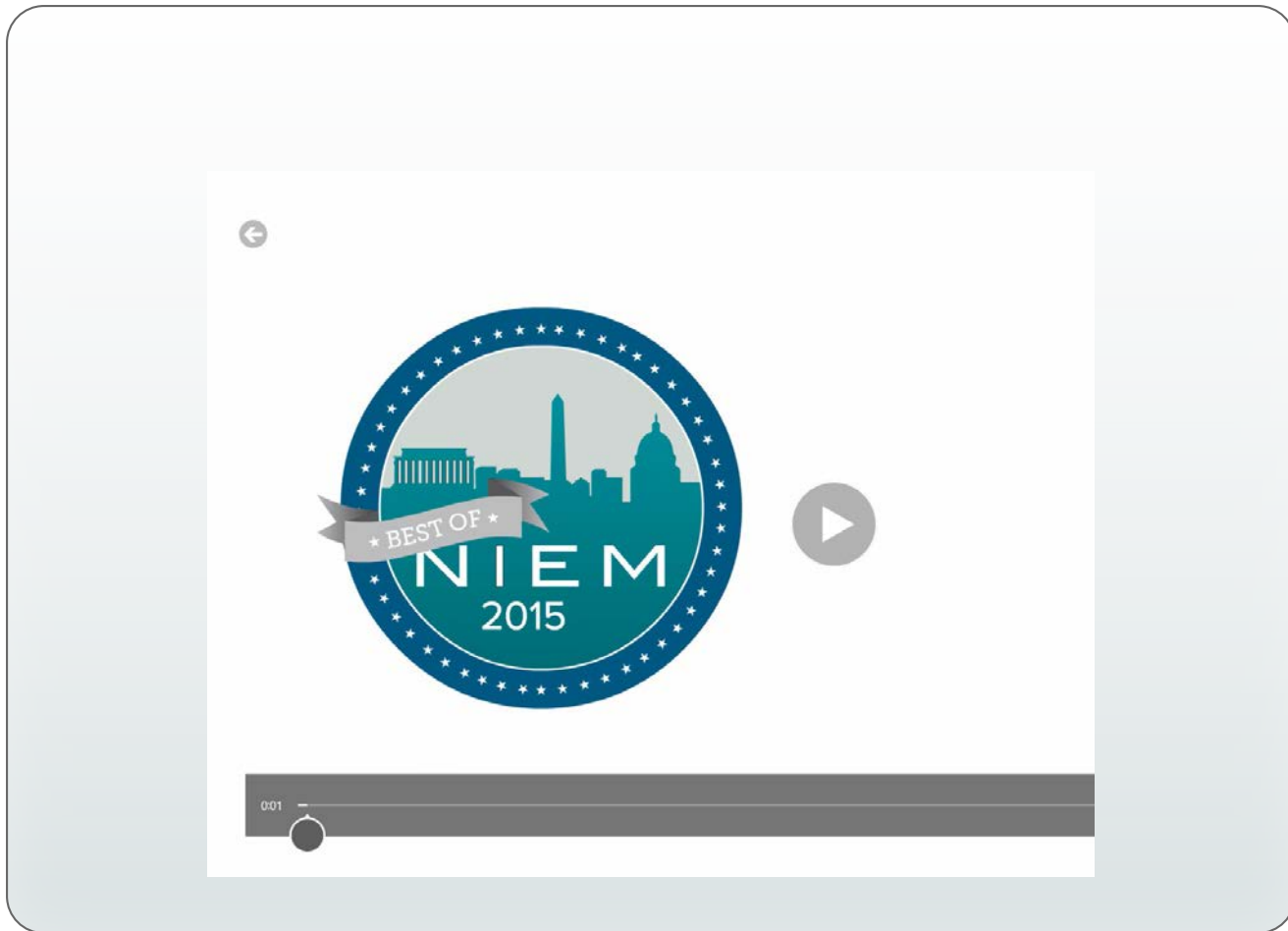
NASCIO

# Congratulations, Volusia County!



**Tony Landry**
Chief Information Officer,
Clerk of the Circuit Court
Volusia County Florida

# The Volusia County Success Story

# Congratulations to our
# Best of NIEM 2015 Winners!

# How Do I Get Started?

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Q&A

# Contact the NIEM Team!

## Information@NIEM.gov

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