



NIEMOPEN

NBAC TSC Slides
29 May 2025 Meeting

Stephen Sullivan

29 MAY 2025 NBAC TSC AGENDA

- 1:00 NBAC Chair (s) Opening Remarks – Mr. Kamran Atri, Thomas Krul & Paul Wormeli
- 1:05 NIEM Management Office (NMO) Update – Mr. Steve Sullivan
 - 22 May Webinar
 - 29 May PGB Meeting
 - 8 October Reveal
- 1:10 NTAC Update – Scott Renner, Brad Bolliger
- 1:15 Communications & Outreach NMO Sub-Committee – Paul Wormeli
 - Washington DC held an information sharing conference for the Justice community this May. Mr. Wormeli provided a brief showcasing NIEMOpen. He will share that presentation with us, now.
- 1:45 Questions/Final Remarks

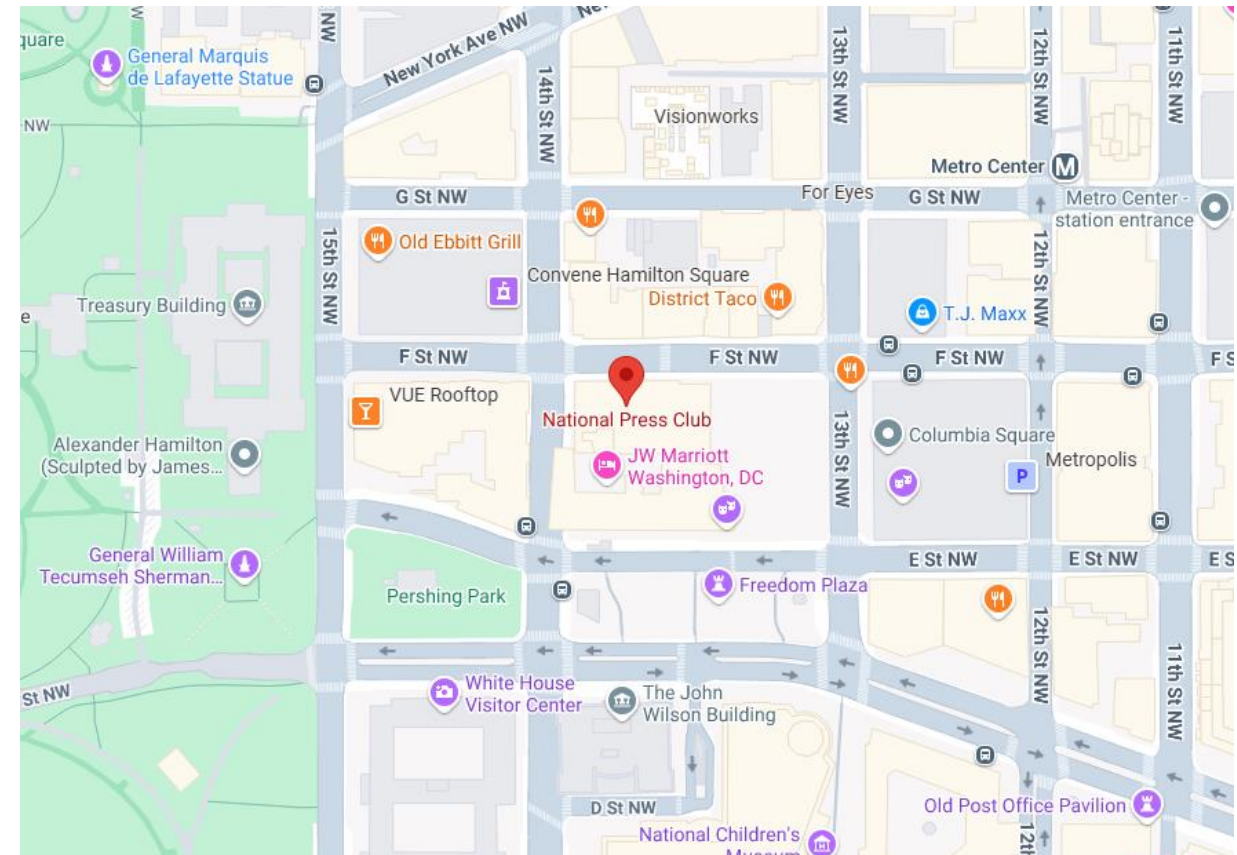
NIEM MANAGEMENT OFFICE

- Webinar conducted 22 May 1-3 PM EDT
 - Video will be made available
- PGB Meeting 29 May 2-4 PM EDT
 - **Microsoft Teams May PGB**
 - [Join the meeting now](#)
 - Meeting ID: 993 272 665 665
 - Passcode: yQ6Cz6Wh
 - Dial in by phone**
 - [+1 410-874-6749,,743104072#](#) United States, Odenton
 - Phone conference ID: 743 104 072#

REVEAL SUMMIT UPDATE

- **Date/time:** 8 October 2025, 12 Noon – 4 PM
- **Venue:** National Press Club Ballroom
– 529 14th St NW, Washington, DC 20045
- **Registration:** [link available mid-June](#)
- **“DRAFT” Agenda**

Time	Duration	Topic	Presenter
12:00 PM	30 min	Registration & Admin	Staff
12:30 PM	20 min	Welcome/Introduction/ Agenda <ul style="list-style-type: none">• Admin remarks• Agenda• NIEMOpen an OASIS Open Project• Organization• Leadership - PGB• Sponsors• Domains	Katherine Escobar
12:50 PM	30 min	Keynote	TBD
1:20 PM	10 min	NIEM Technical Architecture Overview	Dr. Scott Renner
	10 min	NDR v6.0, Model Version 6.0	Dr. Scott Renner
	10 min	Common Model Format (CMF) Concept & Demo	Dr. Scott Renner
1:50 PM	5 min	MEP Tool	Shunda Louis
	5 min	API 2.0 Functionalities & Demo	Shunda Louis
	10 min	Break	
2:10 PM	45 min	Future of NIEMOpen	Katherine Escobar
2:55 PM	15 min	Break	
3:10 PM	40 min	NIEMOpen Excellence Awards	Shunda Louis, Katherine Escobar
3:50 PM	10	Closing & Adjourn	Katherine Escobar



PGB APPOINTED VOTING MEMBERS



Ms. Katherine Escobar
PGB Chair
Deputy Division Chief, Data and Standards Division at Joint Staff J6 and NIEM Managing Director



Ms. Christina Bapst-Stump
Science and Technology Directorate, US Department of Homeland Security



Mr. Gary Egner
Director Business Development, Equivant



Mr. John Wandelt
Principal Research Scientist, Georgia Tech Research Institute



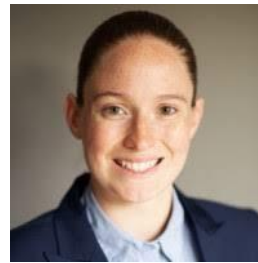
Ms. Maria Cardiellos
Executive Director Integrated Justice Information Systems Institute



Mr. Payton Lamb
Data Engineer
Commonwealth of Virginia
Office of the secretary of Administration
Office of Data Governance and Analytics



Ms. April Mitchell
FBI It Specialist and Technical Lead of Data Standards in the Criminal Justice Information Services (CJIS) Division



Ms. Erin Partin
Data Scientist, Office of the Principal Deputy Director, National Institute of Justice (NIJ)



Ms. Erica Smith
Data Scientist, Unit Chief – Law Enforcement Incident-Based Statistics Unit, Bureau of Justice Statistics (BJS)



Mr. Tom Welch
Director of Information Technology OHIO HIDTA – Including Northern KY & Western PA



Mr. James T. Herbert
VP, CMO
APN Software



DATA STANDARDS FOR INTEROPERABILITY

Paul Wormeli
Co-Chair

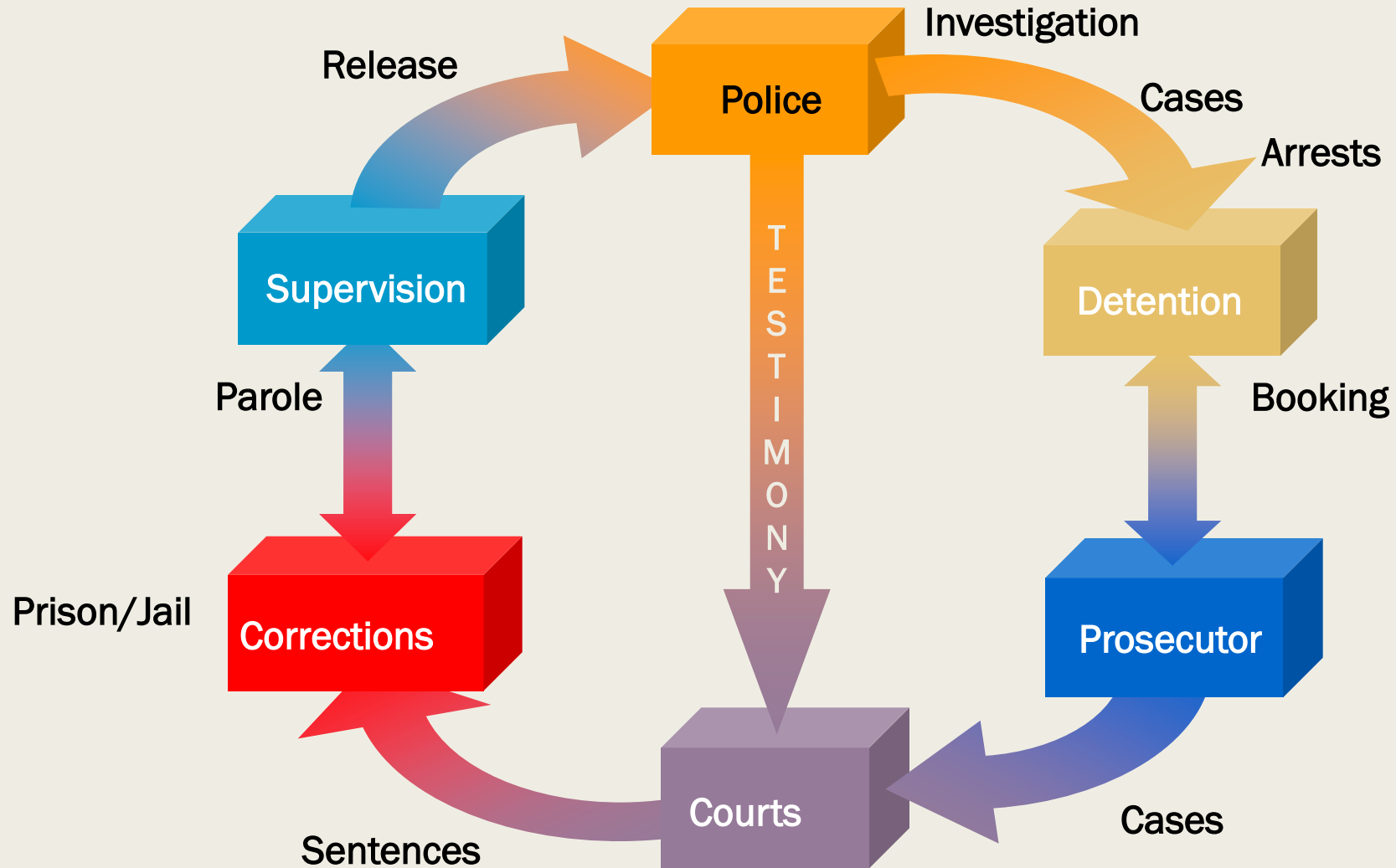
NIEMOpen Business Architecture Committee

A satellite view of Earth from space, showing the curvature of the planet and city lights at night. The image is dark blue with a bright blue horizon line. The text "AXIOM" is in the top left, and a quote is in the center.

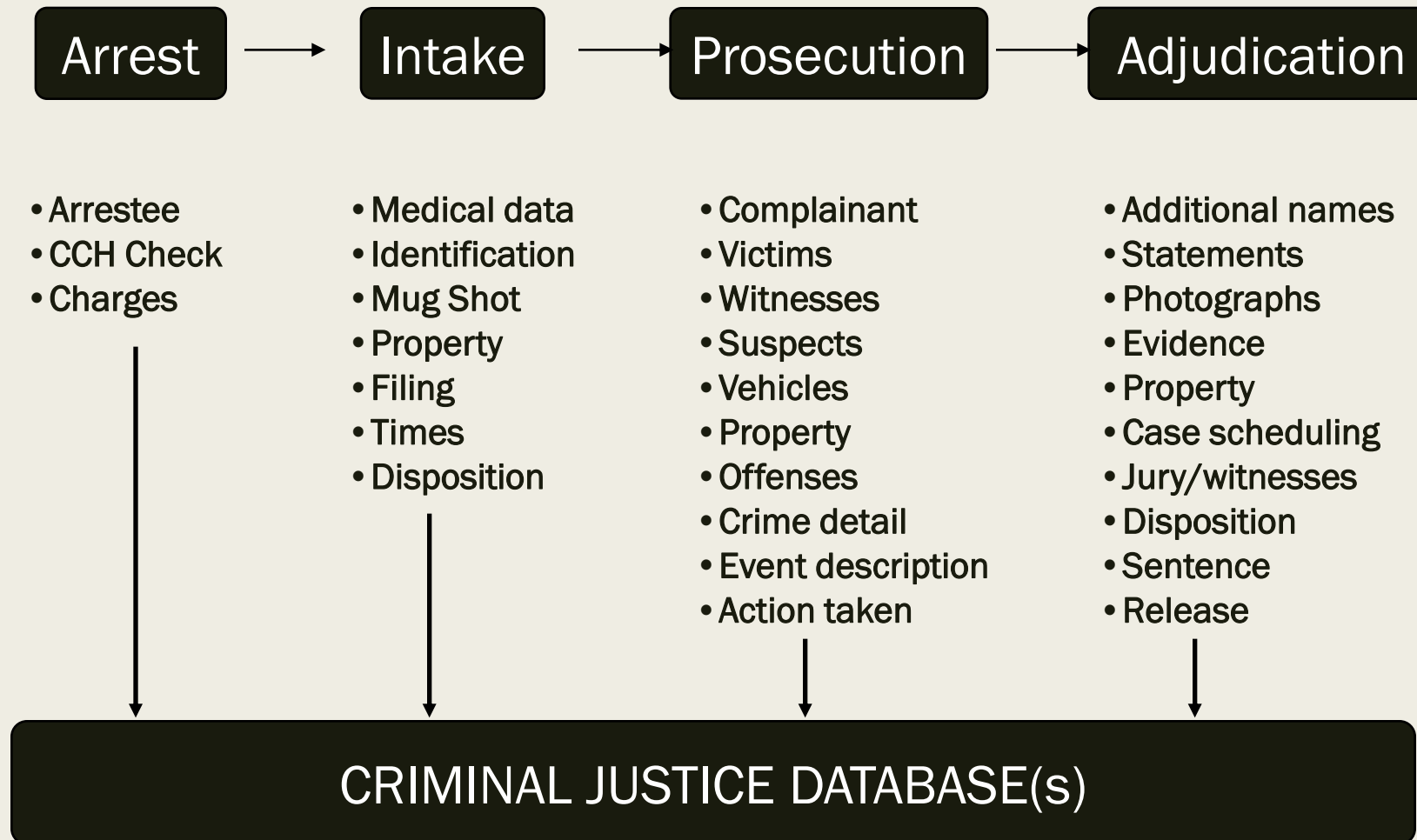
AXIOM

Information Sharing is at the heart of the
criminal justice enterprise

Justice Information Sharing

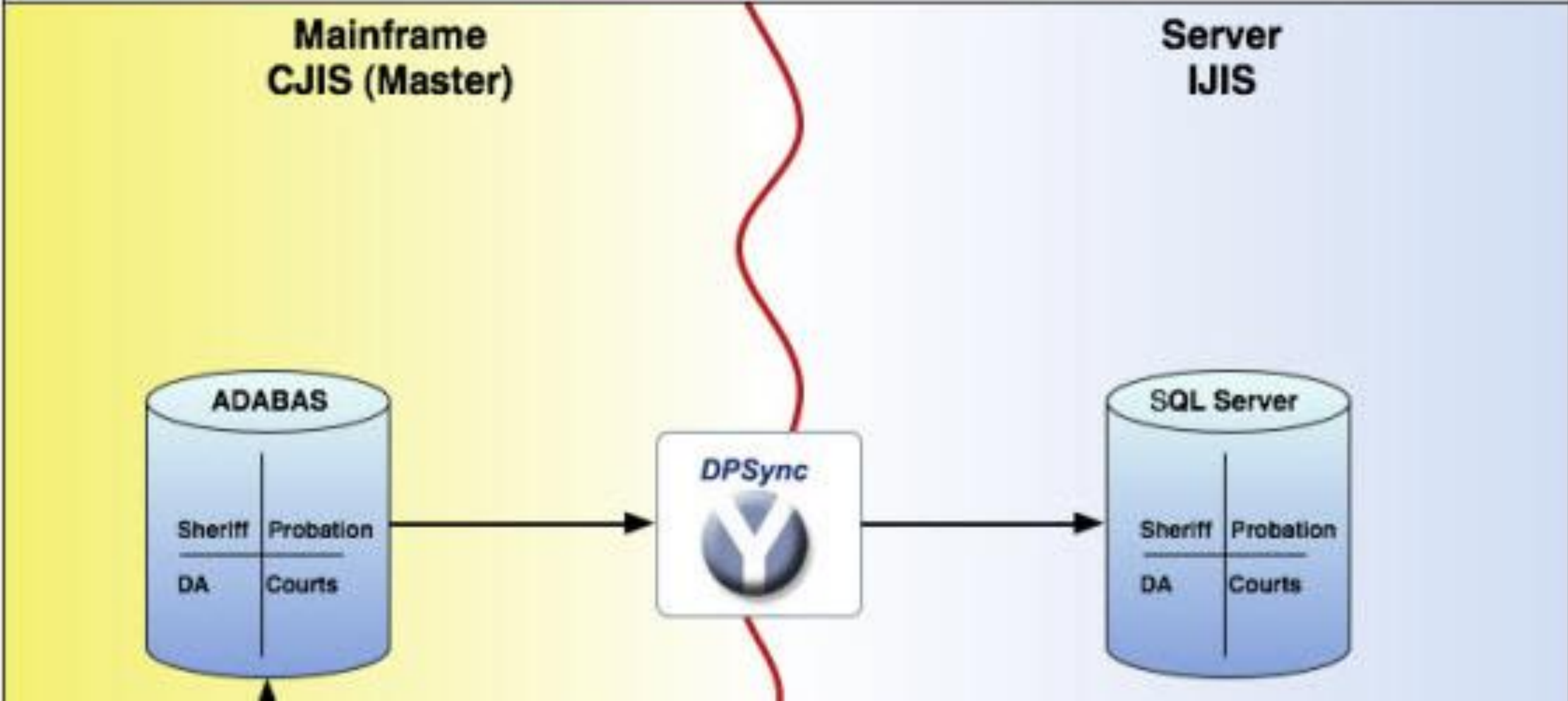


Criminal Justice Information Flow

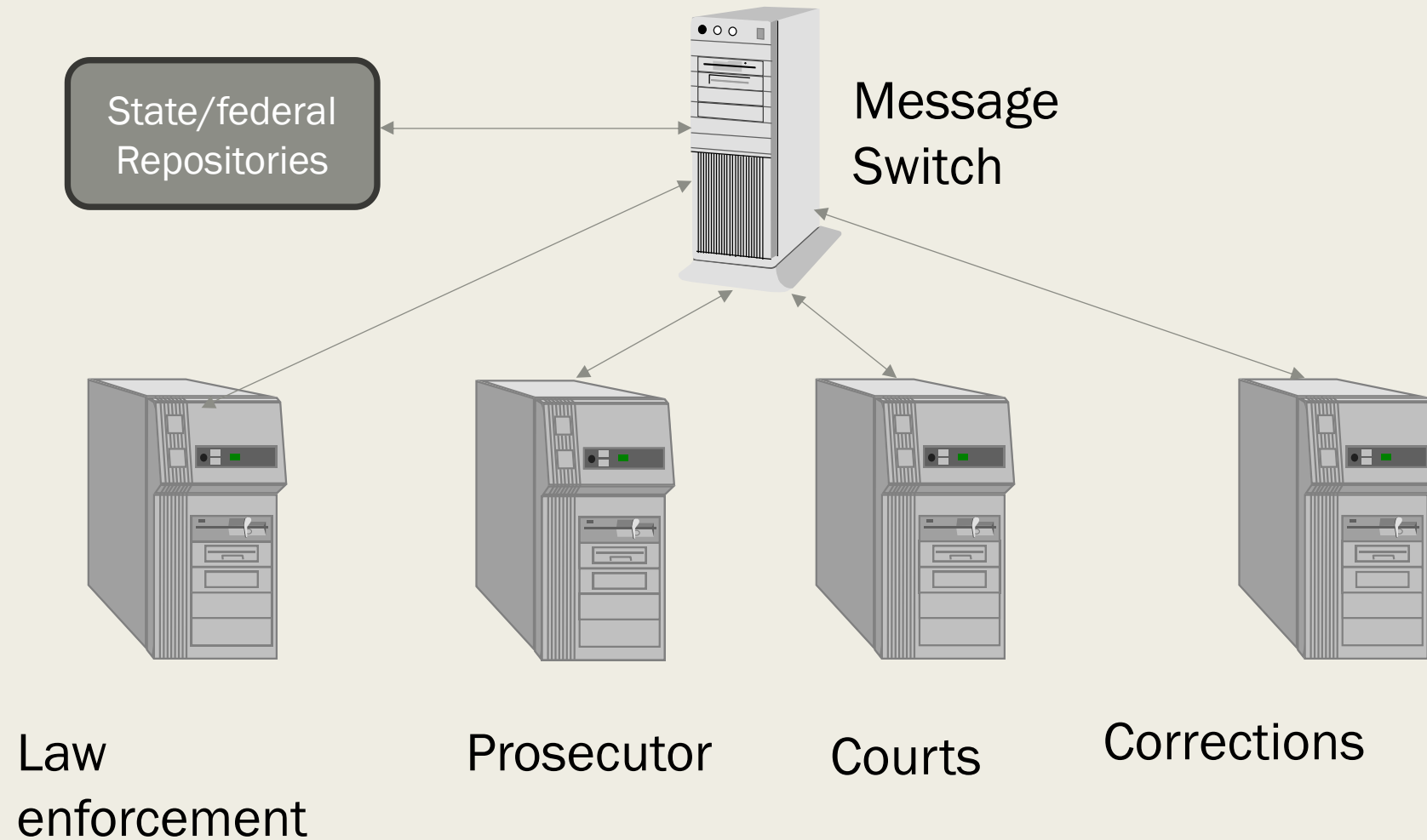




Early CJIS monolithic systems



Late 20th century architectures



The numbers game—What is a case?

Matching records—Which John Smith is it?

Proprietary architectures and data—
Who owns the data?

Incompatible database designs—
Computerspeak variations in data

Varying structures in separate silos—
the inward focus

Obstacles to
sharing
information



For the 21st century

THE NEXT GENERATION

Key Features

- Person-centric data integration
- Electronic case folder—a 360-degree view
- Integrating structured and unstructured data sources
- Seamless workflow management across agencies
- Notification and alerts
- Flexible output reporting
- Full video/audio integration
- Distributed data management
- Deployable anywhere (on-premise or on any cloud)

The background of the slide features a complex, abstract design. It includes various mathematical expressions such as $1+x+y+2a+21$, $\lim_{h \rightarrow 0} h$, $x=0 \times n$, $\{x-12-y+n\}$, $(1+x)y+2a+3g+x$, $x+y+2a+2$, $2+3g+2a$, $2a+21$, and $2a+21$. There are also binary code elements, a grid of dots, and several red and white circles connected by lines, suggesting a network or data flow. The overall color scheme is dominated by blue and green, with some red accents.

Key technologies

- Digital evidence management across agencies
 - *Interaction of body-worn, dash, and surveillance cameras*
- Knowledge graph technologies to define business rules and data relationships
- Entity resolved knowledge graph
- Generative AI to construct inquiries
- Standards-based AI for data extraction
- Multi-dimensional business intelligence
- AI-based video and audio integration



NIEMOPEN

Data Interoperability

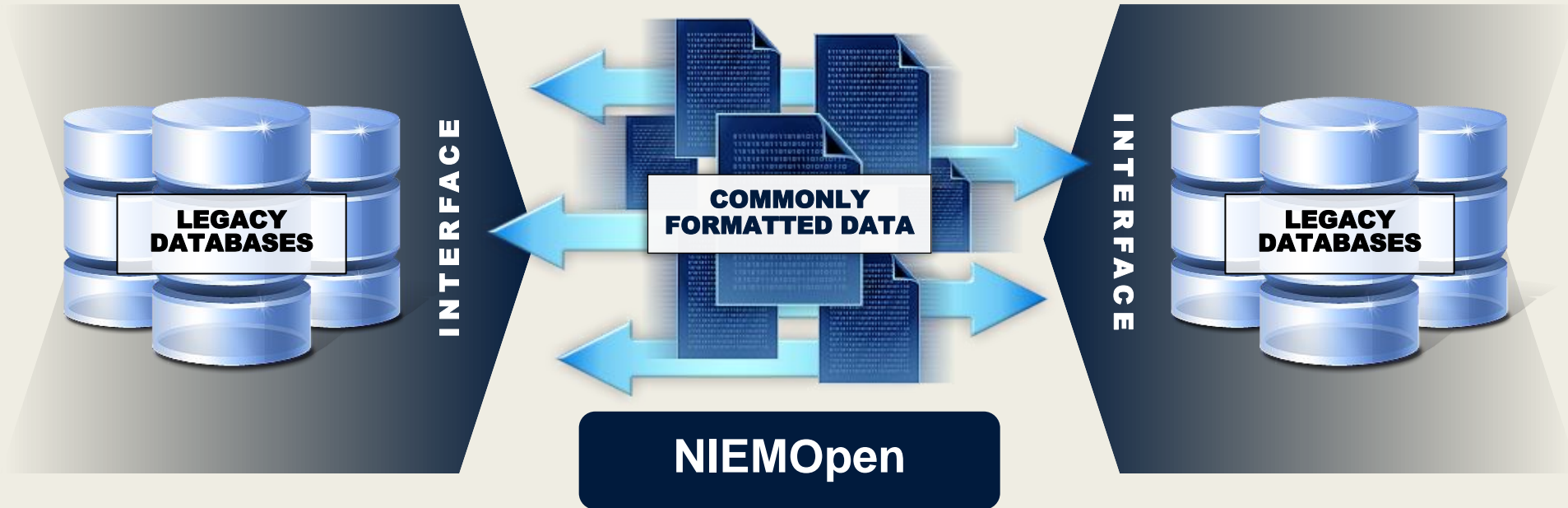
2025

MISSION:

Enable Interagency
And Cross-Domain
Information Sharing



Semantic and syntactic data standards



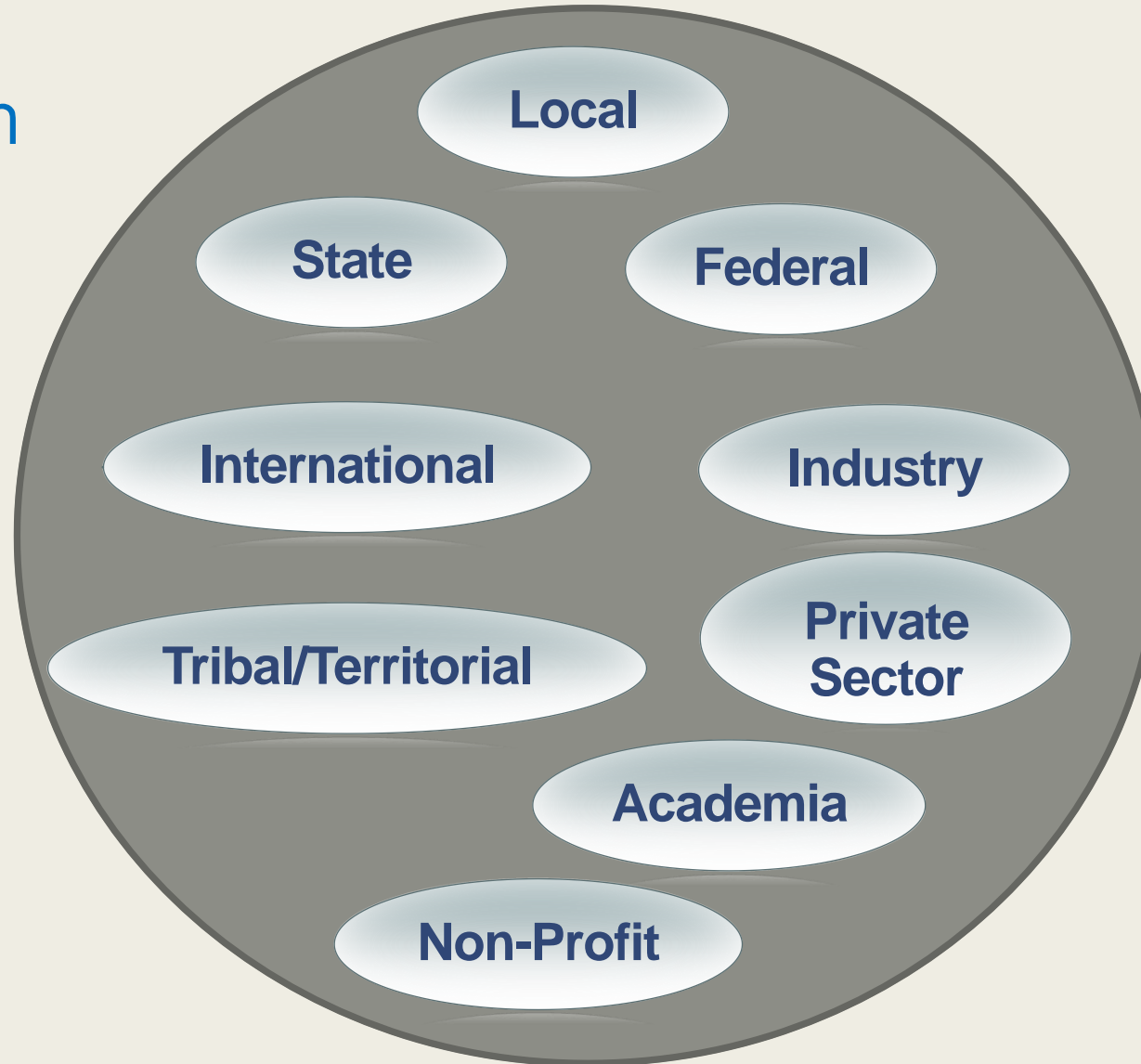
Community-based data standards for information exchanges and building enterprise ontologies

The Voices
Of NIEMOpen

An OASIS
Open Project

COLLABORATION

CONSENSUS



EQUALITY

NIEMOpen Model Content

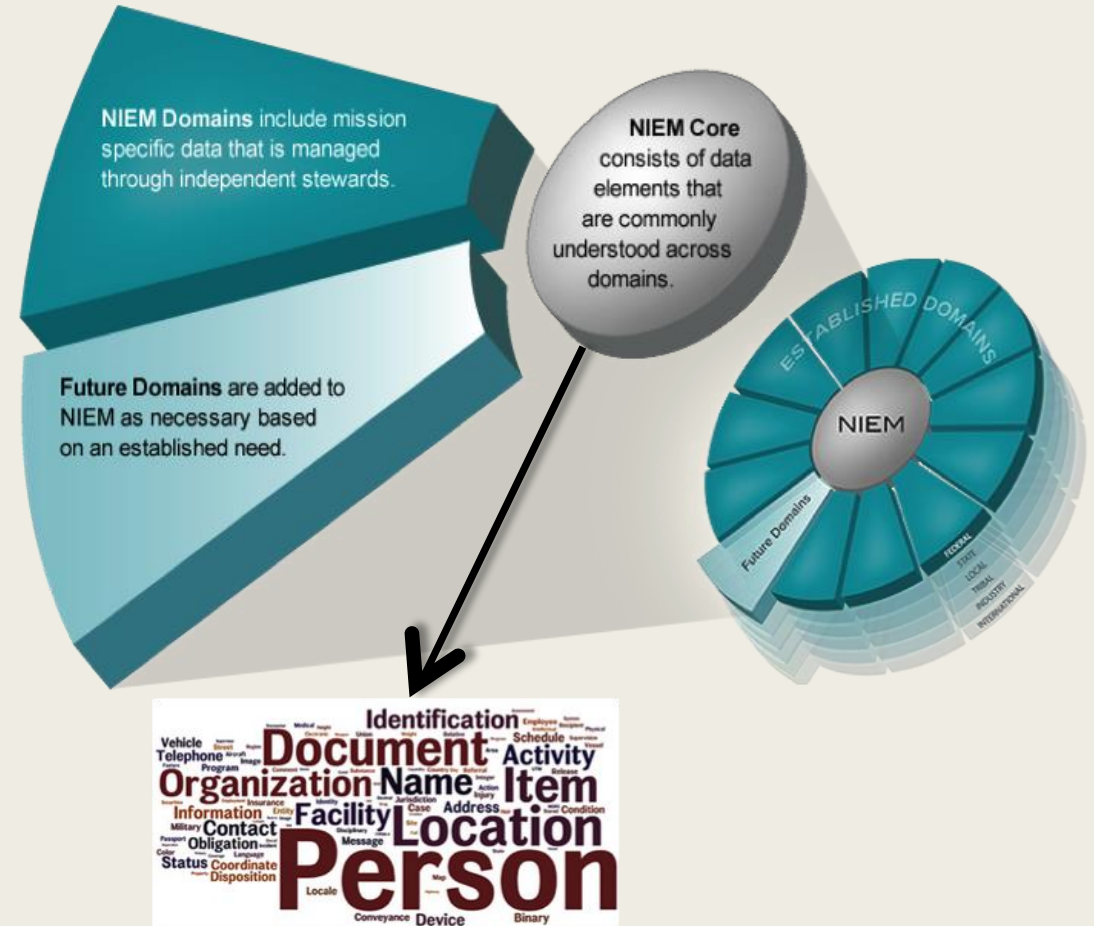
See more at
NIEMOpen.org

NIEMOpen has 17 Domains

- ## NIEMOpen has 17 Domains
- Agriculture
 - Biometrics
 - Chemical, Biological, Radiological, & Nuclear
 - Cyber
 - Emergency Management
 - Human Services
 - Immigration
 - Infrastructure Protection
 - Intelligence
 - International Trade
 - International Human Services
 - Learning & Development
 - Justice
 - Maritime
 - Military Operations
 - Screening
 - Surface Transportation

Features

- 20,000+ harmonized data components
- Naming and design rules
- Common model format supporting XML,JSON, RDF
- Open source API and development tools



NIEMOpen Offers

An open standard format for data specifications across justice participants

Reuse of community-agreed data models, with local extensions

A technology-neutral data modeling language

Knowledge graph representation of exchanged data

A methodology to define exchange standards

Automated validation of information exchanges to improve data quality

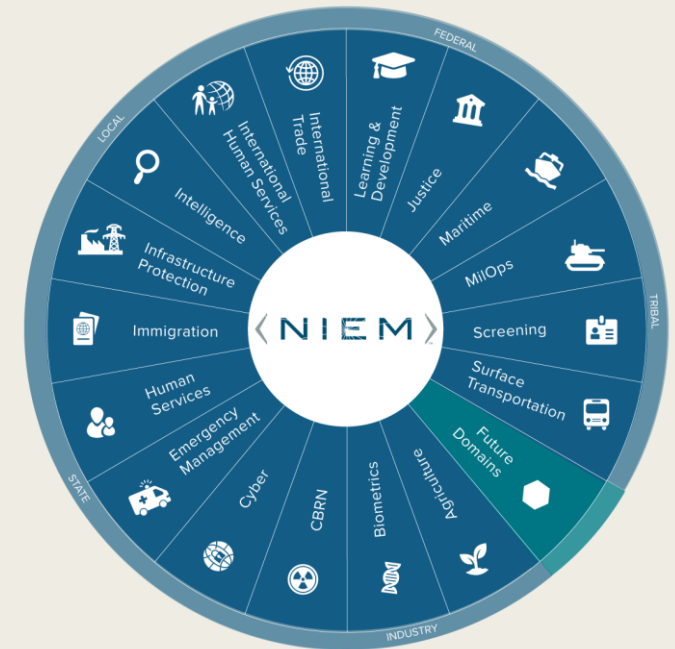
Interoperability with other jurisdictions and disciplines

NIEMOpen-- an Open Source standard

- Aligns with the National Institute of Standards and Technology
- Consistent with government and industry formal standards
- Inherent Interoperability due to rigor in vetting standards
- Potential to be an ANSI or ISO standard
- Increased visibility, contribution, and use by open-source tool developers
- Free to all users in government or industry

NIEMOpen Is About Cooperation, Not Control

- Data components chosen and harmonized by consensus among users
- Components are established when participants believe that a common definition will make their exchanges easier to create and implement
- Each domain changes on its own schedule, under its own control
- Changes in the core or in a domain do not force changes in other domains or in any data exchange
- No one is ever required to use a component that does not satisfy the data exchange needs, so there is no leverage for controlling the participants



NIEM IMPACT

ON PHARMACEUTICAL DRUG MONITORING

- The Standard Prescription Monitoring Information Exchange





Open Knowledge Network:

[...] multi-domain access to linked data in a federated system, accessed by natural language queries, empowered by artificial intelligence.





A Vision for Law Enforcement/Public Safety Information Sharing

Brian D. Griffith
Deputy Assistant Director
Criminal Justice Information Services Division
Federal Bureau of Investigation

A Bold Vision for FBI CJIS

- Create a roadmap for adopting NIEM Open standards across CJIS systems
- Increase availability of Full Lifecycle LE/PS data via NCIC–carefully
- Increase availability of LE/PS data via agency RMS (API?)
- Explore the concept of a LE/PS Data Sharing Fabric

--Brian Griffith





Solution Extensions

- Feed data to criminal history repositories (District, national)
- Coordinate and consolidate criminal intelligence data
- Manage interaction between justice, healthcare and social services
- Generate input to national statistical systems
- Create a public-facing interactive dashboard to promote transparency
- Manage police and prosecutor diversion programs, pre-trial services

NIEMOpen Webinar

Unveiling the Future of NIEM

May 22, 2025

1:00 - 3:00 PM (ET)





NIEMOPEN.ORG

