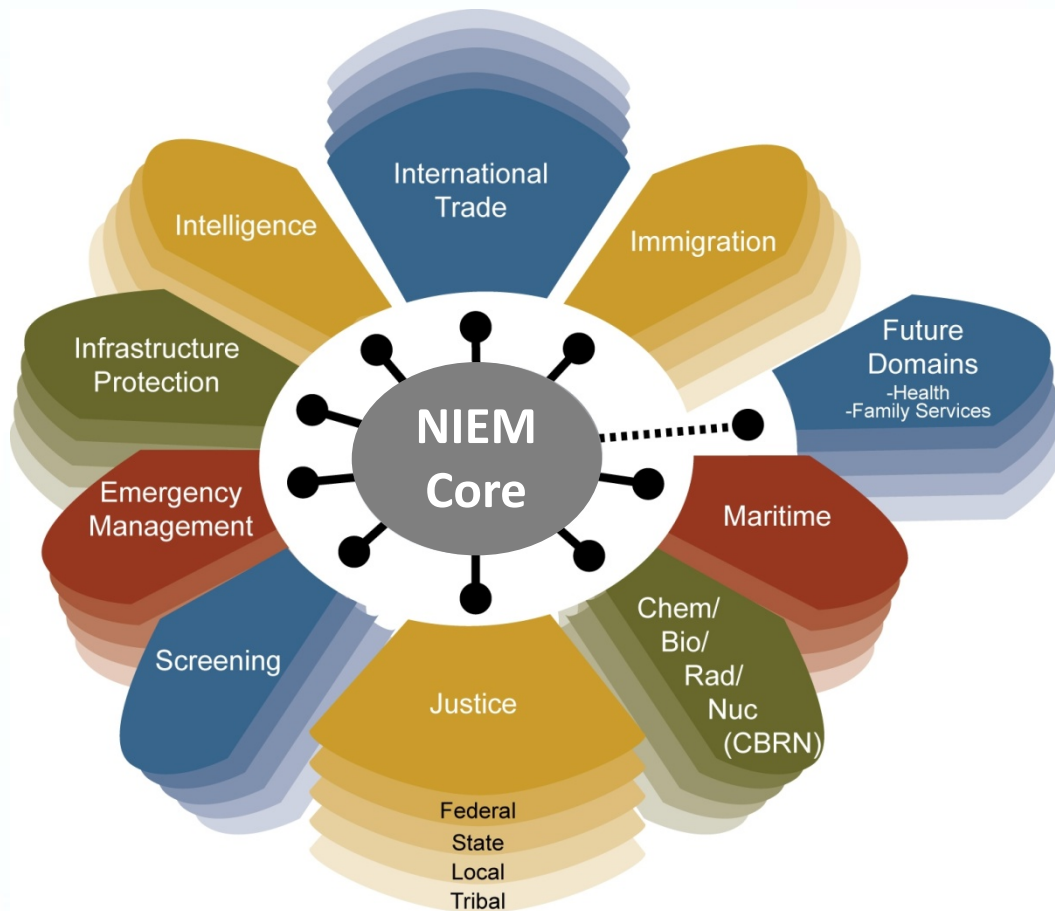


# **PROPOSAL FOR A WORKING GROUP TO EVALUATE A NIEM BIOMETRICS DOMAIN**

Issue 29

# WHAT IS A NIEM DOMAIN?



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

**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

# WHAT'S INVOLVED IN A NIEM DOMAIN?

## Be inclusive

include appropriate stakeholders (both business and technical) in the body that manages the domain



## Review change requests

have a process for receiving and adjudicating change request

## Publish and maintain a harmonized common data dictionary and XML schema for reuse

- When published, the **NIEM software tools** are available for information exchange development, artifact-generation, quality-checking and conformance verification
- Current NIEM biometrics schema is derived from the ANSI/NIST ITL model and **provides the ITL 2008 Part 2 XML implementation**
- The **Terrorist Watchlist Person Data Exchange Standard (TWPDES)** reused the ANSI/NIST 2008 biometric models in NIEM
- Anticipated reuse value for digital **Identity, Credentialing and Access Management (ICAM)** use cases

# GOALS OF THE PROPOSED WORKING GROUP

**1 -**

Develop a *joint concept-of-operations* between the NIST/ITL ANS Process (as implemented for biometric standard) and the NIEM Domain Model Management Process

**2 -**

Map the *existing ANSI/NIST ITL Biometrics governance activities* to NIEM domain governance framework

Review of NIST/ITL ANS process

Review NIEM concept-of-operations, tools and processes

Develop cross-process mapping

Document findings & joint concept-of-operations

Develop findings and summary out-brief

# BACKUP

# WHAT IS NIEM?

NIEM is a joint DOJ / DHS program, started in 2005, created to promote standardization of information exchange for cross jurisdictional information sharing.

NIEM provides the tools used across DHS for enabling interoperability at the data layer within and across systems supporting information sharing, while preserving investments in current technology and optimizing new technology development.

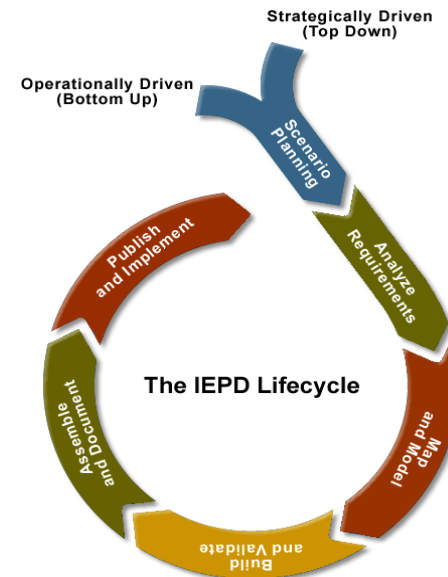
## Components of NIEM

“Common Language” for Information Exchange



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

Repeatable, reusable process for business users to document information exchange requirements



# NIEM CORE COMPONENTS

## Some important, practical NIEM Core components

**<nc:Person>**

<personSexCode>

<personBirthDate>

<personEyeColorText>

<personHairColorText>

...

Has the most fields

**<nc:Activity>**

<activityDate>

<activityCategoryText>

<activityDescriptionText>

<activityDisposition>

...

The most often derived component

**<nc:Item>**

<itemName>

<itemDescriptionText>

<itemConditionText>

<itemValue>

...

Has the deepest inheritance chain

**<nc:Identification>**

<identificationID>

<identificationJurisdictionText>

<identificationEffectiveDate>

<identificationStatus>

...

**<nc:Location>**

<locationDescriptionText>

<locationAddress>

<locationCategoryCode>

<locationName>

...

**<nc:Organization>**

<organizationName>

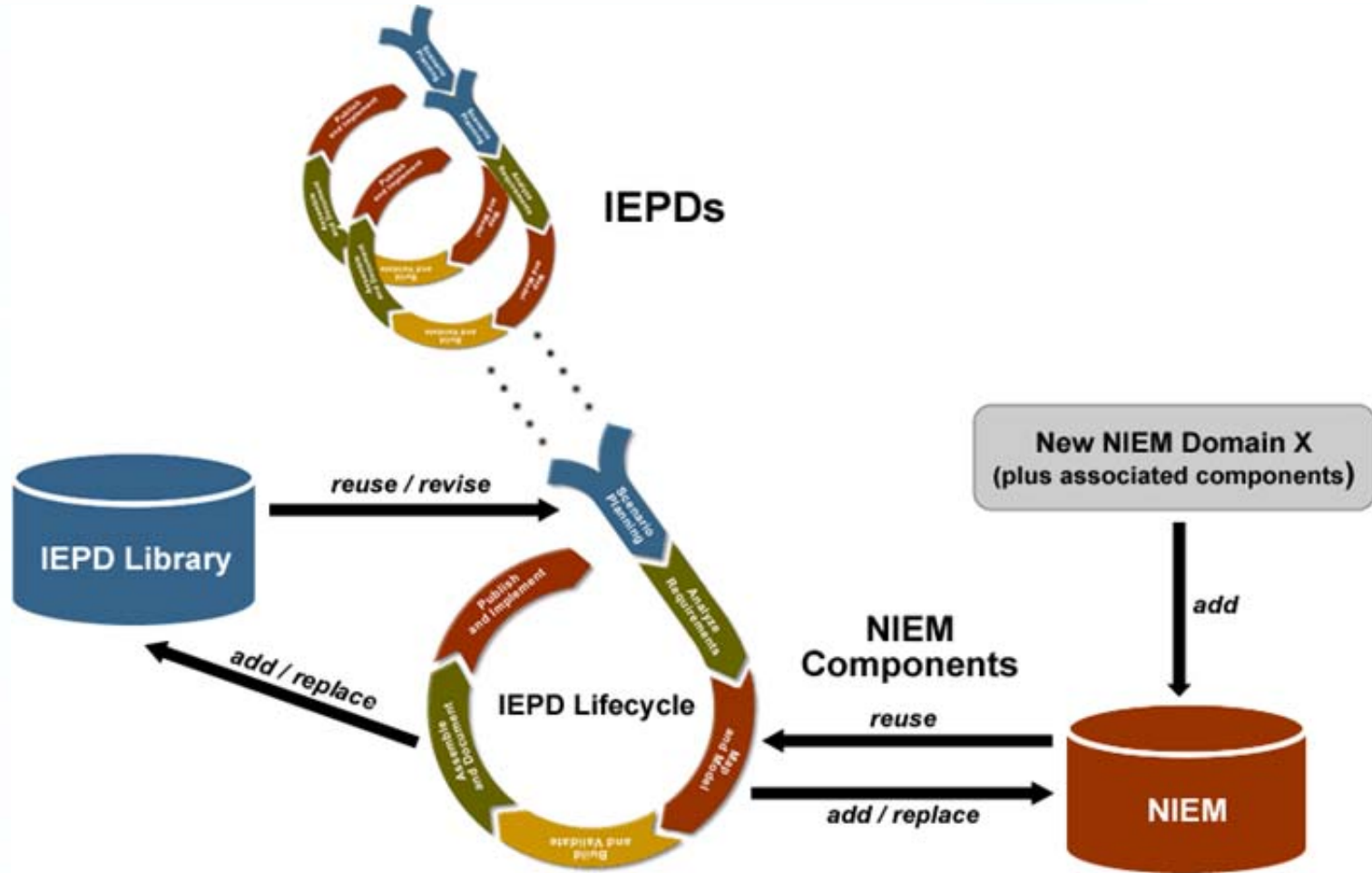
<organizationDescriptionText>

<organizationCategoryText>

<organizationEstablishedDate>

...

# IEPDs AND THE NIEM ARCHITECTURE



NIEM continues to grow and evolve with practitioners' contributions



# DOMAIN INDEPENDENCE AND SELF-SERVICE

## Domain Independence

- Specifications and processes that decouple a domain from other domains and from Core
- Allows:
  - Domains to publish updated content (domain updates) on their own timeline
  - IEPD developers to use that new content immediately, without waiting for the next major or minor release

## Domain Self-Service

- Development tools and collaboration areas that support domains in building and publishing their own content
- Allows:
  - Domains to use tools that assist in content development and management
  - NIEM to scale up more easily as the number of domains and the size of the model increase;