

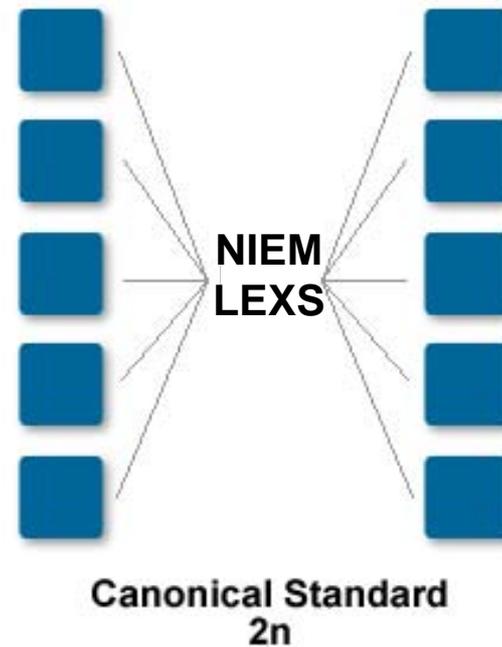
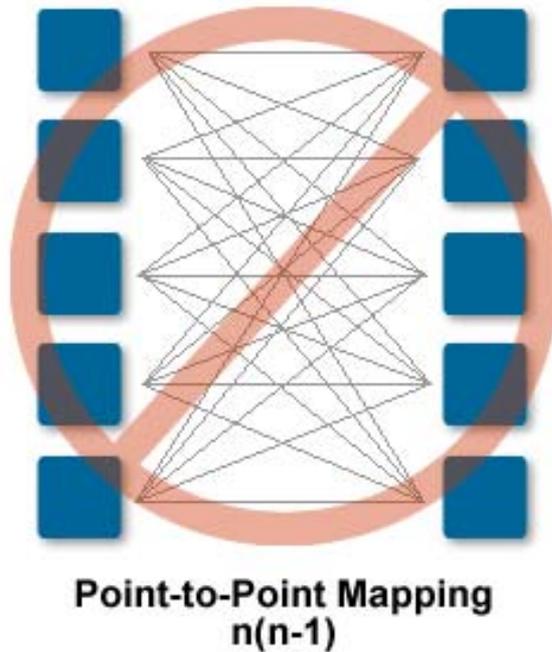


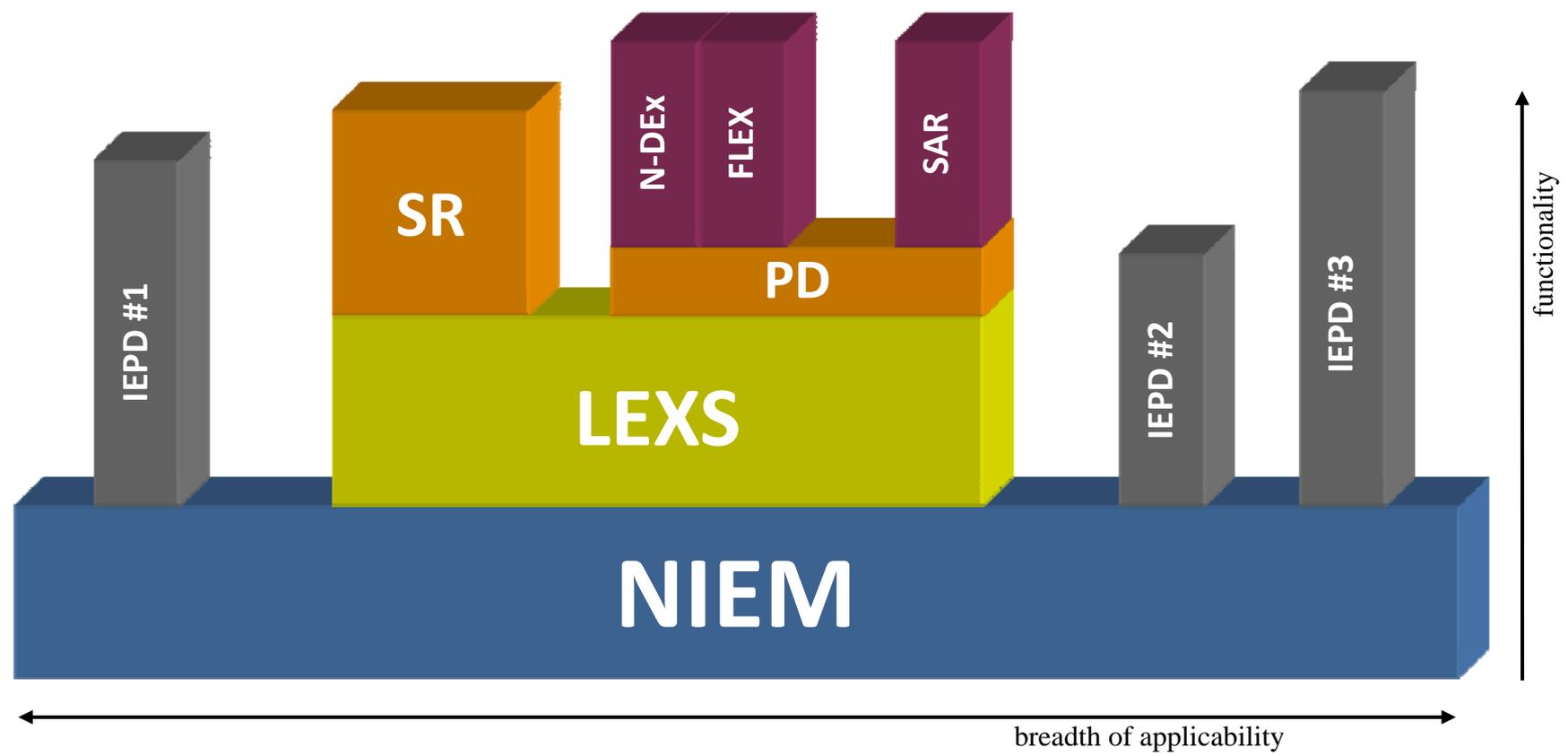
NIEM Success Stories: LEXS, OneDOJ, and N-DEx

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NIEM Industry Day
17 February 2009

To effectively exchange information, (1) there must be a common semantic understanding of data among participants, and (2) the data must be formatted in a consistent manner





- **NIEM:** data definitions, element library → *design-time compatibility*
- **LEXS:** specific structure, constrained entities → *run-time interoperability*
- **LEXS-SR:** search & retrieval → *federated query capability*
- **LEXS-PD:** publication & discovery → *data replication capability*

What is LEXS?

- Logical Entity eXchange Specifications
- A **family of NIEM IEPDs** for information sharing
 - Publication & Discovery (LEXS-PD)
 - Search & Retrieval (LEXS-SR)
- A **generic paradigm** for information sharing – the “*data item*”
 - Ideally, analogous to the “web page” and the World-Wide Web
 - Focused on “connecting the dots”
 - Single interface for heterogeneous data
 - Supports needs of computers and humans
- An **extensible framework** supporting runtime interoperability
 - E.g.: N-DEx “extends” LEXS to support “incident” data, yet OneDOJ can process and display N-DEx data without system modification

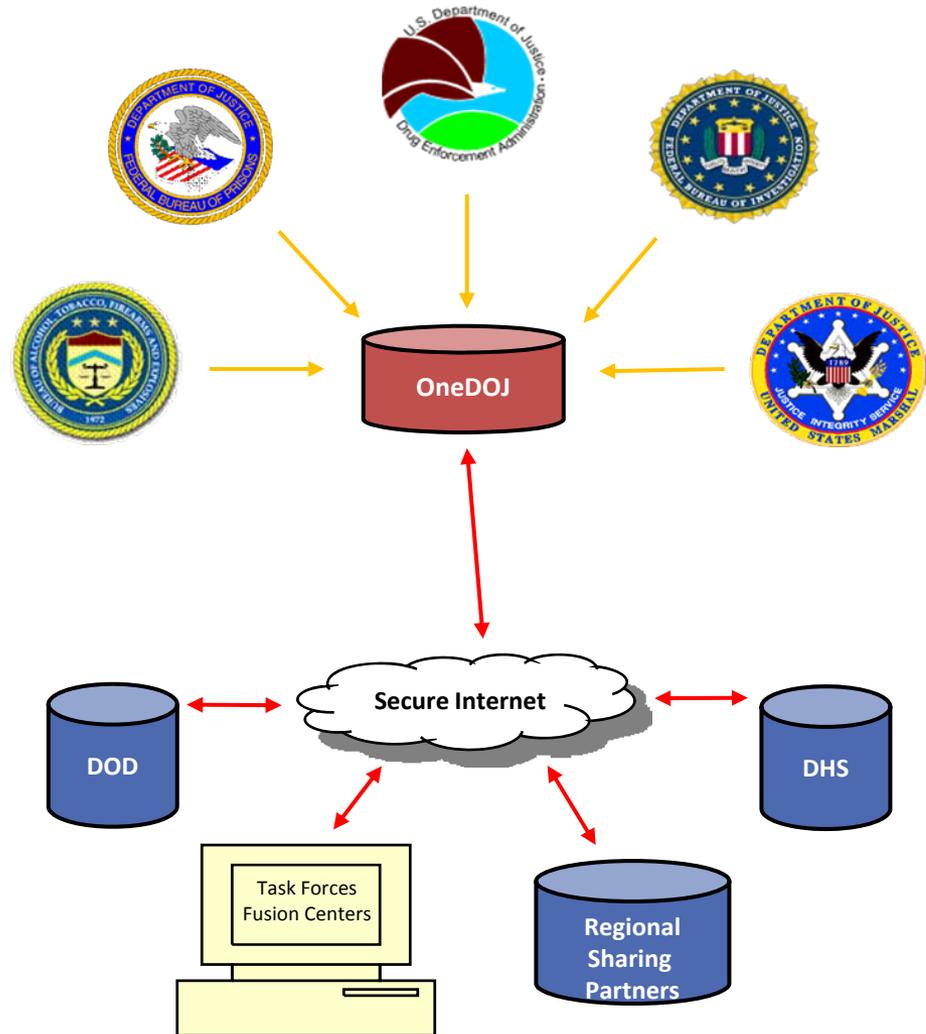
OneDOJ Model:

DOJ Components publish to OneDOJ

- Heterogeneous data
- Using LEXS-PD (sftp)

Partner systems exchange federated queries

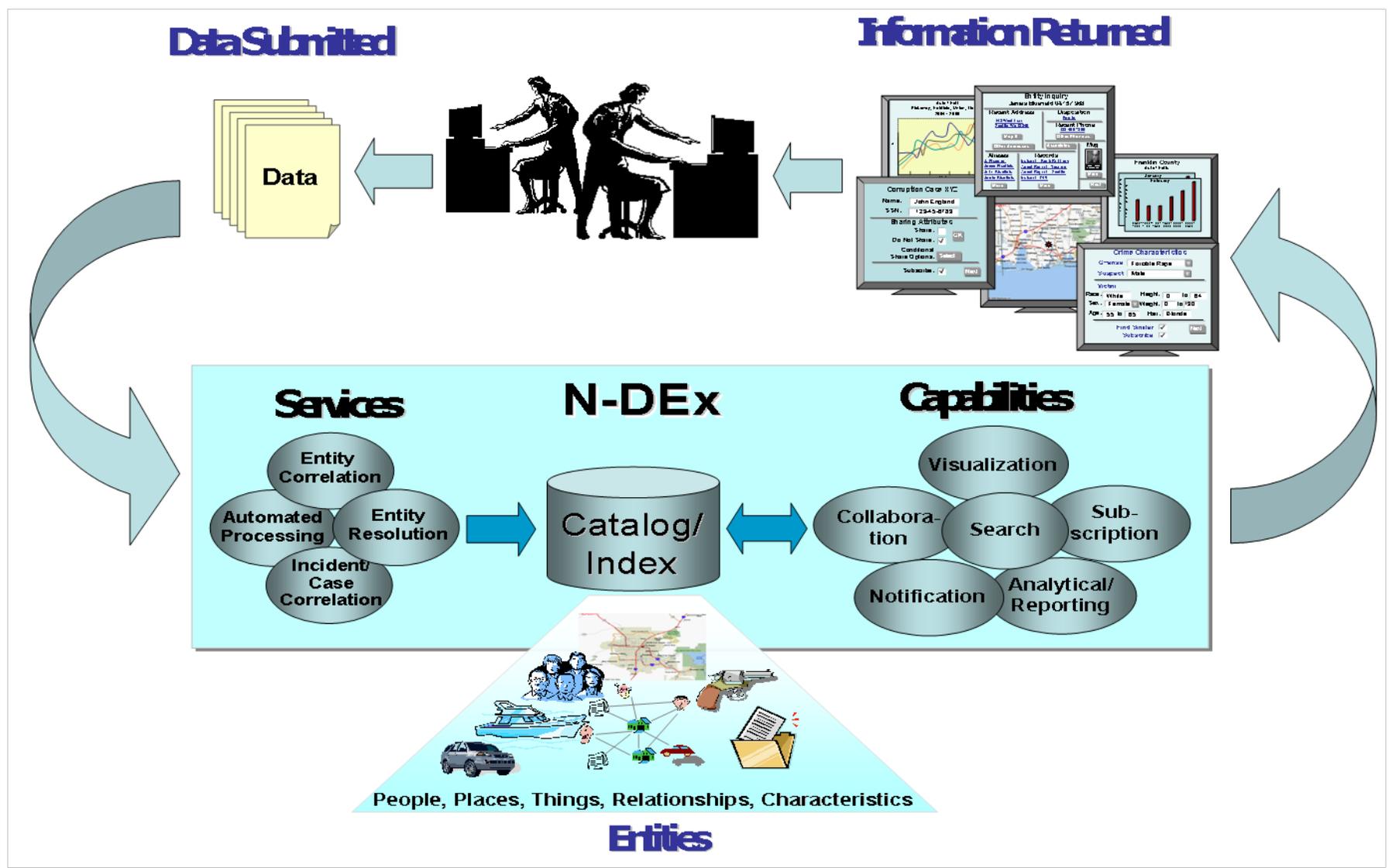
- Vendor agnostic
- Heterogeneous data
- Using LEXS-SR (SOAP)





OneDOJ Network Participants (current):

- Federal Agencies
 - DOJ: ATF, BOP, DEA, FBI, USMS, USAOs
 - DHS: ICE is lead agency
 - DOD: NCIS
- Regional Information Sharing Partners:
 - Los Angeles County Sheriff's Department
 - Chicago metropolitan area: "CLEAR"
 - San Diego Regional LE Consortium: "ARJIS"
 - St. Louis metropolitan area: "CrimeMatrix"
 - State of Texas: "T-DEx"
 - Law Enforcement Information Exchange "LINX" locations:
 - National Capital Region, Northwest, Southeast, Gulf Coast, Hampton Roads, Hawaii





N-DEx Status:

- Still in its infancy
 - Only 13 agencies contributing as of 1/11/09
 - Already 55 million records loaded
- Primarily incident & arrest data today
 - Booking & incarceration IEPD finalized
 - Probation & parole to follow
- Only available via web UI today
 - Web services (LEXS-SR) under development