

Justice XML Structure Task Force

Justice XML Data Dictionary JXDD Version 3.0

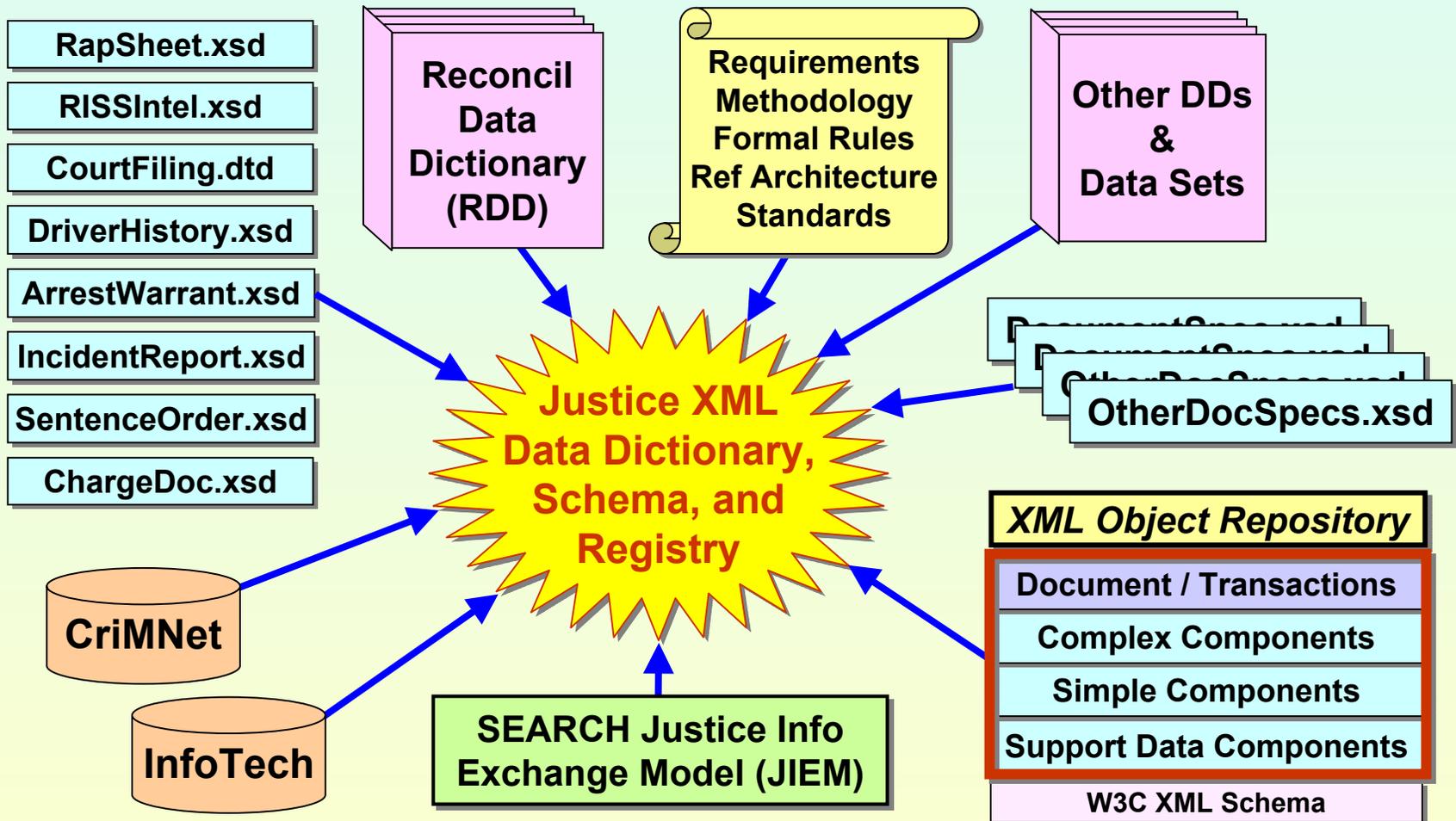
Status of Design & Development

17 December 2002

DAY 089

“I love it when a plan comes together!”

– COL Hannibal Smith, *The A-Team*



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December 2002

Why JXDD Version 3.0?

- Aligned with standards (some were not available to RDD)
- Model-based → consistent
- Requirements-based – data elements, processes, documents
- Object-oriented → efficient extension and reuse
- Expanded domain (courts, corrections, juvenile, etc.)
- Extensions to activity objects / processes
- Relationships (to improve exchange information context)
- Can evolve / advance with emerging technology (RDF/OWL)
- Basis for an XML component registry that can provide
 - Searching / browsing components and metadata
 - Assistance for schema development / generation
 - Reference / cache XML schemas for validation
 - Interface (via std specs) to external XML registries

What Sources of Requirements Are Being Used?

SPONSOR

Global ISWG
JTF for ICHTS
RISS
LegalXML
AAMVA

NIJ
LA County CA

SEARCH
LegalXML
LegalXML
LegalXML
Minnesota

NCSC
Maricopa Co AZ
CISA
FBI
NIBRS

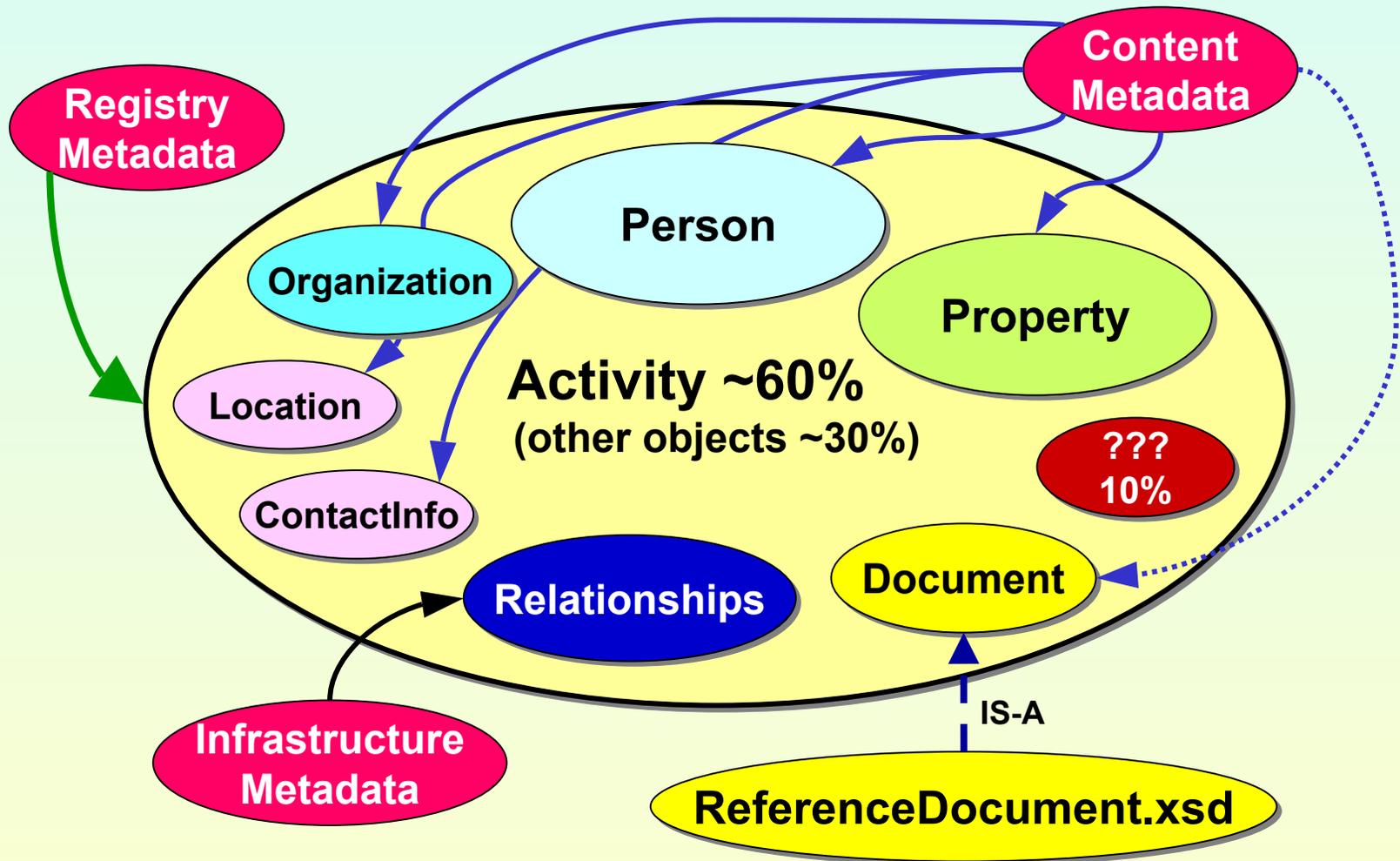
SOURCE DOCUMENTS / SPECIFICATIONS

Reconciliation Data Dictionary (RDD) v1.0.0
Rap Sheet v2.2 schema
RISSIntel v2.0 schema
CourtFiling v1.1 DTD
Driver History v1.02 schema
InfoTech v2.0 Data Dictionary and schema
Incident Report schema
Justice Info Exchange Model (JIEM) data sets
Arrest Warrant schema
Charging Document schema
Sentencing Order schema
CriMNet v1.0 Data Dictionary and schema
Data element spreadsheets (civil, criminal, juvenile)
ICJIS Data Dictionary v1.3
Southwest Border States DD (TX, AZ, NM)
NCIC 2000 Data Dictionary and Code Tables
Incident Report schema

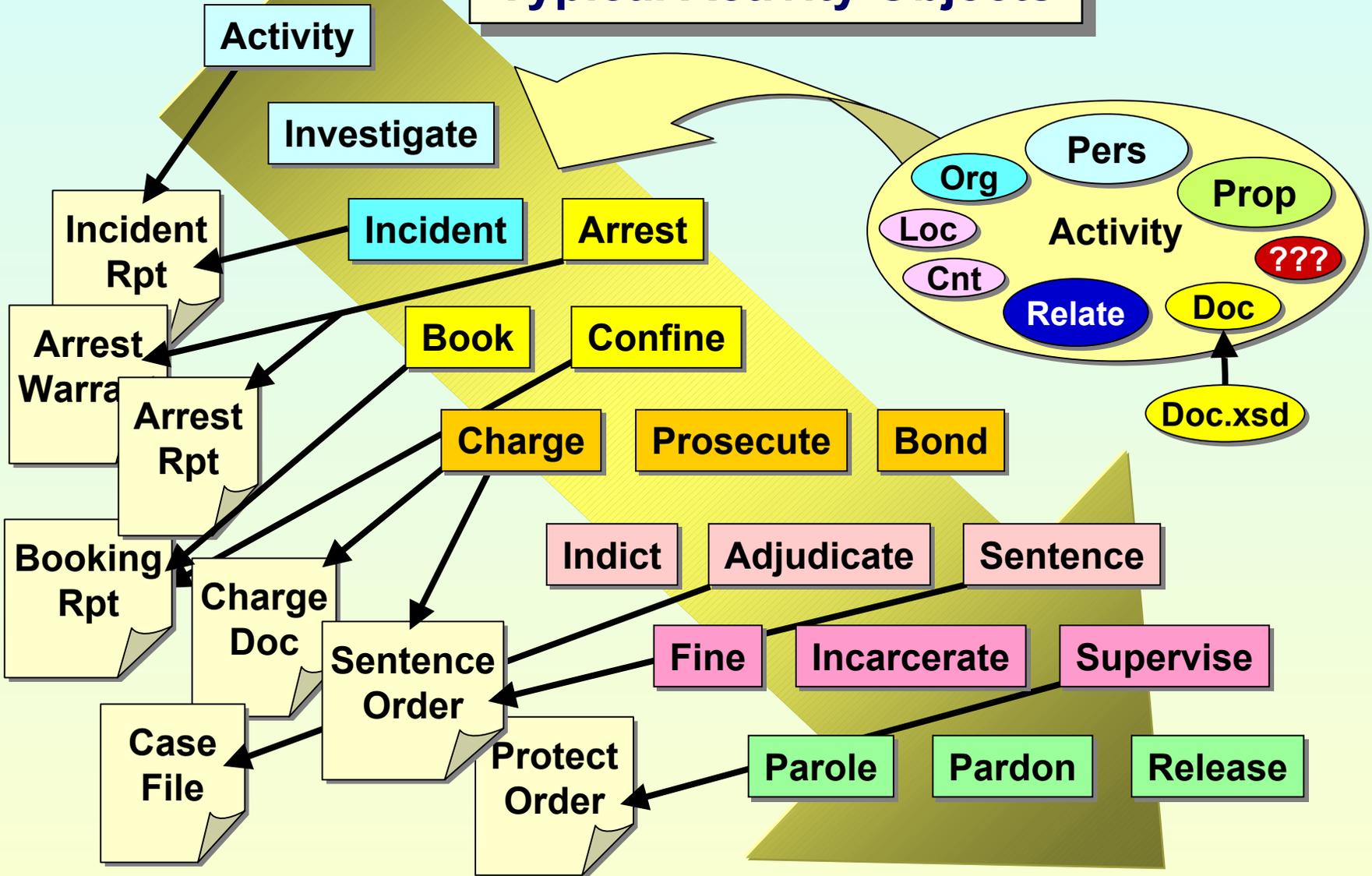
What Standards Are Being Applied?

XML.gov	Draft Federal XML Schema Developer's Guide (04/02)
ISO / IEC	11179 Specification & Standardization of Data Elements
UN / CEFACT	ebXML Core Components Technical Spec 1.85 (09/02)
FBI	Electronic Fingerprint Transmission Spec v7 (01/99)
ANSI / NIST	Data Format for Interchange of Fingerprint, Facial, & SMT
OASIS	XML Common Biometrics Format Committee (09/02)
Dept of Navy	Draft XML Registry Requirements (09/02)
DoD	DoD 5015.2-STD Design Criteria Std for E-RMS Apps (06/02)
W3C	XML Schema Specification (05/01)
W3C	RDF and RDF Schema Specification (02/99)

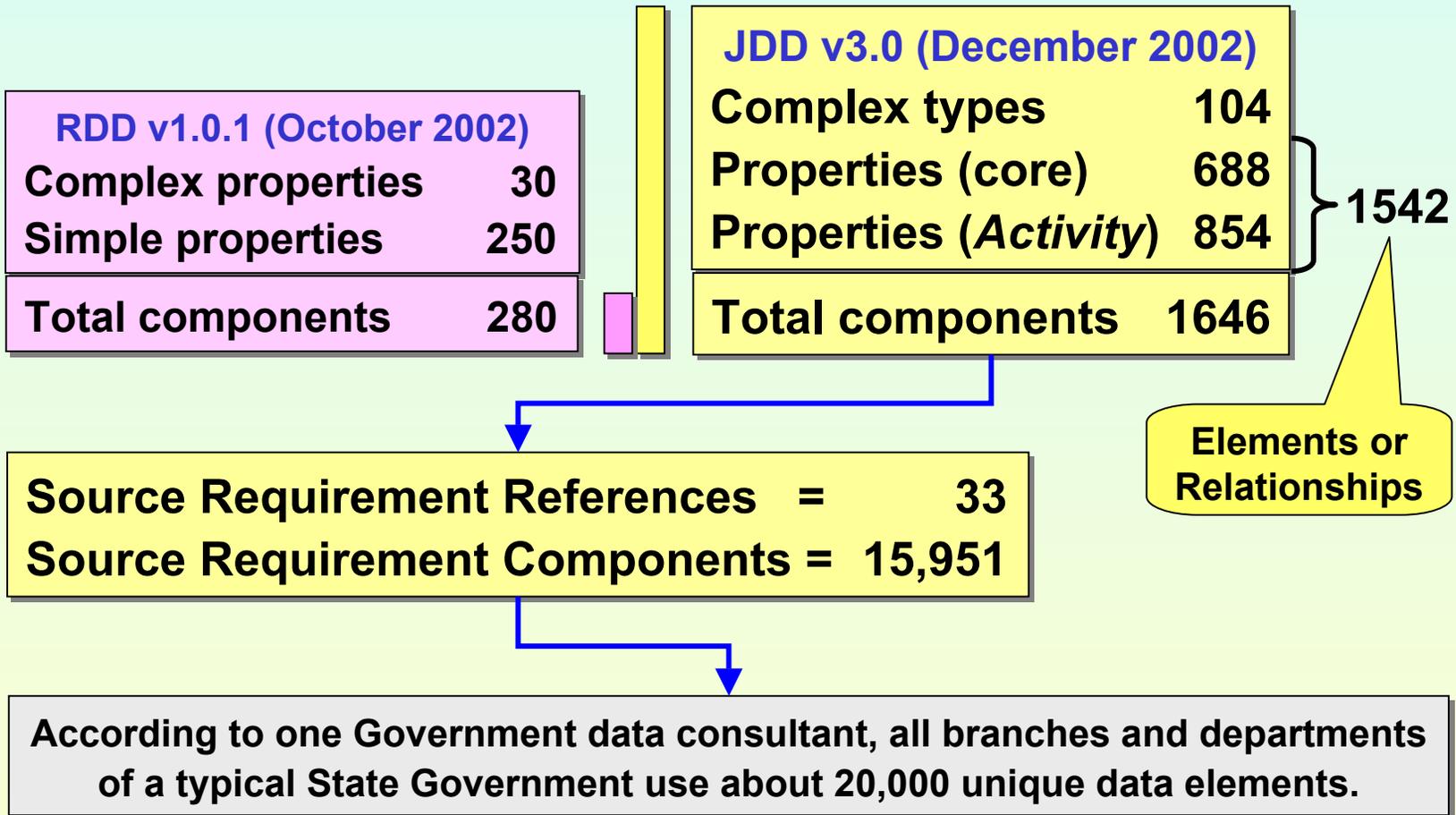
Justice Data Dictionary View



Typical Activity Objects



Justice Data Dictionary v3.0 Database Statistics



Validation of JXDDS V3.0 RFC

December 2002

Complete *Person*
Organization
Location
ContactInformation
(personal)Property
and enough *Activity* objects to build ...

Rap Sheet	RDD / NLETS
Sentence Order	CourtFiling
Incident Report	InfoTech
Driver History	RDD / AAMVA

What Work Remains To Be Done?

- Implement objects: *Activity, property*
- Map source data requirements
- Define data components (definitions)
- Identify / install internal enumerations
- Define / implement special constraints (e.g. partial values, nulls, etc.)
- Implement metadata (content, registry, infrastructure)
- Implement or refine user tools for database
- Document user interface, design, etc.
- Implement interface to an ebXML registry
- Designate namespaces (naming policy)
- Define policies, procedures, CONOPS

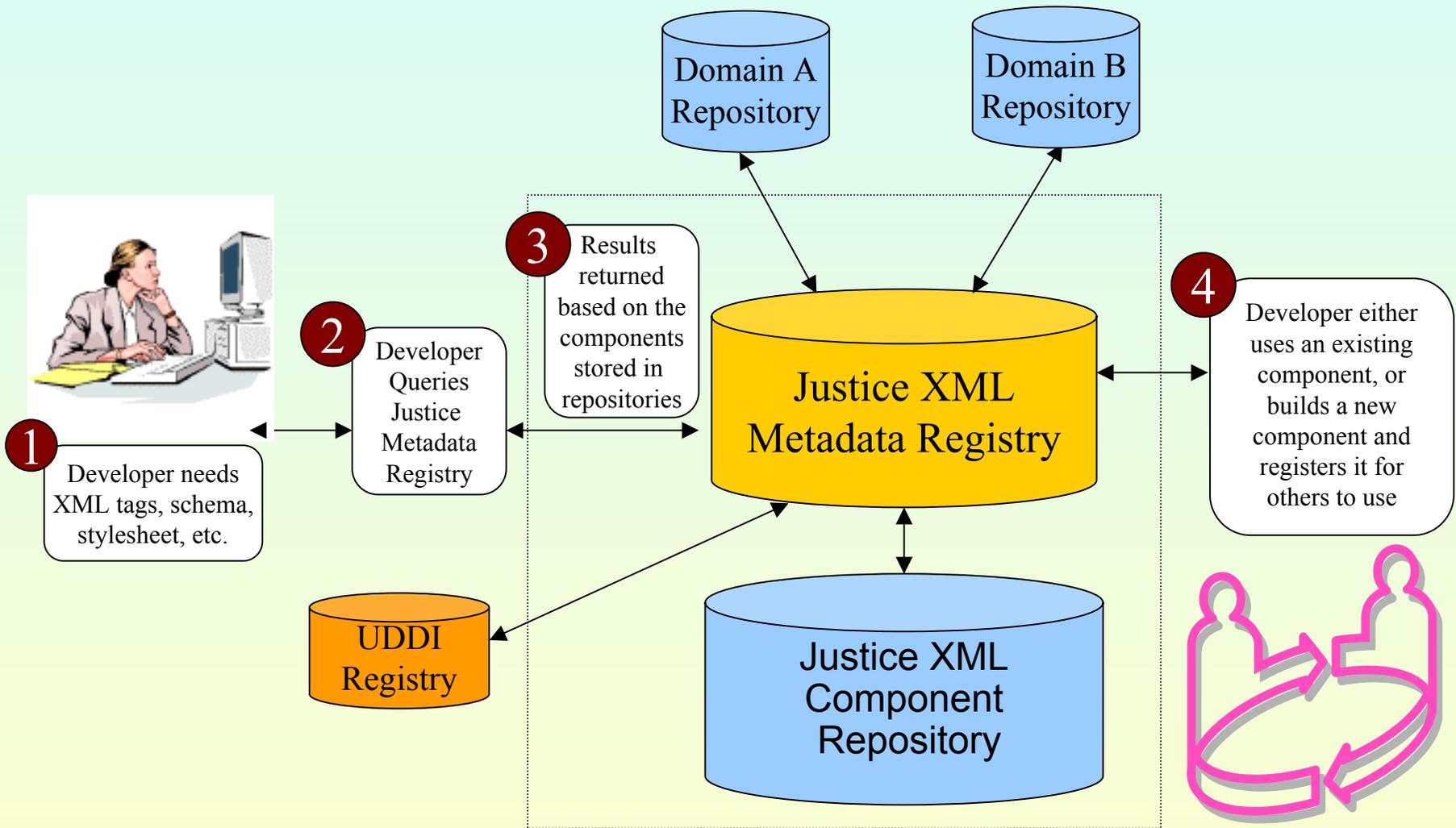
**Where Are We Going and Why?
How Does It All Fit Together?**

The Big Picture – An XML Registry/Repository

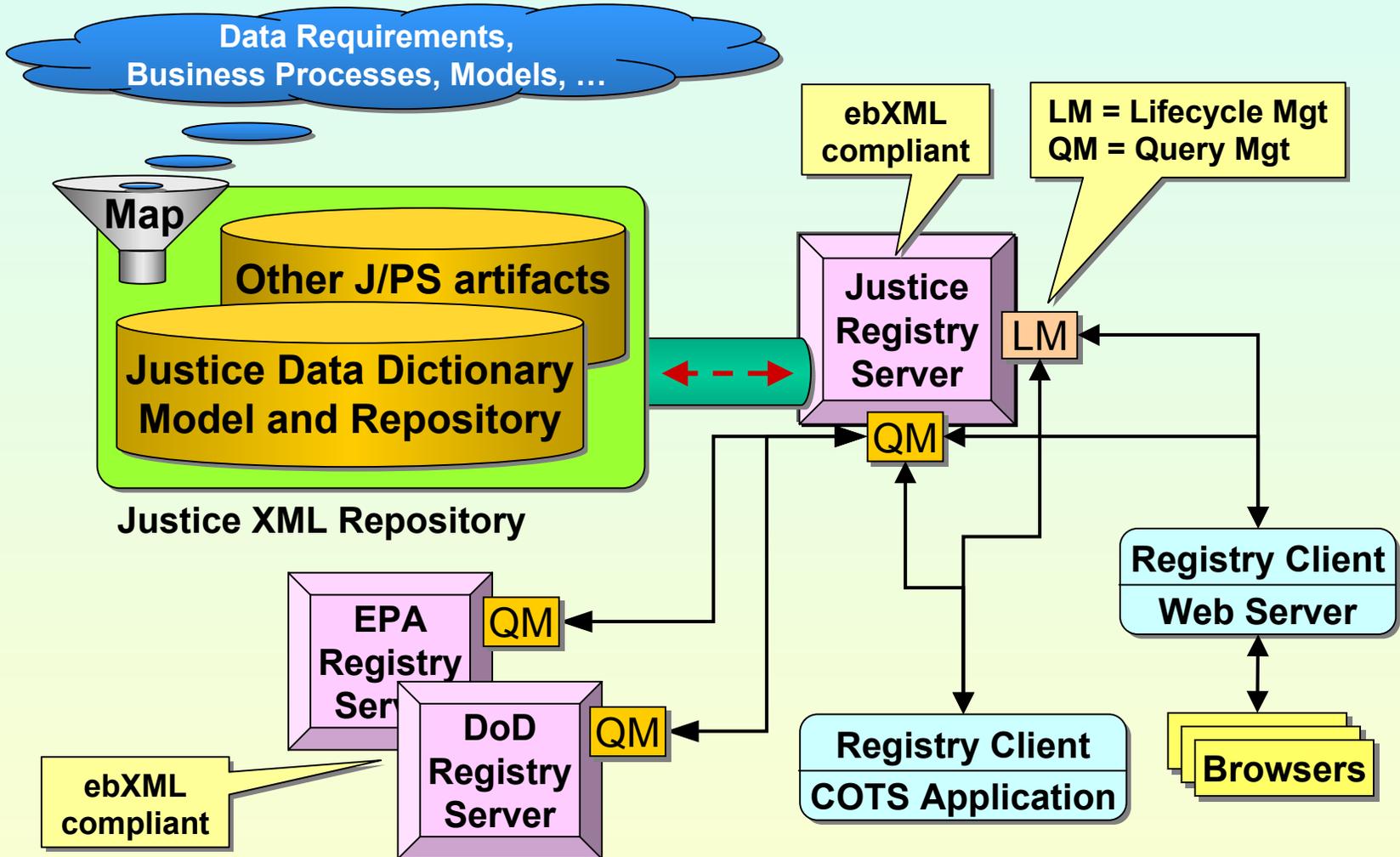
Why a Justice XML Registry/Repository?

- ❑ History shows that long term success of data exchange within and between communities of interest is facilitated by:
 - Discovery and re-use of standard vocabularies
 - Discovery and re-use of components
 - de facto standards due to voting “by feet”
- ❑ How is this different from the Justice Standards Registry?
 - Different scope, objectives, functional requirements, specifications, management scheme, and operational guidelines

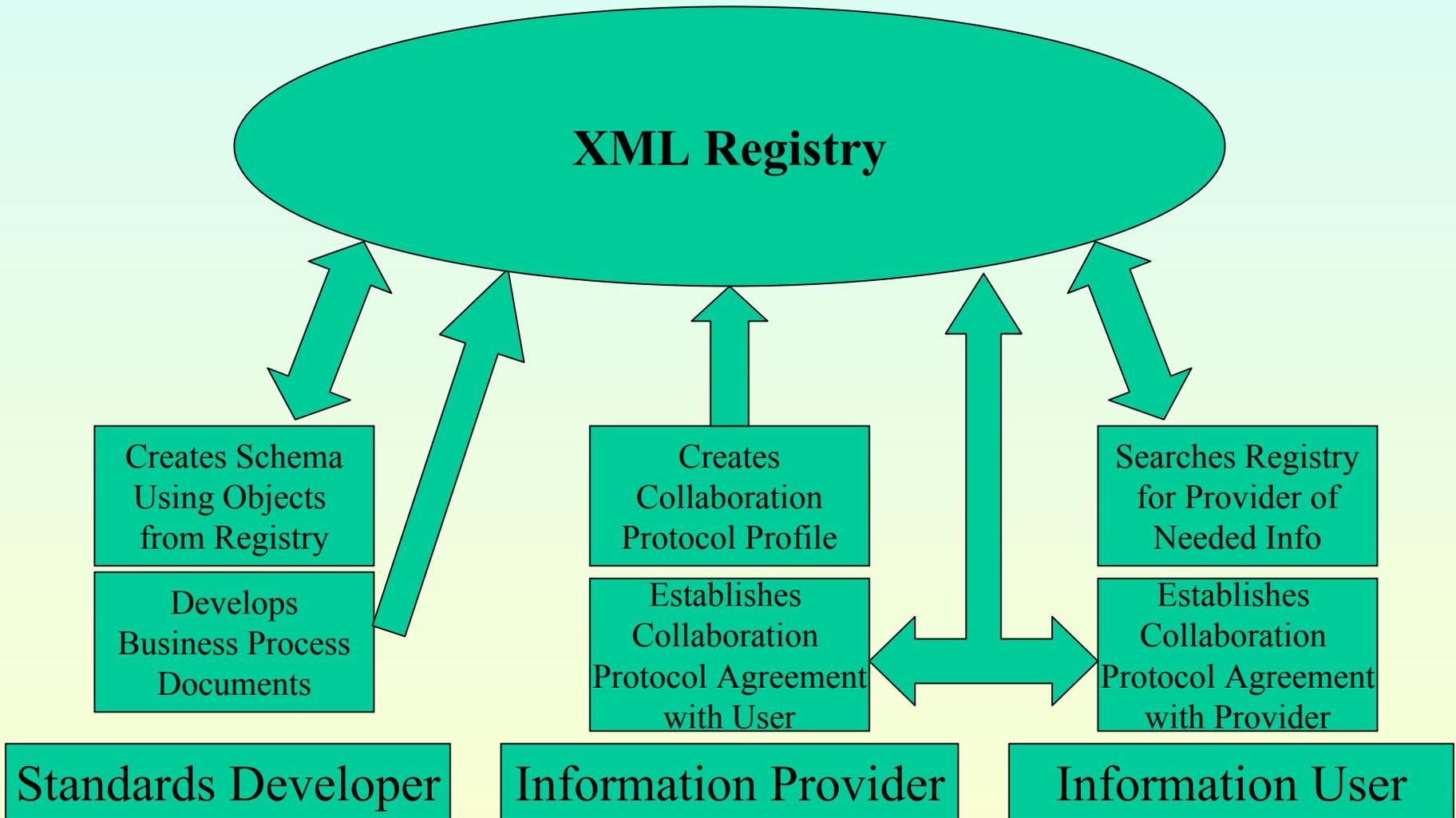
Basic Overview of Using a Metadata Registry



Justice XML Data Dictionary Registry/Repository Model



XML Development Using the Registry



Potential Issues for I/SWG

- ❑ **Prioritize and evaluate registry features.**
- ❑ **Establish validation/approval processes**
 - **New components**
 - **Modifications of components**
 - **Criteria for different approval schemes**
- ❑ **Recommend operational oversight body**
- ❑ **Proposing and maintaining a stable funding process**
 - **Implementation, operation, maintenance**
- ❑ **Namespace management recommendations**