

FMS Data Registry

CGAC Presentation at BTA

The FMS Data Registry implementation of
the ISO 11179 Metadata Registry

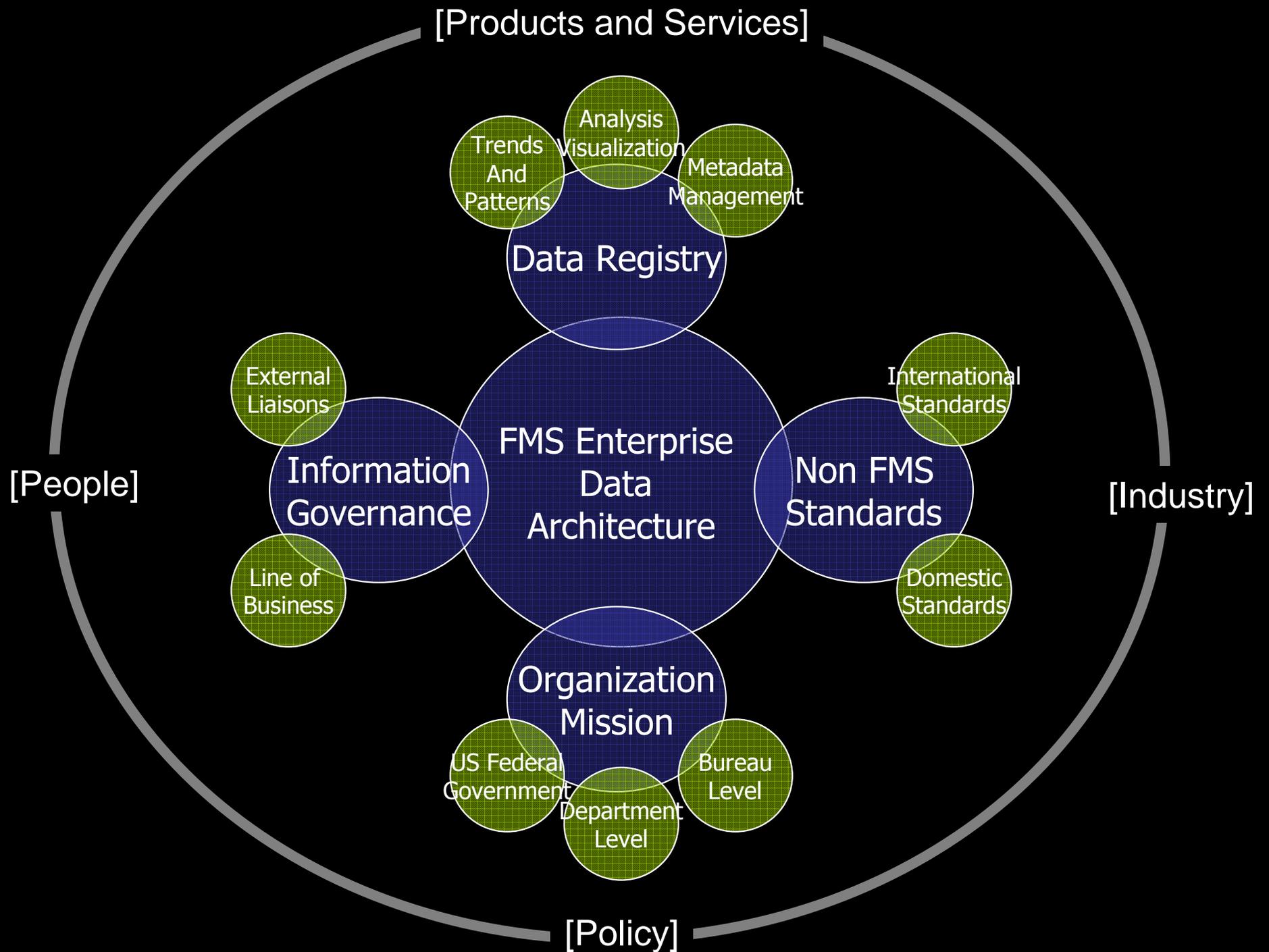
Marcel Jemio, Treasury/FMS
January 2010

FMS Data Registry

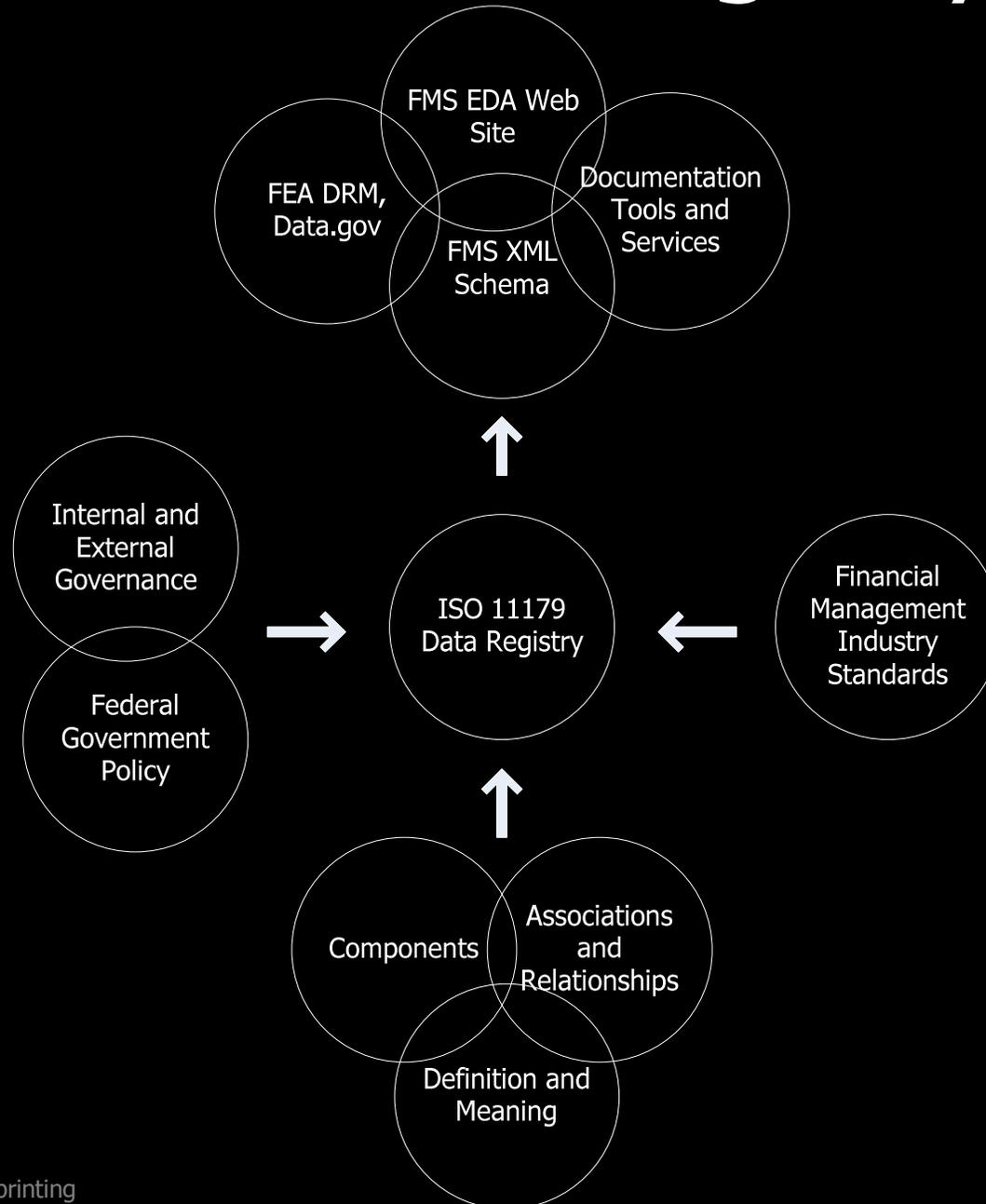
- Agenda
 - Introduction
 - Overview
 - Demonstration and Discussion

FMS Data Registry

- FMS Data Registry and FMS Data Model in harmony
 - Language
 - Music



FMS Data Registry



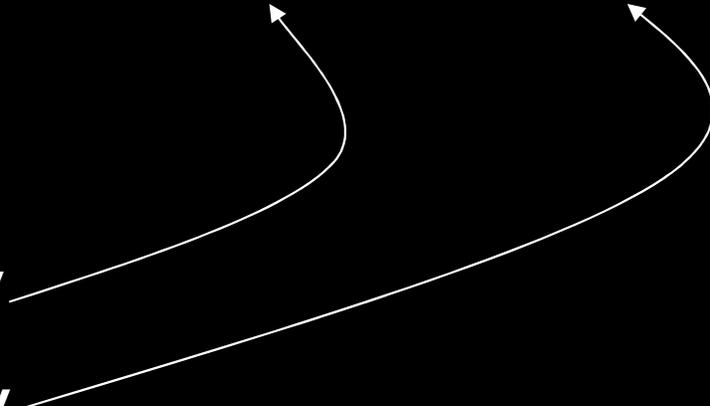
FMS Data Registry

- **Critical Success Factor:**

- The ability of a system to **access** and **use** the parts of another system

- Syntactic interoperability

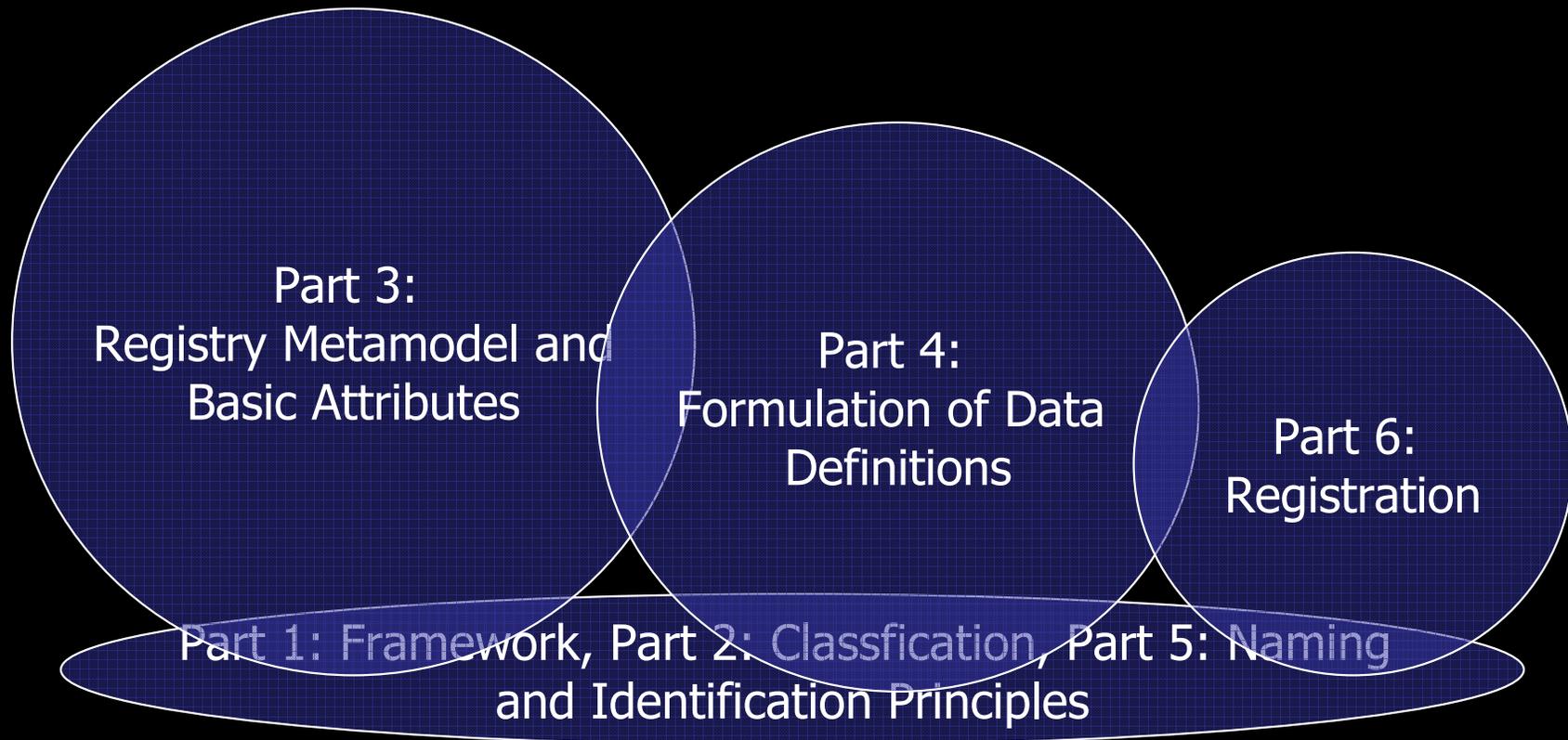
- Semantic interoperability



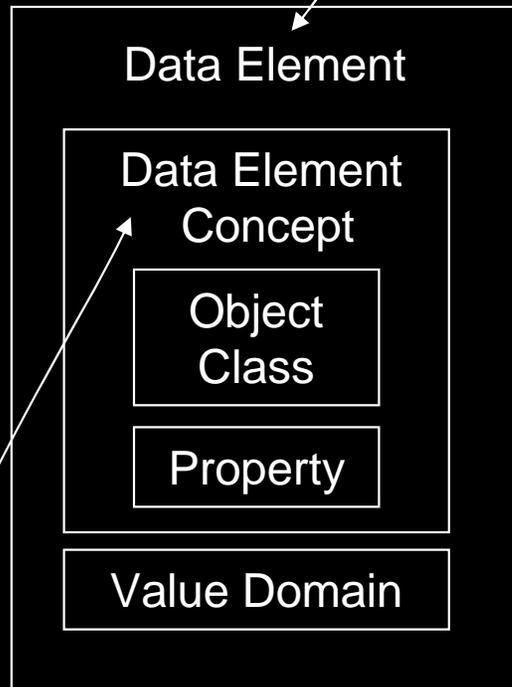
FMS Data Registry

- **ISO/IEC 11179, Information Technology -- Metadata registries (MDR)**
 - <http://metadata-stds.org/11179/>

FMS Data Registry



FMS Data Registry



Data Element = Object Class + Property + Value Domain
Ex. Agency + Location + Code

Data Element Concept = Object Class + Property
Ex. Agency + Location

FMS Data Registry

- Marcel Jemio
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 - calendar: <http://fms.treas.gov/eda/cal.html>
 - web: <http://fms.treas.gov/eda/xml>
 - twitter: http://twitter.com/fms_standards

FMS Data Registry

- Demo Presentation
- Appendix

FMS Data Registry

Links and Research

<http://fms.treas.gov/eda/xml>

http://fms.treas.gov/eda/docs/FMS_EnterpriseXML_Strategy.pdf

<http://xml.gov/standards.asp>

<http://www.niso.org/publications/press/UnderstandingMetadata.pdf>

http://www.itl.nist.gov/div897/docs/metadata_descriptions.html

FMS Data Registry

Metadata:

- Semantic information that can help a user understand the data's meaning
- Representational information that specifies the form of presentation; e.g., format, length, permitted values, and datatype
- Naming and identification information
- Specifications for standard data to be incorporated in new and reengineered systems to promote data interchange
- Administrative information about the metadata steward and the quality of the metadata

FMS Data Registry

- The Registry provides:
 - a system to record what is known about environmental data and to understand that data. Using the Registry, FMS Application Providers (data developers and project managers) can document data for which they are responsible one time, and one time only, so that there is no need to repeatedly explain the data to each organization or individual interested in the data.

FMS Data Registry

The Registry is a tool designed to:

- Promote uniform data documentation
- Foster information integration and sharing across all FMS customers.
- Support implementation of data standards
- Follow international standards and accommodate US Financial Management extensions in its design