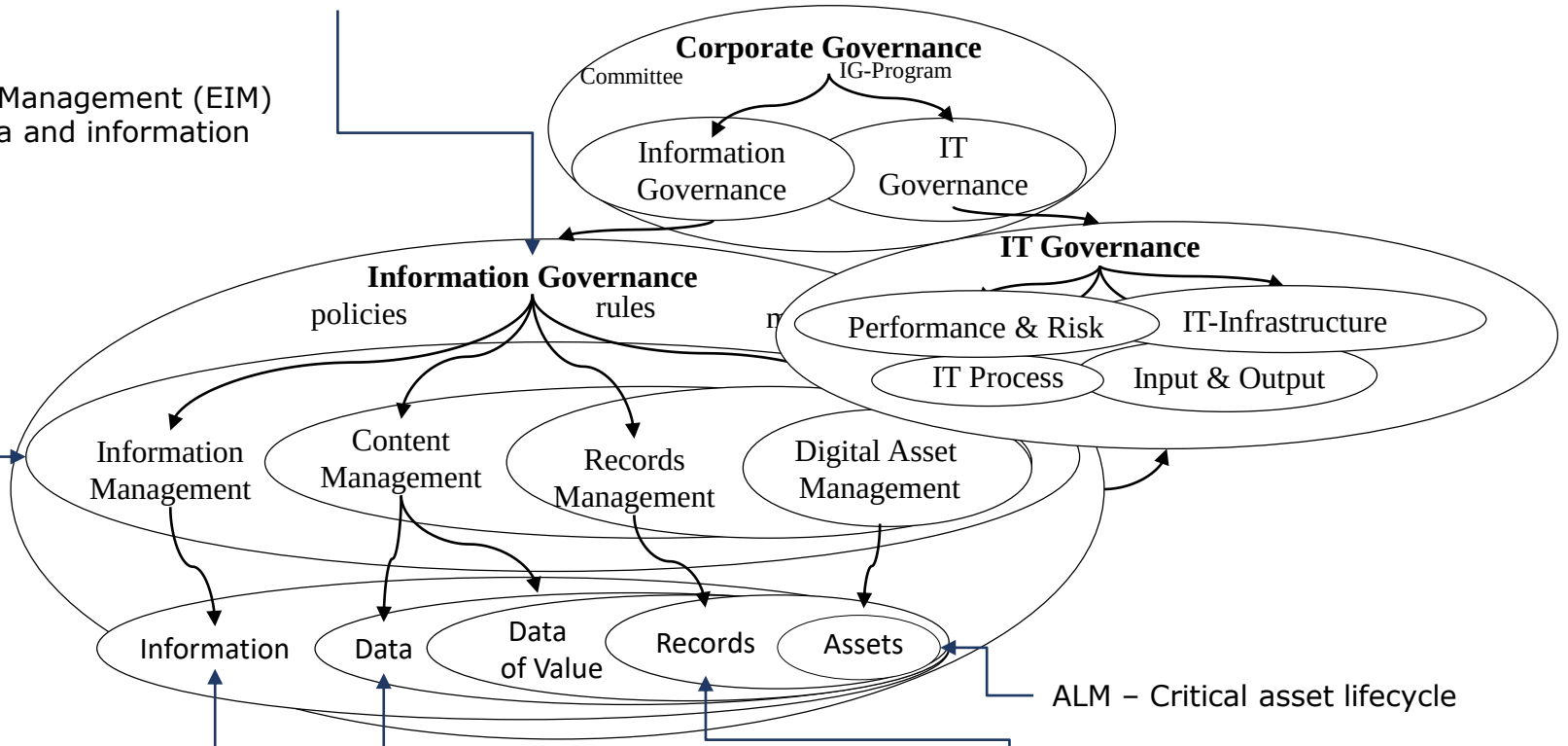
IGSO - Governance Semantic Model

Implementing an Information Governance (IG) Program to govern EIM across an organization

Enterprise Information Management (EIM) managing all of the data and information across an enterprise



Information lifecycle management assigns appropriate value to information and specifies adequate storage policies

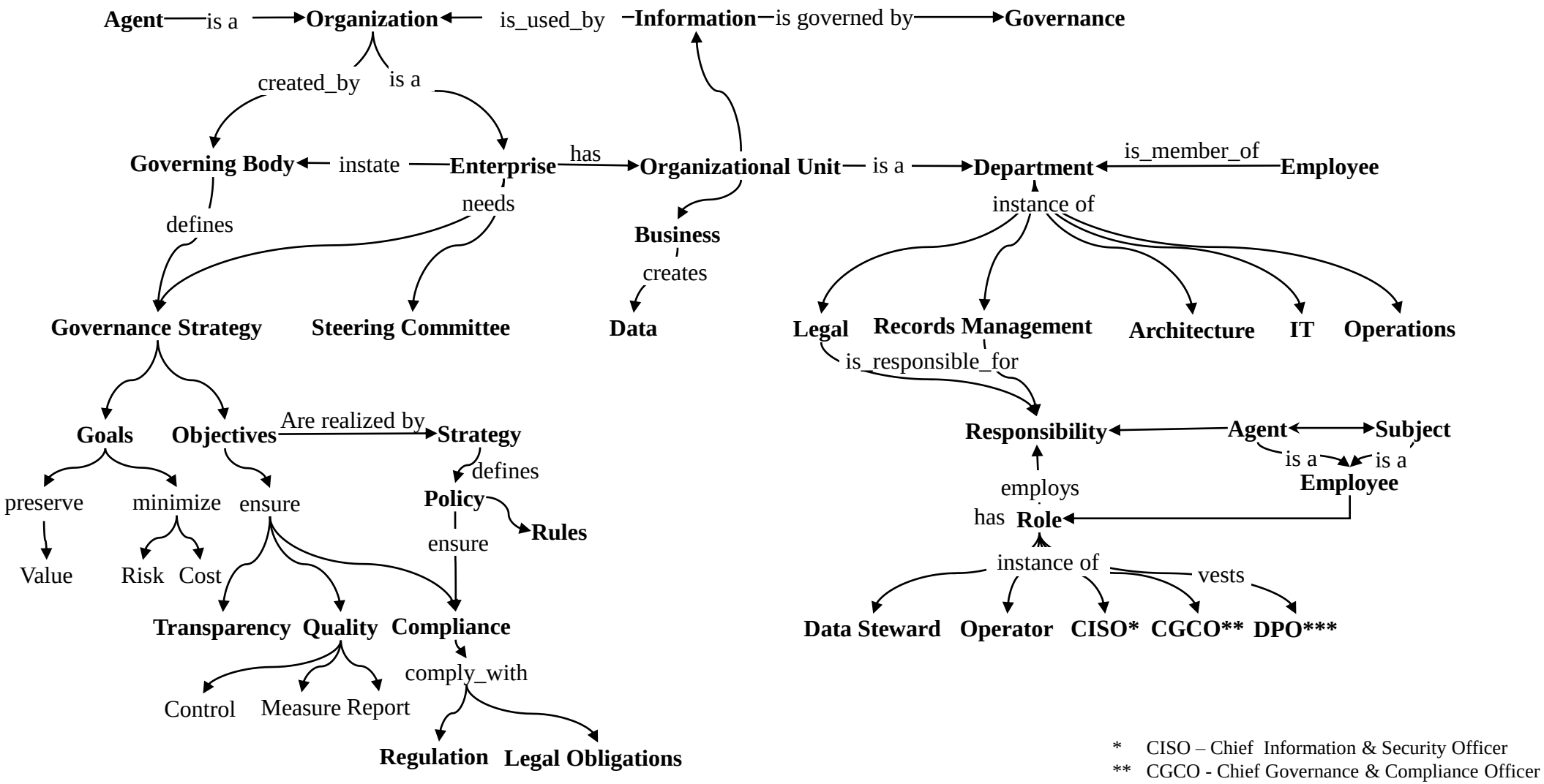
Data lifecycle begins with the creation and extends through till disposition of data

RLM refers to the creation, classification, maintenance, and disposition of a record

ALM – Critical asset lifecycle

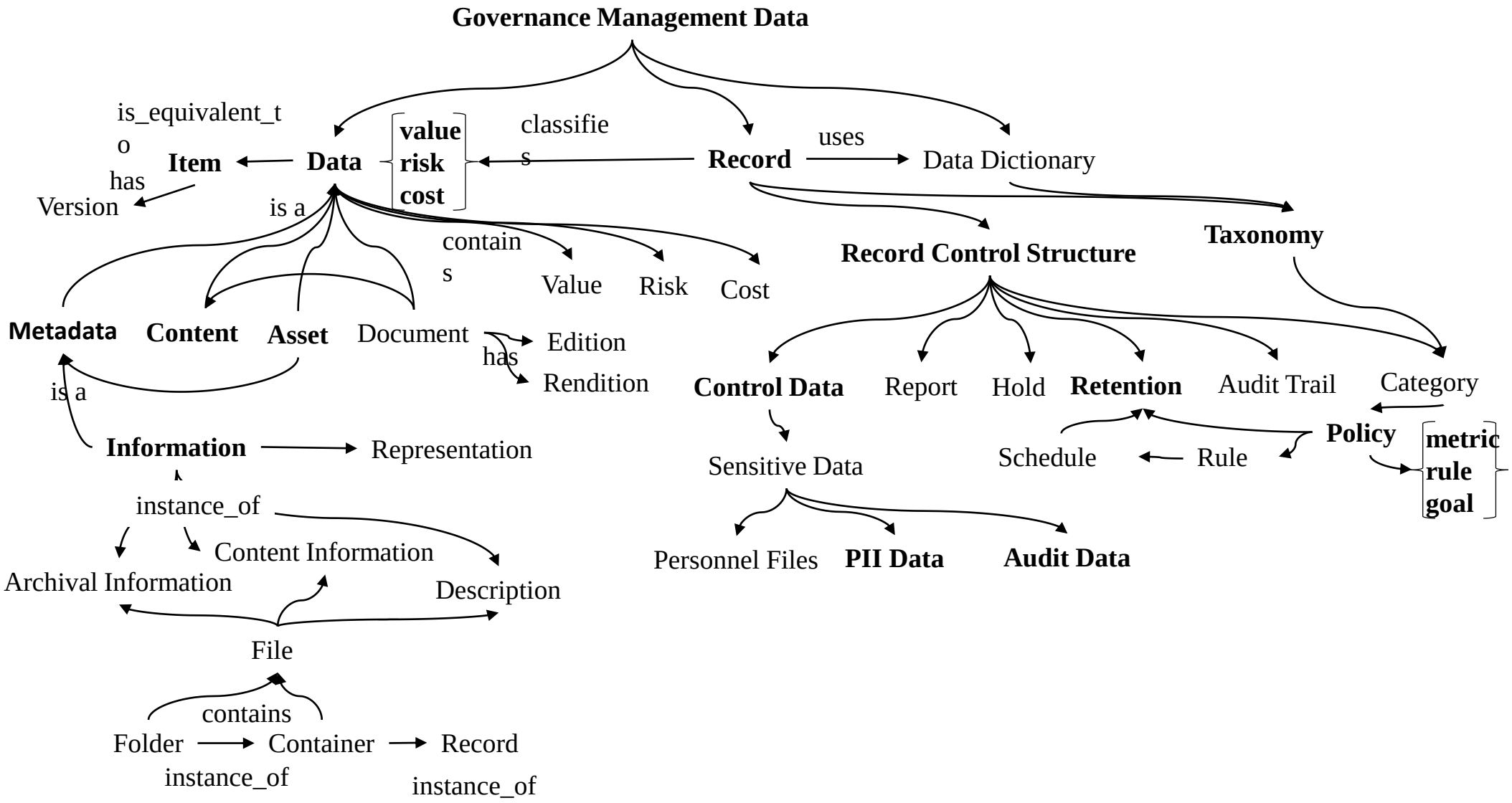
*Informal

IGSO - Organization Semantic Model (ORG)

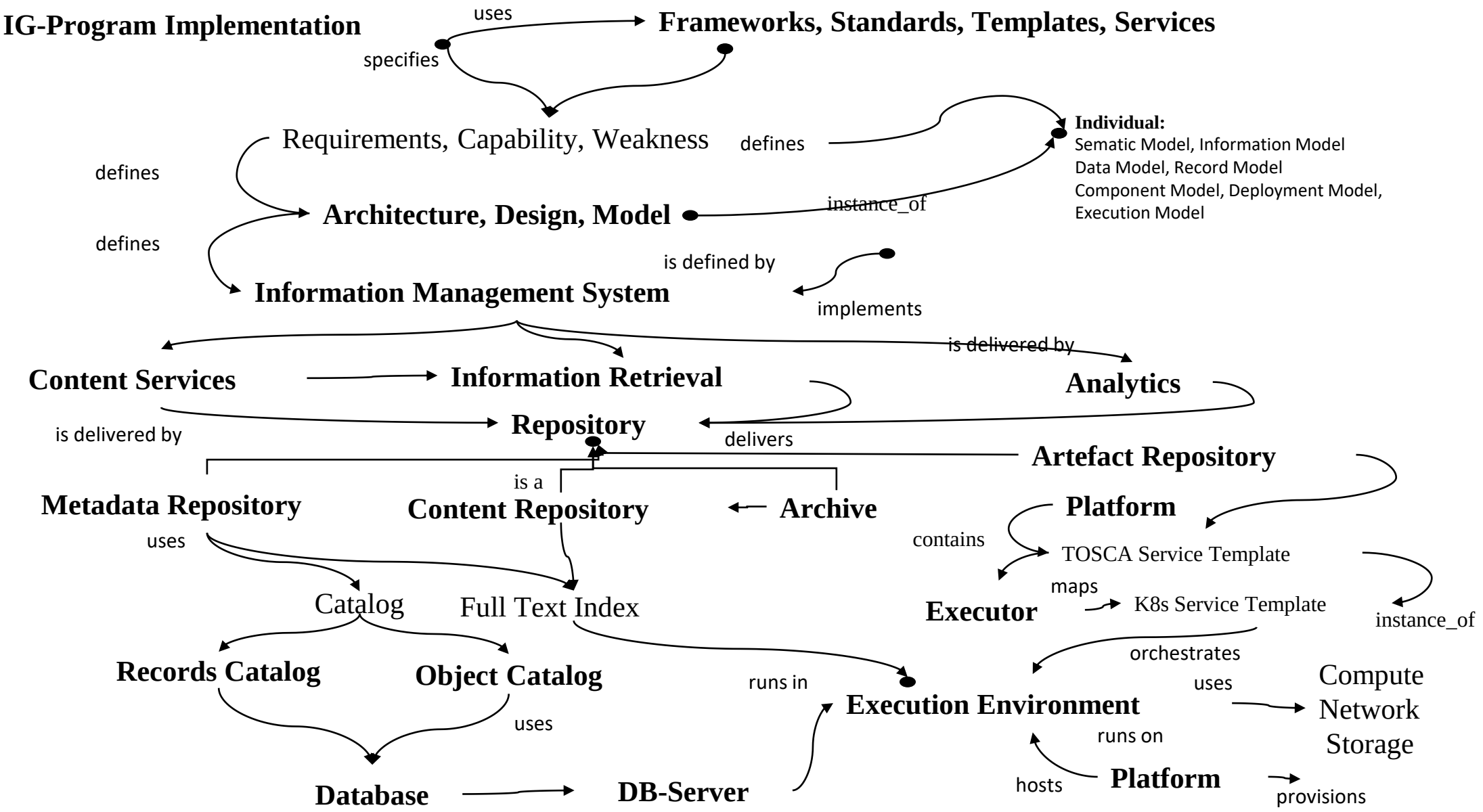


* CISO – Chief Information & Security Officer
** CGCO - Chief Governance & Compliance Officer
*** DPO – Data Protection Officer

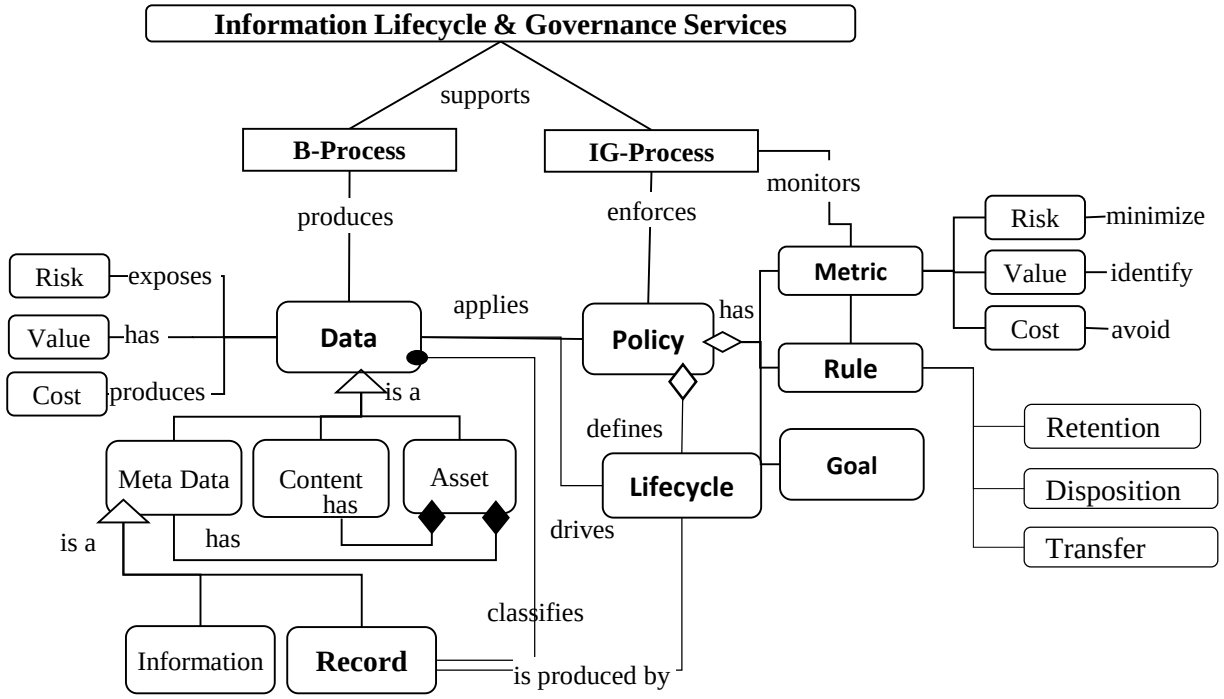
IGSO - Information Semantic Model (INF)

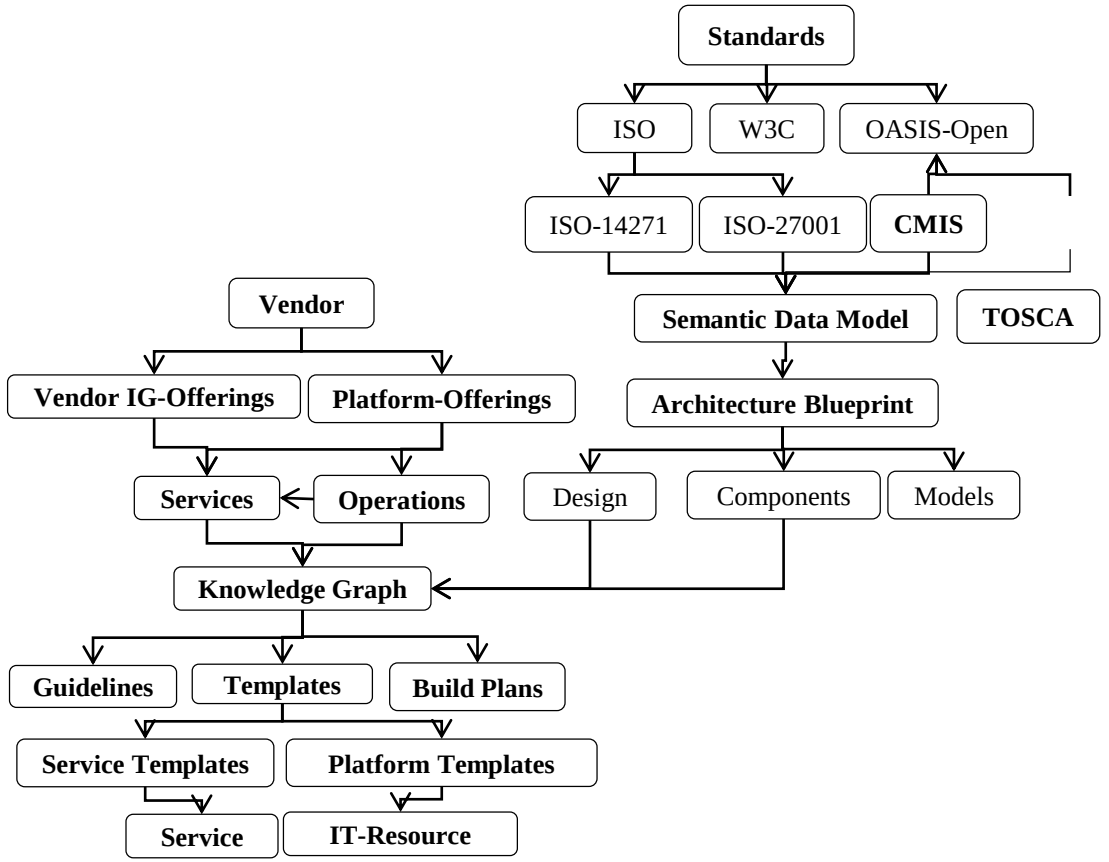


IGSO - System Semantic Model (SYS)

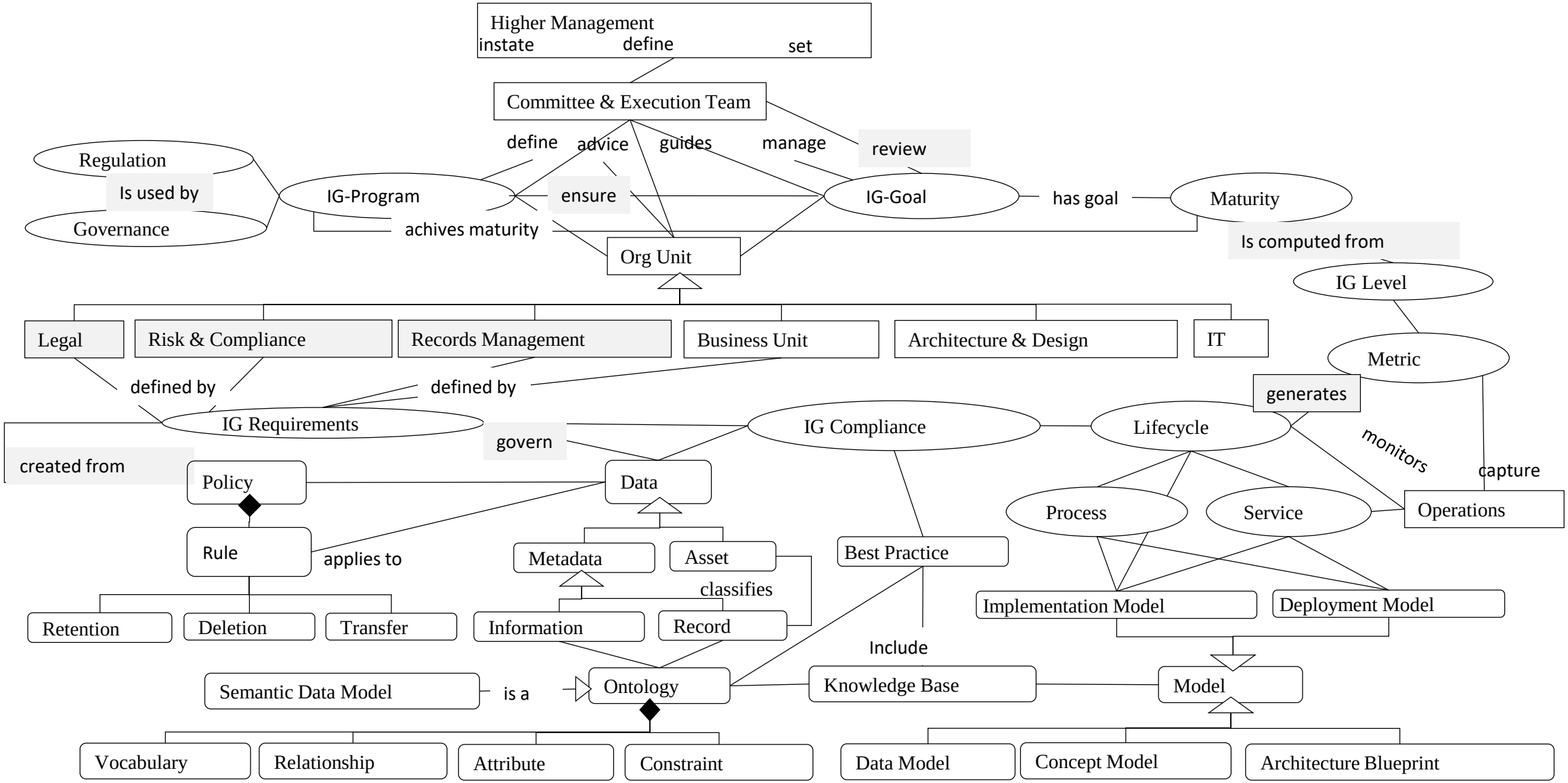


IGSO - Semantic Data & Policy Model

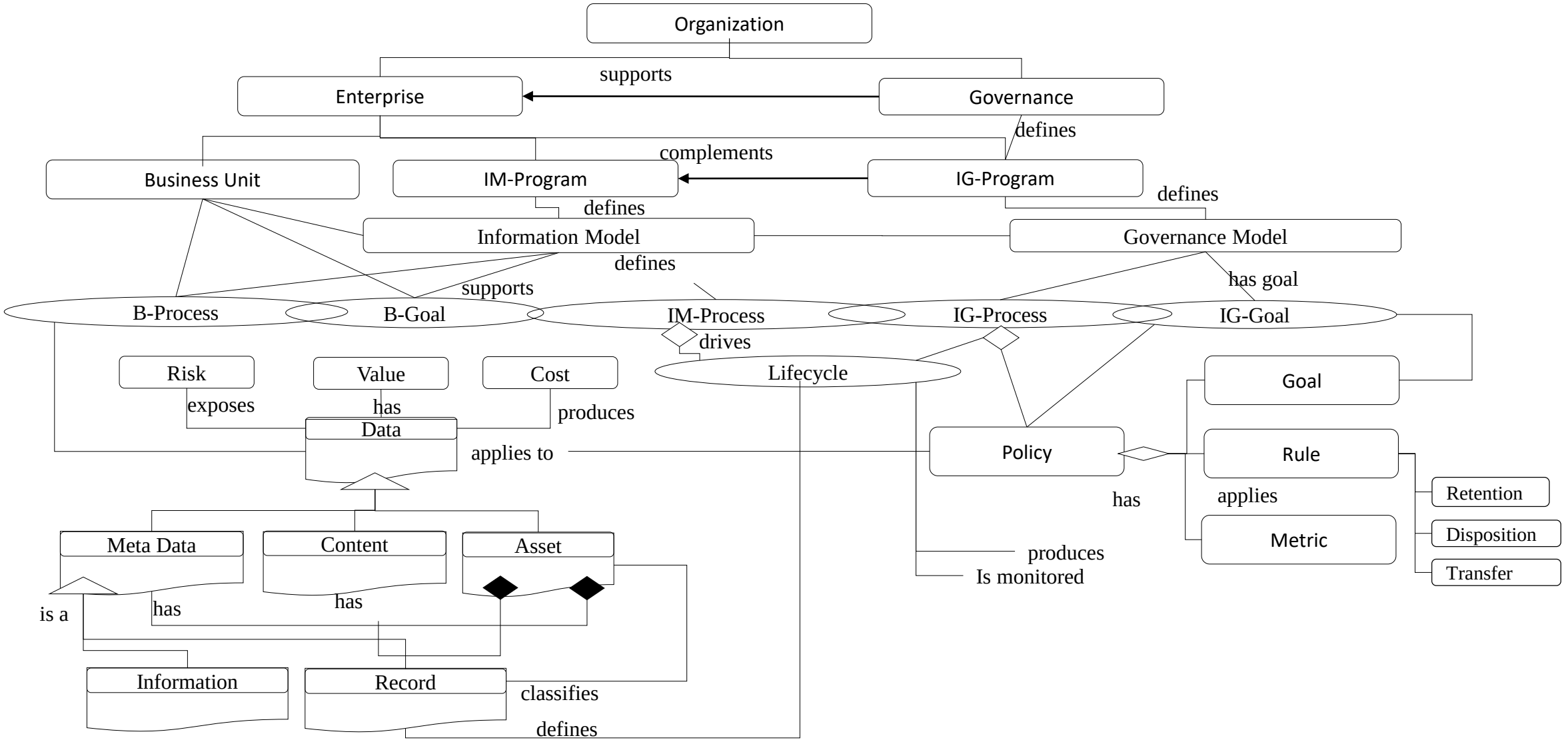




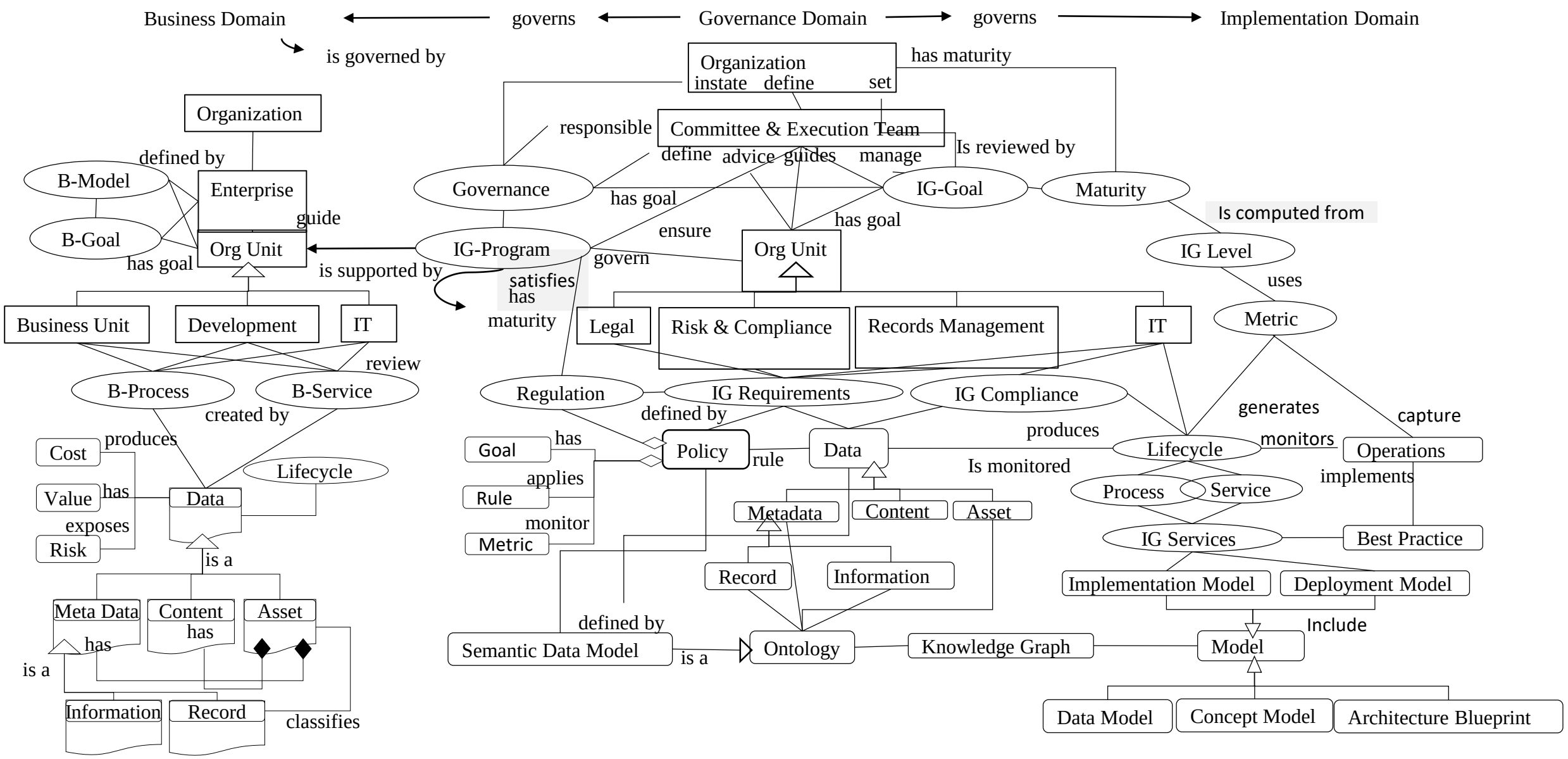
IGSO - Organization Model



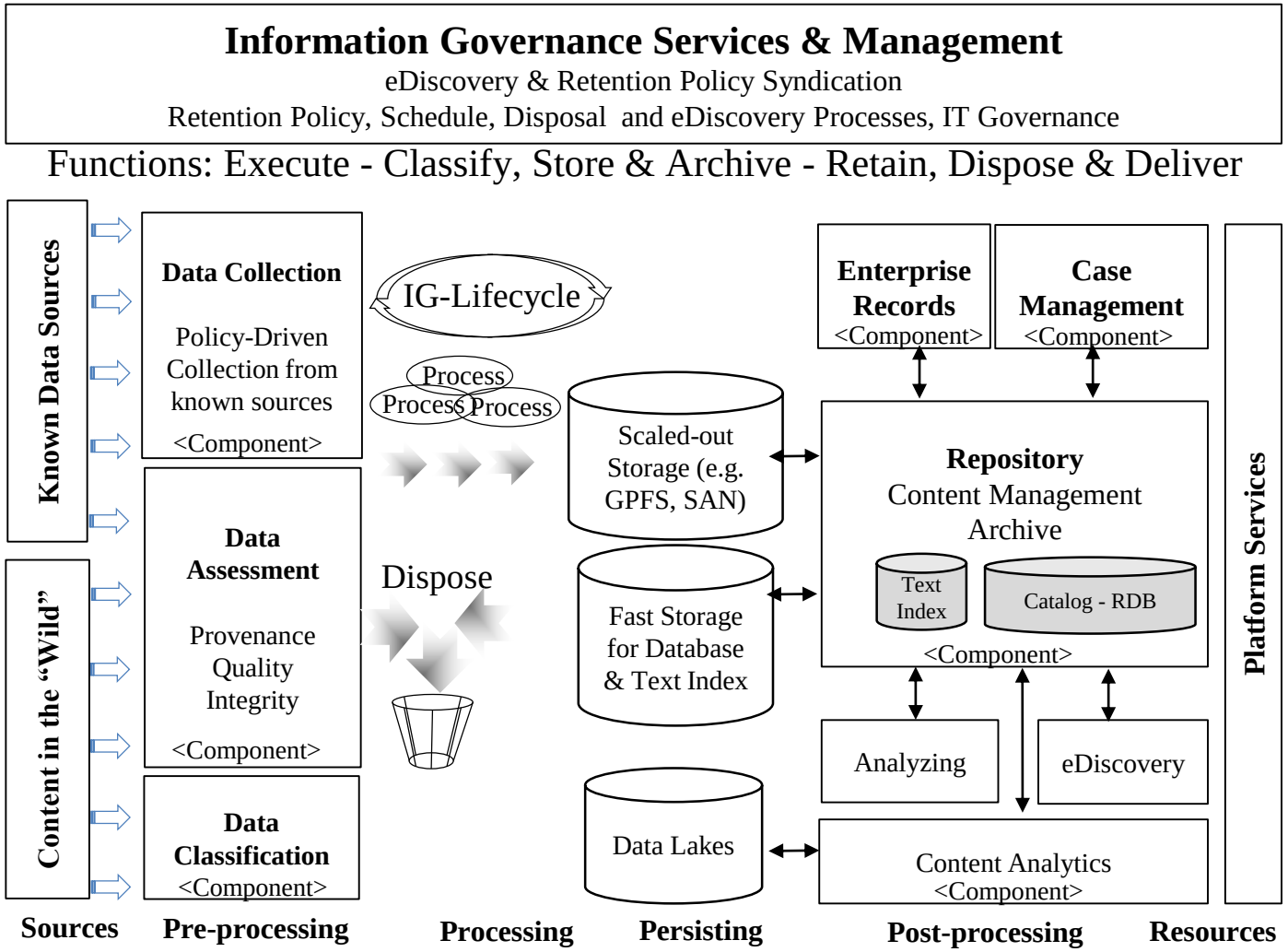
IGSO - Information Governance Model



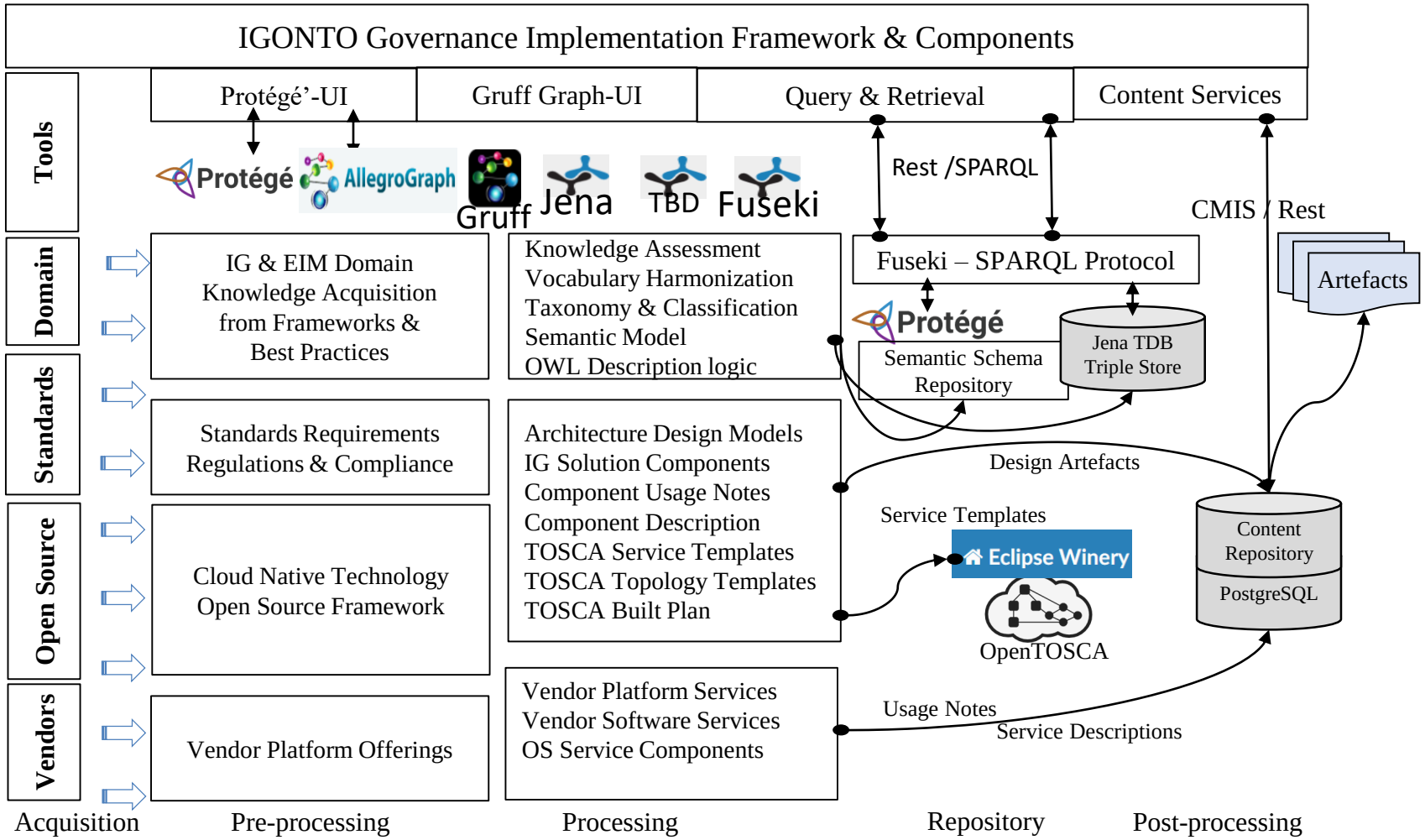
IGSO - Information Governance Model Details



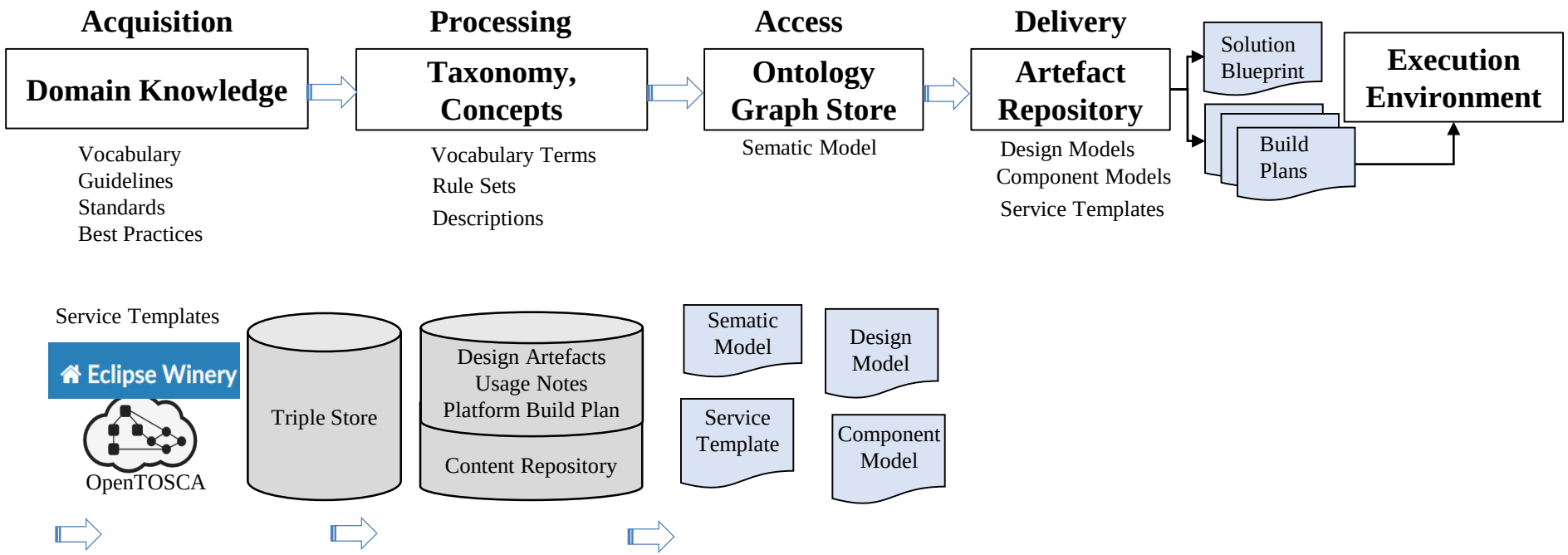
Information Governance Solutions Blueprint



IGONTO Framework



IGONTO Framework
Data Pipeline



Information Governance Process Maturity Model and its Ontology

Personal data processed for any purpose or purposes shall not be kept for longer than is necessary for that purpose or purposes. Time limits should be established by the controller for erasure or for periodic review.
— Regulation (EU) 2016/679 of the European Parliament and of the Council, 27 April 2016

- Information assets are often the worst governed
- Information assets are often the least understood
- Information assets are often the most poorly utilized key asset
- Data Is increasingly easy to collect and digitize
- Data Has increasing importance in products and services
- Data Is very hard to value or price
- Data Has a decreasing half-life
- Data Has increasing security and privacy risk exposure
- Data Is a significant expense in most enterprises

- is governed by an IG Program
- is metadata / tagging of -> data
- classified, taxonomy, ML, AI
- is collected, stored, searched, retrieved, disposed, archived
- is_classified, is_categorized
- has value, has price, has half-life, has_importance, has risk,
- has cost,
- is secured by, is_hard_to, is managed by, is administered by
- is_an_expense, is_easy_to_collect, is_easy_to_digitize

- Information assets, governed, key asset, collect, digitize, importance, products, services, Data, value, price, half-life, security, privacy, risk, exposure, expense, enterprises, Data Governance, decision rights, accountability framework, behaviors, Data, Data Governance design,

- Relations: has Decreasing, has Increasing, is Significant, is Hard To, is Significant, to encourage, desirable, collection effort, business, use, lays out, alignment processes,

- Metrics: importance, value or price estimate, half-life, decay-time, security risk exposure, privacy risk exposure, associated expense,

IG-Program - Implementation Concept Artifacts

Architecture & Design

IG Services Implementation Model using Standards and Products Components:

Content Services:

Collect, Load, Store, Archive, Dispose
Index, Search & Retrieval Services;
Classification, Taxonomies,
Information Lifecycle, Workflows;
Security, Privacy Framework, Authentication & Authorization
Monitoring

Implementation Domain

Standards Services

CMIS / JSR 170 /OASIS

Vendors / Products / Services

Alfresco, OpenText, IBM Content Manager, Oracle, MS Office 365

Operations Domain

IG Cloud Services Domain Specific Language (IGS-DSL) based on TOSCA-DSL and YAML Grammar
TOSCA Cloud Platform Agnostic Services
TOSCA Base Services
Cloud Platform Agnostic IG Services

Platform Domain

RedHat OpenShift, Microsoft Azur, Amazon Cloud, Google Cloud

. Software Technology &Tools; Business Support Services;
. Cloud, Orchestrators, Applications & Services;
. Cloud, Servers, Storage, Network & Connectivity;
. Operations Support Services: Monitoring & Metering;