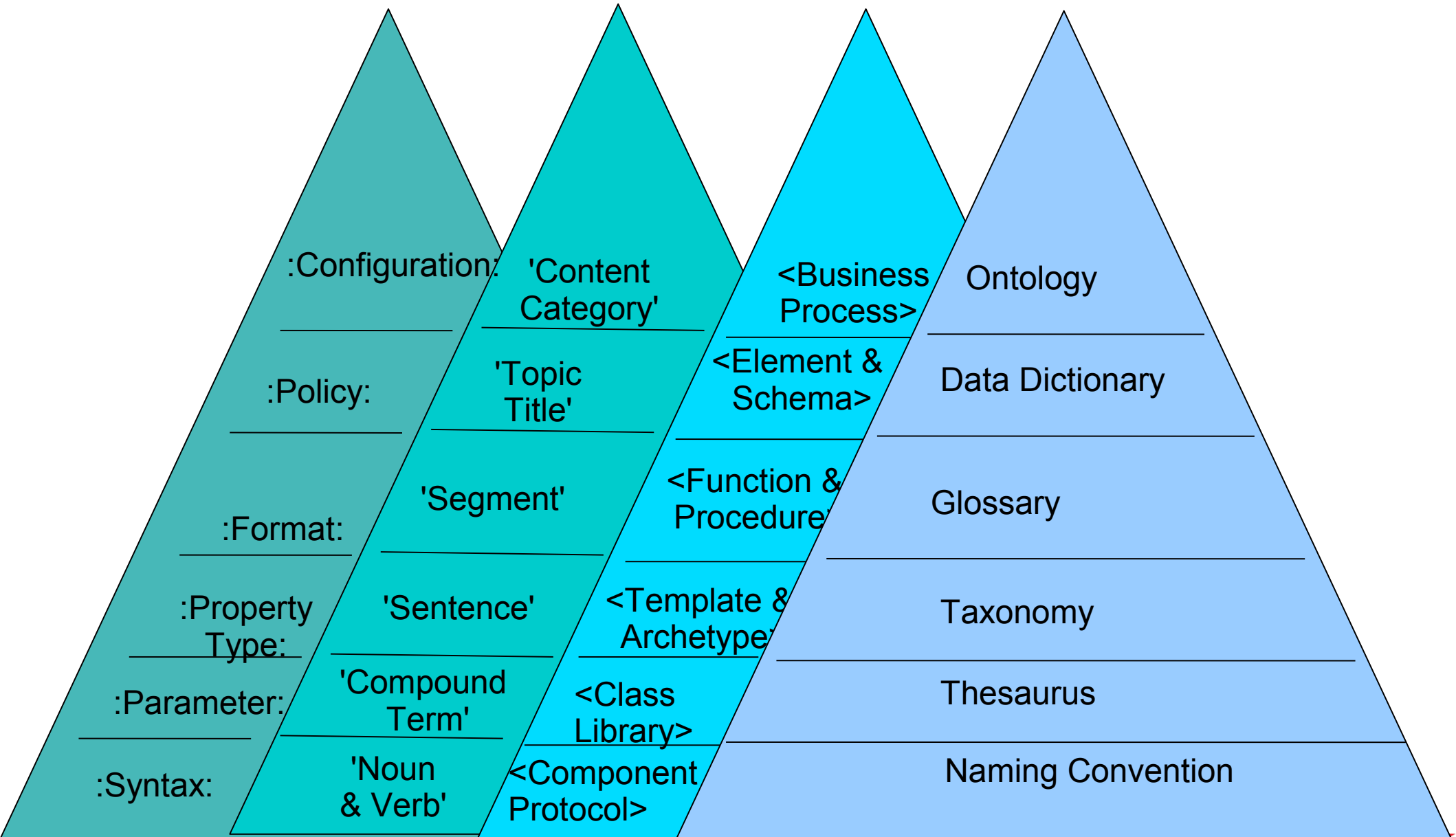


BCM & SMaaSH Architecture

- Semantic Metadata as a Service Hub
- Business Centric Management Semantic Layer
- Keep It Simple Semantics
- Loose Coupling across Controlled Vocabularies
- Modular Ontological Structures
- Metadata Provisioning Agents

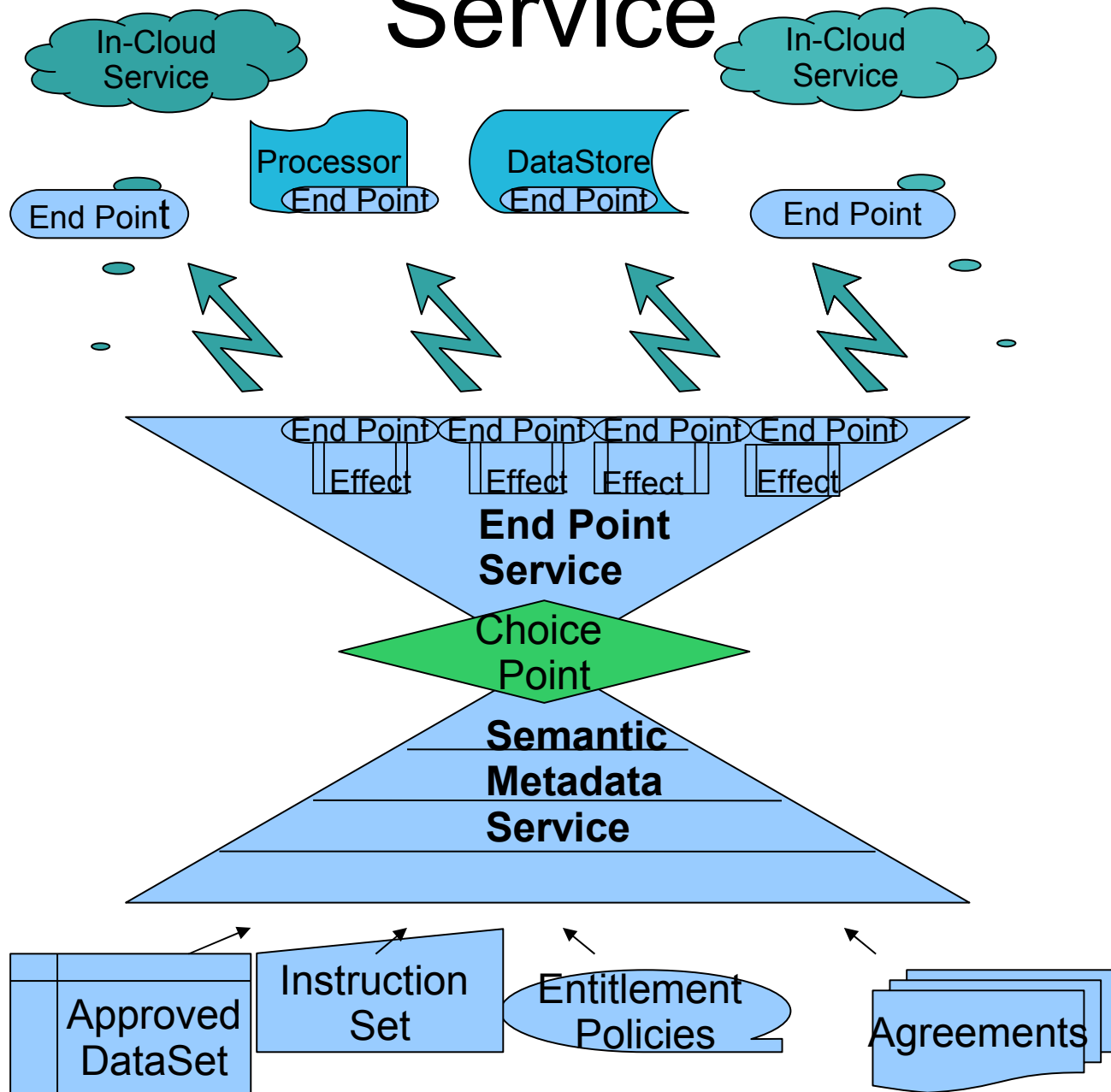
Semantic Pyramid Sections



Semantic Metadata as a Service Hub (SMaaSH)

- Binding for Everything that is a Service
 - Entity, Function & (Post) Effect Knowledgeware
 - Semantic Grid Resource Middleware
 - Cloud (to Cloud) Computing Radar
- Annotative Integration Quality Profile
 - End Pointable but No Native Metadata
 - Method Callable but No Relationship Assertions
 - Descriptor Actionable but No Business Value Statements

Semantic Metadata & End Point Service



Business Centric Semantic Layer

- Referential integrity of the concepts controlled by the Community of Interest / Community of Practice / Community of Action
- Annotate Data Exchange & Content Assembly services
 - Semantic datatypes per Schema
 - Business Process Templates & Data Archetypes
 - Context model for standard operating procedures
 - System Infrastructure Ontology with Protocol Taxonomy

BCM Layers & Supporting Services

Deliverables

Artifacts

Products

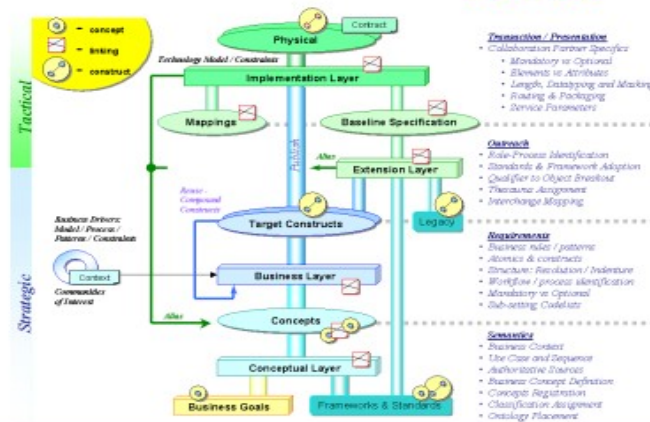


Lubash Pyramid

Layer	Deliverables
Implementation & Infrastructure	Physical, Contract, Mappings, Baseline Specification, Extension Layer, Target Constructs, Business Layer, Concepts, Business Goals, Frameworks & Standards
Extension	Baseline Specification, Extension Layer, Target Constructs, Business Layer, Concepts, Business Goals, Frameworks & Standards
Business	Target Constructs, Business Layer, Concepts, Business Goals, Frameworks & Standards
Conceptual	Concepts, Business Layer, Business Goals, Frameworks & Standards
Management	Business Goals, Frameworks & Standards

BCM Translates to capture value

Method



- Prevention / Promotion**
 - Collaboration Partner Specific
 - Mandatory or Optional
 - Elements to Address
 - Length, Grouping and Marking
 - Routing & Packaging
 - Service Parameters
- Outreach**
 - Role-Process Identification
 - Standards & Framework Adoption
 - Qualifier to Object Breakout
 - Workflow Alignment
 - Interchange Mapping
- Responses**
 - Business Model / Patterns
 - Alerts & Constructs
 - Structure / Revolution / Iteration
 - Workflow / process Identification
 - Mandatory or Optional
 - Sub-setting / Qualifier
- Services**
 - Business Context
 - User Case and Sequence
 - Authoritative Sources
 - Business Change Definition
 - Concept Registration
 - Classification Alignment
 - Ontology Placement

Implementation Layer



Extension Layer



Business Layer



Conceptual Layer



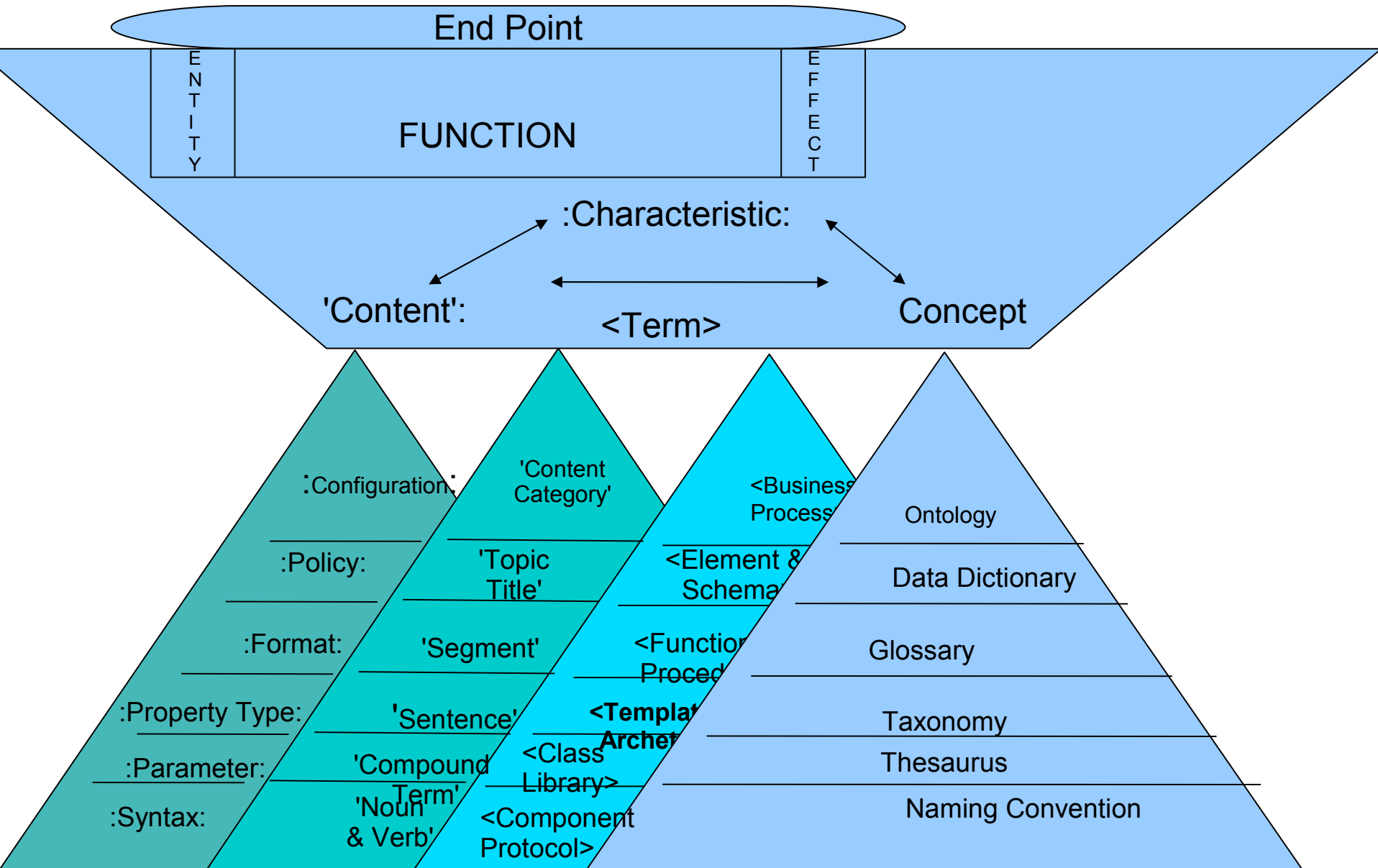
Supporting Infrastructure Services / Components



Keep it Simple Semantics

- Any Metadata better than None
 - Characteristics, Content, Context
- One Semantic Spoke at a Time
 - Incremental Evolution of Semantic Hubs
- Best Efforts Pattern Match
 - Entity: Need to have Data
 - Function: Nice to have Metadata Domain
 - Effect: Nicer to have Semantic Corpus

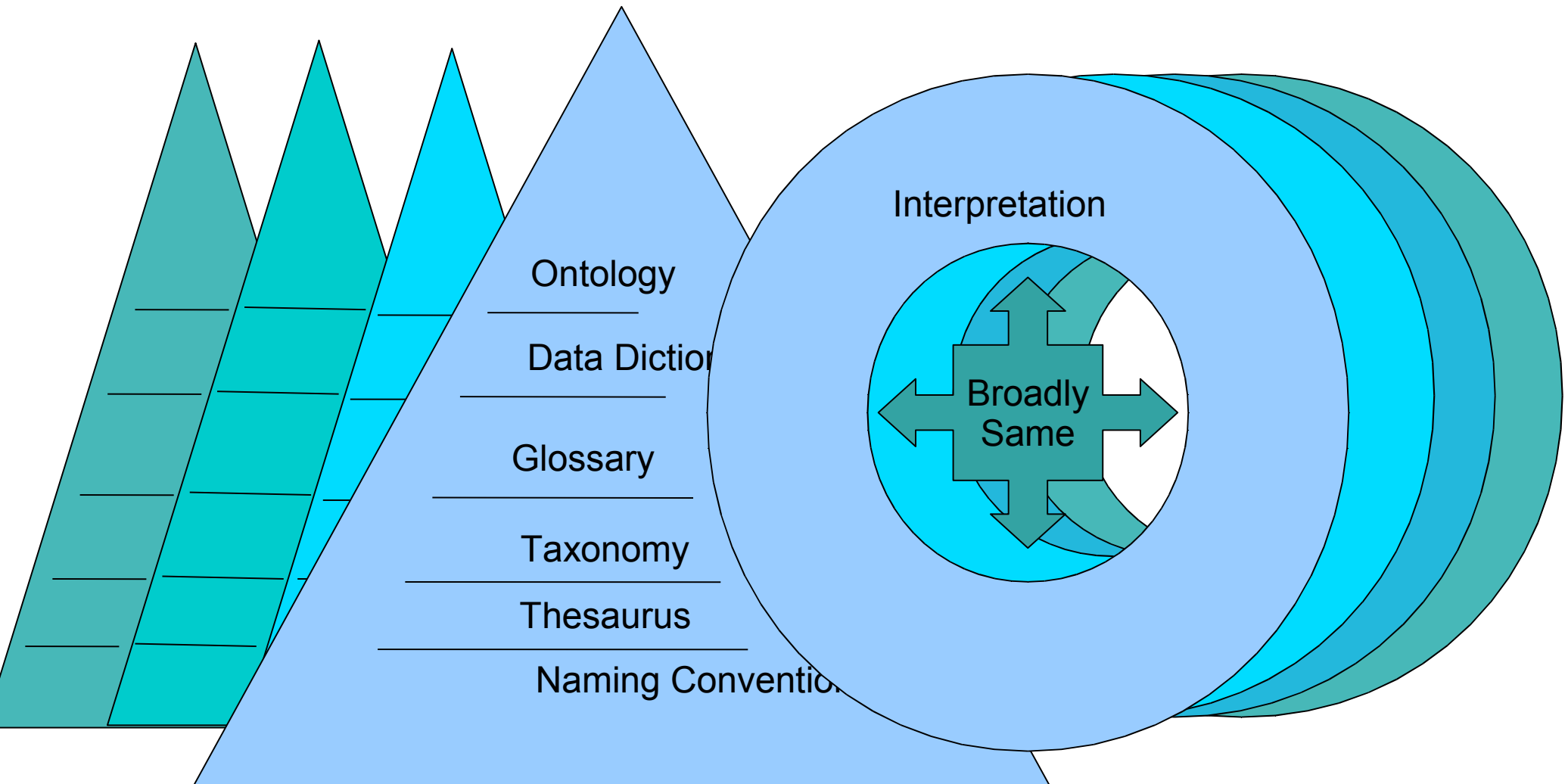
KISS Metadata



Loose Coupling: Controlled Vocabularies

- Controlled Vocabulary Digital Ecosystem
 - Business Process Ontology
 - Data Element & Schema Dictionary
 - Function and Procedure Glossary
 - Template & Archetype Taxonomy / SKOS Thesaural
 - Object / Method Naming Convention
- Coupling Syntactic Fact and Semantic Facet
 - Parameter; Property; Protocol; Policy
 - Format; Type; Configuration
 - Code Class; Library Catalog

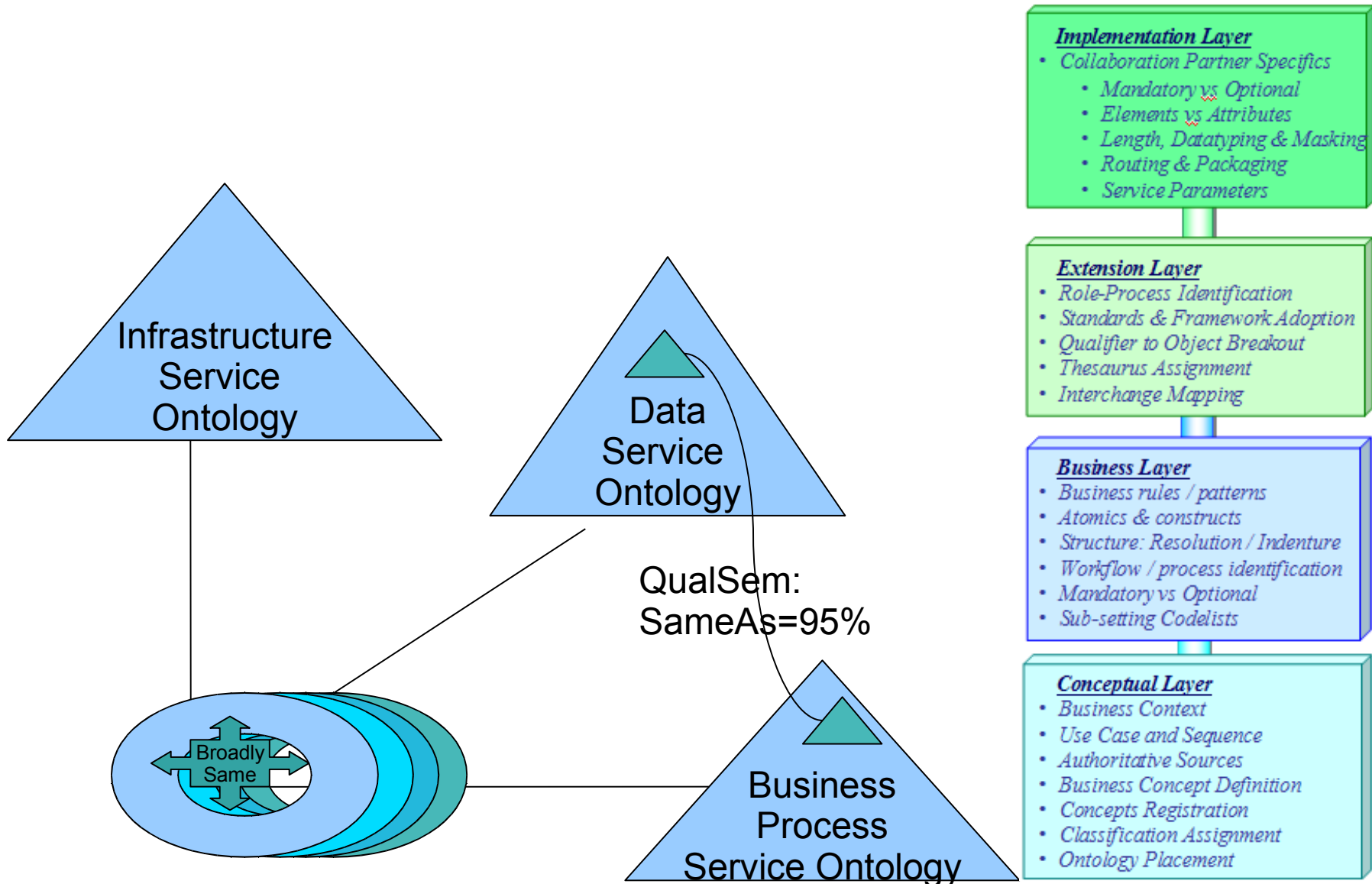
Broadly Same Coupling



Modular Ontological Structure

- Metadata Need Defines Semantic Strength Requirement
 - System infrastructure ontology
 - Datatype library
 - Exchange process document set
- None, One or More Root Topic
- Necessary & Sufficient Declarations
- Orthogonality of Notions
- SKOS 'broadly' Relationship

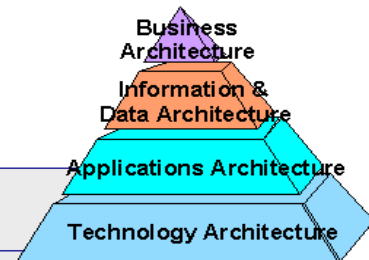
Quality of Semantic SameAs



Metadata Provisioning Agents

- Refresh Body of Knowledge
 - Structured Data
 - Unstructured Information
- Controlled Vocabulary Type Specific
 - Data Dictionary; Glossary
 - Taxonomy; Thesaurus; Ontology
- Domain (Industry/Discipline) Specific Corpus
- S2S (P2P Spoke to Spoke)
 - Hub of Thin (nano-scale) Semantic Bridging

References to be Refreshed



Reference Views			
Business	Functional	Technical	Implementation
Why is the engagement being undertaken? What are your organization's primary motivations and business drivers?	What will your system do? What information will it provide?	How will your system be realized with IT components?	With what specific products and other components will your system be implemented? In what organization? According to what plan?

For each reference view

