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HL7 V3 User Model

The V3 Editing Team

April 9, 2007

Ockham Information Services LLC

Contents

- Profile orientation
- Profile drafts
- Use case drafts
- Document map prototypes

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The need for profiles

- Documents require objectives
  - For the writer to spend time efficiently
  - For the reader to identify the correct document
  - For HL7 to confirm coverage

- Profiles imply objectives
  - Groups of similar users allow us to create a finite set of objectives that will serve most needs

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Profile Guidelines

- How many?
  - Enough to differentiate without clutter. Candidate Profiles without significant differences should be collapsed.
- How much detail?
  - Enough to understand basic needs and the documents that will meet them.
- How do we confirm?
  - Vet with representatives from publishing & education. Expose on Wiki. Review with end users.
- How do we use?
  - Add targeted profile to each document's "objectives" section for writer guidance and reader identification.

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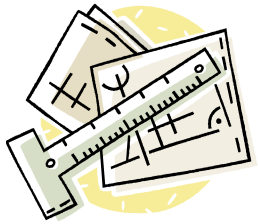
Types of Users

- Standards Influencers
  - Specify requirements for standards
  - Sponsor, Voter



- Standards Developers
  - Create standards
  - Developer, Methodologist

- Software Implementers
  - Implement standards in software
  - Software Business Representative, Software Implementer

- Standards Users
  - Use standards for messaging
  - Implementer Business Representative, Implementer

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Existing Profile Documents

- Package Note to Readers, “Getting Started”
  - Useful source of real-world needs
  - Requires systematic review & rationalization
- Publication Facilitator’s Guide
  - 9.2.3 preface specification 1: Notes or 4: Prerequisites, Assumptions and Conventions
- Document Introductions
  - “Document Purpose” content varies

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“Getting Started” Profiles

- Profiles from ballot:
  - New implementer ➔
  - Manager ➔
  - Project manager ➔
  - Marketer ➔
  - Site agreement constructor
  - Deal signer ➔
  - Interface analyst ➔
  - Interface programmer ➔
  - Standards Developer ➔
- Proposed profiles:
  - = Implementer
  - = Business representative
  - = Implementer
  - = Sponsor
  - = Implementer Business Rep
  - = Implementer Business Rep
  - = Implementer
  - = Implementer
  - = Standards Developer

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Profile Stage: Novice

- A novice is not a profile but a stage
- A novice business user may remain a novice
- An implementer or developer begins as a novice but then specializes
  - Objectives
    - Understand V3 objectives and principles
    - Understand costs and benefits
    - Understand where to go for more information of a specific type

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Standards Influencer: Sponsor

- A director or partner who has invested or may invest in standards development
- Objectives
  - Understand impact of standards change on business strategy and operations
  - Cause, modify, or prevent specific changes
  - Scope of concern may be limited to selected issues

A standards influencer will only want to understand the V3 standards development process well enough to provide input appropriately.

Standards Influencer: Voter

- An analyst or architect with an interest in the design of a standard
- Objectives
  - Understand selected issues and standards at the implementation level
  - Be able to provide substantive feedback on ballot items

A standards influencer will only want to understand the V3 standards development process well enough to provide input appropriately.

Standards Development: Developer

- A person participating in the creation or modification of V3 standards
- Objectives
  - Understand the development process in detail
  - Understand touchpoints among the domains and committees
  - Answer virtually any question

A standards developer must understand the V3 standards development process in depth.

Standards Development: Methodologist

- A person who defines the processes standards developers follow
- Objectives
  - Confirm details and agreements concerning process, artifacts, and tools
  - Understand the process for modifying the methodology

A standards developer must understand the V3 standards development process in depth.

Software Implementation: Software Business Representative

- A manager who may want to evaluate the usefulness of HL7 for a software product, whether to adopt or discontinue
- Objectives
  - Understand benefits of V3
  - Understand conformance costs
  - Understand steps to implement

A standards Implementer may not invest the effort necessary to understand the V3 standards development process.

Software Implementation: Software Implementer

- A person responsible for making a standard work in a software product (analyst, architect, project manager, programmer)
- Objectives
  - Understand how to implement a specific standard
  - Understand conformance in detail
  - Answer specific questions about the standard

A standards implementer will not invest the effort necessary to understand the V3 standards development process.

Standards Implementer: Implementer Business Representative

- A manager who may want to evaluate the usefulness of HL7 for a payor or clinical institution
- Objectives
  - Understand benefits of V3
  - Understand steps to implement

A standards user may not invest the effort necessary to understand the V3 standards development process or artifacts.

Standards Implementer: Implementer

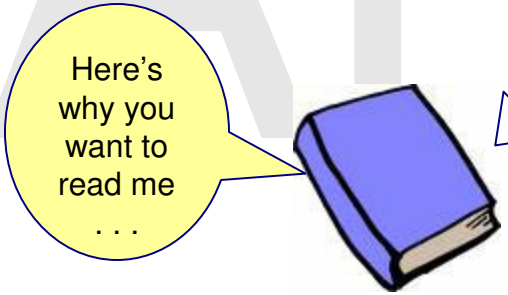
- A person responsible for making a standard work in a working implementation (analyst, architect, project manager, programmer)
- Objectives
  - Understand how to implement a specific standard
  - Answer specific questions about the standard

A standards user may not invest the effort necessary to understand the V3 standards development process or artifacts.

Navigating The Documentation

- Readers follow typical profile paths—Use Cases
- Document Map defines path
- Documents confirm appropriateness

which document?



- Domain Map clarifies semantic context

which domain?

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Use Cases Are

- Scenarios
- Specific to profile types
- Sets of specific steps to consult documents

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Use Cases: Influencers

- Standards Influencer
  - Evaluate conceptual overlap
  - Evaluate an opportunity (i.e. a gap)
- Voter
  - Evaluate a ballot change to a specification

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Use Cases: Developer

- Standards Developer
  - Evaluate conceptual overlap
  - Create a standard
  - Modify a standard
- Methodologist
  - Evaluate conformance of a standard

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Use Cases: Software

- Software Business Representative
  - Evaluate V3 for adoption
  - Evaluate a change for adoption
- Software Implementer
  - Evaluate V3 for adoption
  - Evaluate a change for adoption
  - Support a standard

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Use Cases: Implementers

- Implementer Business Representative
  - Evaluate V3 for adoption
  - Evaluate a change for adoption
- Implementer
  - Evaluate V3 for adoption
  - Evaluate a change for adoption
  - Implement a standard

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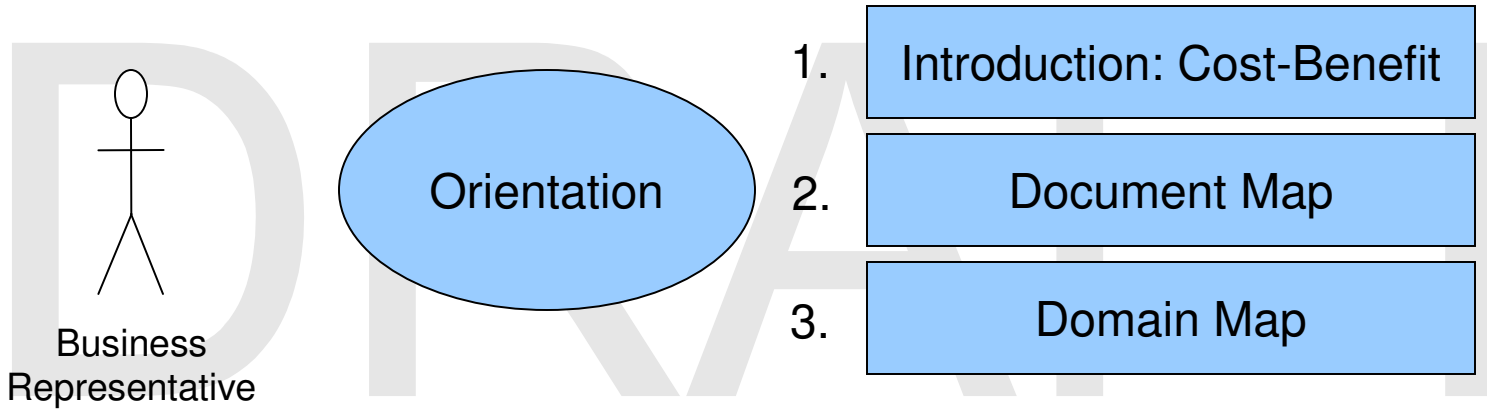
Use Case

Business Representative evaluates V3 for adoption



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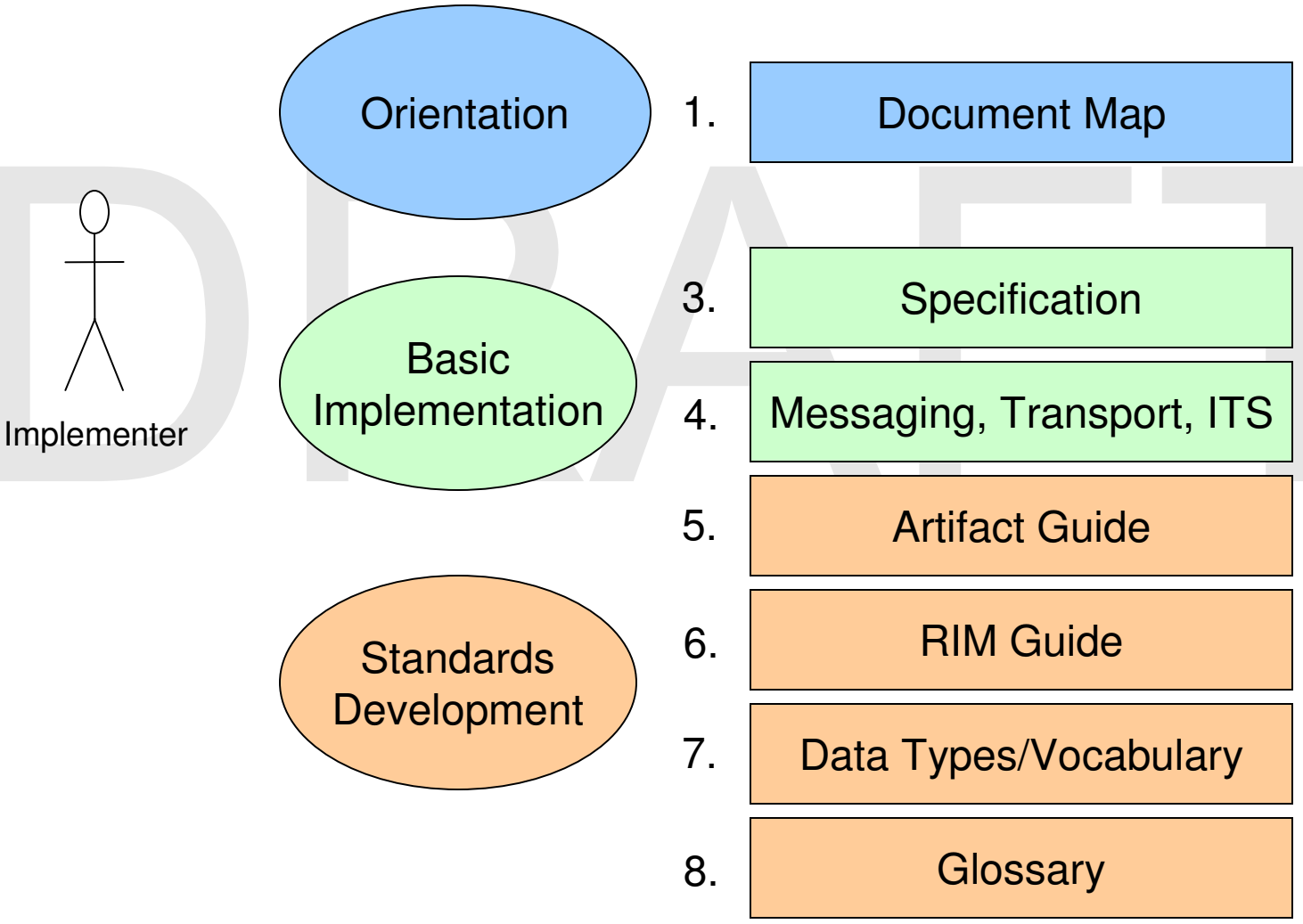
Use Case

Implementer evaluates V3 for adoption



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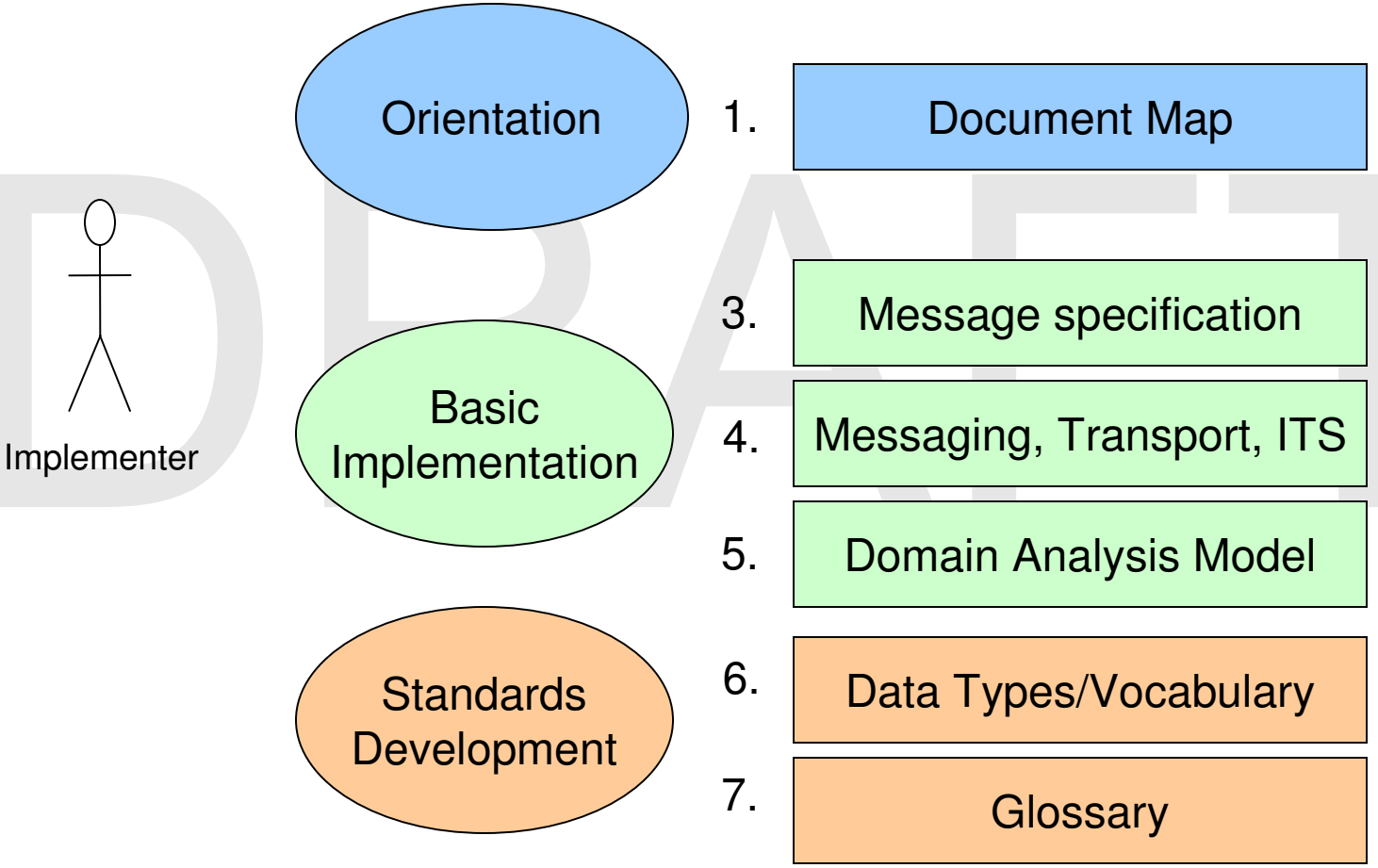
Use Case

Implementer implements a message



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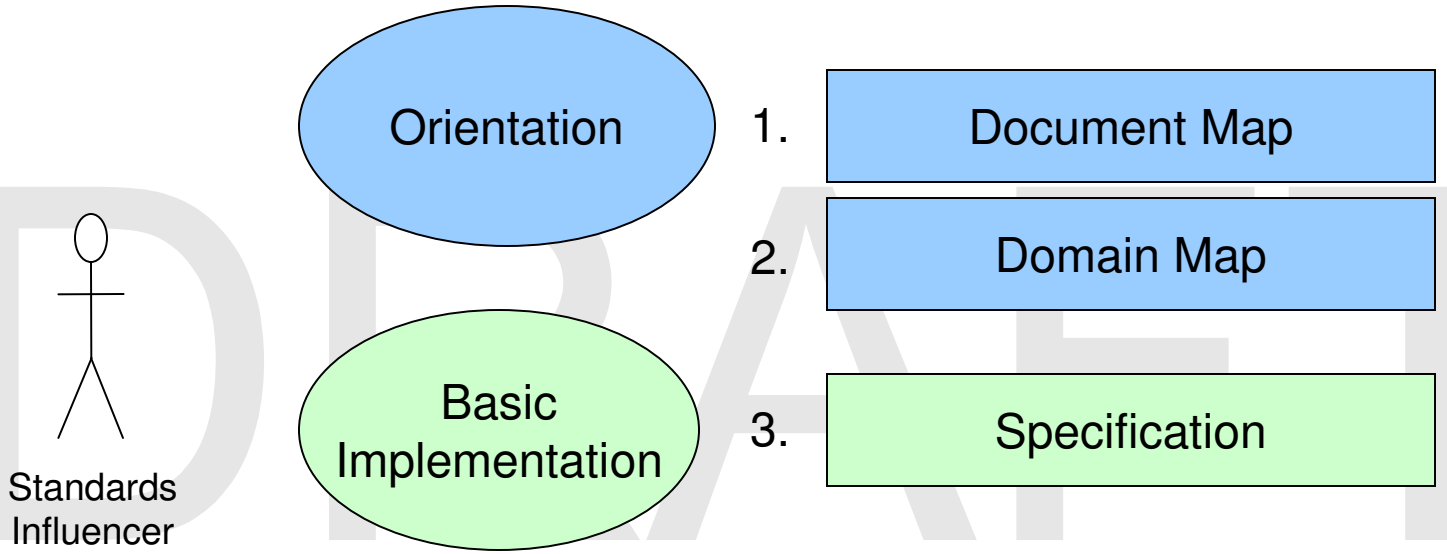
Use Case

Standards Influencer identifies conceptual overlap



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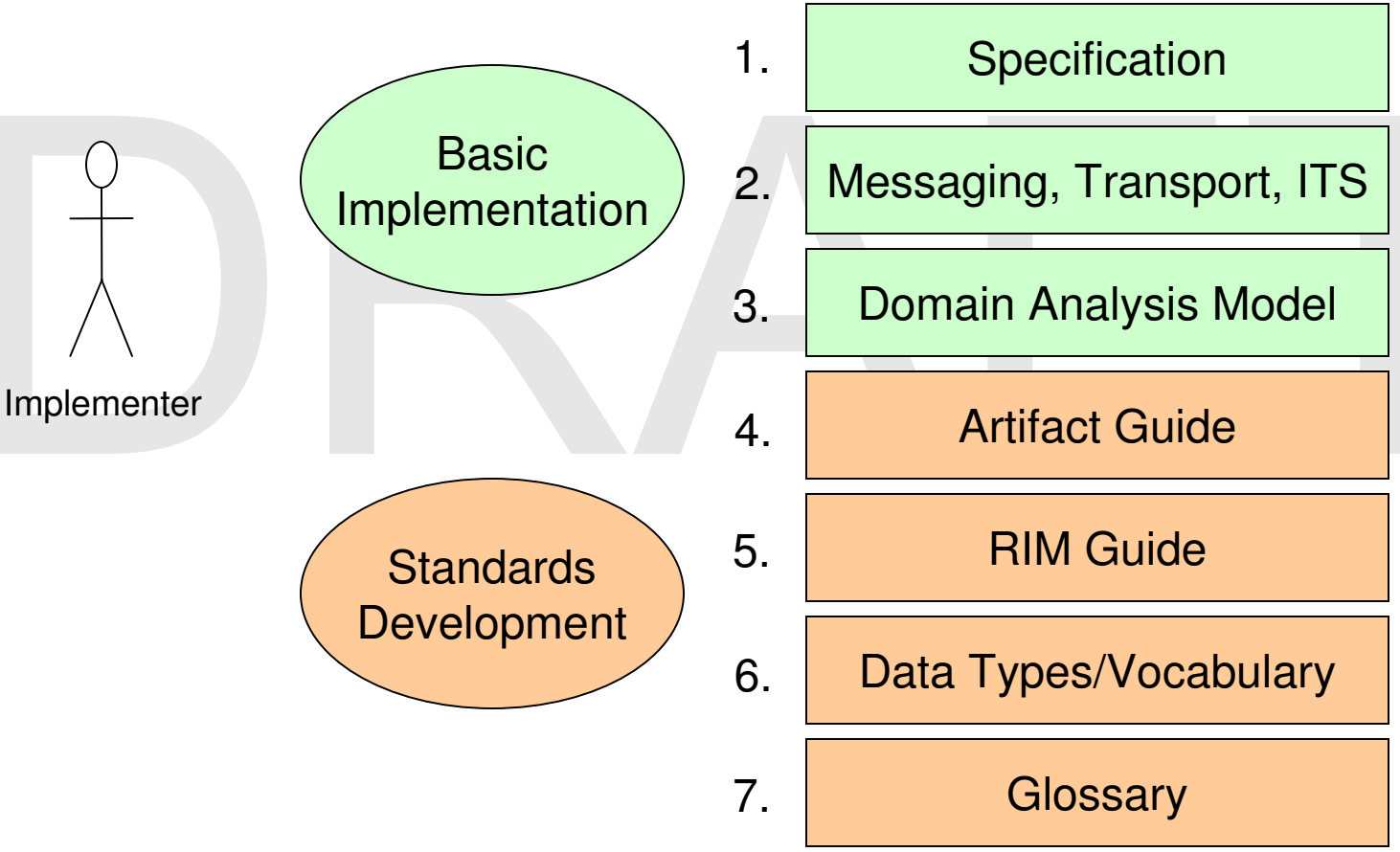
Use Case

Voter assesses a ballot change to a specification



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Document Maps

- Concept 1
  - Represents messy reality
  - Provides a map for path, in context
- Concept 2
  - Aligns documents along 2 dimensions
  - Cleaner, but may be harder to draw paths
- Concept 3
  - Maximally simplified

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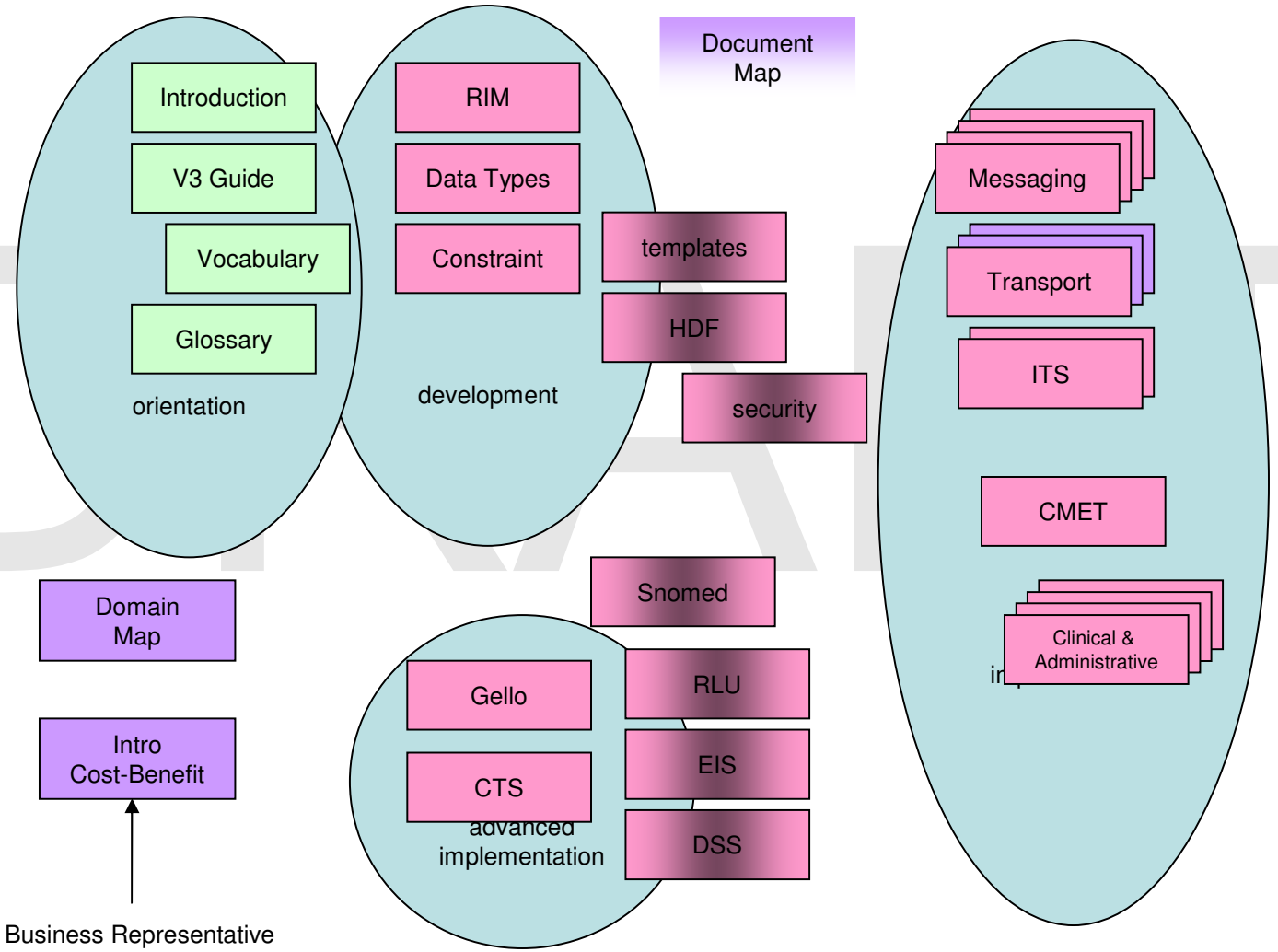
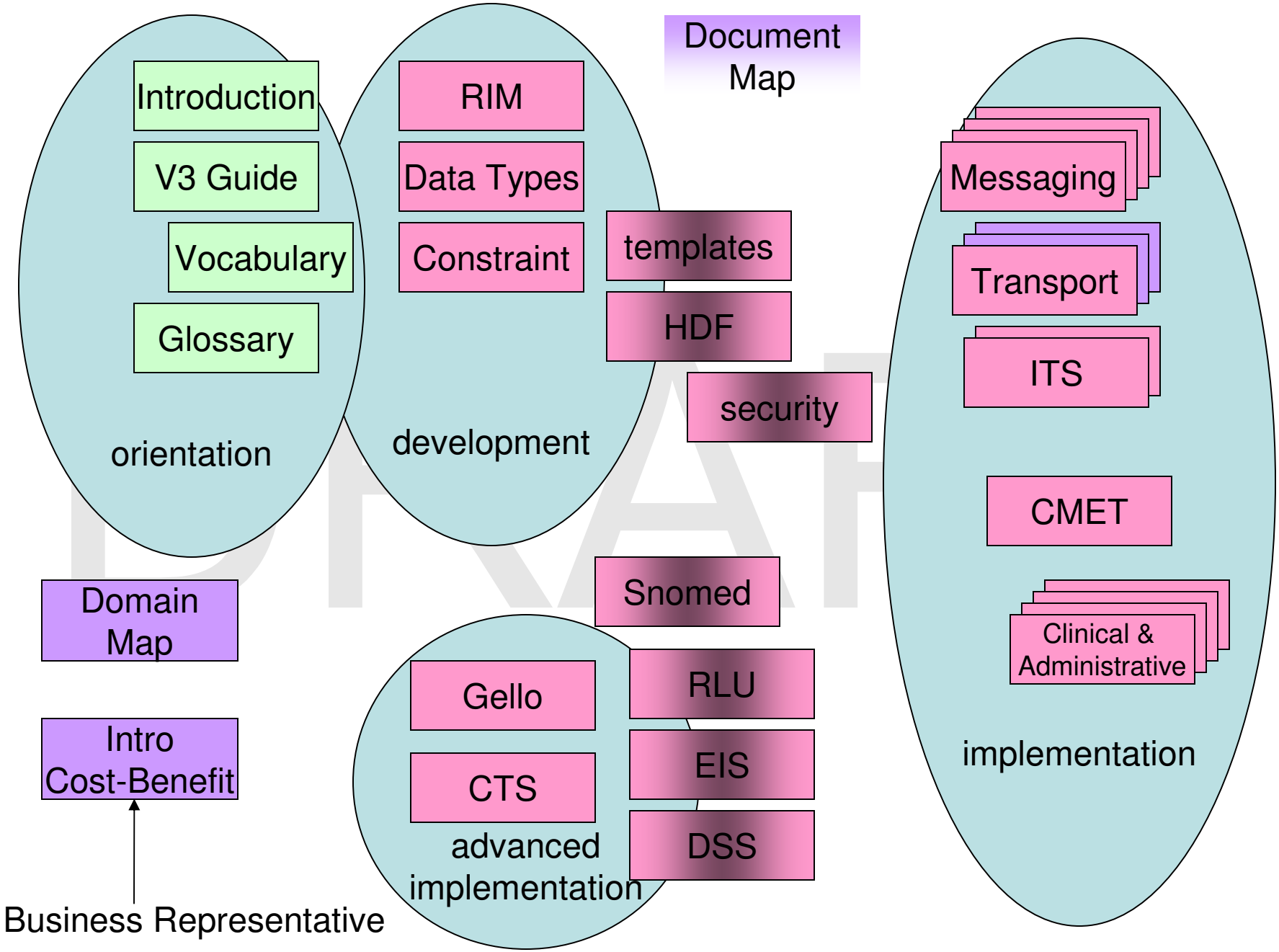
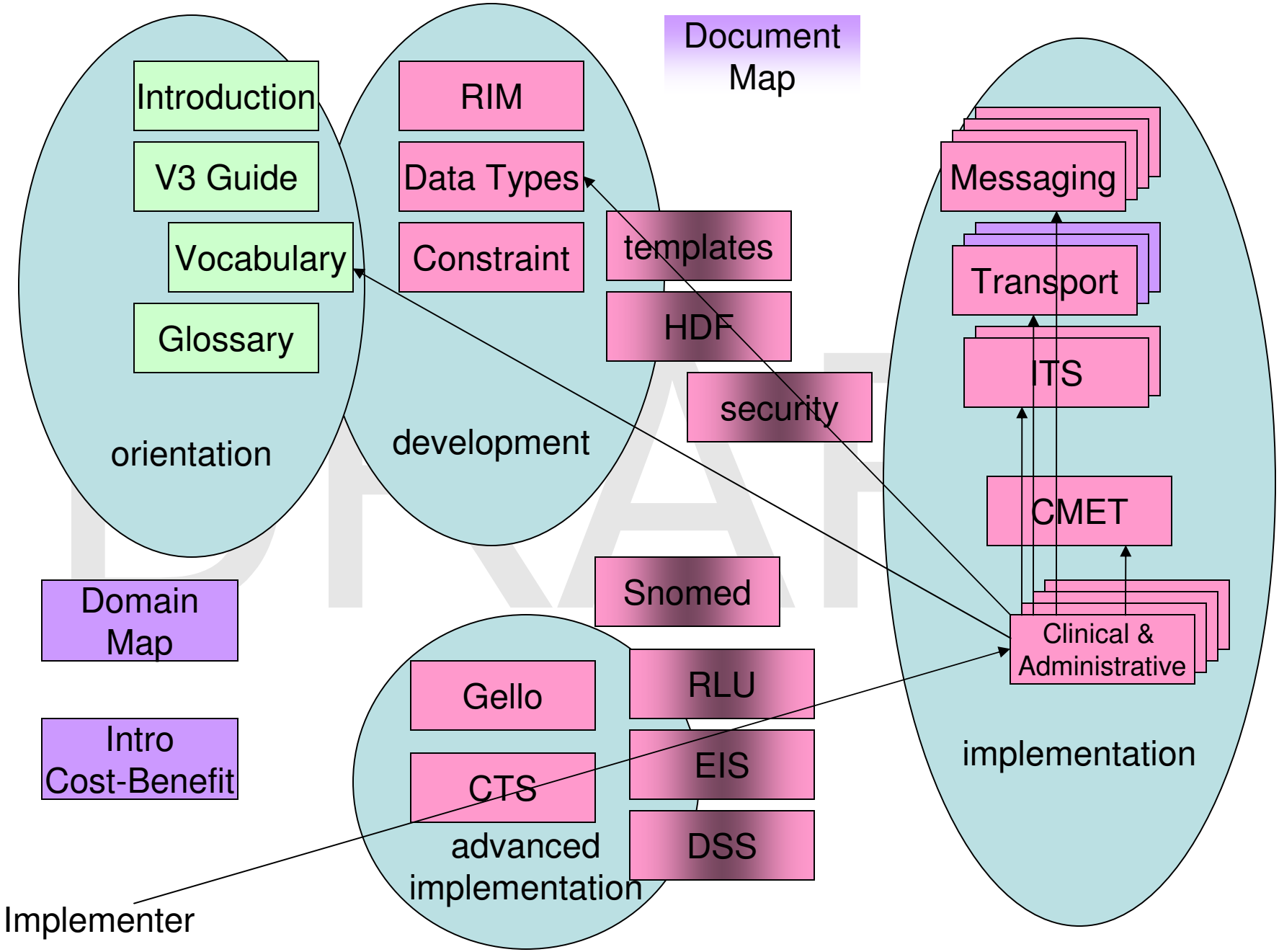
Document Map Concept 1




Introduction
V3 Guide
Vocabulary
Glossary
orientation
RIM
Data Types
Constraint
development
Document Map
templates
HDF
security
Messaging
Transport
ITS
CMET
Clinical & Administrative
implementation
Snomed
Domain Map
Gello
CTS
RLU
EIS
DSS
advanced implementation
Intro Cost-Benefit
Business Representative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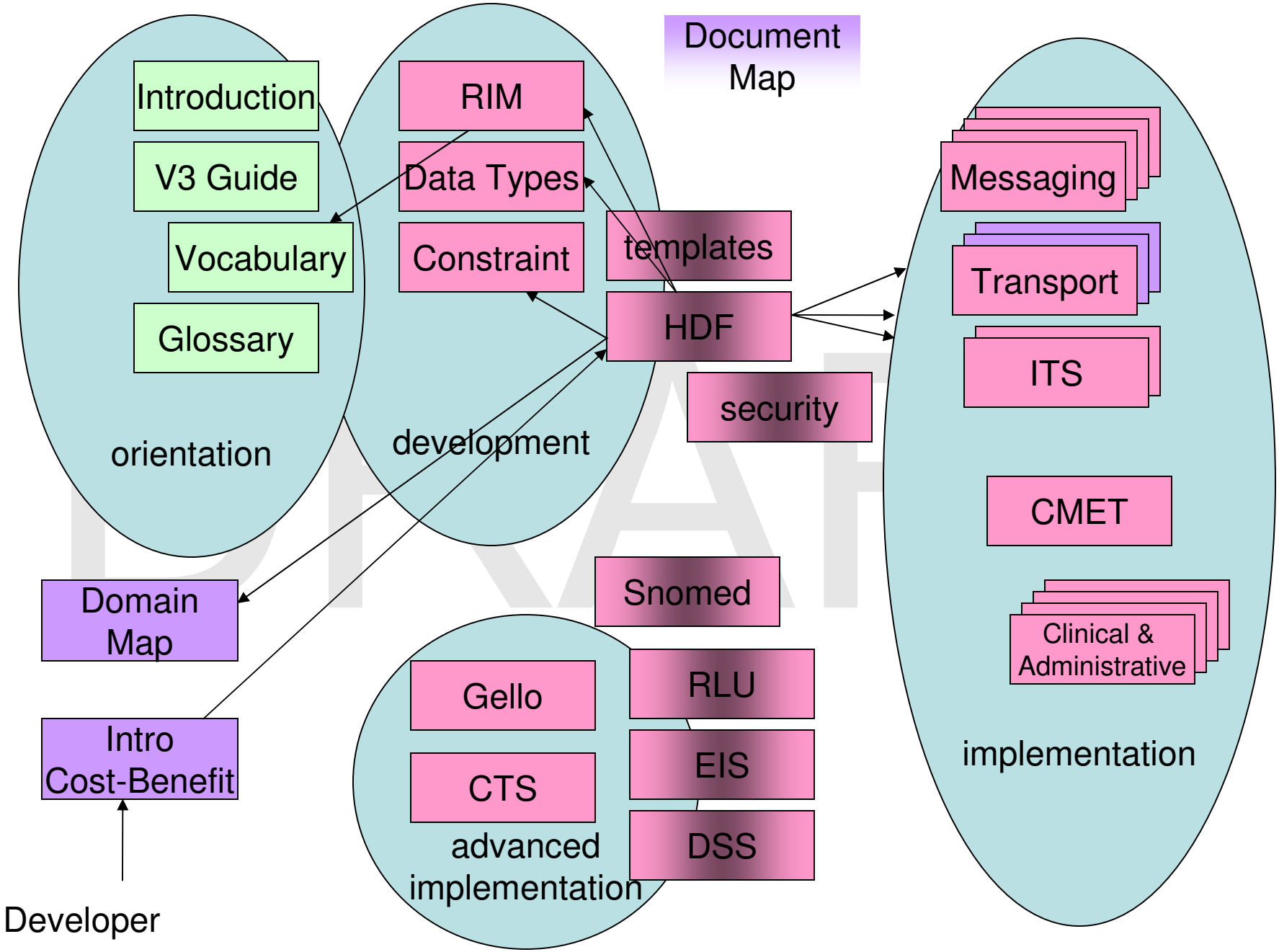
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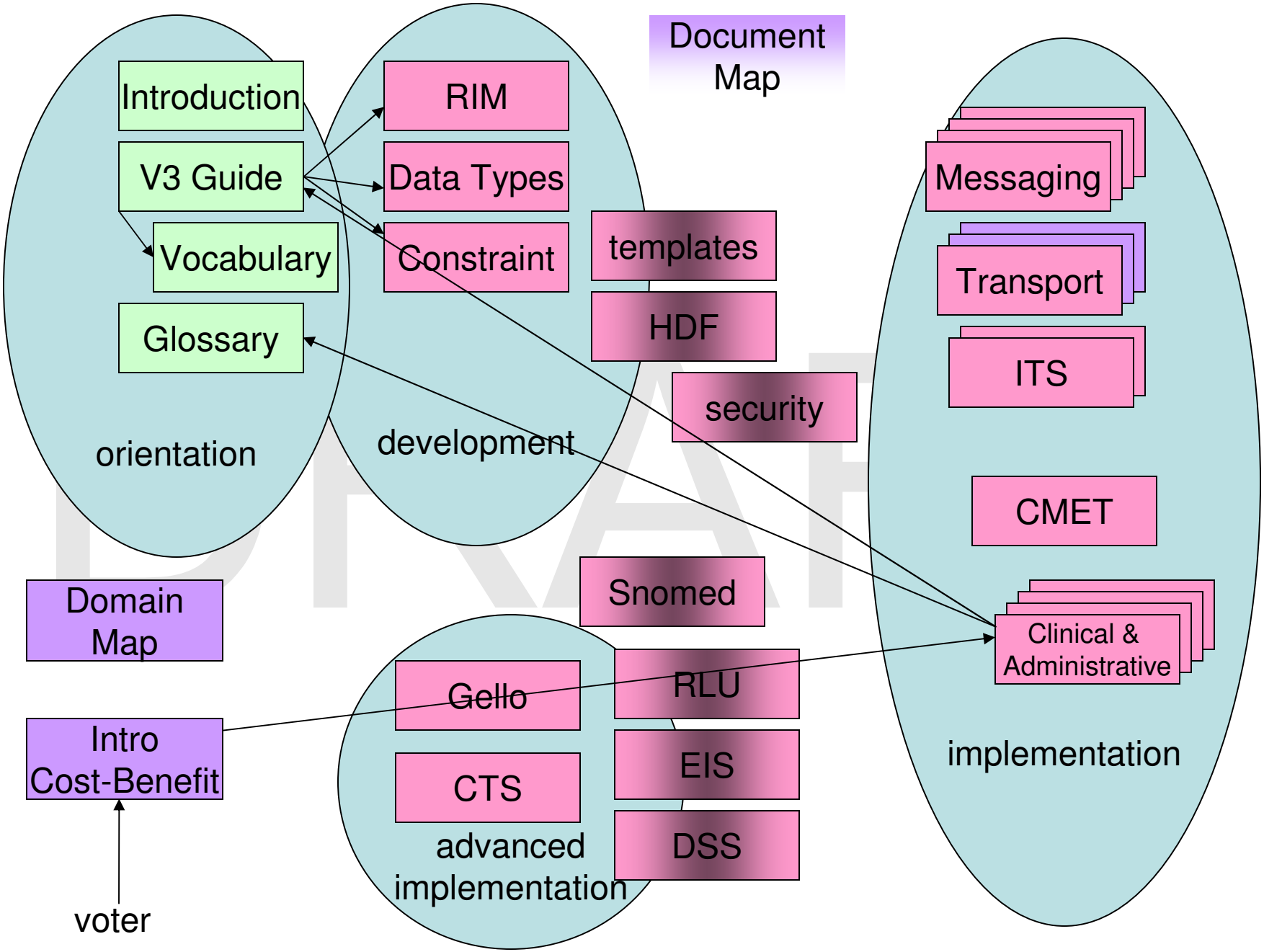
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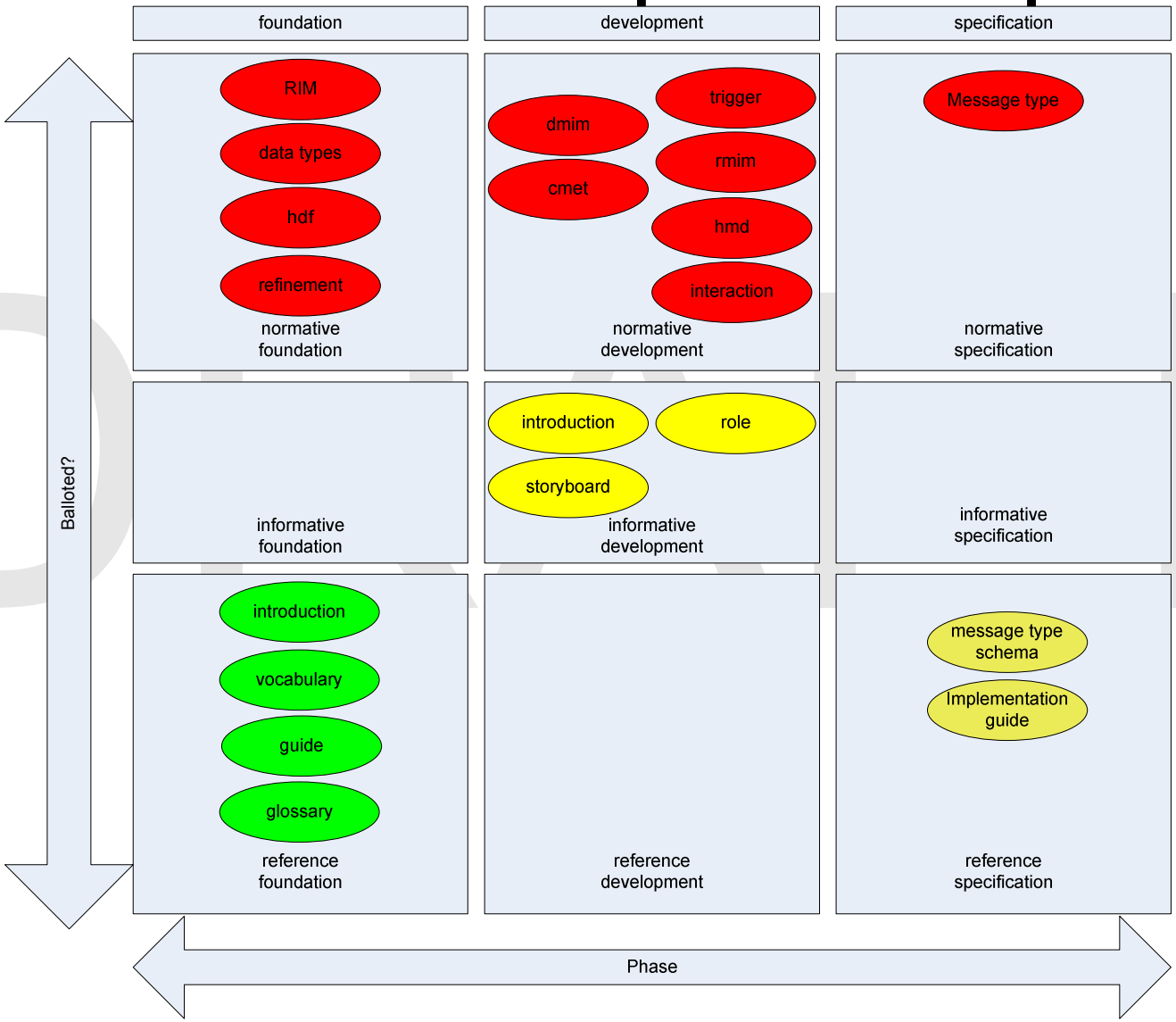
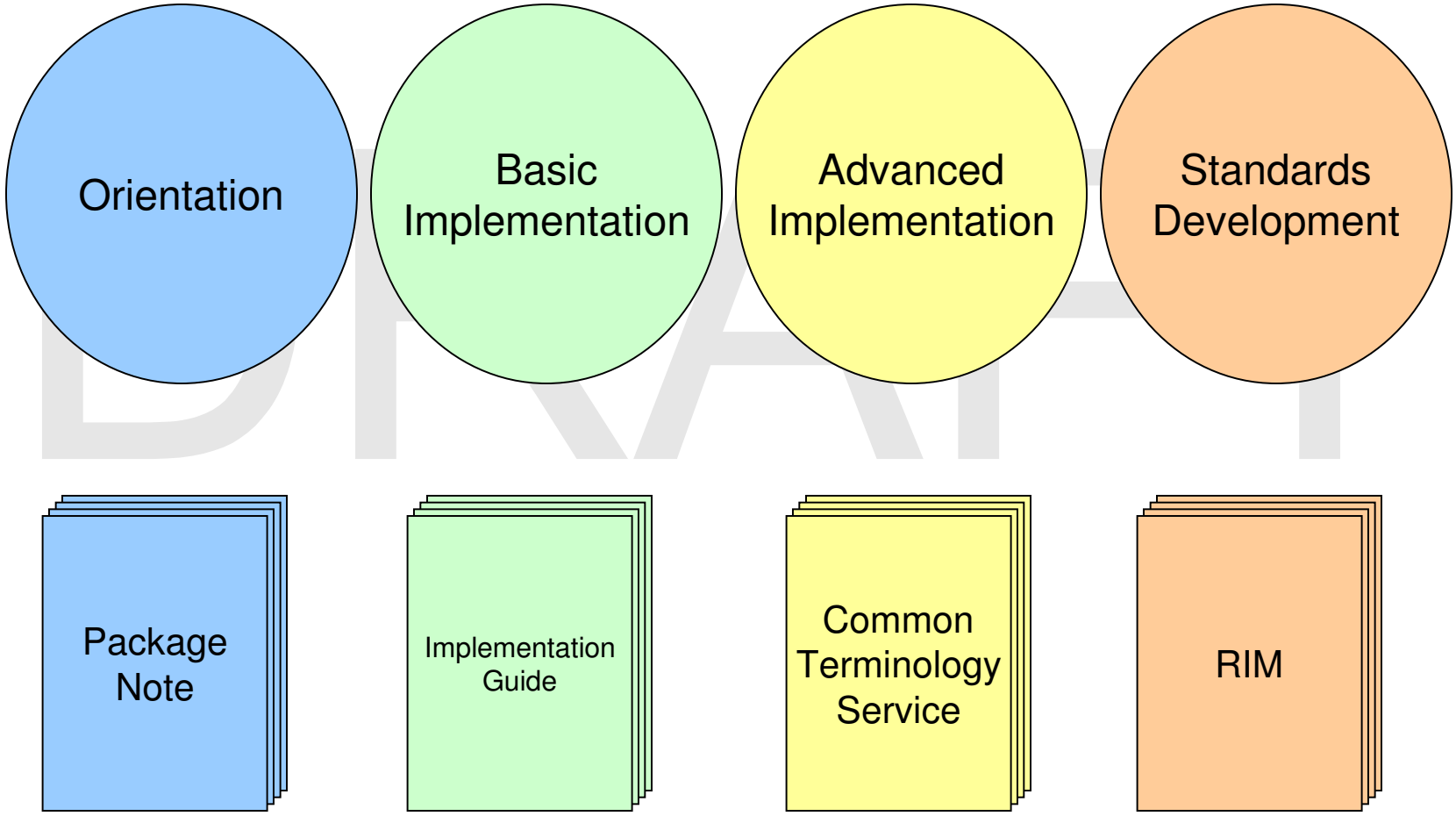
advanced implementation
voter

Document Map Concept 2



Document Map Concept 3



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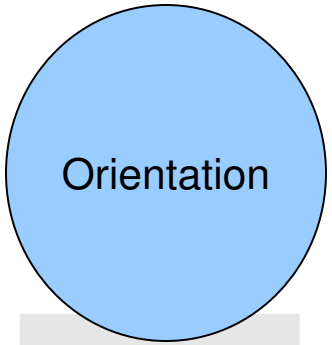
Orientation Documents



- V3 Cost-Benefit
  - Not yet written
  - A business view for evaluators
- Document Map
  - This presentation is a draft of the document map
  - How to navigate, per user type or objective
  - May evolve in tandem with a physical information architecture (site map)
- Domain Map
  - Not yet written
  - Semantic touch points, overlaps, and gaps
- Introduction
  - Orientation for the reader of a specific ballot package or normative edition, a.k.a. “Package note to readers”
- Glossary

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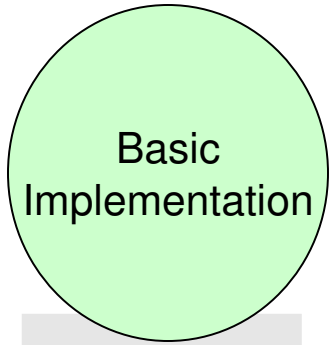
Basic Implementation Documents



- Implementation Guide
  - Some exist, some do not
- Domain specification
  - Schema
  - [domain introduction document?]
- Implementation Technology Specification
- Messaging
- Transport
- Security

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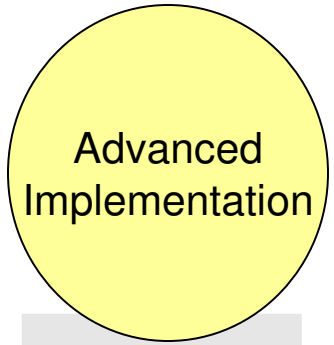
Advanced Implementation Documents



- Common Terminology Services
- GELLO
- SNOMED
- RLU
- EIS
- DSS
- CDA

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Standards Development Documents

- HDF
- Artifact Guide
  - Previously “V3 Guide.”
  - Draft in progress to move specific information to documents for specific artifacts or to HDF
- RIM
- Vocabulary
- Data Types
- Constraints
- CMET
- Templates

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