



ISTITUTO DI SCIENZA E TECNOLOGIE
DELL'INFORMAZIONE "A. FAEDO"

Research and Education in Digital Libraries

Defining the model

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The Digital Library Universe

3 Types of systems

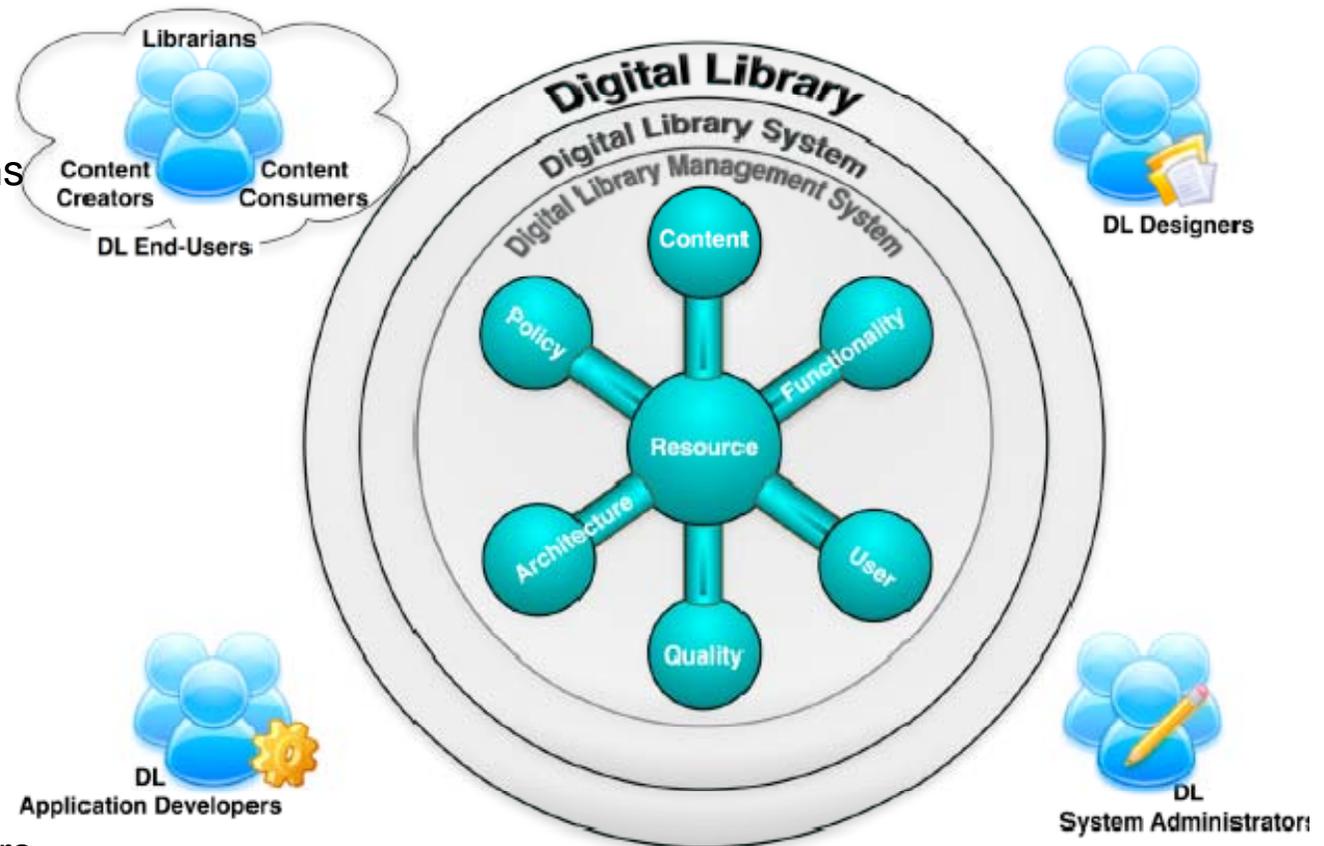
- DL
- DL System
- DL Management Systems

6 Domains + 1

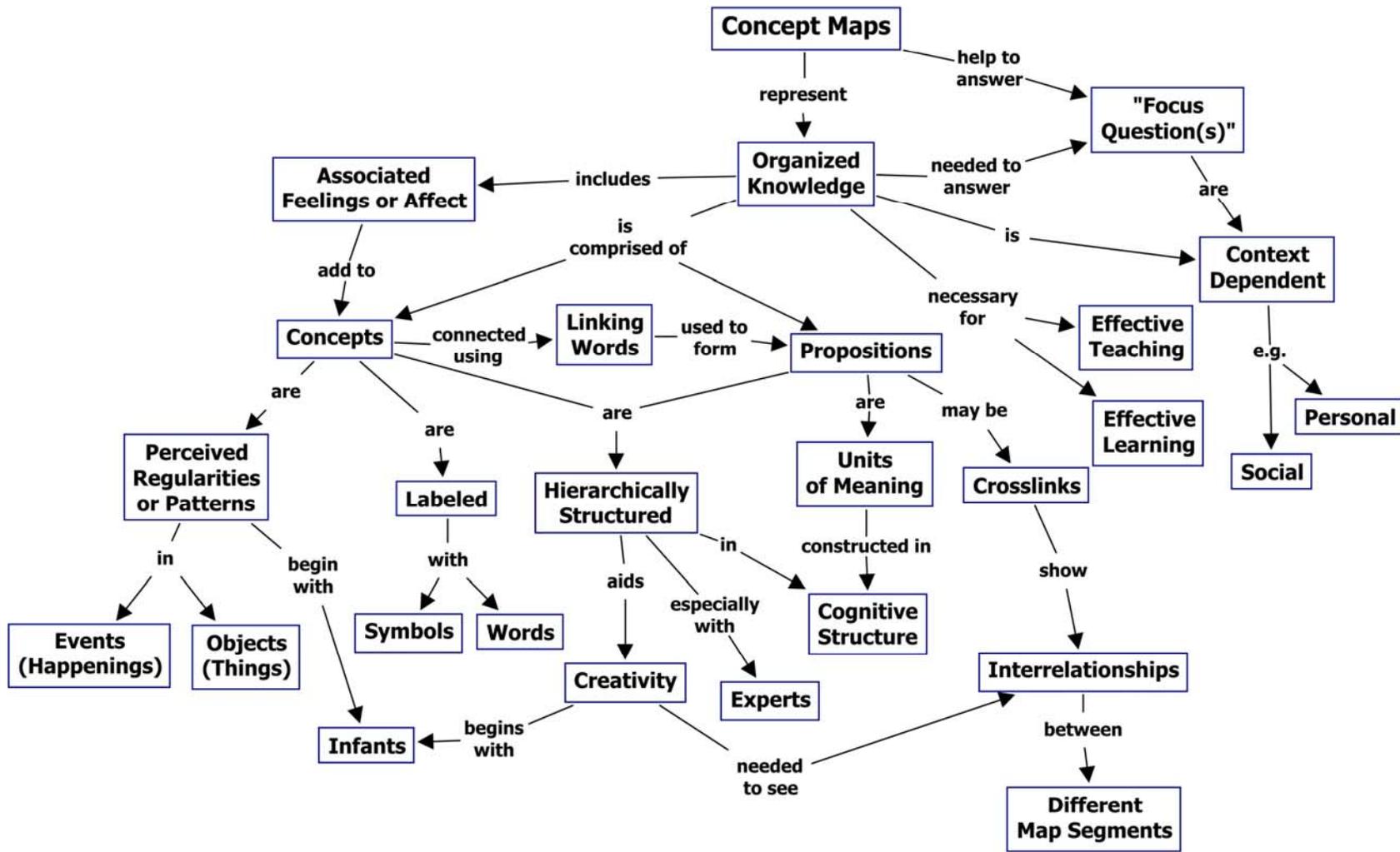
- Content
- User
- Functionality
- Policy
- Quality
- Architecture
- + Resource

4 Roles of Actors

- DL end-Users
- DL Application Developers
- DL Designers
- DL Systems Administrators

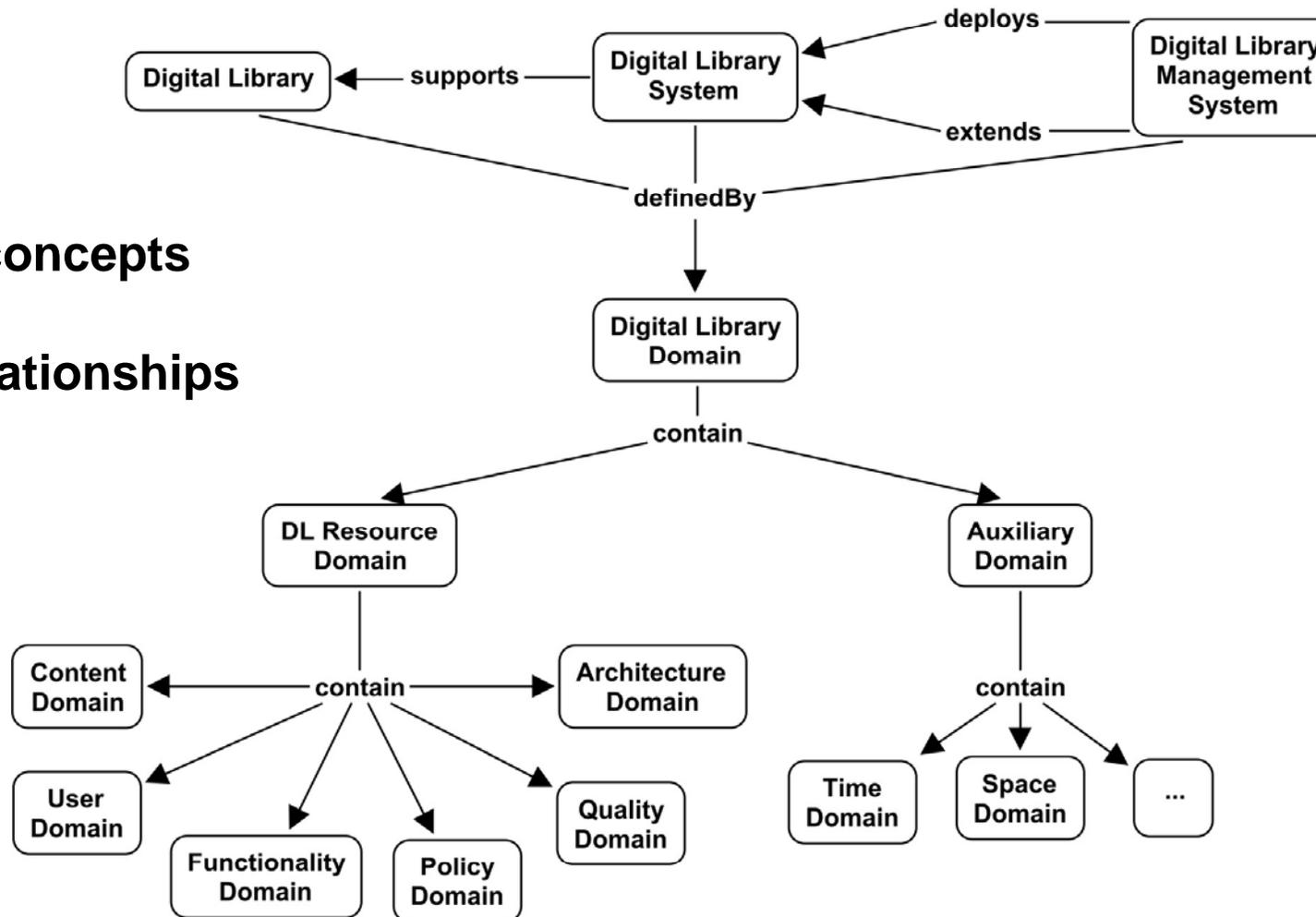


Concept Maps

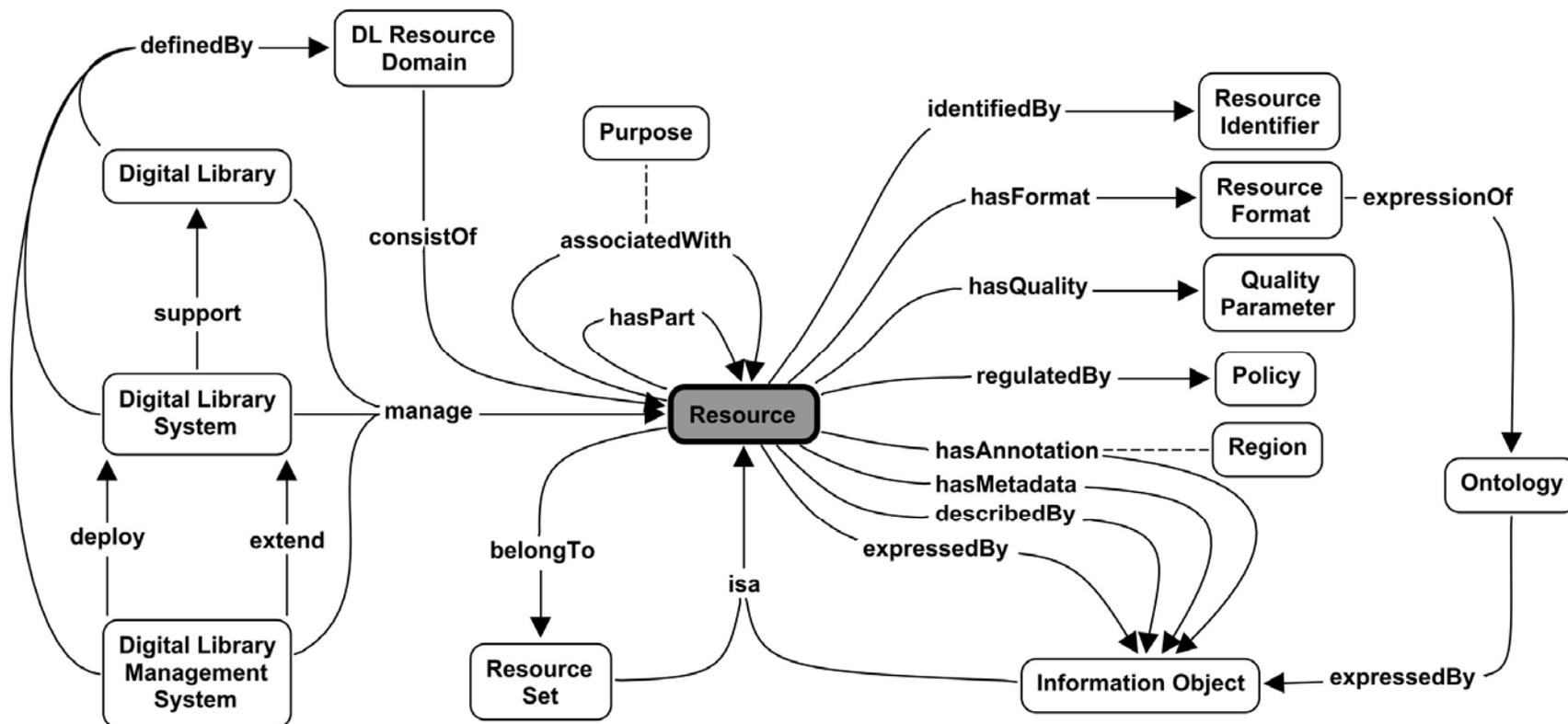


218 concepts

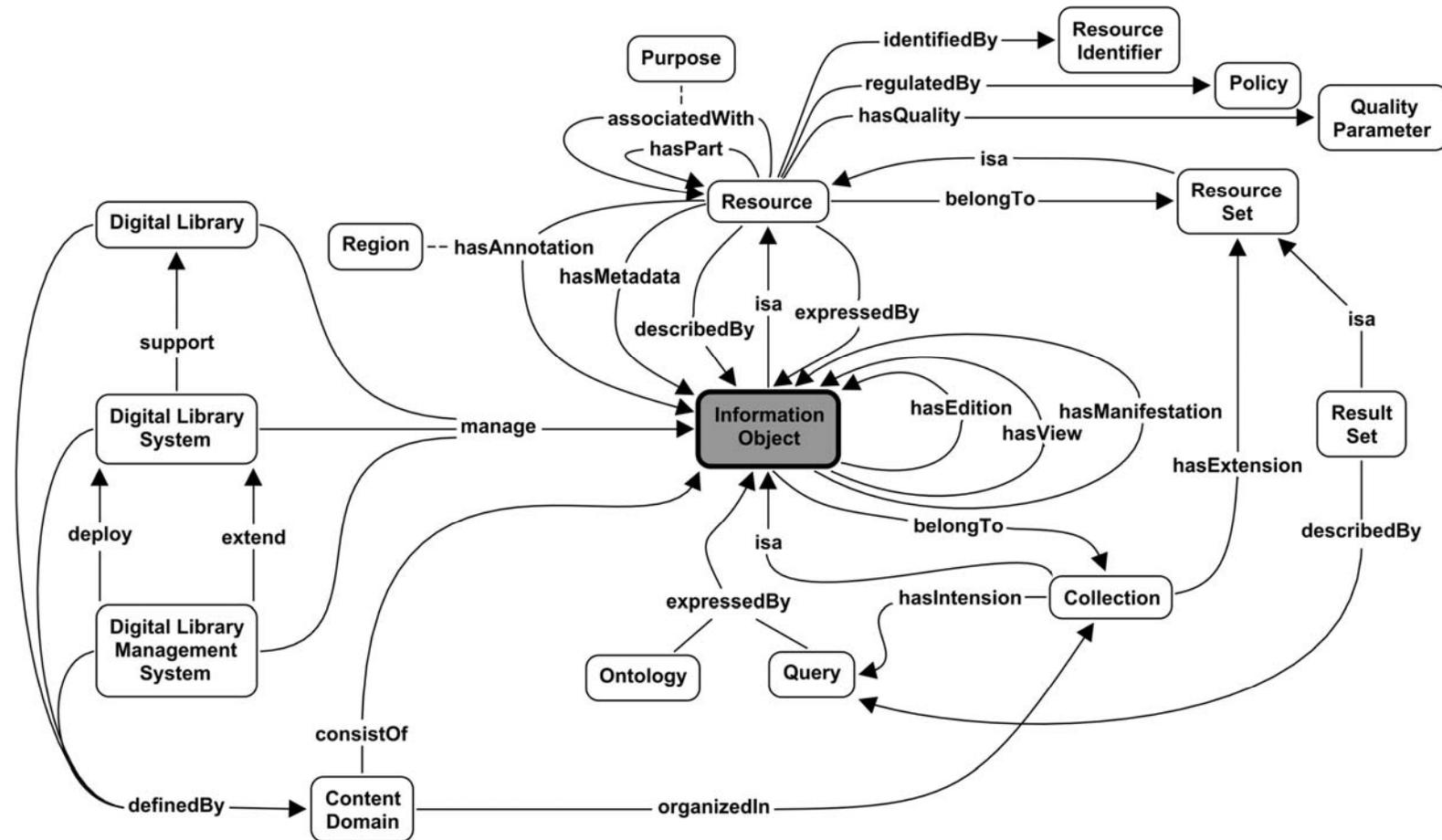
52 relationships



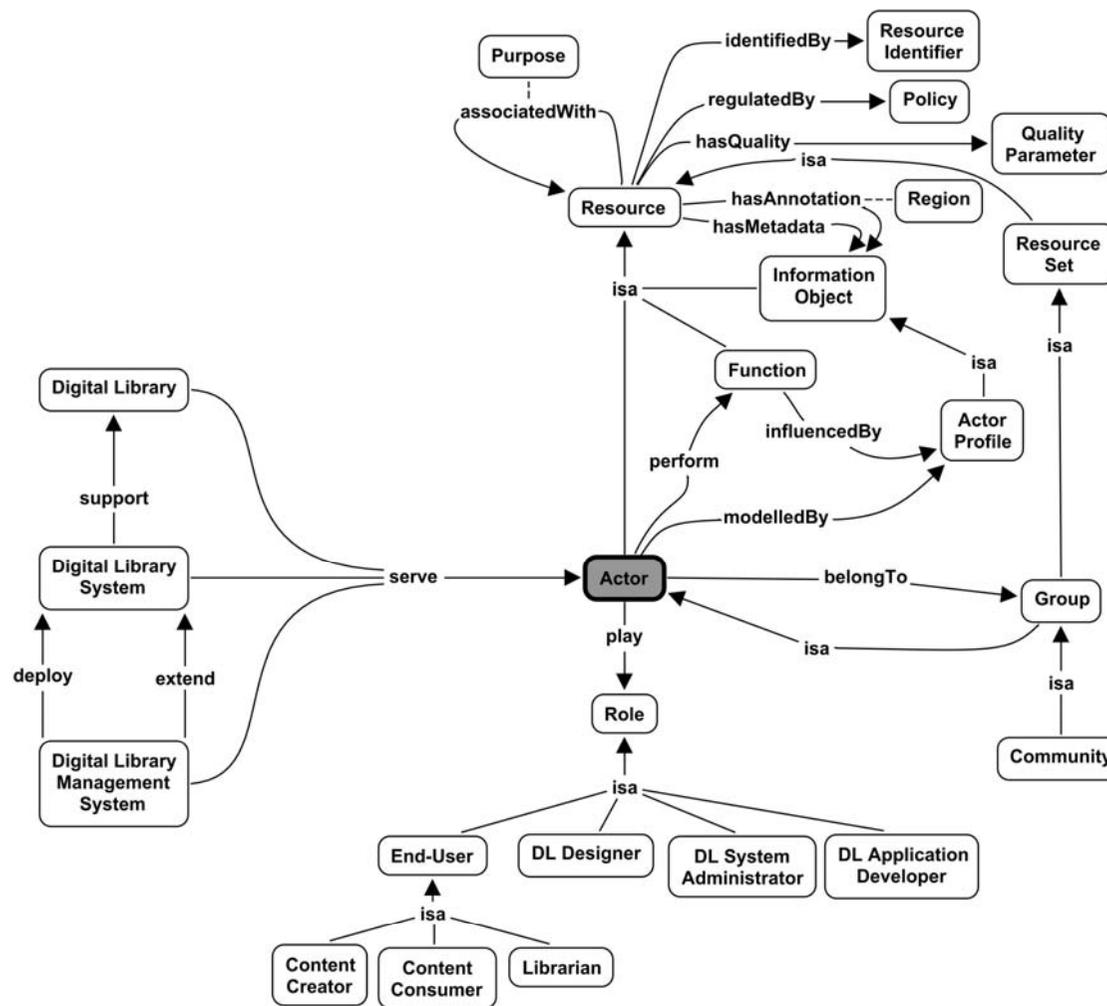
The Resource Domain

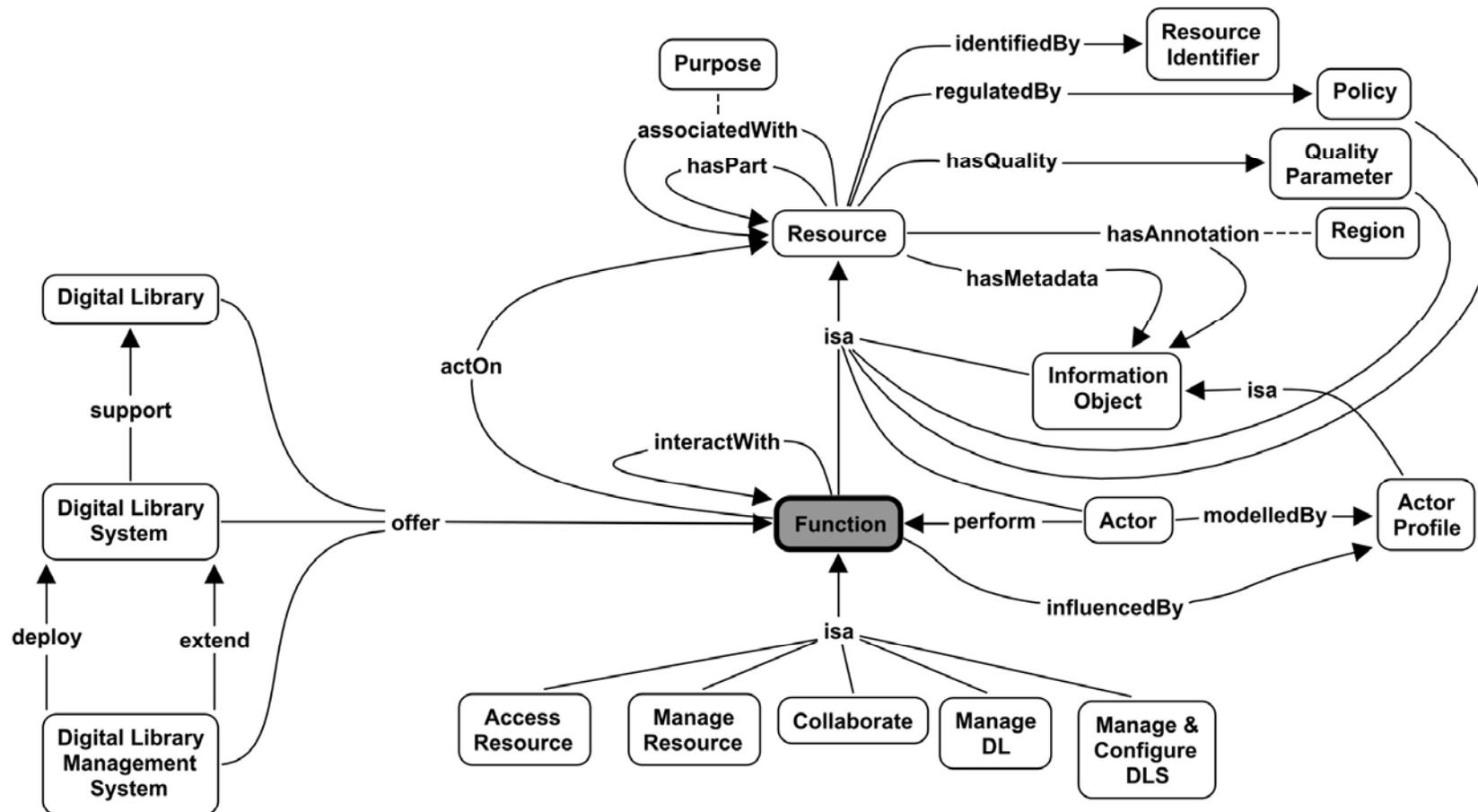


The Content Domain



The User Domain





Main functions

C32 Access Resource

C33 Discover

C34 Browse

C35 Search

C36 Acquire

C37 Visualize

C38 Manage Resource

C39 Create

C40 Submit

C41 Withdraw

C42 Update

C43 Validate

C44 Annotate

C45 Manage Inform Object

C64 Manage Actor

C71 Manage Function

C72 Manage Policy

C73 Manage Quality Parameter

C74 Collaborate

C75 Exchange Information

C76 Converse

C77 Find Collaborator

C78 Author Collaboratively

C79 Manage DL

C80 Manage Content

C85 Manage User

C90 Manage Functionality

C92 Manage Quality

C93 Manage Policy Domain

C94 Manage & Configure DLS

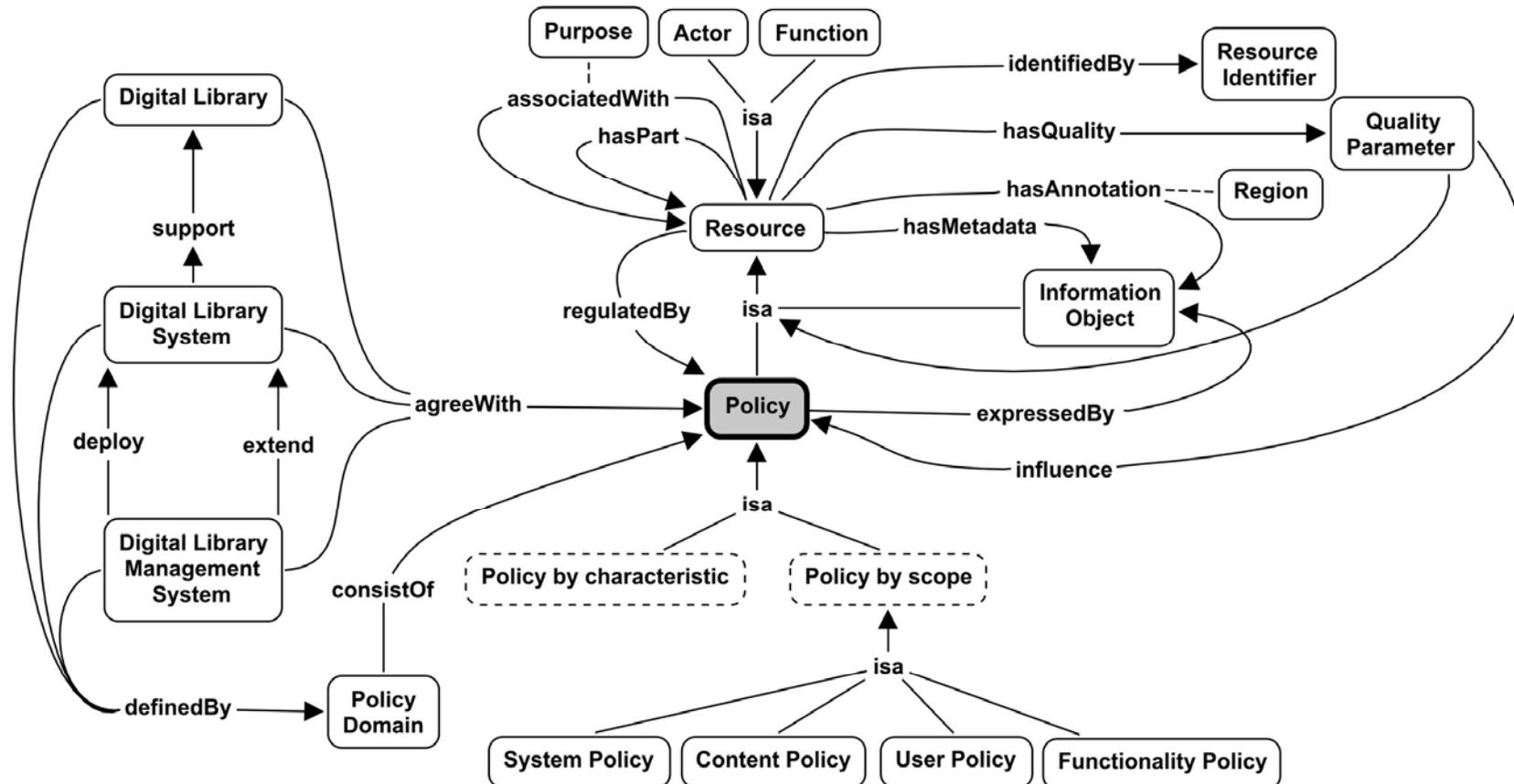
C95 Manage DLS

C104 Configure DLS

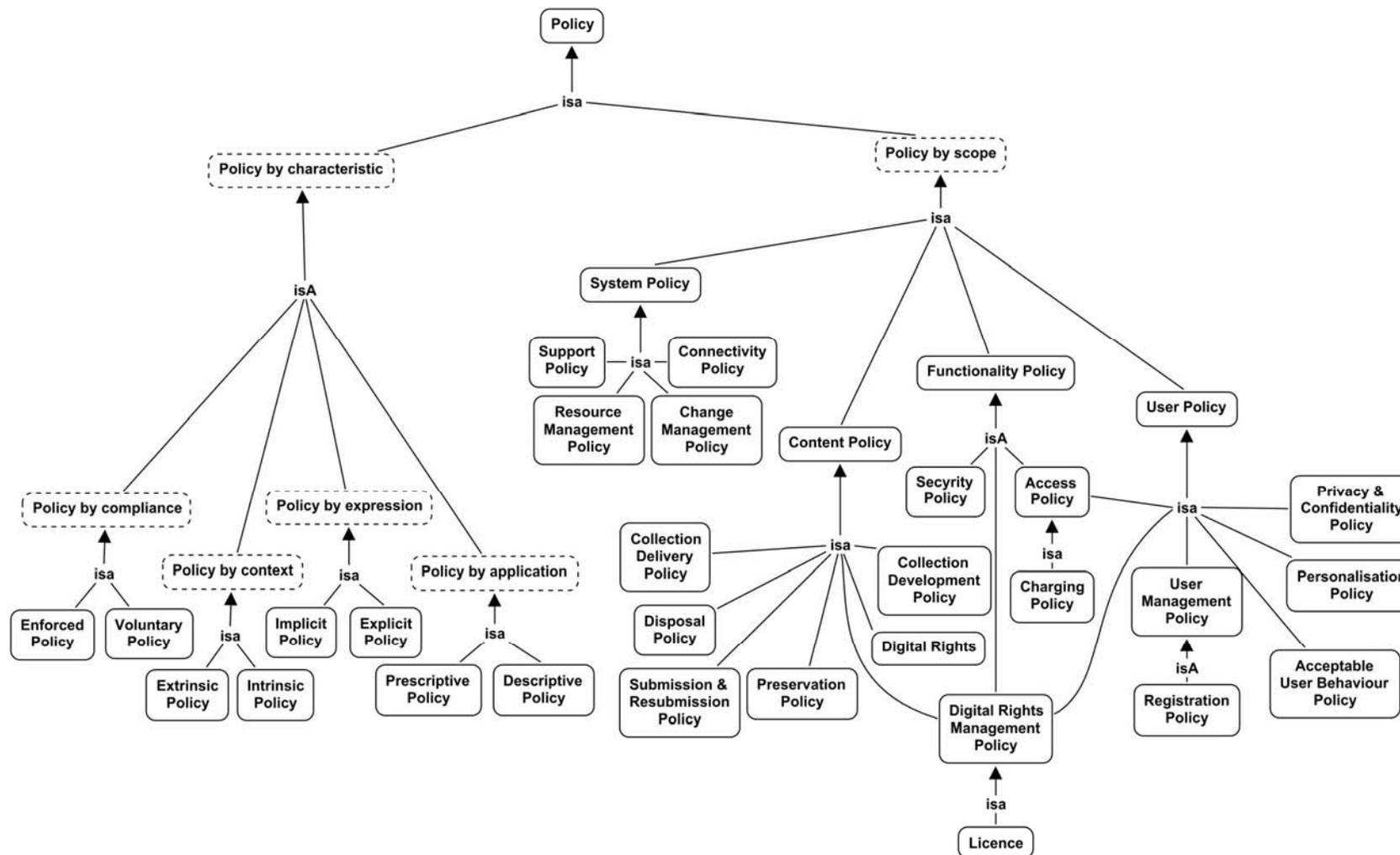
Manage Information Object

- C46 Disseminate
 - C47 Publish
- C48 Author
 - C49 Compose
- C50 Process
 - C51 Analyze
 - C52 Linguistic Analysis
 - C53 Qualitative Analysis
 - C54 Examine Preservation State
 - C55 Statistical Analysis
 - C56 Scientific Analysis
 - C57 Create Structured Representation
 - C58 Compare
 - C59 Transform
 - C60 Physically Convert
 - C61 Translate
 - C62 Convert to a Different Format
 - C63 Extract

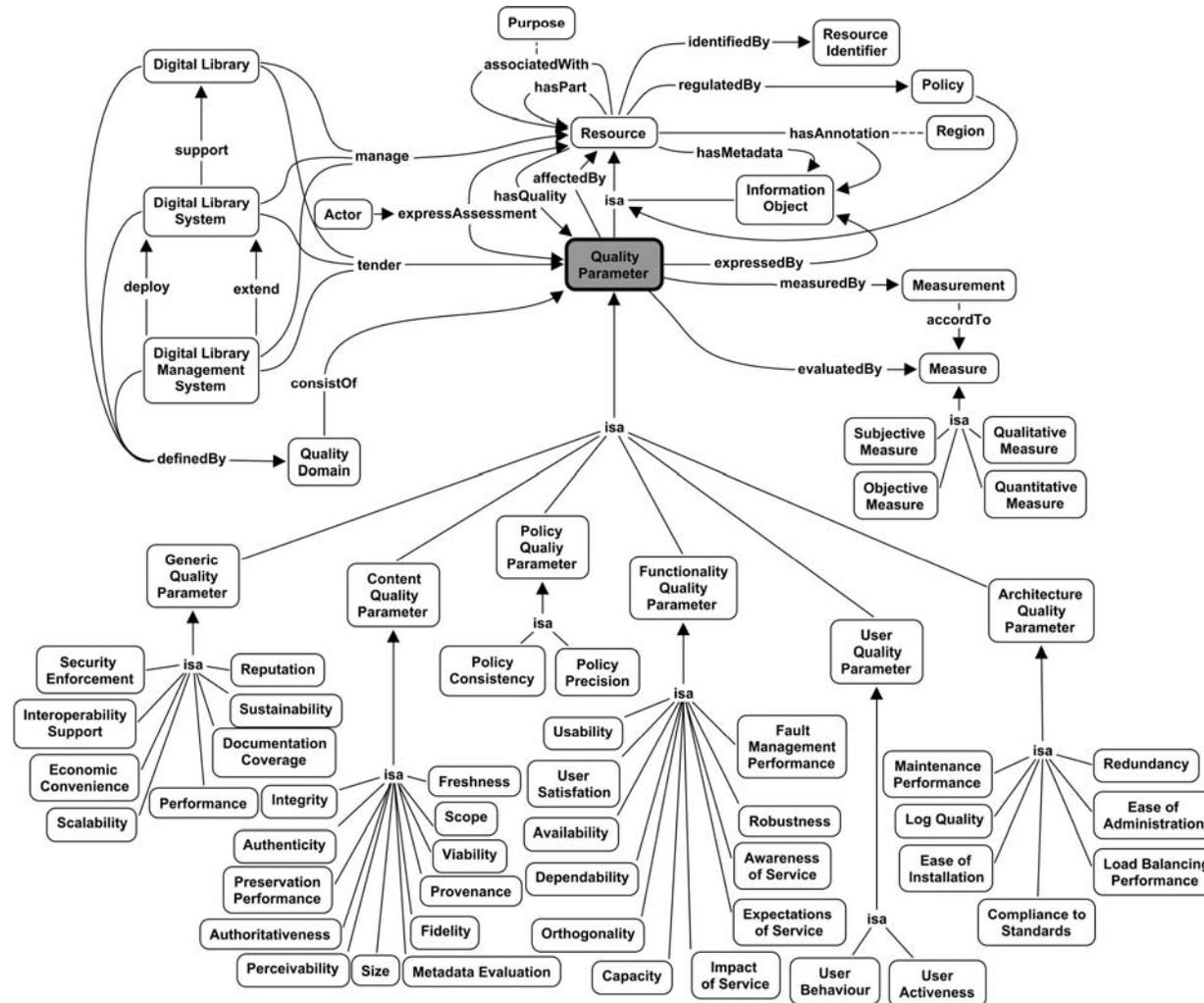
The Policy domain



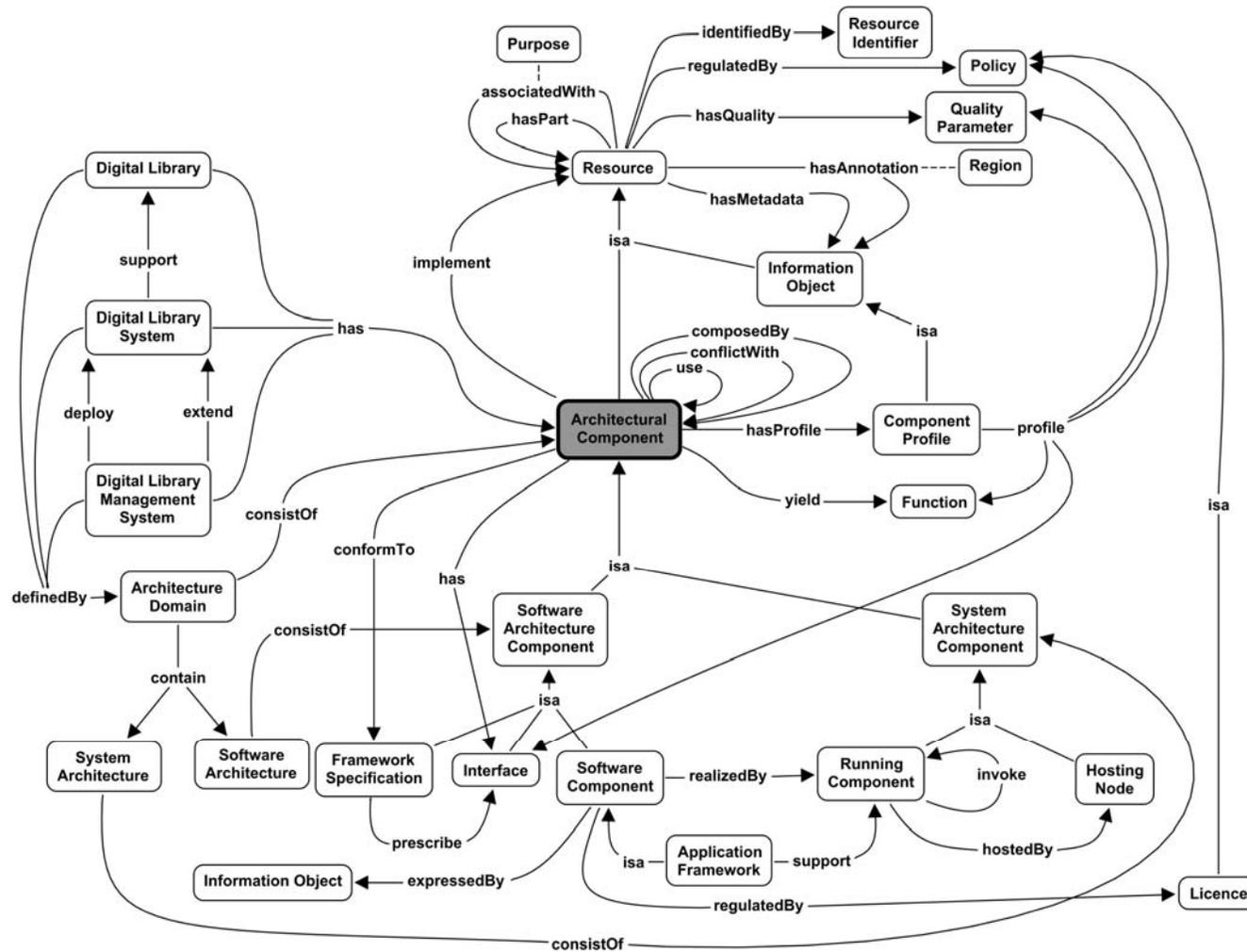
Categorization of Policies



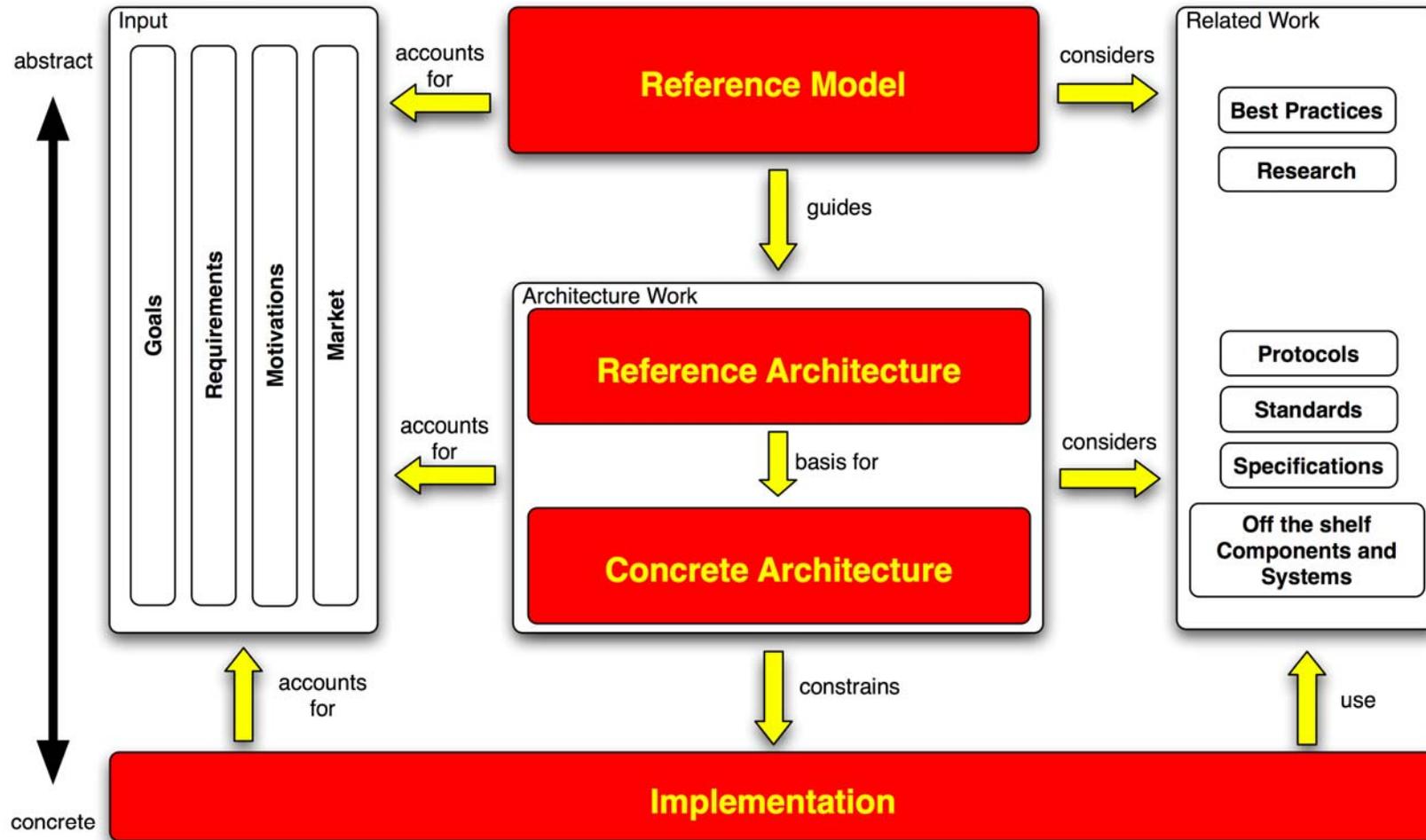
The Quality Domain



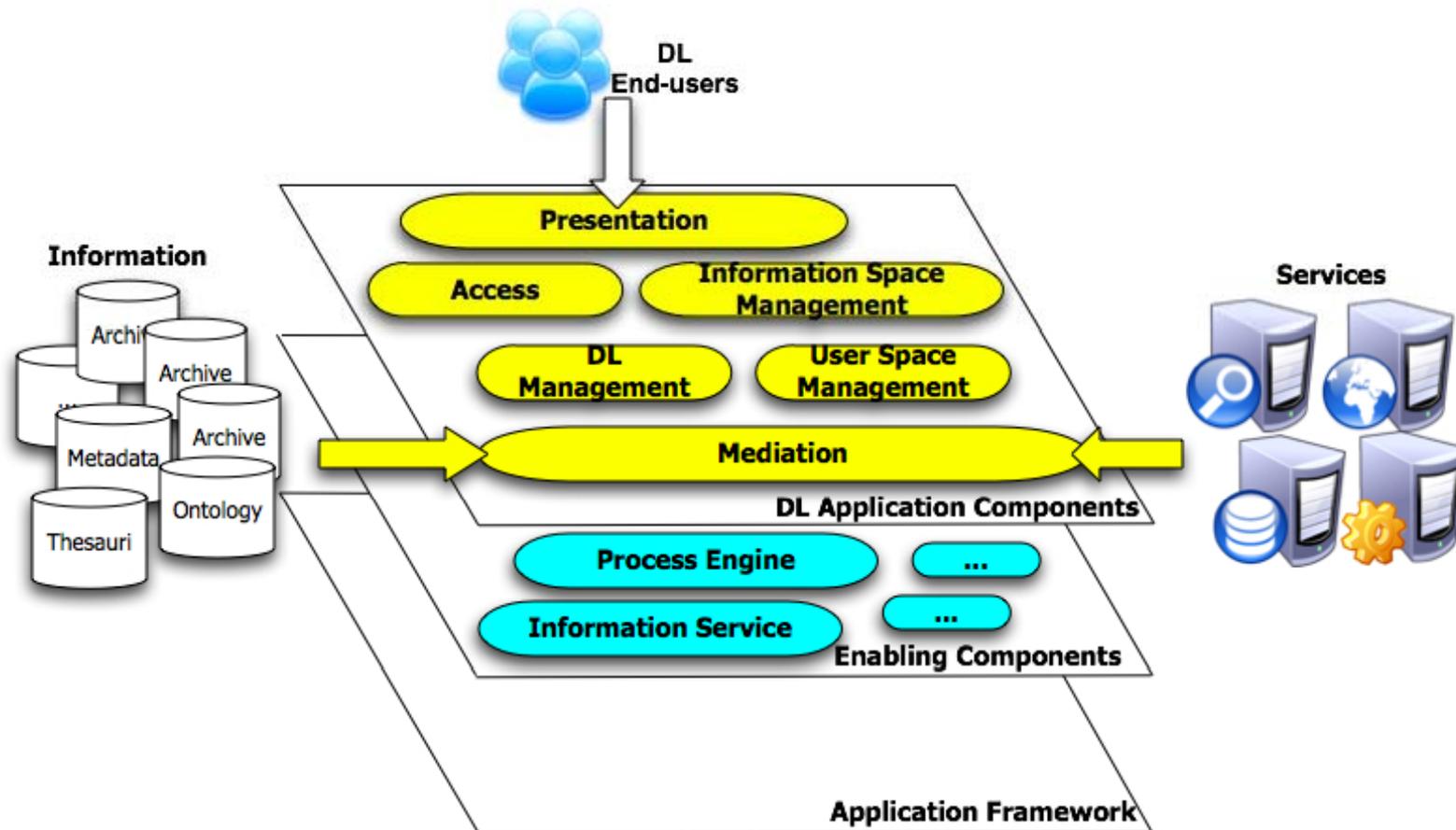
The Architecture Domain



The Digital Library Development Framework



DLS Reference architecture



DLS Concrete architecture

