

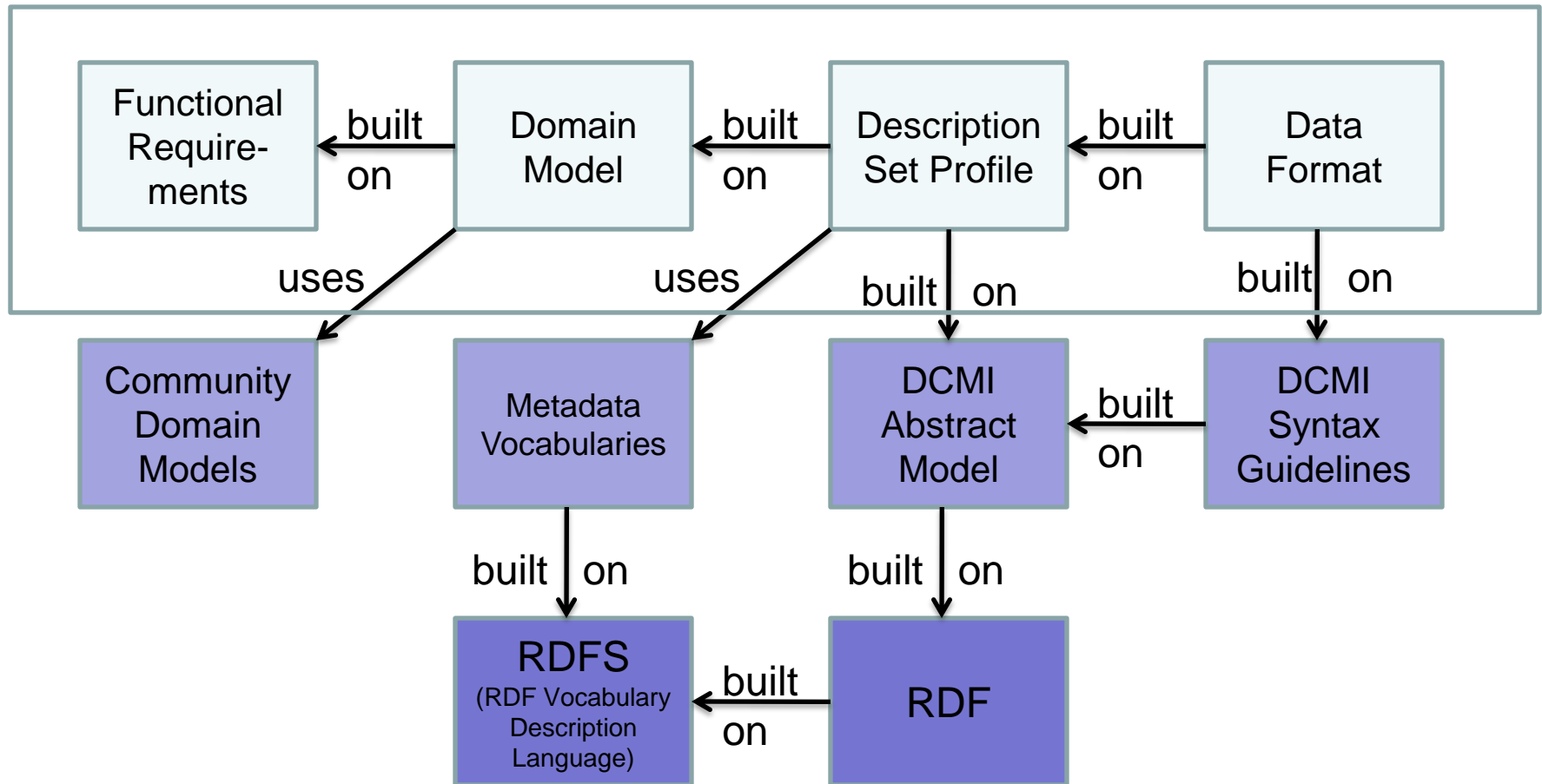


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# Designing Interoperable Metadata on Linked Data Principles



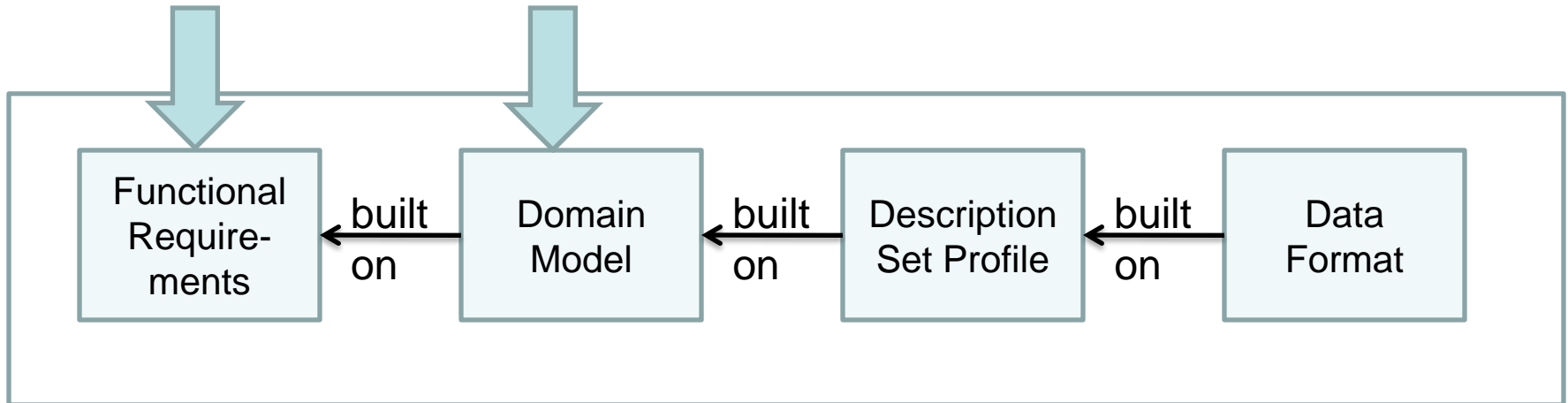
# “Application Profile” – something that takes an implementer...



Based on: <http://dublincore.org/documents/singapore-framework/>



## ...from Functional Requirements and a Domain Model



### What a metadata application must do

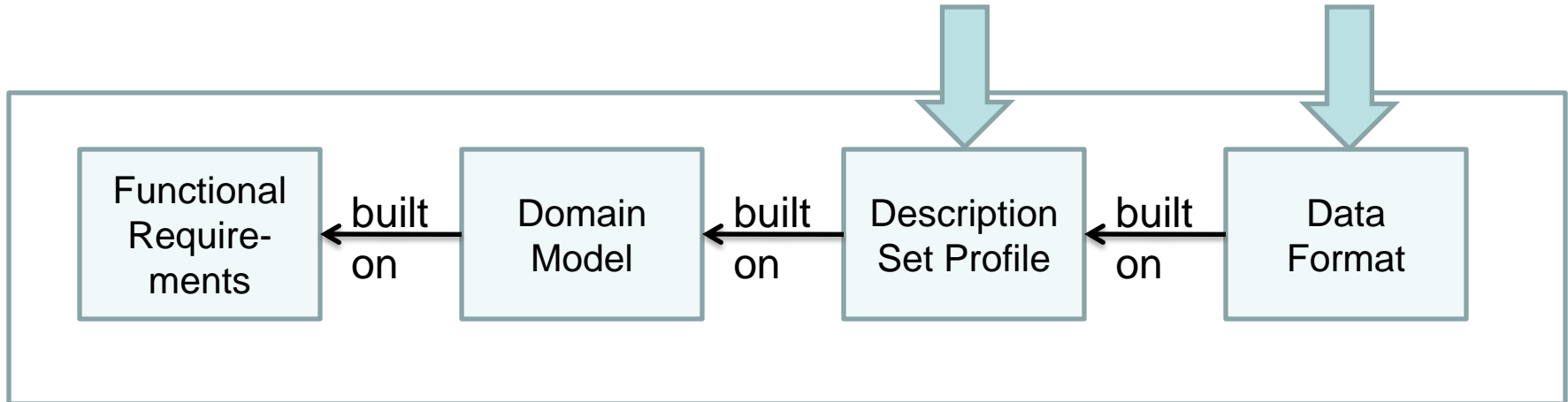
- “Support navigation between ‘versions’.”
- “Enable searching on the ‘owner’ of a collection.”

### What “things” are described in a metadata application

- Resources (generically)
- Authors and Books
- Scholarly Works, Expressions, Manifestations, Items, Agents
  - as in Functional Requirements for Bibliographic Records (FRBR)



## ...to a Description Set Profile and Data Format



### How things of the Domain Model are described

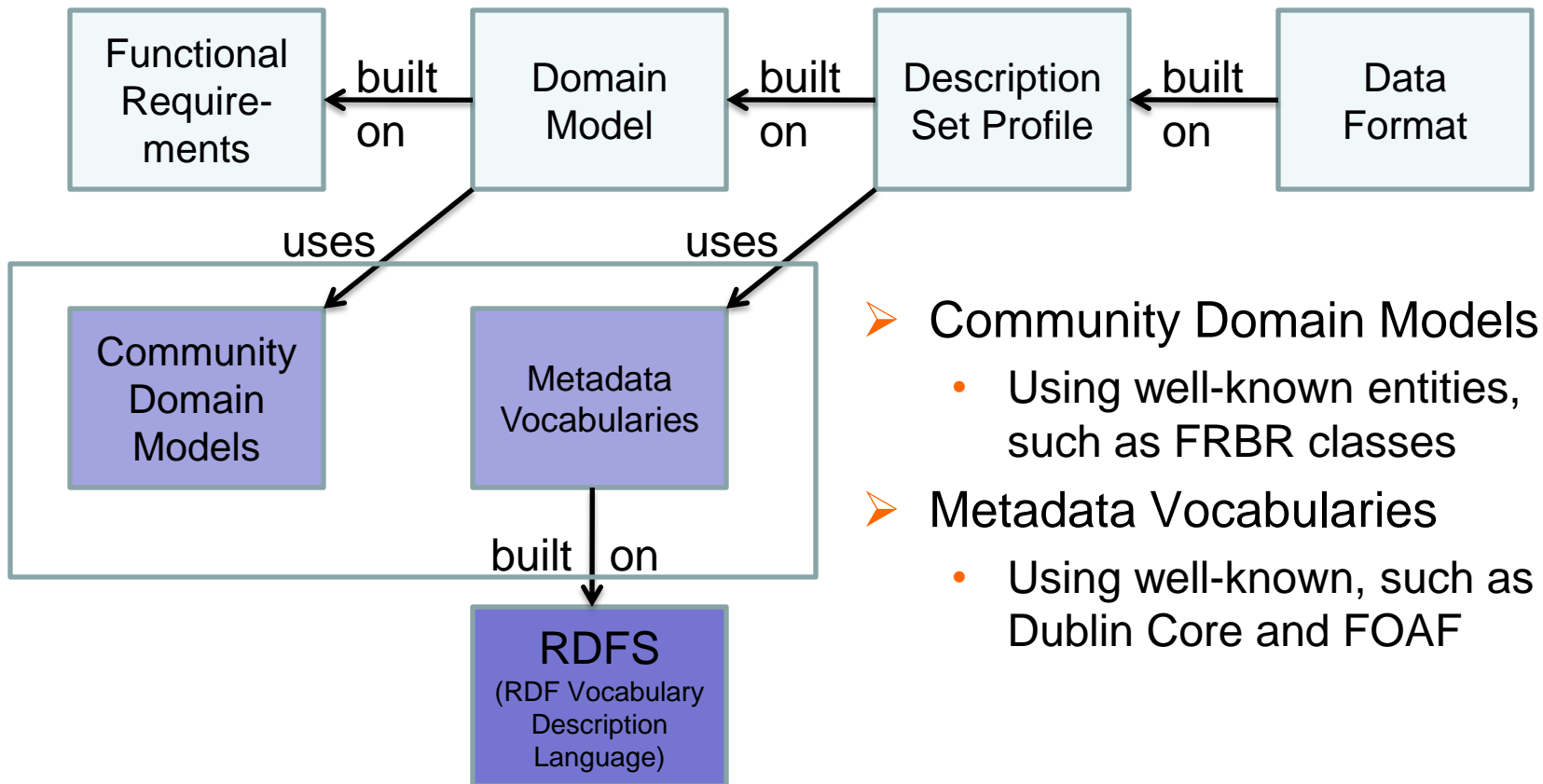
- Use of Properties and Classes.
- Their cardinality
- Whether mandatory or optional
- Lists of allowable values...

### Structure of the actual data format used by an application

- Components of the data structure.
- How the components map to Linked Data.



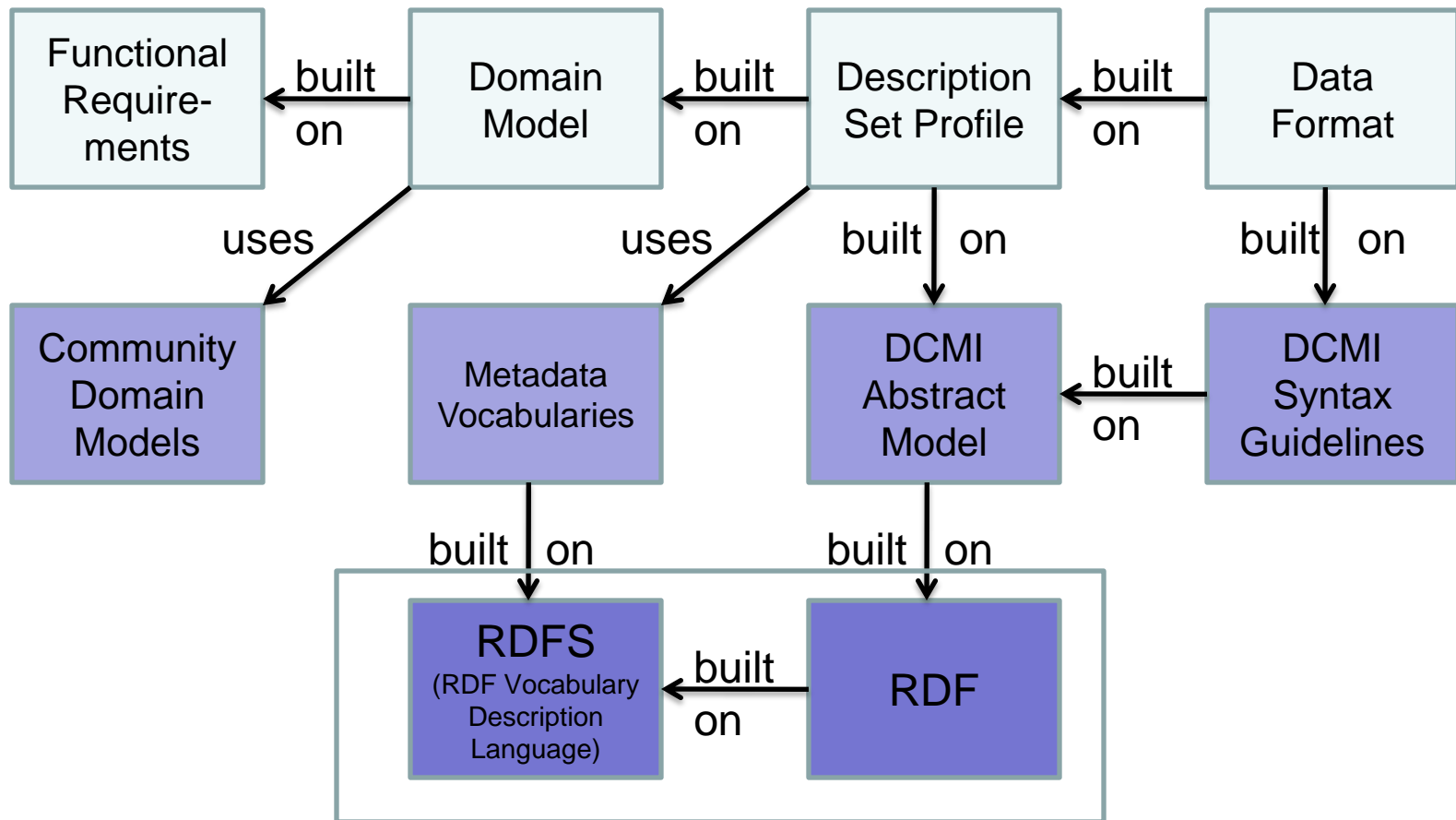
# ...on the basis of Community Standards, which in turn are grounded in...



- Community Domain Models
  - Using well-known entities, such as FRBR classes
- Metadata Vocabularies
  - Using well-known, such as Dublin Core and FOAF

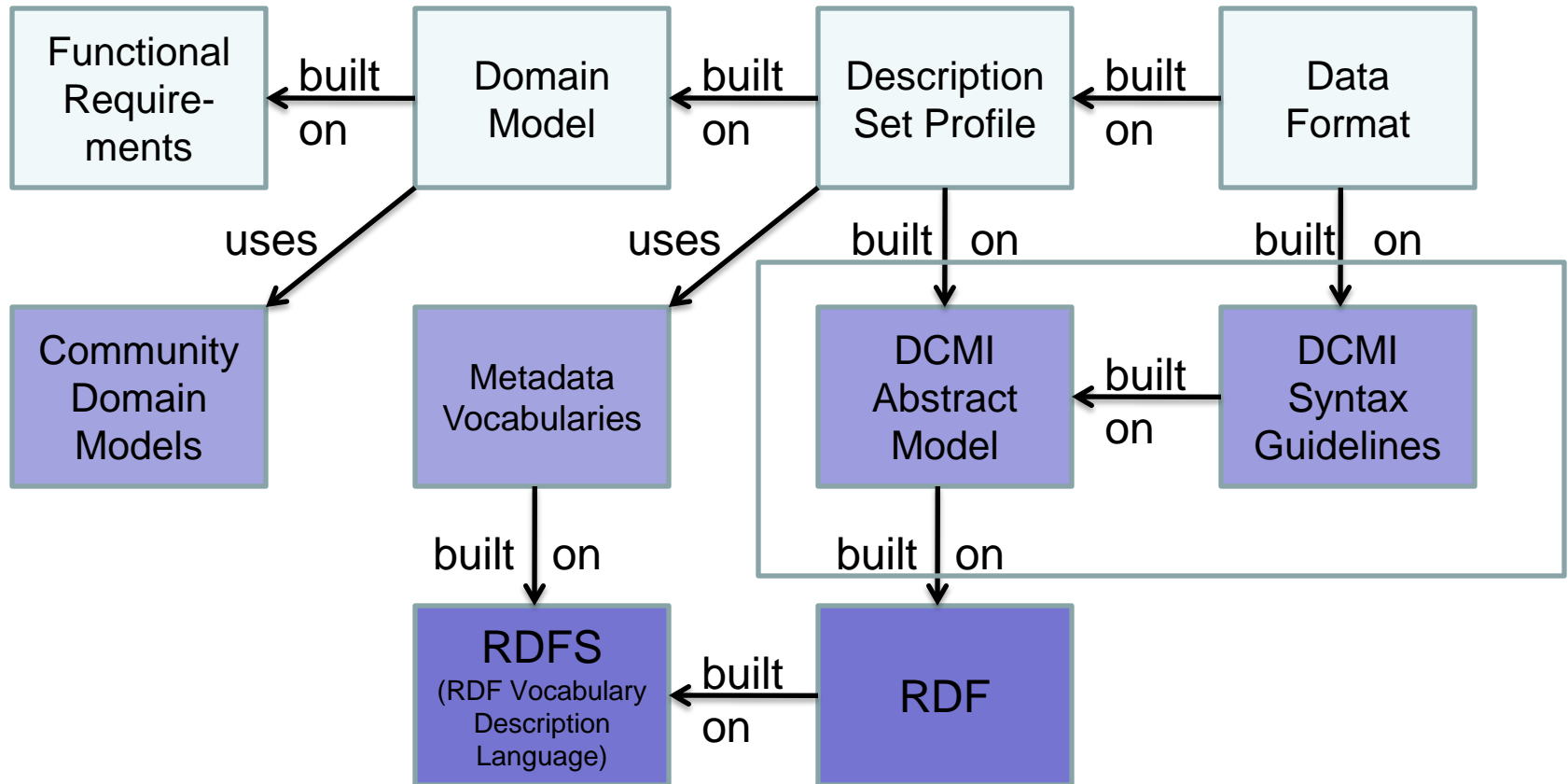


# ...in Foundation Standards for Linked Data (RDF).





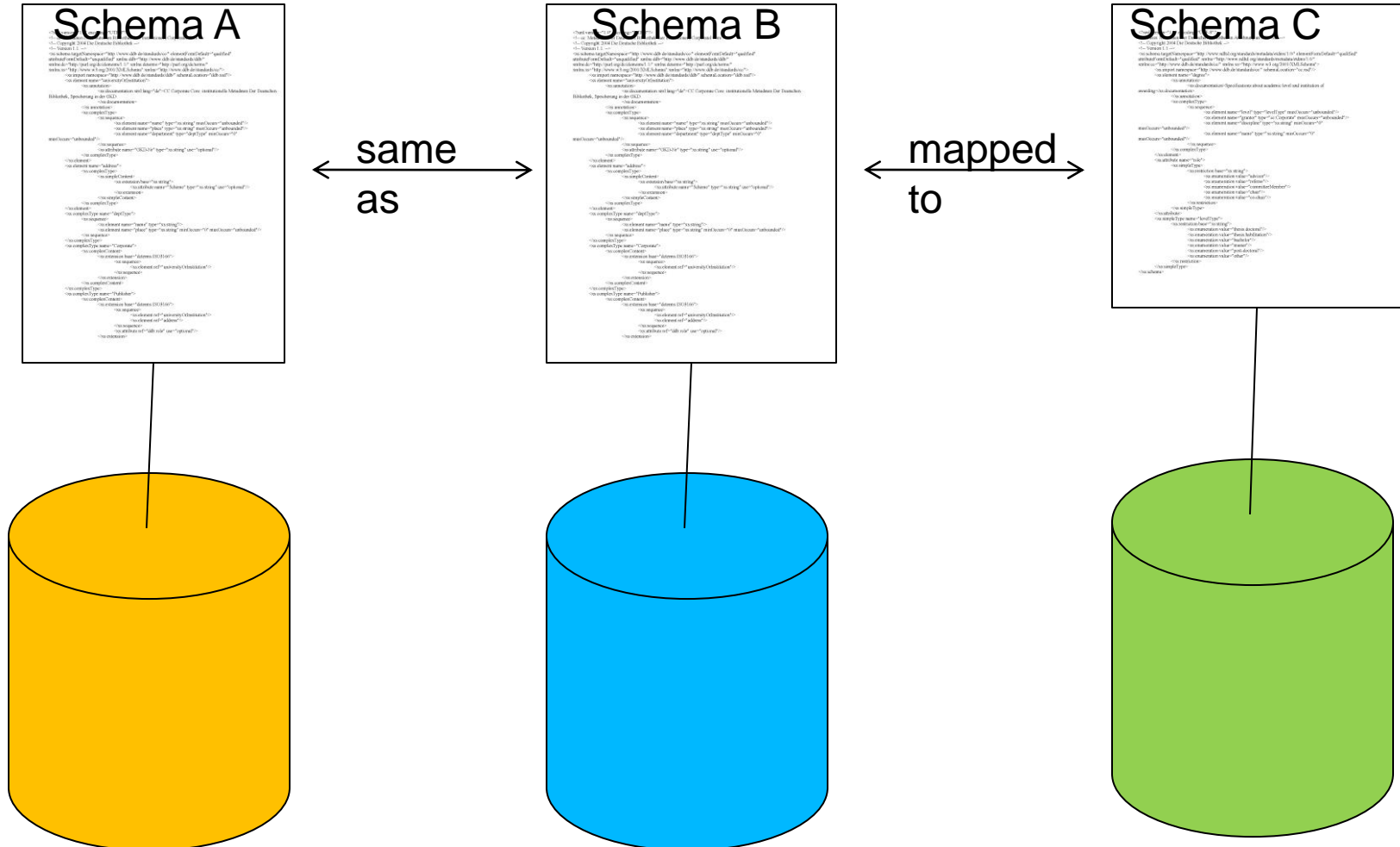
# DCMI guidelines, under review, offer one approach<sup>1</sup> to designing Linked-Data-compatible metadata records



<sup>1</sup> There is more than one way to do it. To be discussed at DC-2010 in Pittsburgh, October 2010, <http://dc-2010.org>.

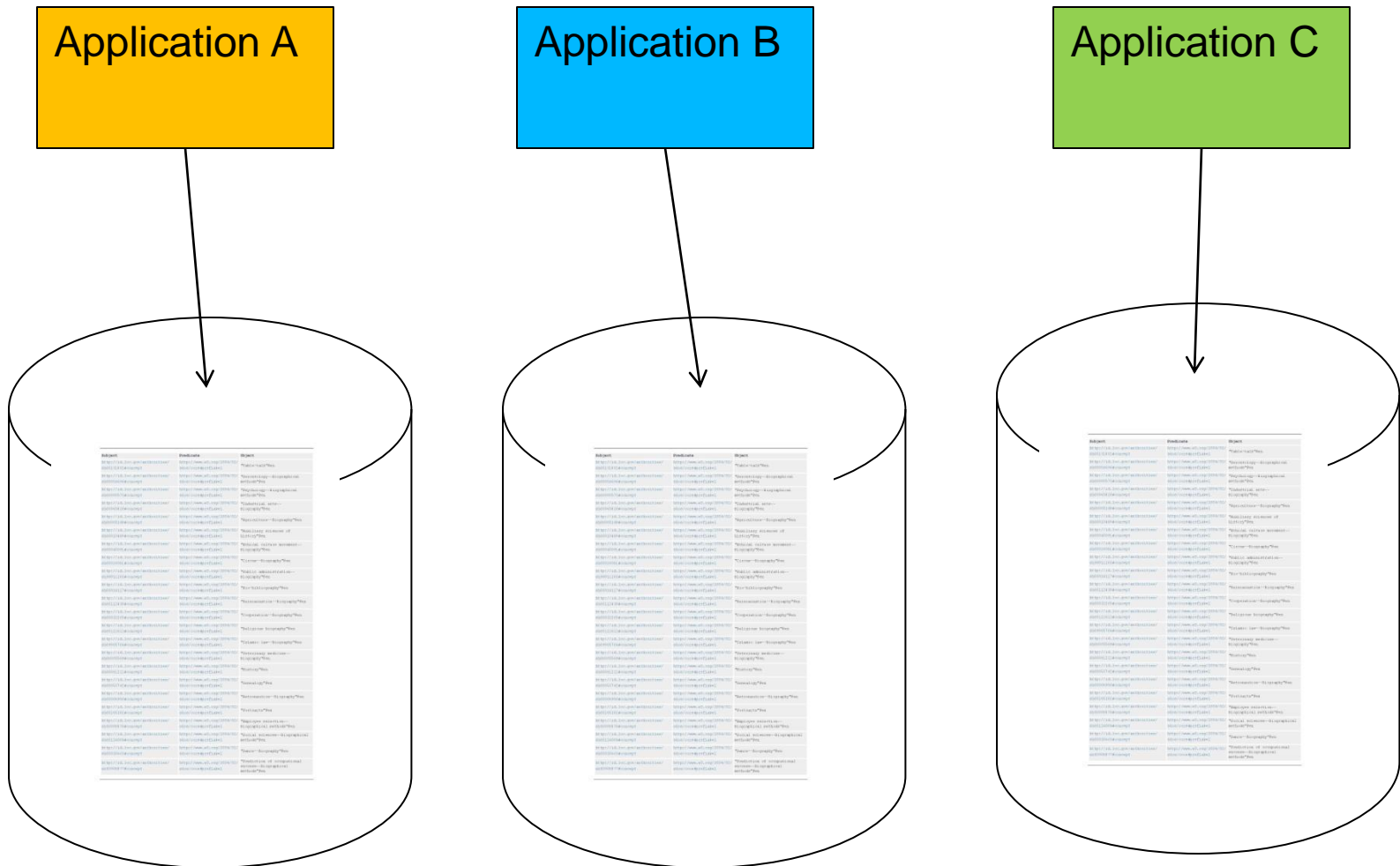


# “Closed” (“normal”) IT: Integrate across silos by mapping ad-hoc data structures



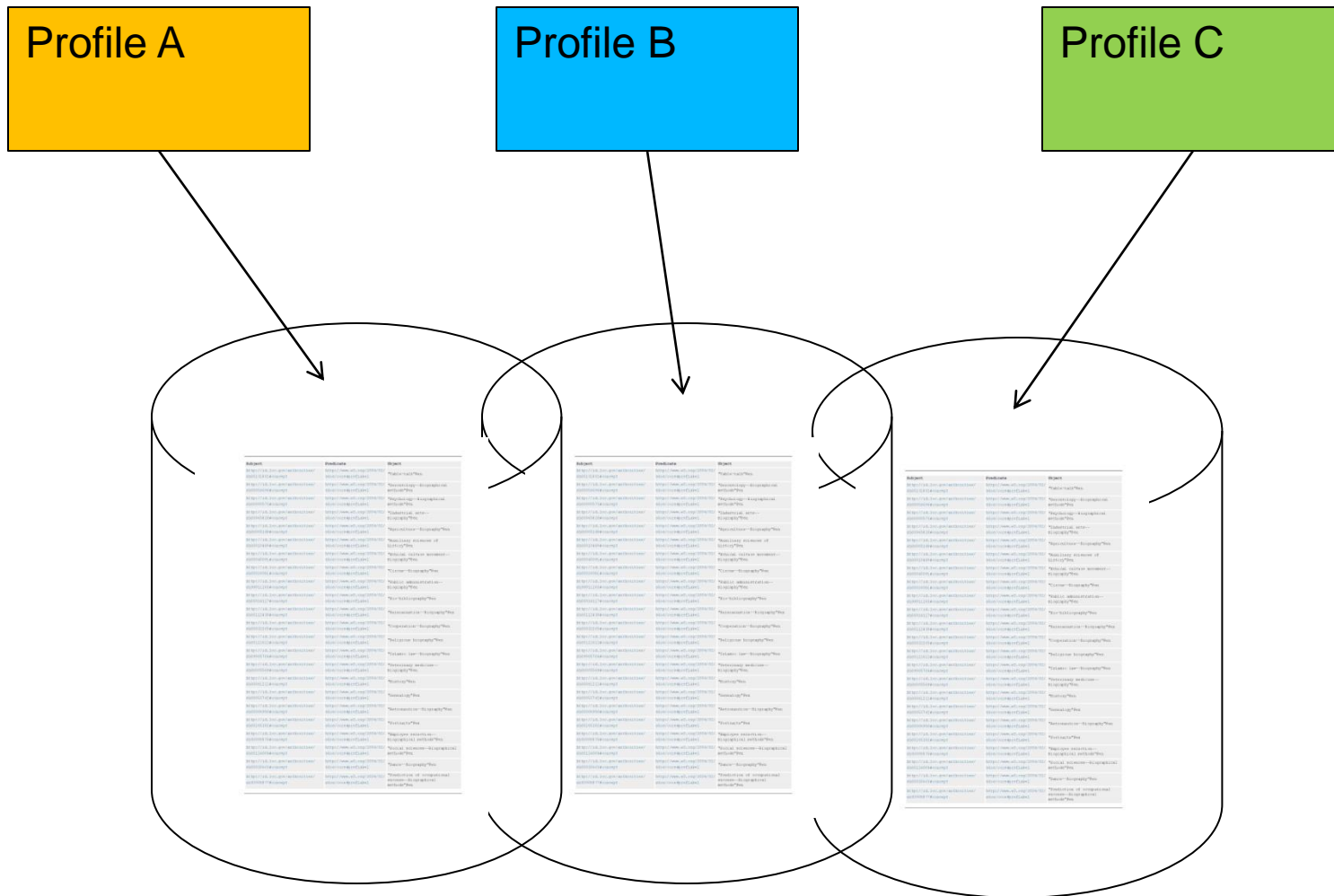


# New Linked Data approach: Diverse applications create good triples





# Good triples can be merged coherently





# Applications come and go...

