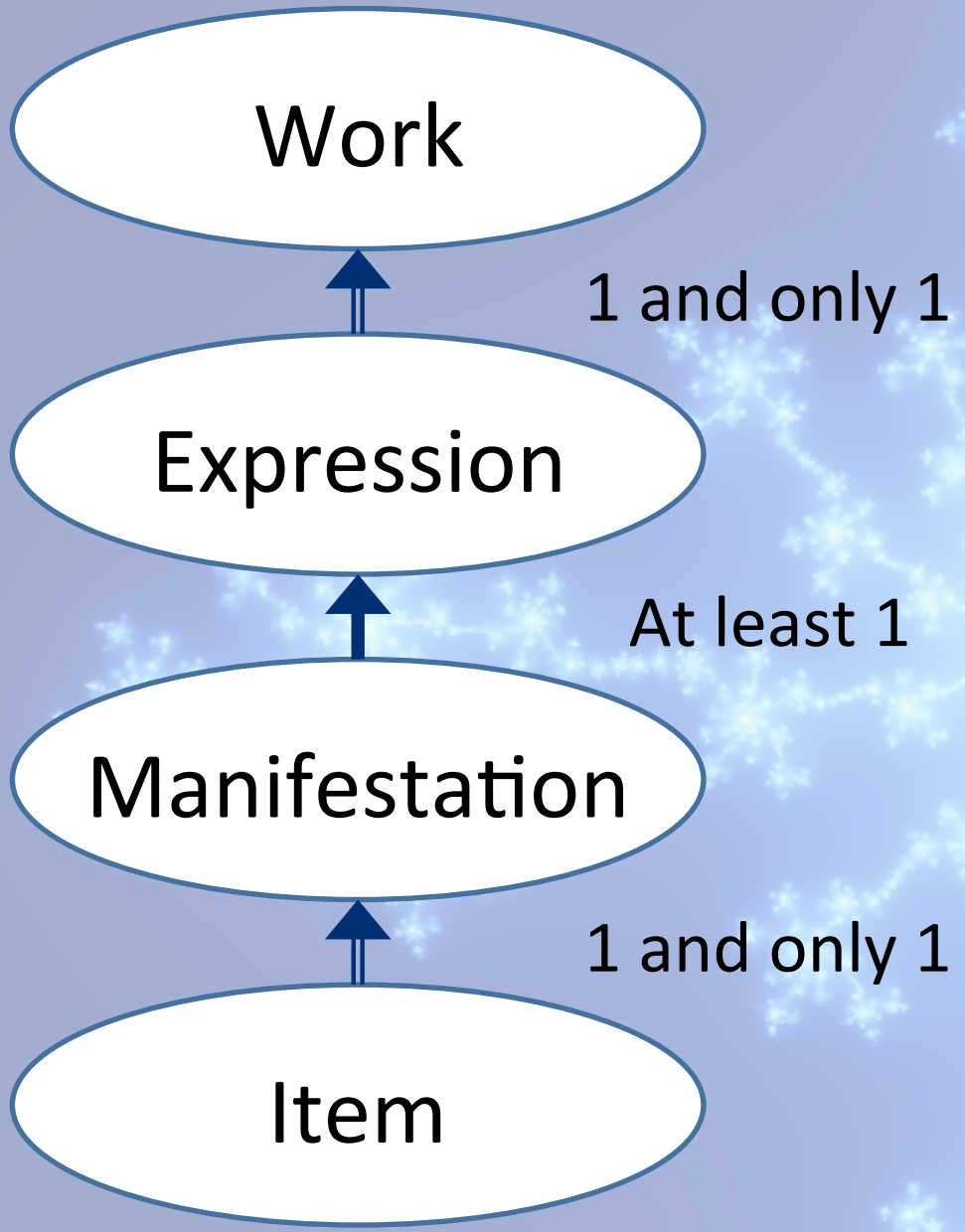
The FRBR ontology

Gordon Dunsire

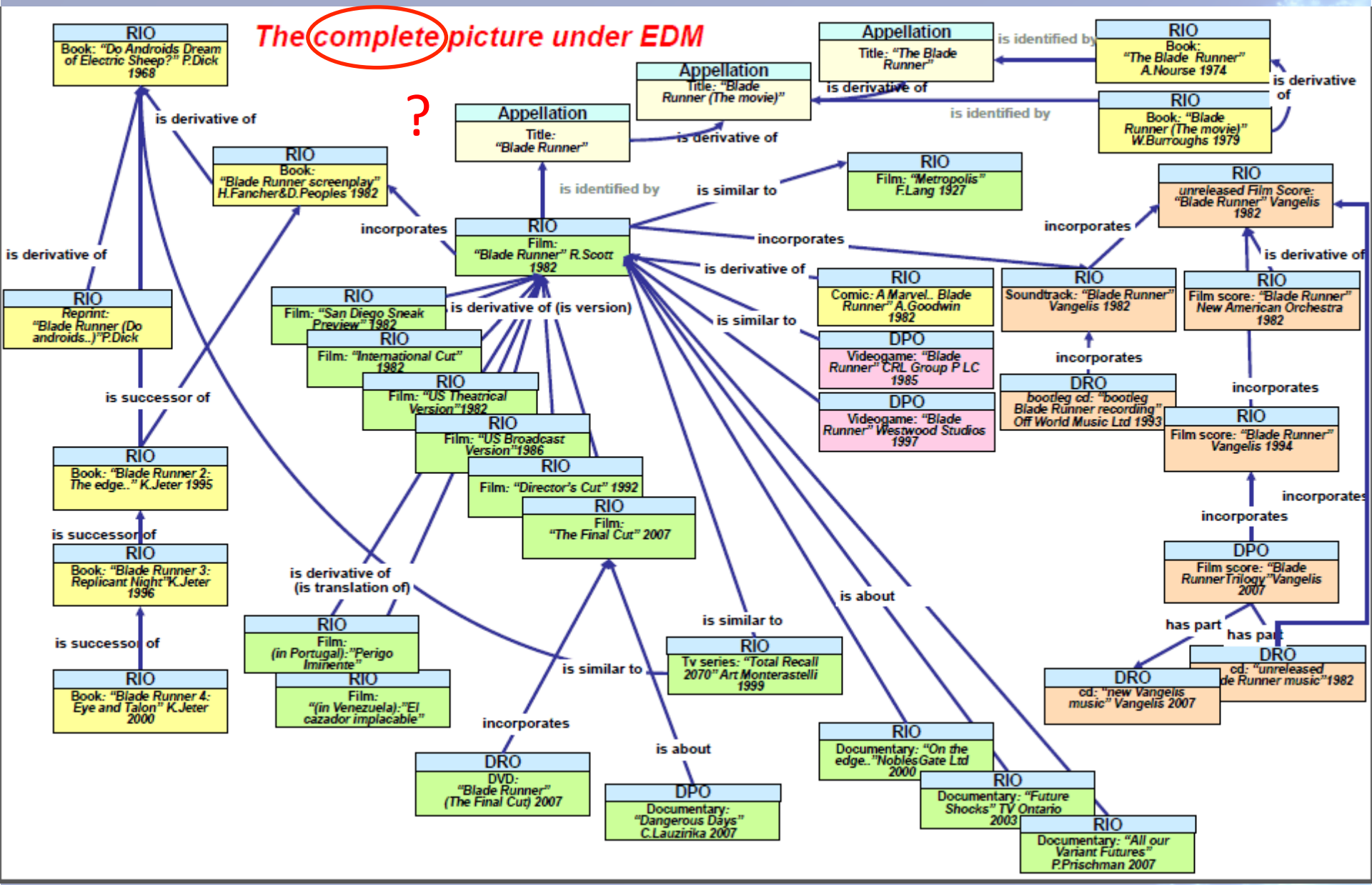
Presented at the special session “Application Profiles as an alternative to OWL Ontologies”

DC-2013, 3-5 September 2013, Lisbon, Portugal

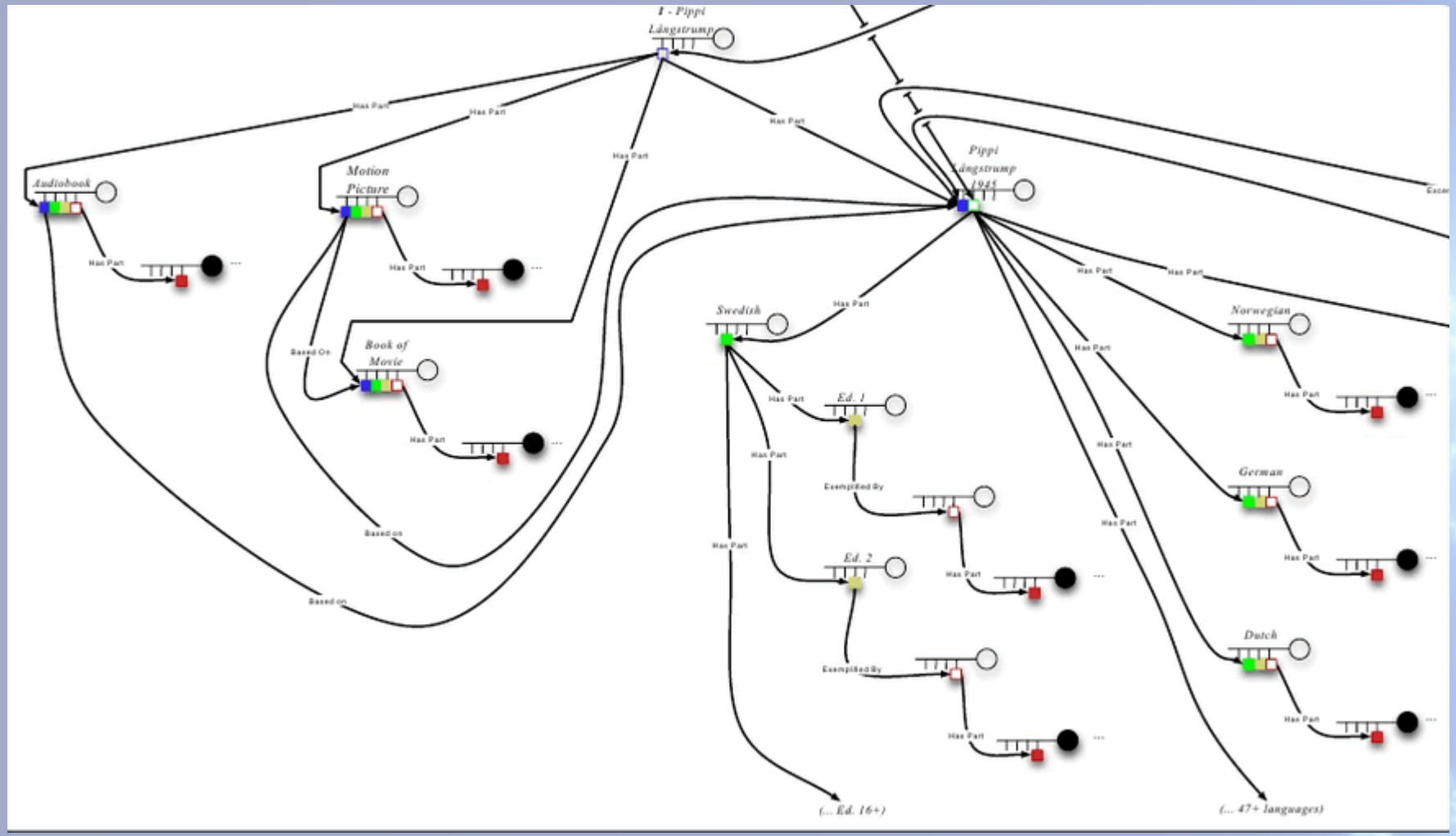
FRBR Group 1 ontology



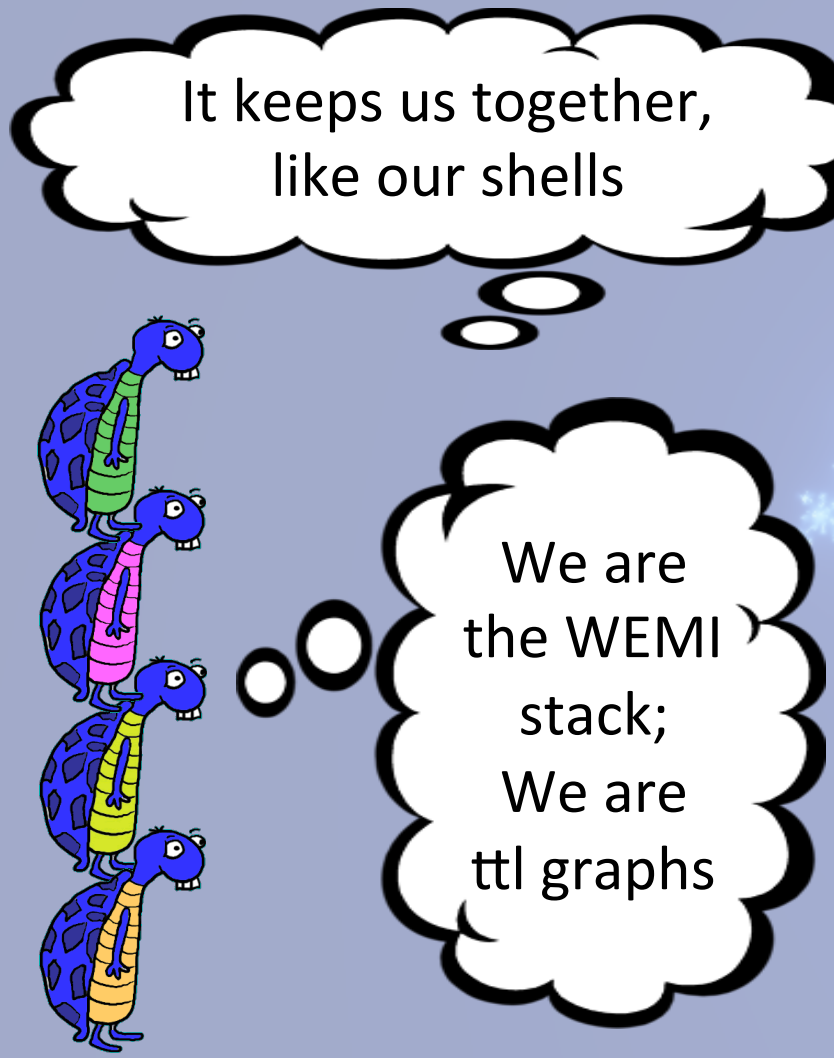
Bibliographic complexity: Bladerunner (from Europeana Data Model)

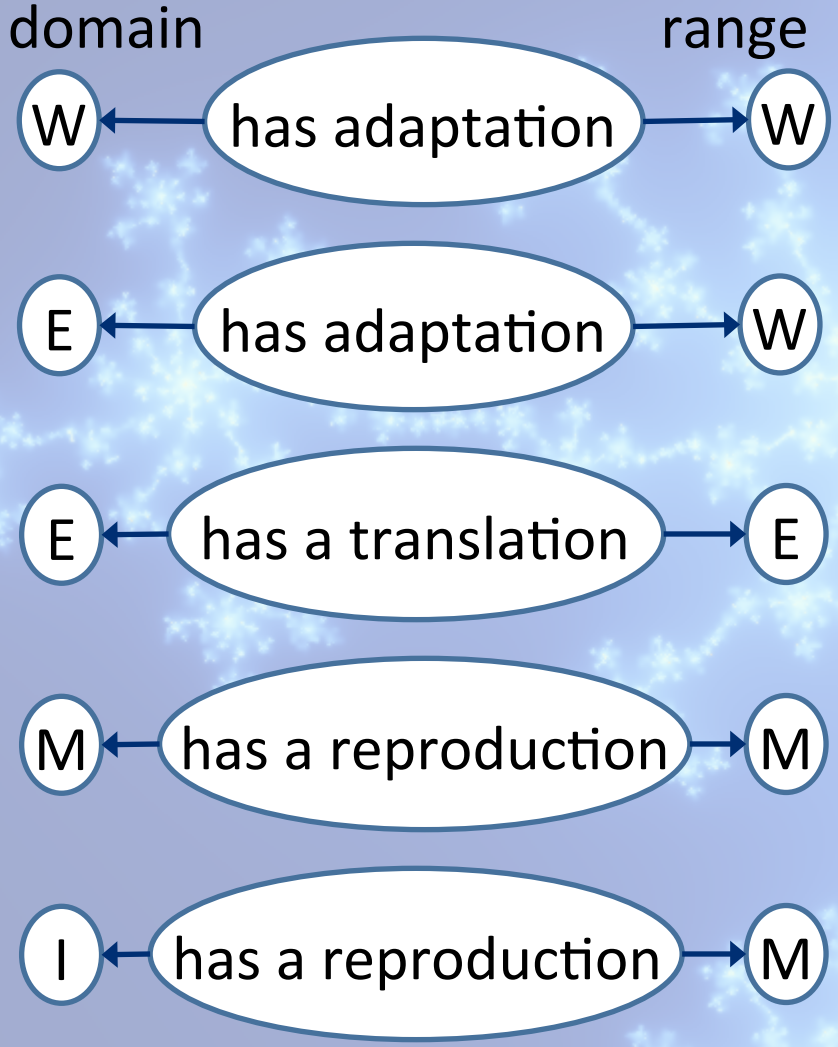


Bibliographic complexity: Pippi Longstocking (from Ron Murray/Barbara Tillett)



Ontology constraints ensure coherency of complex FRBR relationships





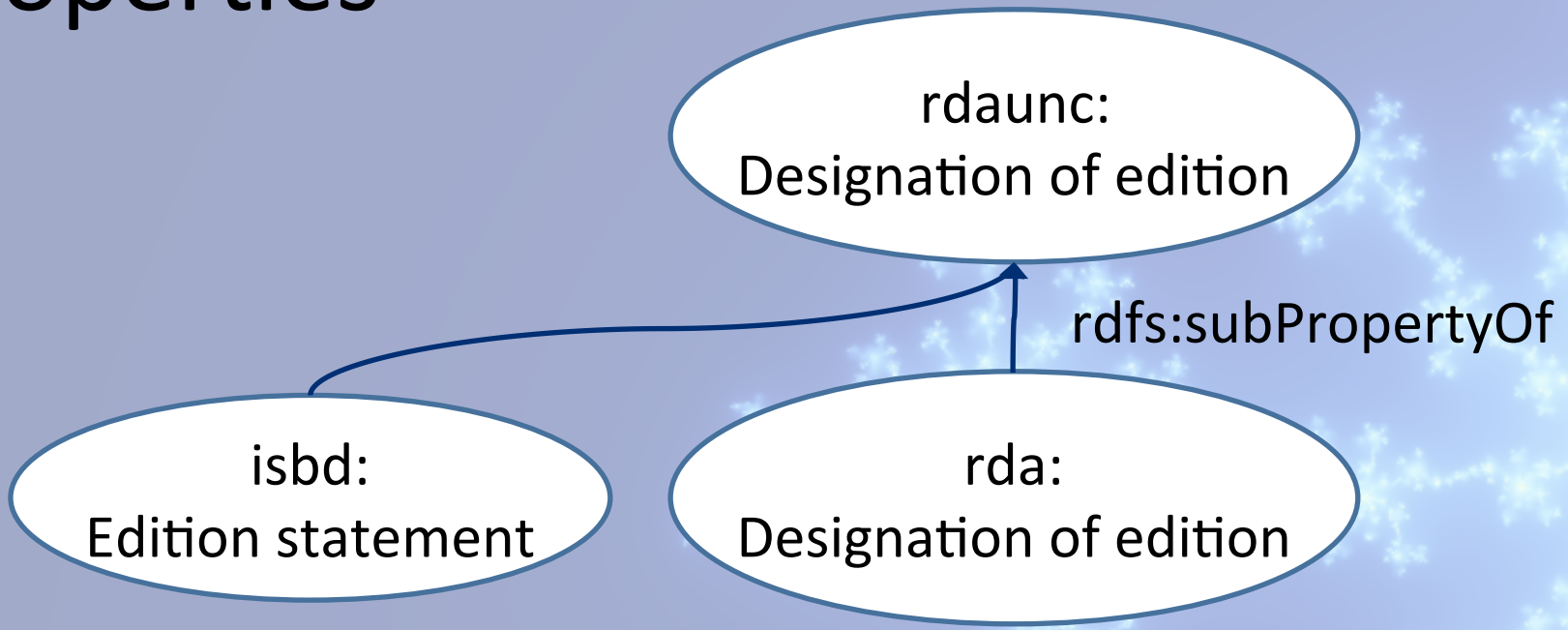
Intended users of FRBR ontology

- End-users!
  - Find, Identify, Select, Obtain user tasks
  - Navigation through complex bibliographic relationships between multiple information resources
    - Complexity (mostly) concealed
- Catalogue managers
  - Reduces duplication of data within “the record”
- Researchers
  - Bibliography, Cultural history, Transmission of knowledge, etc.

RDA as a FRBR application

- RDA has its own local FRBR classes
  - Not yet related to FRBR element set
  - No OWL constraints declared
- RDA properties constrained by RDA/FRBR domain/range
- Unconstrained properties with no domain/range will be published as super-properties
- Development of AP(s) a goal of the "London" meeting in 2007
  - But RDA element set not yet "published"
  - And AP RDF representation …

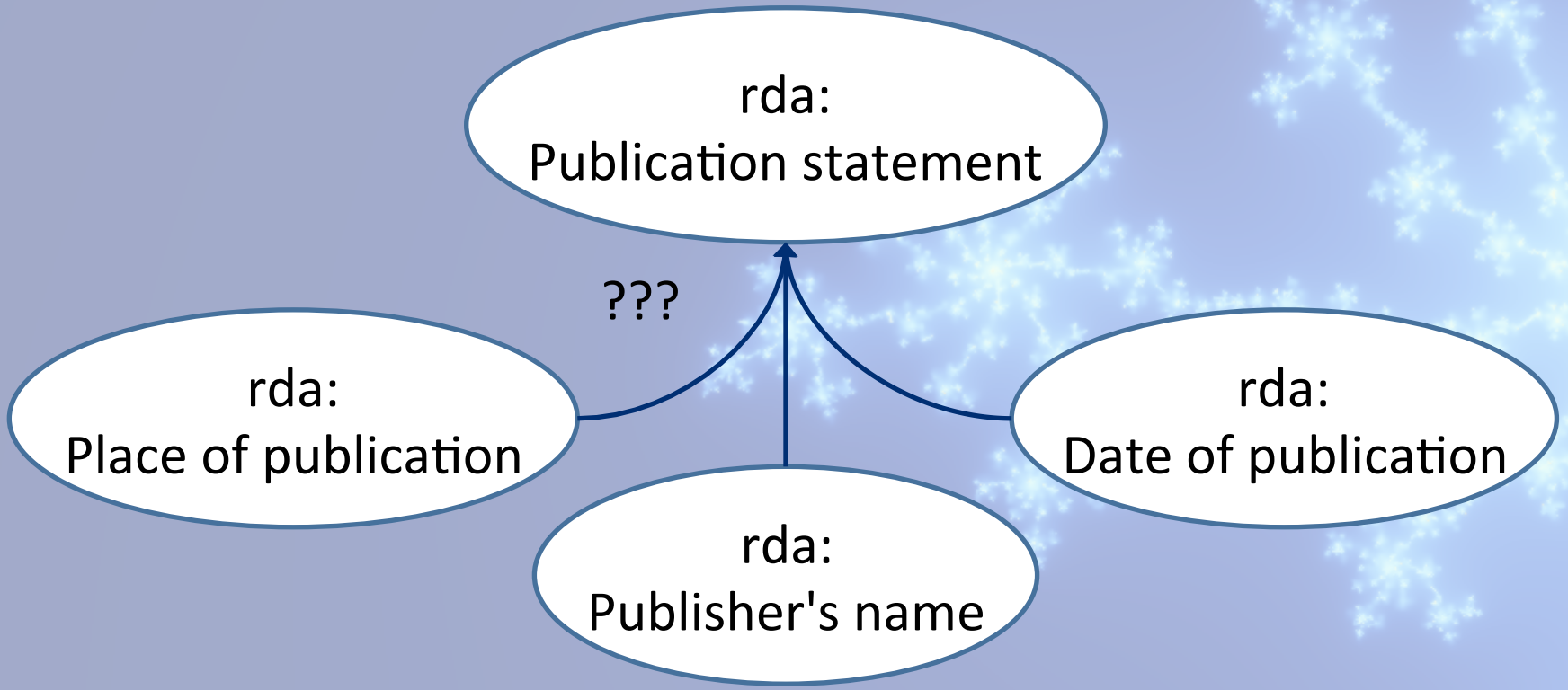
Unconstrained properties



Relationship between isbd:Resource and frbr:WEMI?
Discussion paper tabled at IFLA 2013

Aggregated statements

“Edinburgh : Scotsman Books, 2013”



“Edinburgh” “Scotsman Books” “2013”

Application profile?

- No published RDF representation of DC AP!
- How does an AP assure better quality than OWL in an un-bounded universe?
- Is there any real difference between AP and OWL?
  - AP encodes “rules” outside of element set
  - OWL encodes within element set
  - Same requirements/rules for processing algorithms?
    - Isomorphic?

Thank you!

The Bog of RDA

Graphics

- Turtle cartoon: Church House Clipart
  - http://www.churchhouseclipart.com/
- Swamp640: Copyright Brian S. Kissinger
  - http://visualparadox.com/wallpapers/wallpaper_640x480.asp?wallpaper=swamp
- Speech bubble: Free Stock Photos.biz
  - http://www.freestockphotos.biz/stockphoto/6969