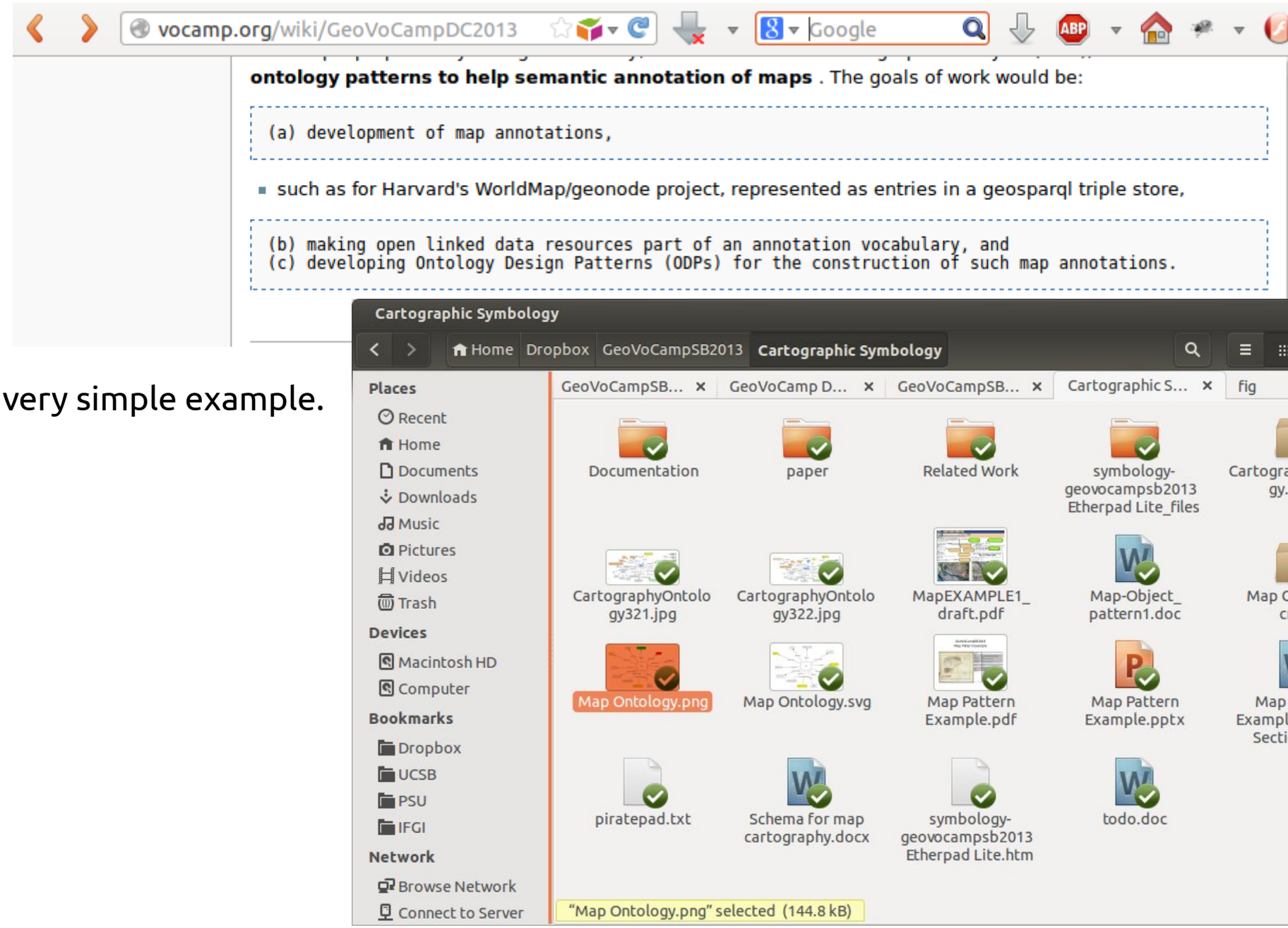
Please don't agree :
Descartes-Core

GeoVoCamp DC Nov.2013

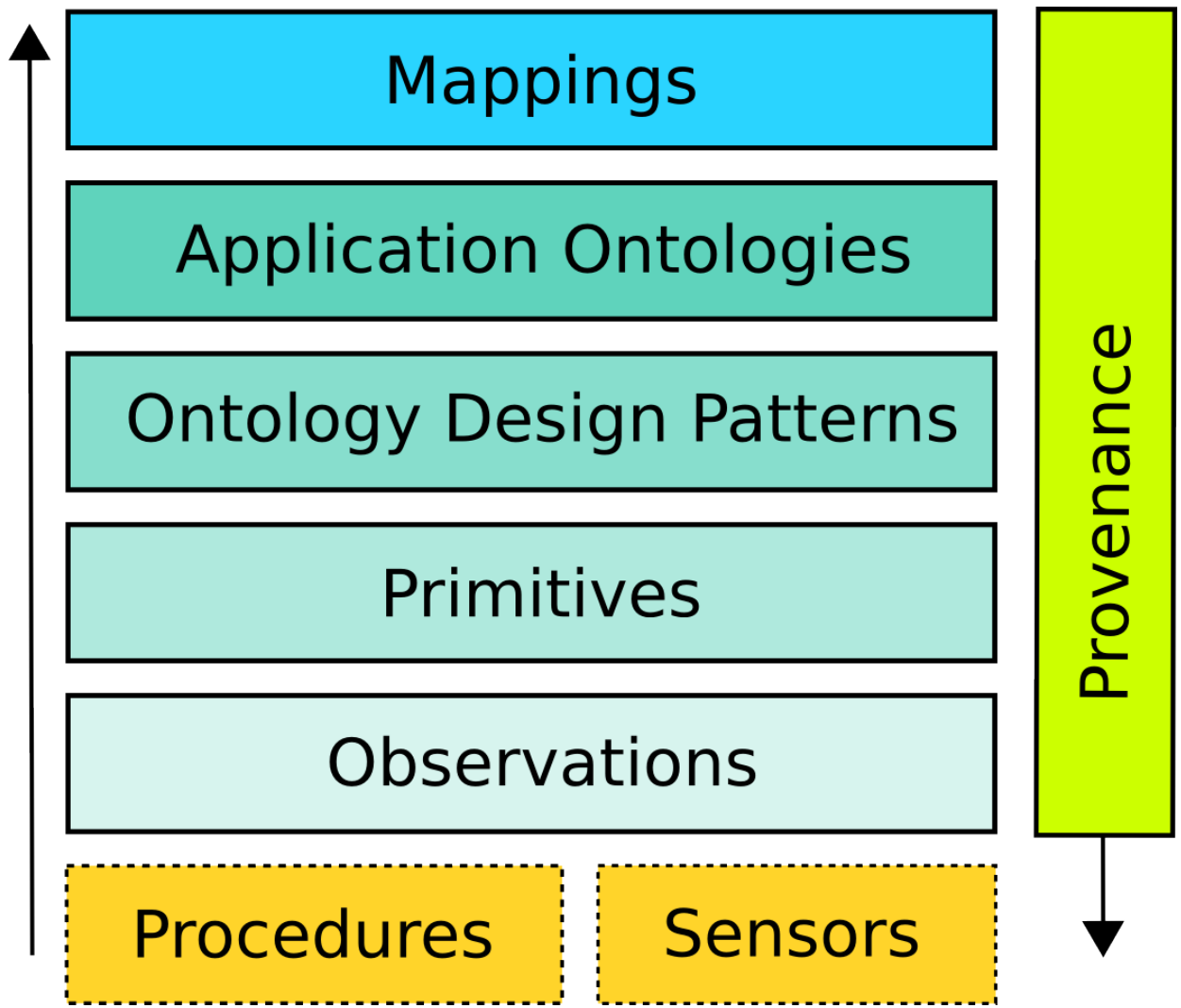
'Similar to Dublin Core for the library science and Darwin Core for ecology, we plan to establish Descartes-Core at this meeting. Descartes-Core will not be a top-level ontology but a **set of (geo-)ontology design patterns, micro-ontologies, best practice guides, examples, software, and services**, that aim to **foster semantic interoperability** between different (Linked Data) sources **without restricting semantic heterogeneity** at the same time.'

Why Do We Need Descartes-Core?



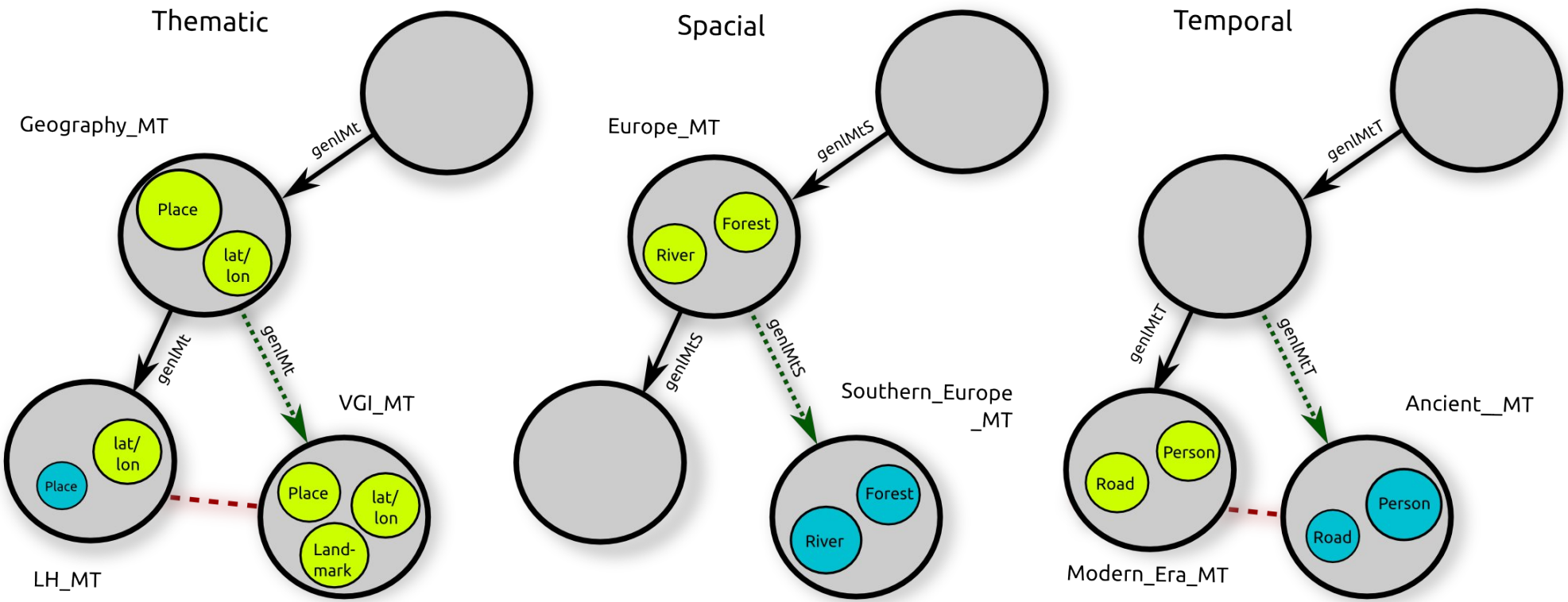
A very simple example.

Descartes-Core Ontology Engineering Stack



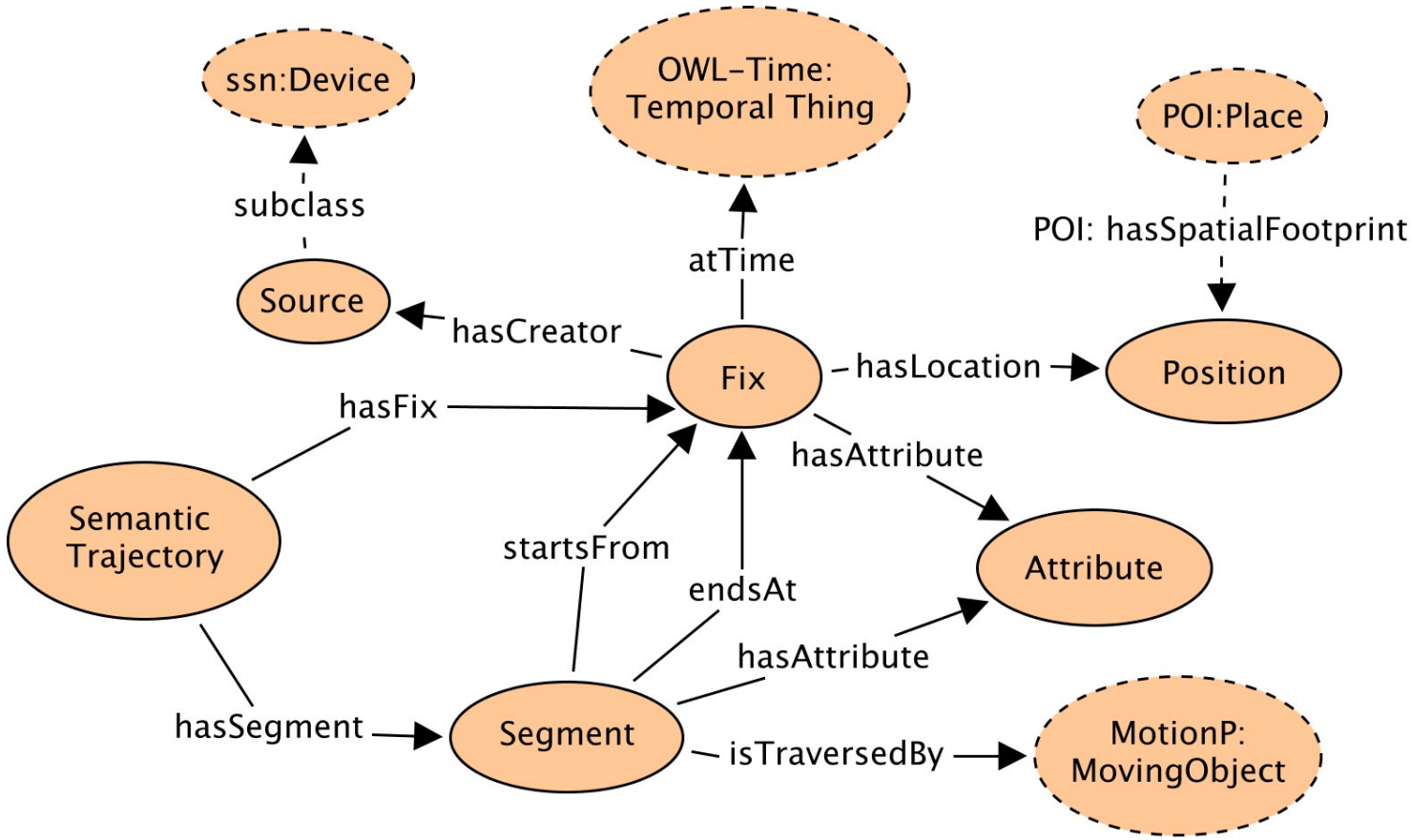
See: http://bit.ly/19y5dk0

A Network of Micro-Ontologies



See: http://bit.ly/19y5dk0

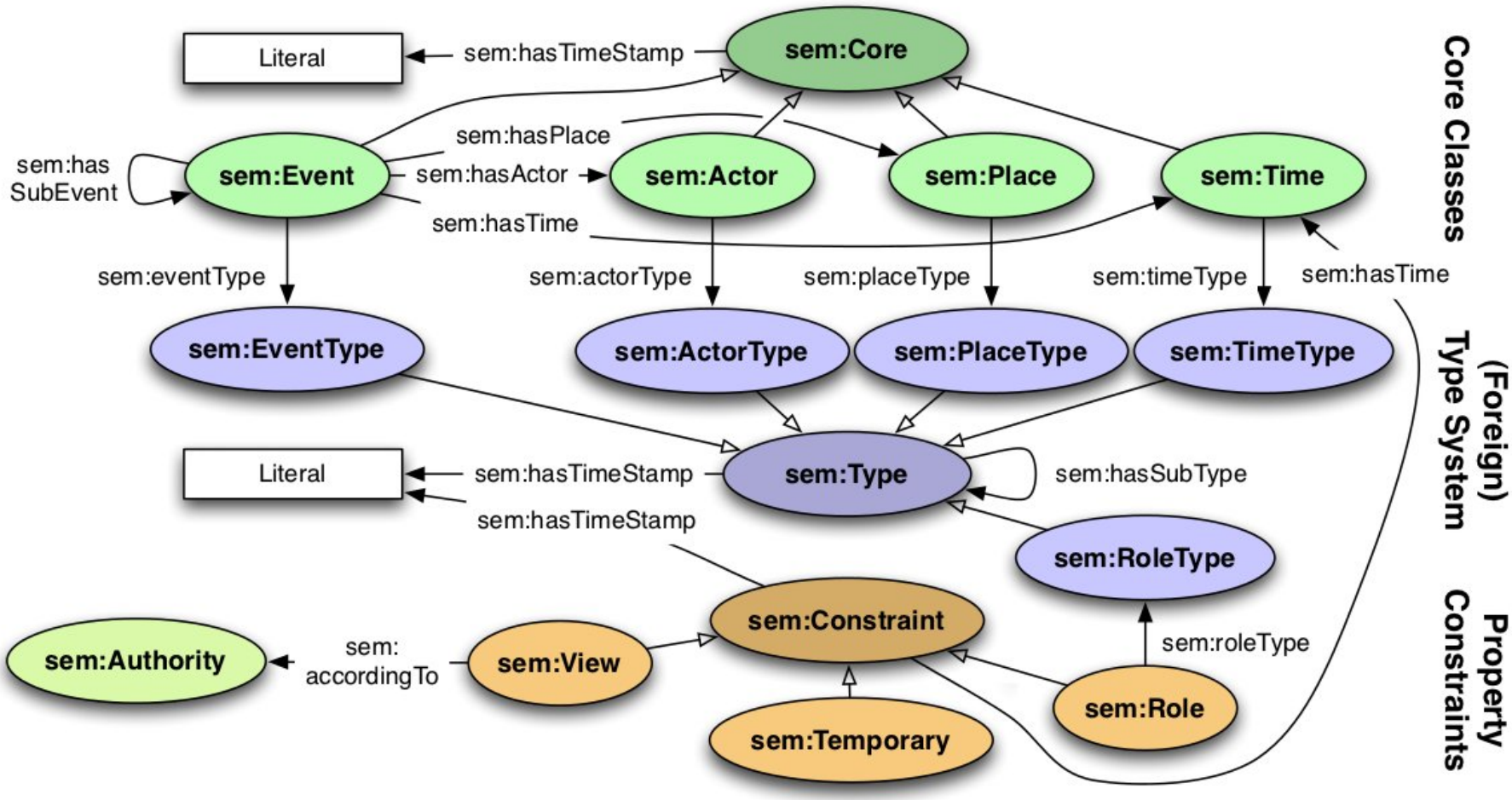
Ontology Design Pattern?



- Not every (small) ontology is a pattern; calling everything a pattern does not help
- There are different types of patterns, e.g., logical patterns vs. context patterns
- Patterns and ontologies require an axiomatization, not just a figure
- Trajectory pattern example → Why is Place, Device, MovingObject, etc not part of the pattern?

(see http://bit.ly/1d94Rs9 for axioms)

Dealing with Subtypes and Modeling Complexity

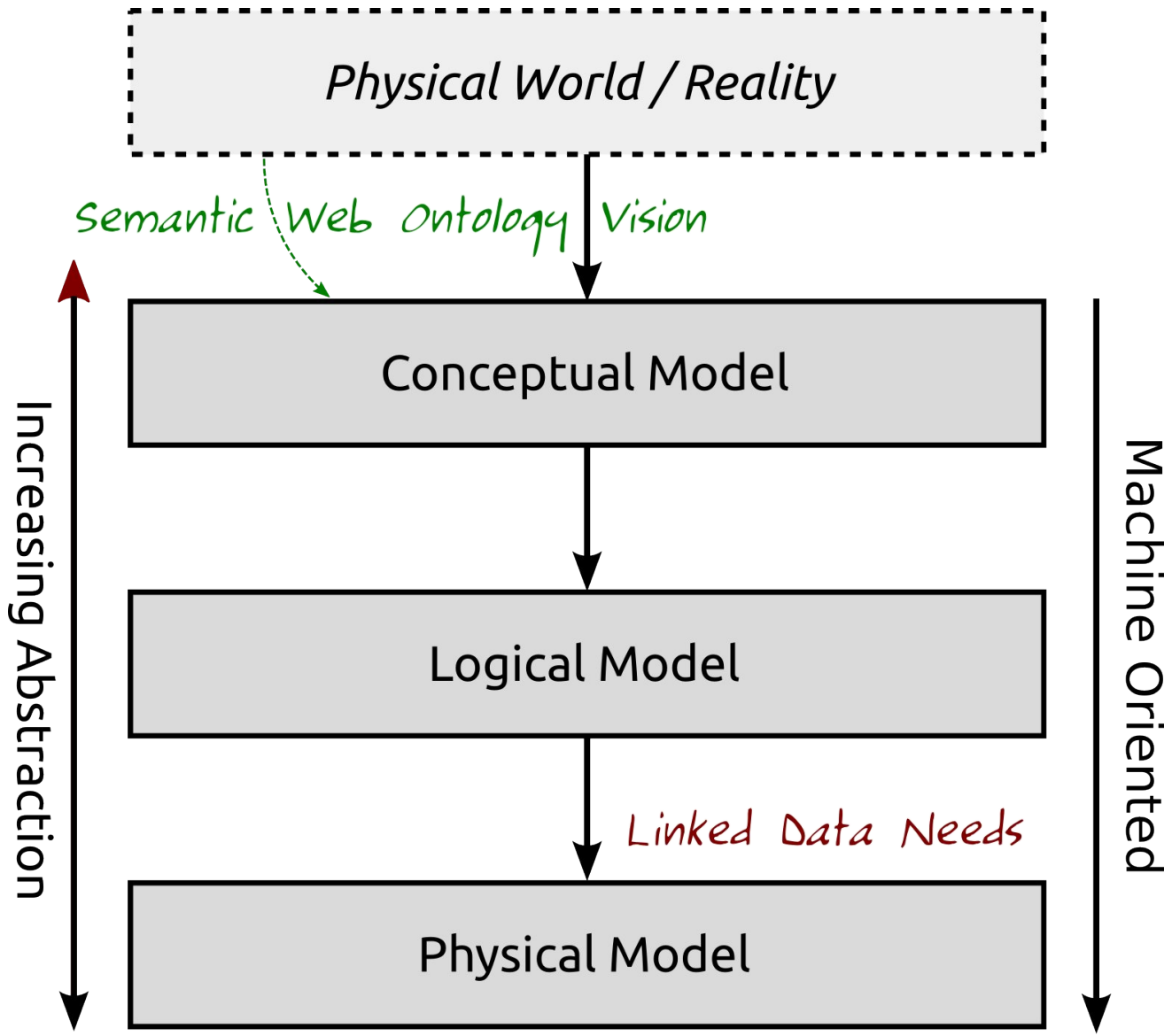


See: http://bit.ly/1aArGQT

Mark Gahegan's Guiding Pattern Principles

- Keep it simple, stupid
- Where you end up depends on where you start, and what you think is important….
  - Choose and agree on (and document) a ‘Subject’
  - Check existing patterns to see what other subjects might form useful connection points
- What is important about your subject depends on what it means to you—what you want to do with it…what problem it solves for you
  - Choose and agree on (and document) a ‘Purpose’
  - Ensure there are Data that fit this purpose…
  - Later, also consider other purposes, as this will help you to avoid over-specifiying
- Provide three examples of where this pattern works

Ontologies, Conceptual Models, …..?



See: http://bit.ly/HYL40t