

International Association for Ontology and its Applications (IAOA)

Semantic Web Meets Applied Ontology: What Does it Mean?

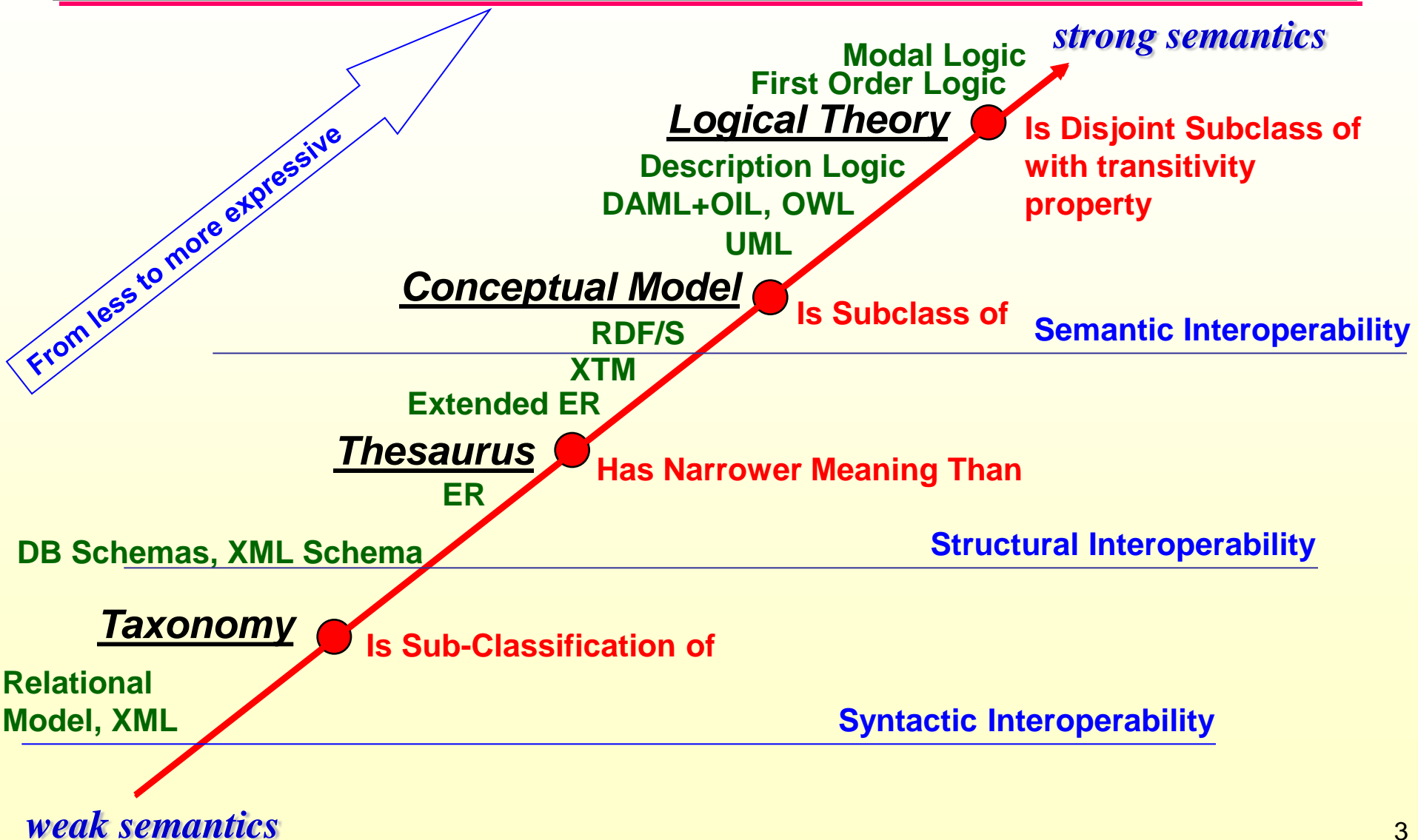
**Inaugural Meeting
November 25, 2013**

Leo Obrst (MITRE)

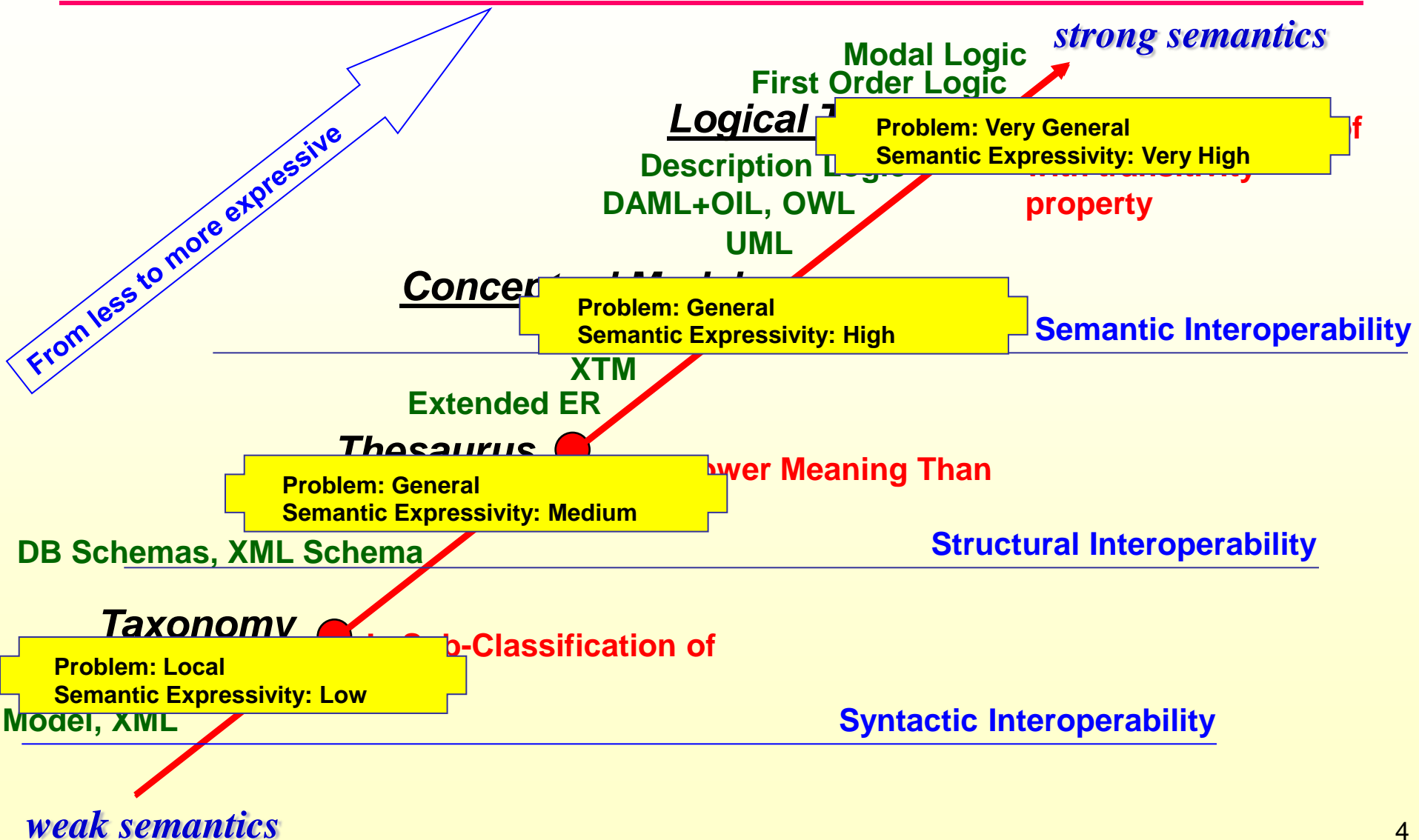
Semantic Web Meets Applied Ontology

- There is a large common ground between the Semantic Web (and Linked Data) and the Applied Ontology (largely focused on ontological analysis) communities in terms of their perspectives on ontologies
- ***The Semantic Web community*** emphasizes:
 - Gaining traction/adoption of semantic technologies on the WWW, and exposing data
 - The employment of a bottom-up approach
 - Much of the use of SW technologies, however, occurs not on the open Internet, but on Intranets closed off to more widely distributed communities and issues
 - In general, these Intranets require more precise ontologies primarily because they have more specialized use cases for ontologies, some of which require more precise automated reasoning
- ***The Applied Ontology community*** uses Semantic Web technologies, but often in Intranets, where the domain requirements are more precise, and often require more complex automated reasoning

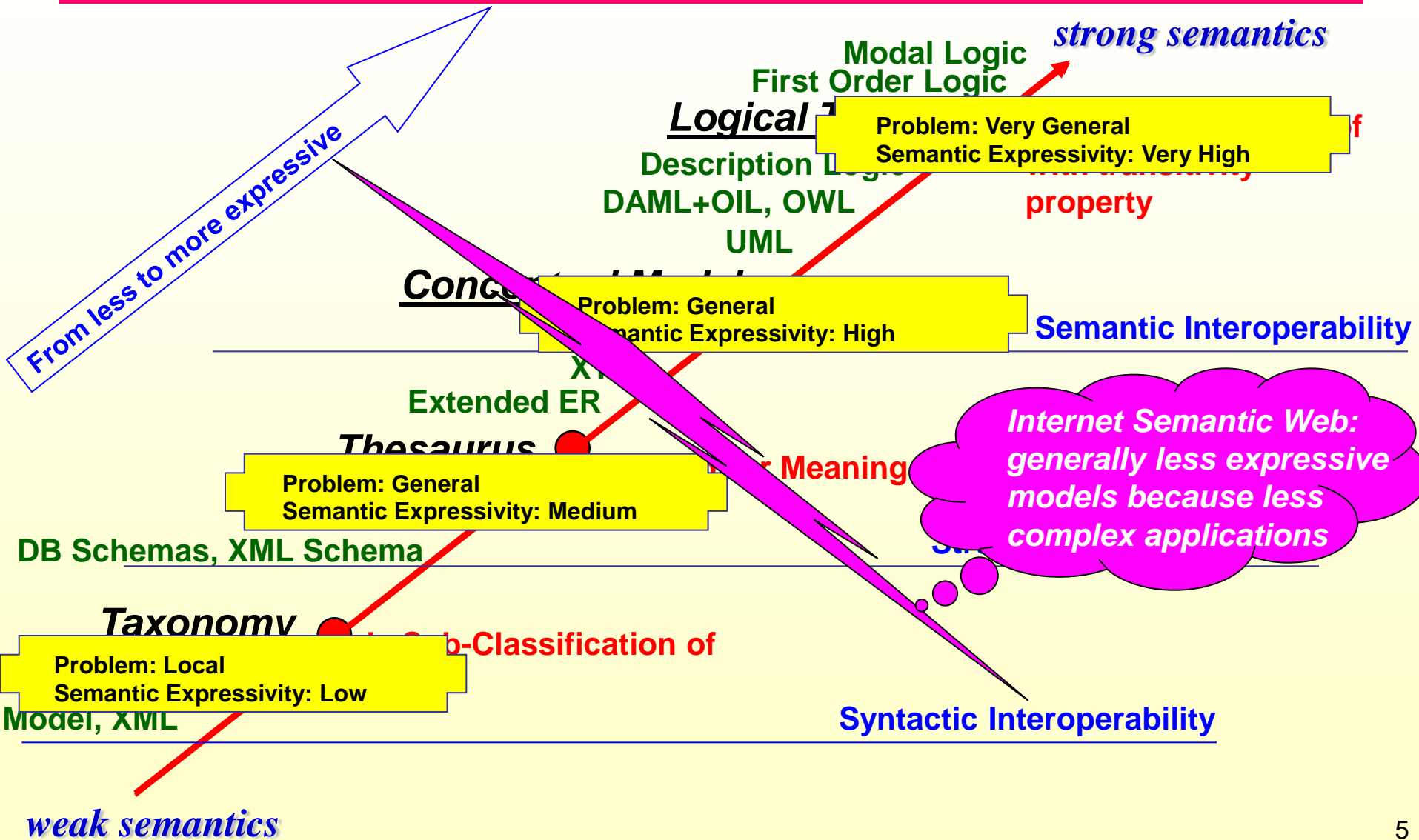
Ontology Spectrum: Range of Models



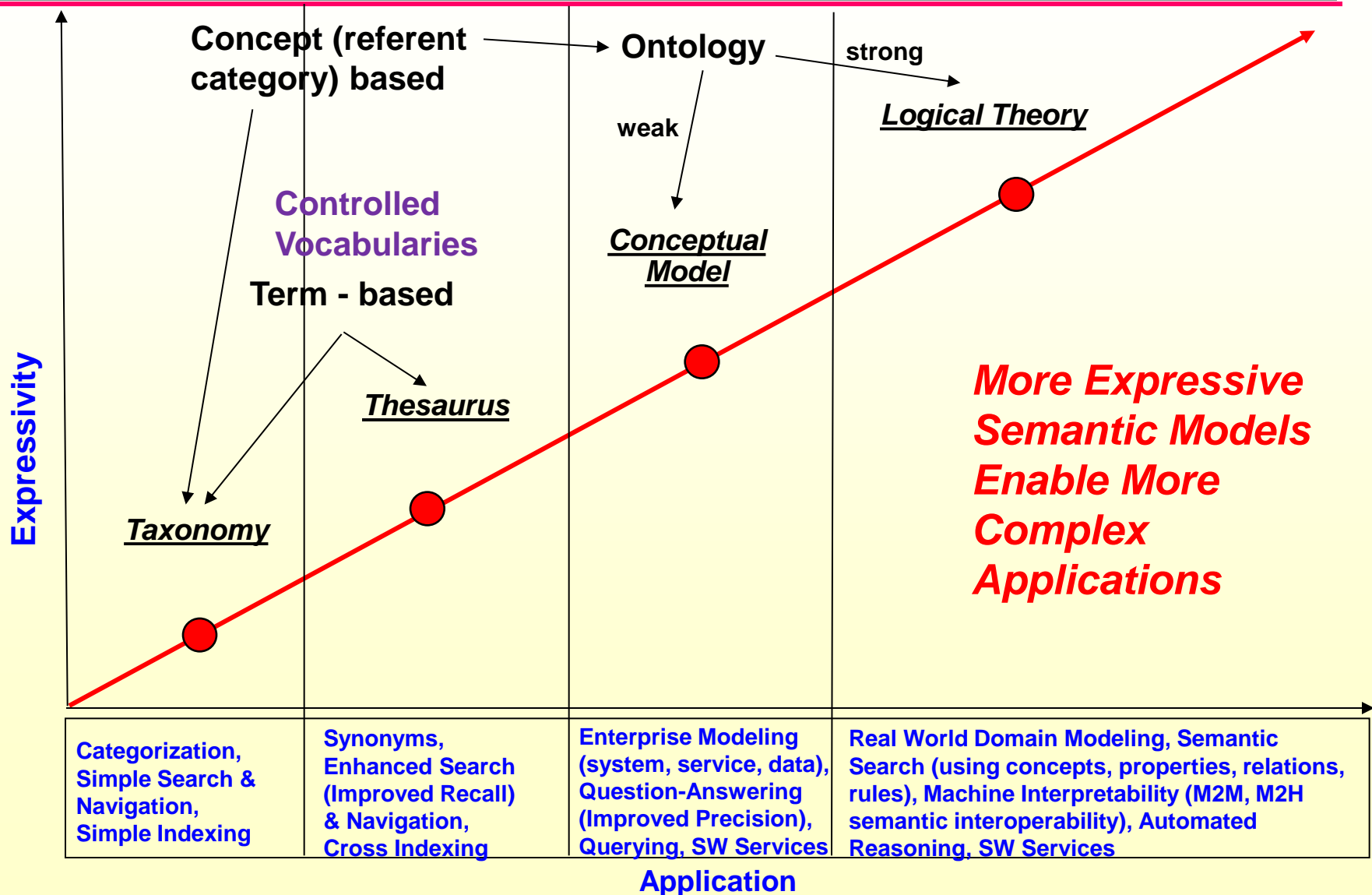
Ontology Spectrum: Generality & Expressiveness



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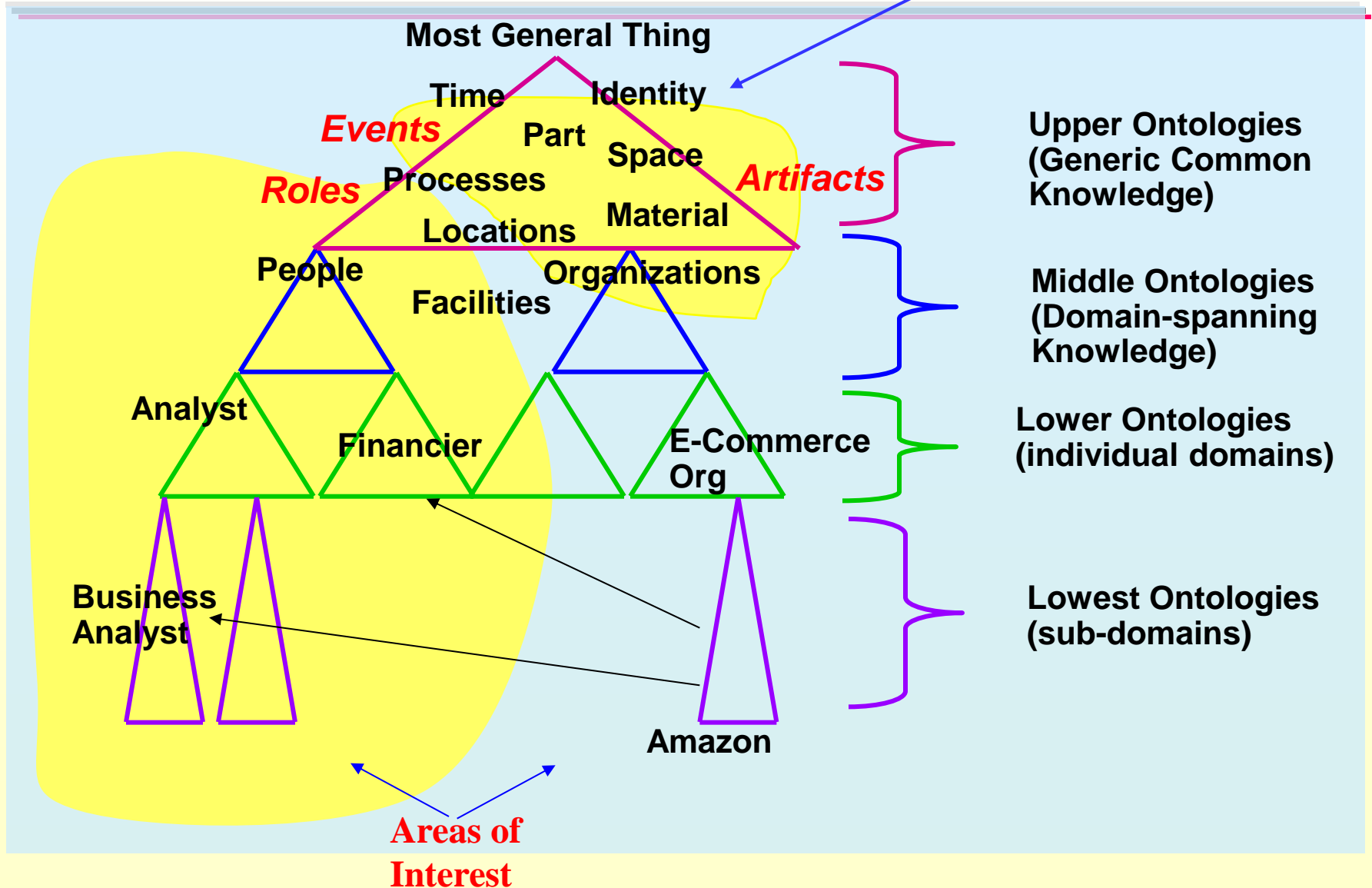


Ontology Spectrum: Application



Upper, Middle, Domain Ontologies

But Also These!



Upper, Middle, Domain Ontologies & Bottom-up Mid-Level Ontological Patterns

Top-down Analytical Ontologies

