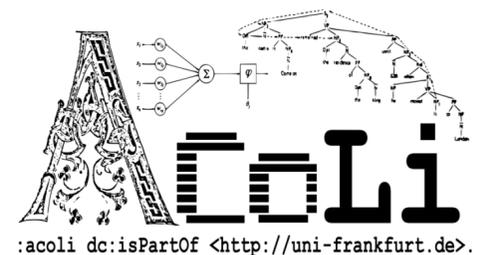


Building an Ontological Model of the BLL Thesaurus

Vanya Dimitrova, Christian Fäth, Christian Chiarcos,
Heike Renner-Westermann, Frank Abromeit





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- 1 Barbara Wehr/Frédéric Nicolosi (Hg.): Pragmatique historique et syntaxe/Historische Pragmatik und Syntax. Actes de la section du même nom du XXXIe Romanistentag allemand/Akten der gleichnamigen Sektion des XXXI. Deutschen Romanistentags (Bonn, 27.9. - 1.10.2009). Frankfurt a. M.: Lang 2012, 323 S.

Schrott, Angela

In: Romanische Forschungen 128 (2016) 1, 117-120

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- 2 On the status of exhaustiveness in cleft sentences: an empirical and cross-linguistic study of English "also"/"only"-clefts and Italian "anche"/"solo"-clefts

De Cesare, Anna-Maria; Garassino, Davide

In: Folia linguistica 49 (2015) 1, 1-56

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1

- Converting the BLL Thesaurus to SKOS

2

- Remodelling the SKOS edition in OWL

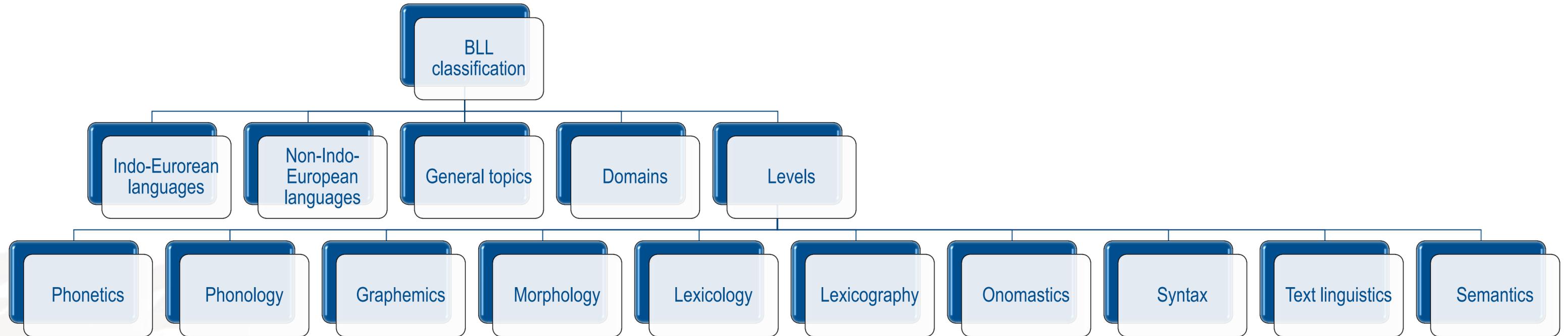
3

- Linking the BLL Ontology with LLOD terminology repositories

4

- Search algorithm, data storage solutions, query interface

BLL Thesaurus



7,481 hierarchically organised index terms

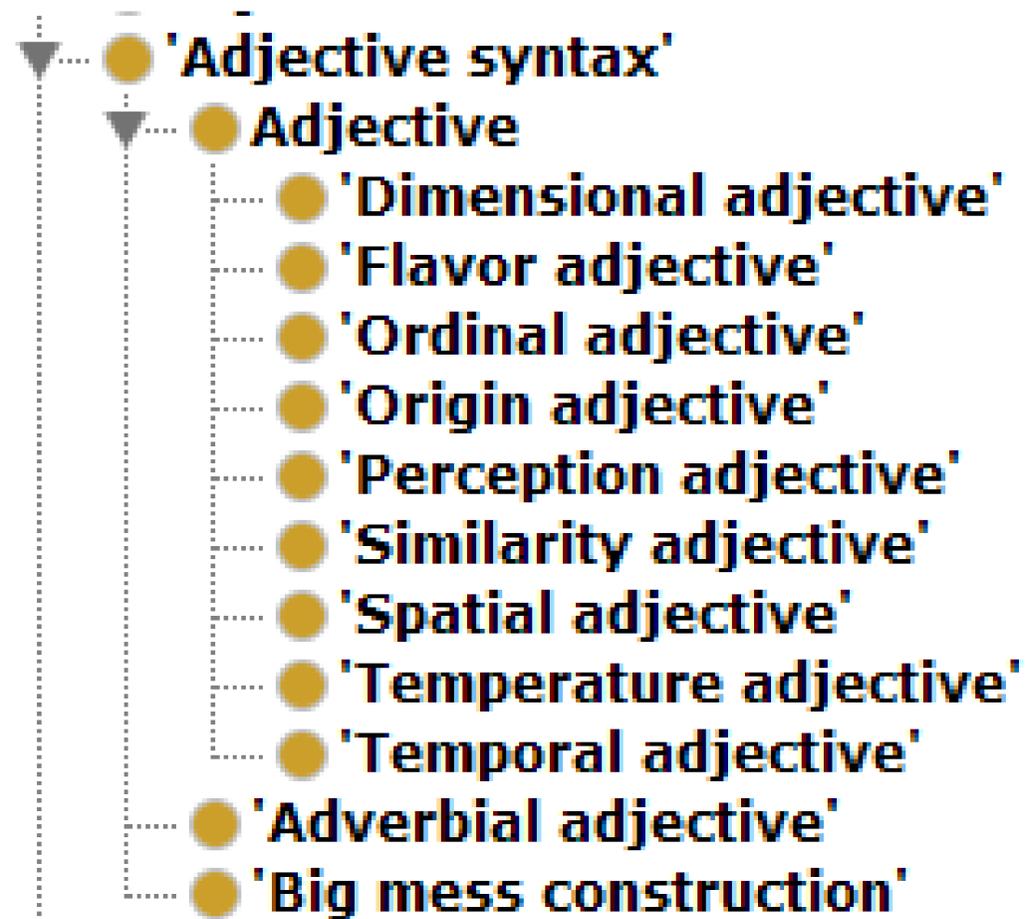
2,141 index terms for language varieties

1,985 index terms in *Levels*

- 289 index terms under *Syntax*
- 191 index terms under *Morphology*
- 325 index terms under *Lexicology*

Hierarchical relations within the BLL Thesaurus

Example: BLL *Adjective syntax*



Can all subcategories be regarded as subclasses in an ontological sense?

Test: Is every dimensional adjective an adjective?

Is every adjective an adjective syntax?*

Solution of the hierarchy problem:

Convert to RDF/SKOS (automatically)



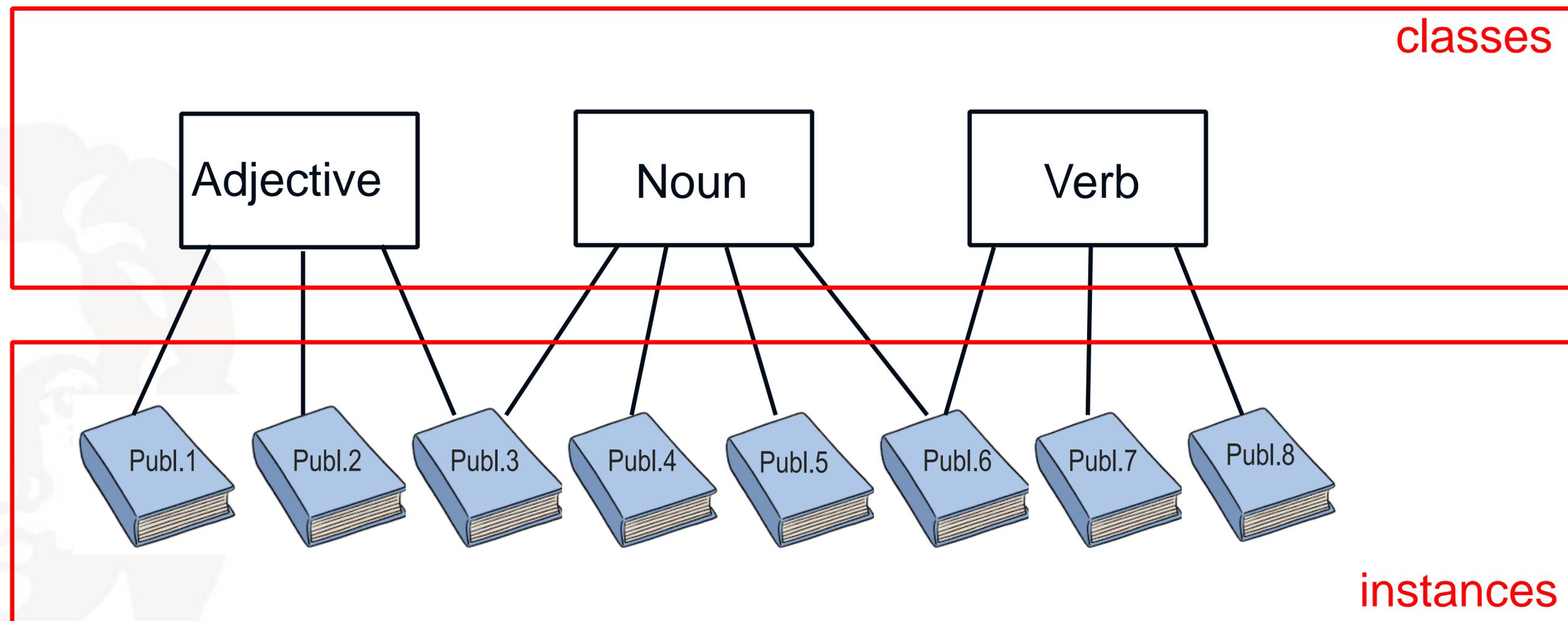
Remodel in OWL2/DL (manually)

An OWL2/DL ontology offers:

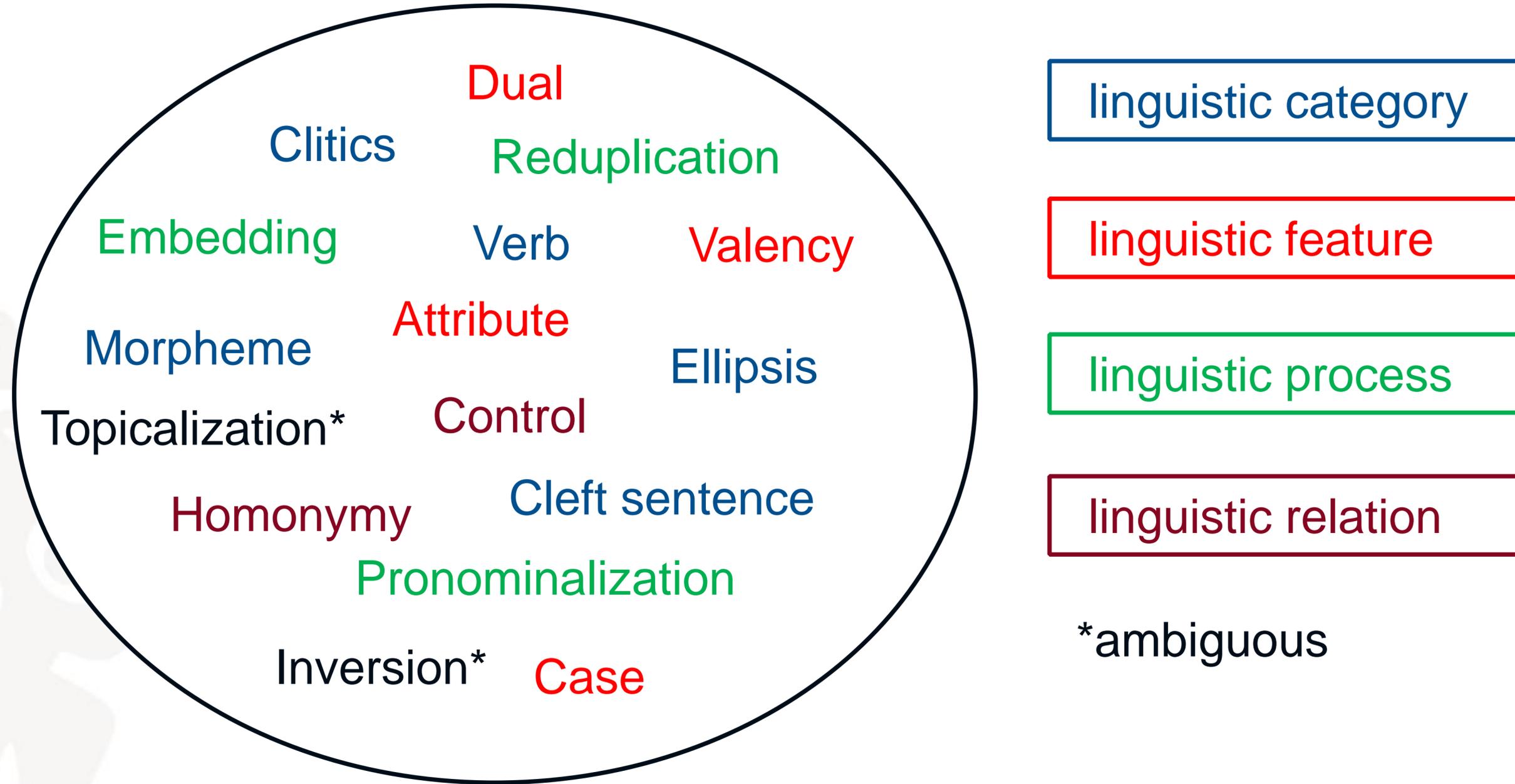
- description logical **operators** (to resolve ambiguity and conceptual overlap)
- **integration** of the BLL Thesaurus in the modular OLiA architecture
- possible development of **ontology-based queries** as additional search functionality within the Lin|gu|is|tik portal

Boundaries between classes and instances in the BLL Ontology

BLL subject terms represent ontological classes defined as collections of bibliographical references to resources



Grouping the BLL subject terms and defining the top-level structure



*ambiguous

Complex classes

- **Conceptual overlap**

Examples: *Adverbial adjective, Compound adjective, Verbal compound*

Solution: Define as subclass of the intersection of the overlapping classes

$$\text{Verbal compound} \sqsubseteq \text{Verb} \sqcap \text{Compound}$$

- **Ambiguous concepts**

Example: *Compounding* is applied for the morphological process (composition) as well as for the morphological category (compound)

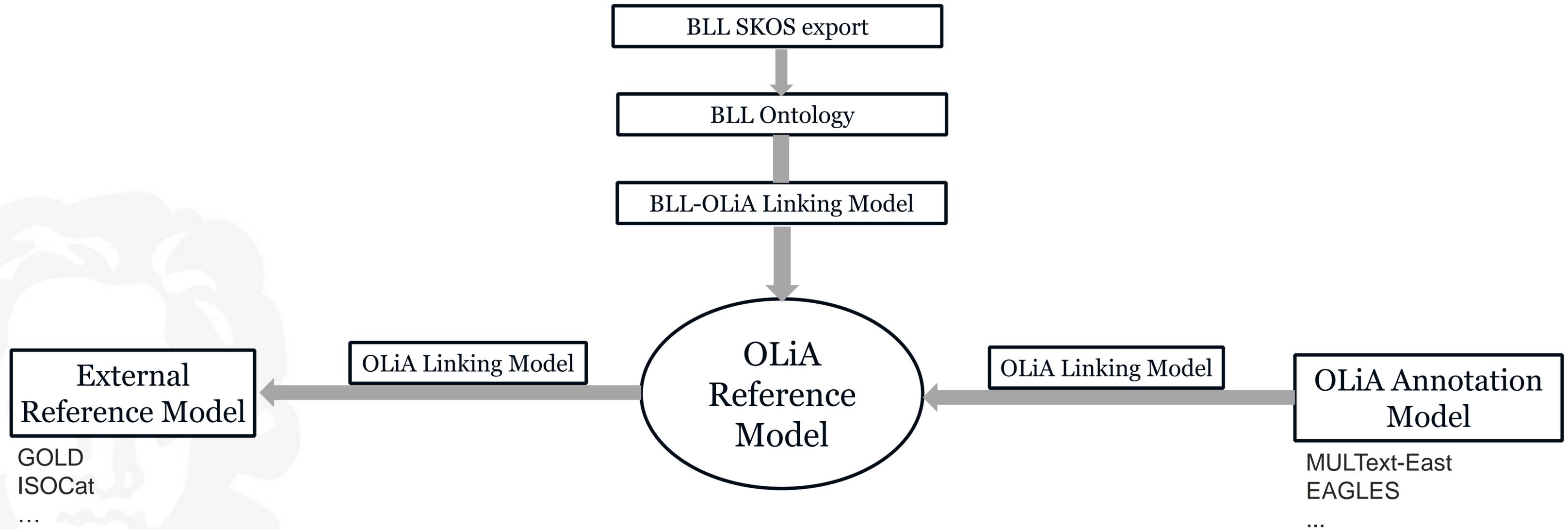
Solution: 1. Define *Compounding* as subclass of *AmbiguouslyDefinedConcept*

2. Create two new ontological classes: *Composition* and *Compound*

3. Equate *Compounding* with the disjunction of the new classes

$$\text{Compounding} \equiv \text{Compound} \sqcup \text{Composition}$$

Remodelling and linking (of the *Syntax* and *Morphology* branches) results in multiple layers of interlinked ontologies



Thank you!

