Elexis Observer Event, Vienna, Feb. 18-19, 2019

The **LexBib** Project

A Corpus and Bibliography of Metalexicography

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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731015.

LexBib Project

- Goals
- Features, Methods, Workflow
- Partners
- Working plan, Outlook

- Detailed intro: Lindemann, Kliche & Heid 2018 (Euralex Ljubljana)

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State of the Art and Goals

Situation now

- Bibliographies: Unlinked islands
  - Publishers / topics
- Noisy metadata sets
  - Automatically harvested
- Language barrier
  - Mutual invisibility
- Unconsistent indexation
  - Keywords / subject headings

LexBib Goals

- Unified territory
  - But: only relevant content
- Complete and correct metadata
  - manually validated
- Multilingual access structure
  - Multilingual Domain Ontology
  - Additional content-describing metadata

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LexBib online reference platform

- Advanced search & browsing functions
- Access through domain ontology nodes
- Access through citation network
  - Visualisation of network and clusters
- Author profiles
  - Author name disambiguation, additional info
- Link to full text
  - …on publishers’ etc. platforms

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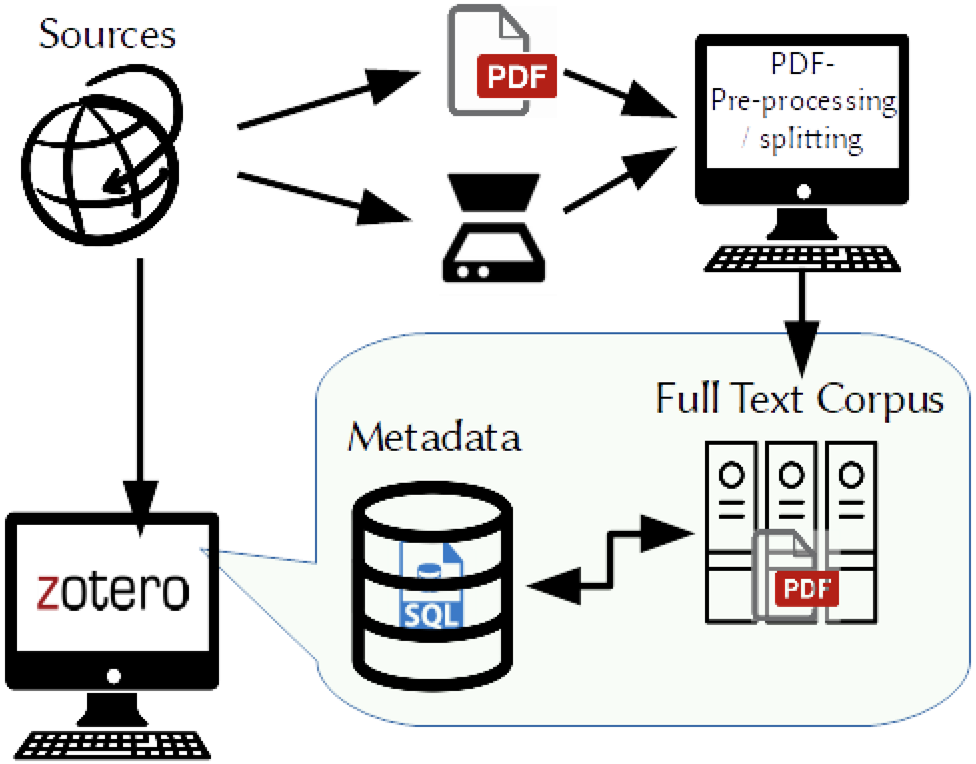
Working Pack 1



- Collection and validation of Metadata
  - If necessary
    - completion/correction
- Collection of full texts
  - If necessary
    - Scan
    - OCR
    - Split (collective volumes)

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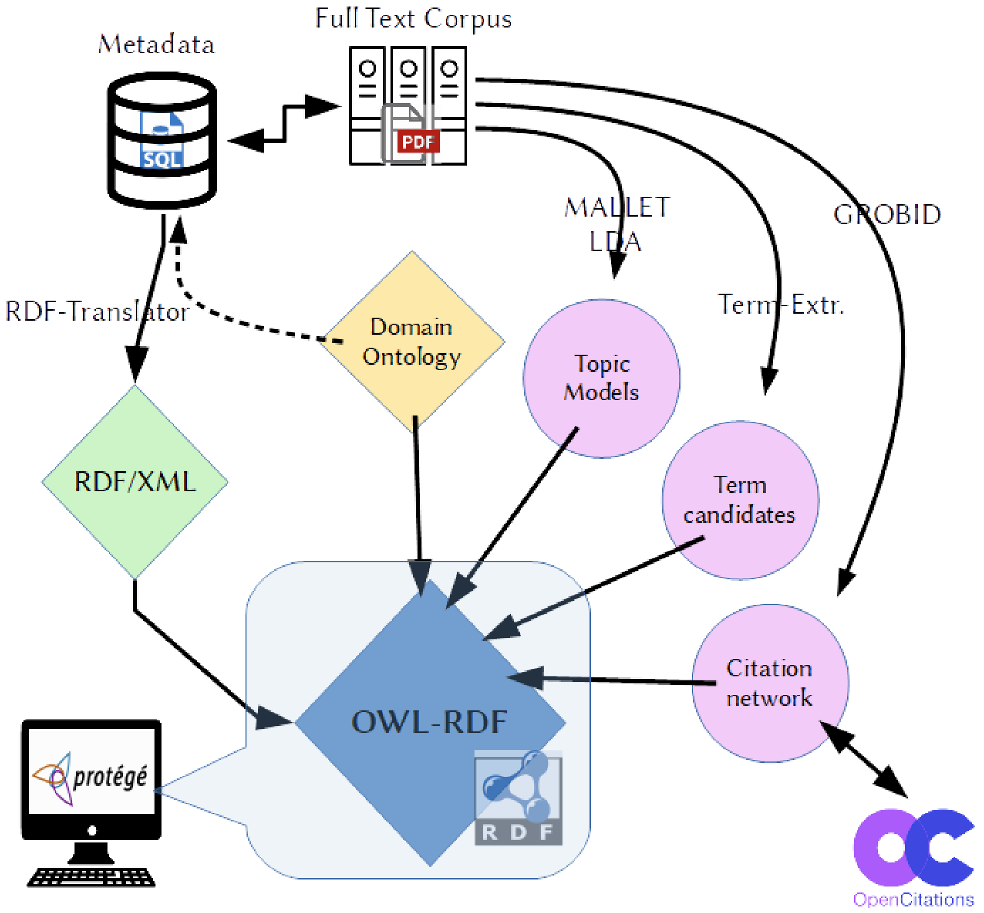
Working Pack 2



- Extraction from full texts
  - Term / keyword candidates
    - Weirdness / reference corpora
    - Tools: Rösiger, Heid et al. (IMS Stuttgart)
  - Topic Models
    - Topic Weights (for recommender)
    - Tools: McCallum: MALLET
  - Citation relations
    - Citation network, clusters
    - Tools: Romary, Lopez et al. (GROBID)

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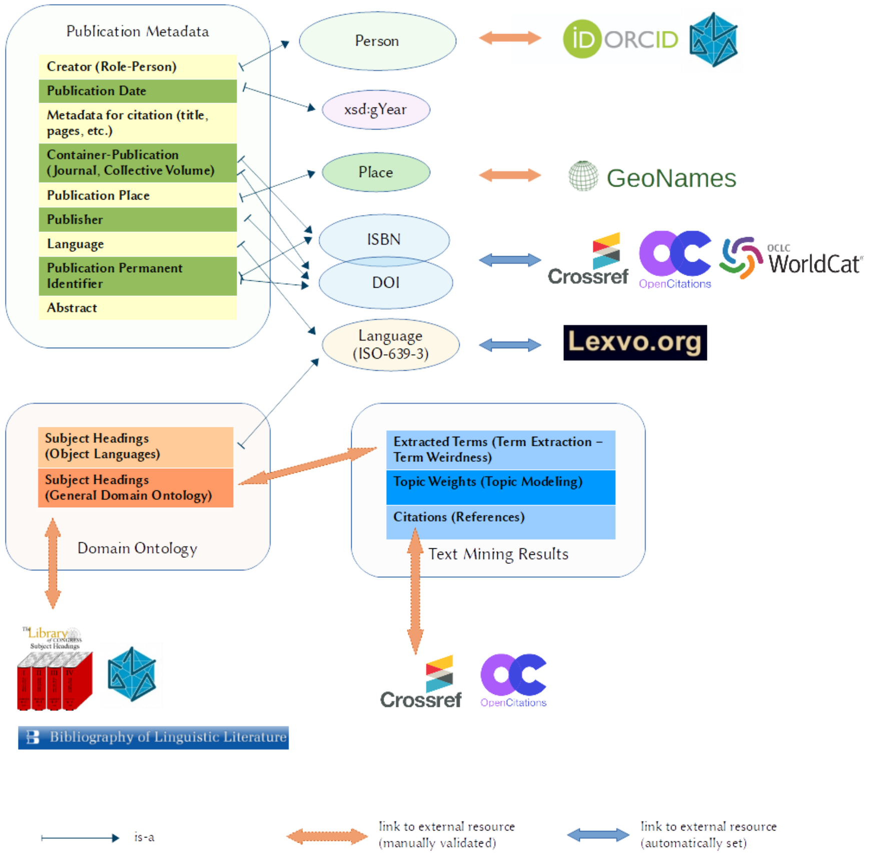
Working Pack 3


Publication Metadata
Creator (Role-Person)
Publication Date
Metadata for citation (title, pages, etc.)
Container-Publication (Journal, Collective Volume)
Publication Place
Publisher
Language
Publication Permanent Identifier
Abstract
Person
xsd:gYear
Place
ISBN
DOI
Language (ISO-639-3)
ORCID
GeoNames
Crossref
OpenCitations
OCLC WorldCat
Lexvo.org
Subject Headings (Object Languages)
Subject Headings (General Domain Ontology)
Domain Ontology
Extracted Terms (Term Extraction – Term Weirdness)
Topic Weights (Topic Modeling)
Citations (References)
Text Mining Results
The Library of Congress Subject Headings
Crossref
OpenCitations
Bibliography of Linguistic Literature
is-a
link to external resource (manually validated)
link to external resource (automatically set)

- Domain Ontology
  - Controlled Vocabulary of subject headings
    - Root node “Lexicography”, linked to LCSH, DNB, Wikidata…
  - Multilingual labels
    - EN, DE, ES, …
  - Sources: Existing classifications
- Linked Open LexBib
  - Use of existing element sets
  - Links to existing resources

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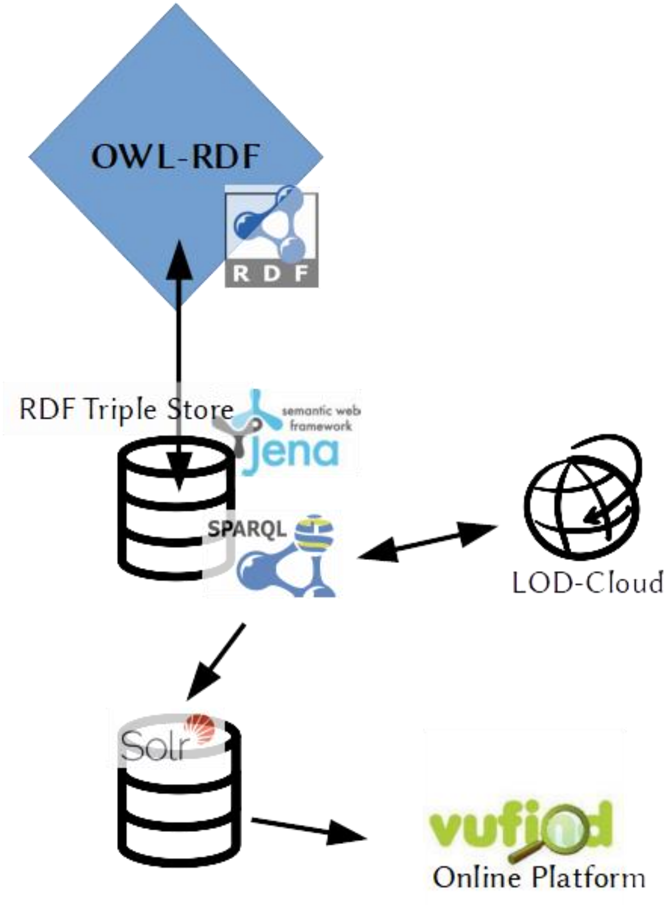
Working Pack 4



- Open Zotero Group
  - zotero.org/groups/LexBib
- Linked Open LexBib
  - SPARQL Endpoint
- LexBib Online Platform
  - Implementation with *vufind*

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Working Pack 5

- Dissemination, Community
  - Euralex, eLex conferences
    - Feedback
    - Call for contributions
    - Curation of author pages

- Process Metadata
  - Predictions for similar projects on a larger scale:

“How much manual work is necessary for a comparatively noise-free and complete resource?”

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Partners

DFG-Proposal (in prep.): Partners

- Uni Hildesheim: Lead, WP 1-5
- BBAW: WP 2, 5
- IDS: WP 1, 4, 5

Financial and other support

- Uni Hildesheim: Preliminaries
- Elexis: Preliminary work WP 1, 3
- Euralex
- EMLex
- Lexicografía UDC
- LOC-DB / VZG
- De Gruyter

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Working Plan

- 2019 [Uni Hildesheim, Elexis]
  - Metadata: Euralex-Dykstra, Obelex-Meta, Wiegand, Córdoba, Ahumada
  - Full Texts: English 2000-2018
  - Domain Ontology: First proposal
- 2020-22 [DFG?]
  - Metadata: All European languages, 1971-2018
  - Full texts: German, Spanish 2000-2018 (and more?)
  - WP2-5
- In a near future
  - Other languages, older full texts

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Thank you!
Questions?

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http://zotero.org/groups/LexBib

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