Working towards a Metadata Federation of CLARIN and DARIAH-DE

Thomas Eckart
Natural Language Processing Group
University of Leipzig
teckart@informatik.uni-leipzig.de

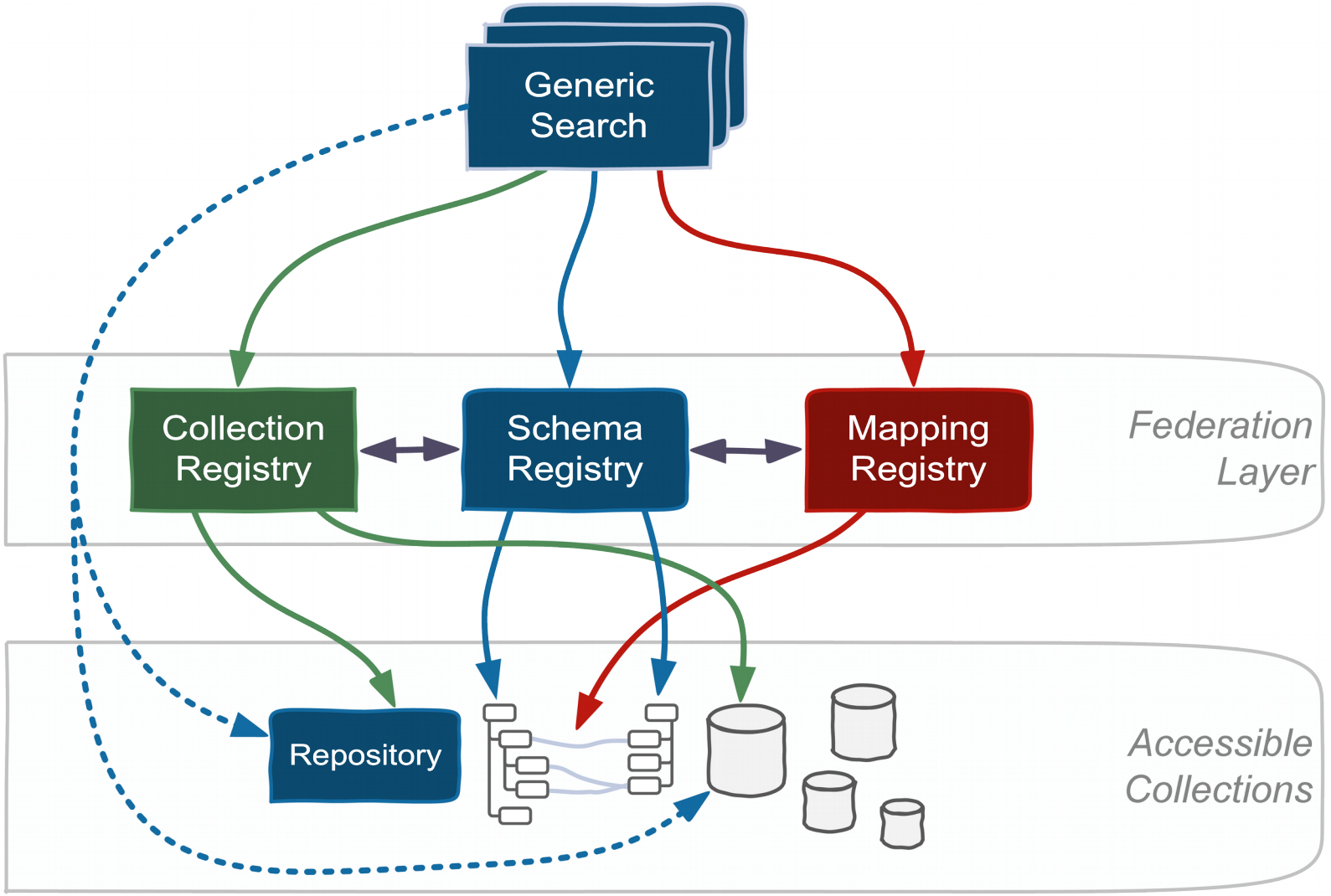
Tobias Gradl
Applied Computer Science Group
University of Bamberg
tobias.gradl@uni-bamberg.de

Agenda

- *Metadata Infrastructure in CLARIN*

  (CMDI, Component Registry, OAI-PMH, VLO, Metadata Curation ...)
- Metadata Infrastructure in DARIAH-DE
- General Thoughts
- Steps to a MD Federation
- Conclusion

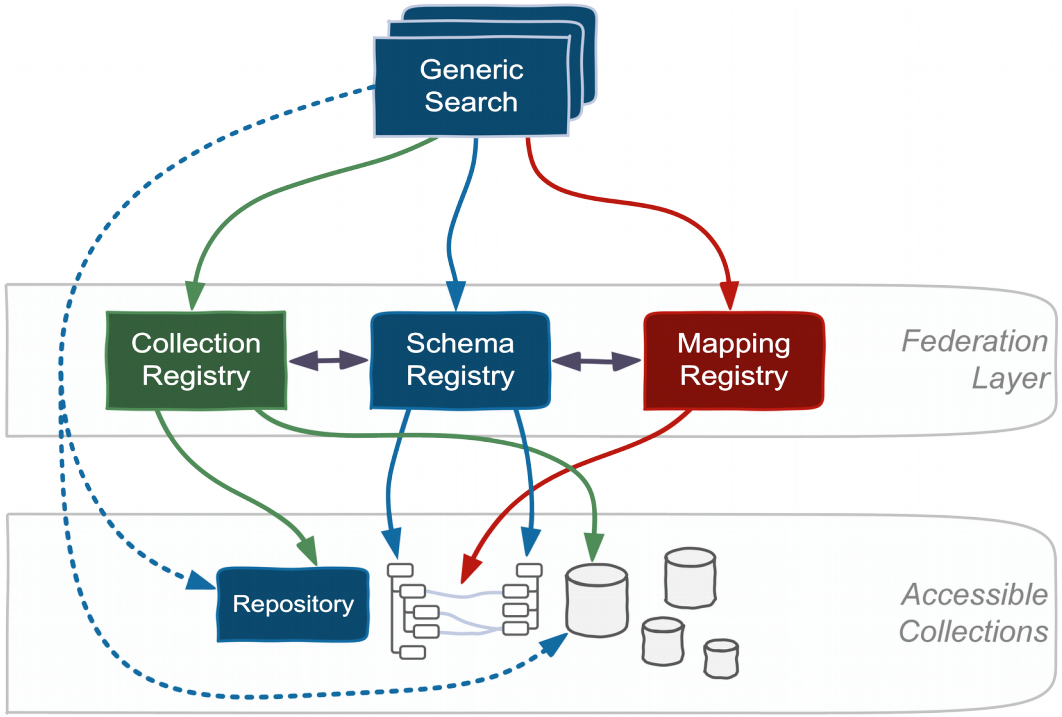
DARIAH-DE MD Infrastructure: The big picture



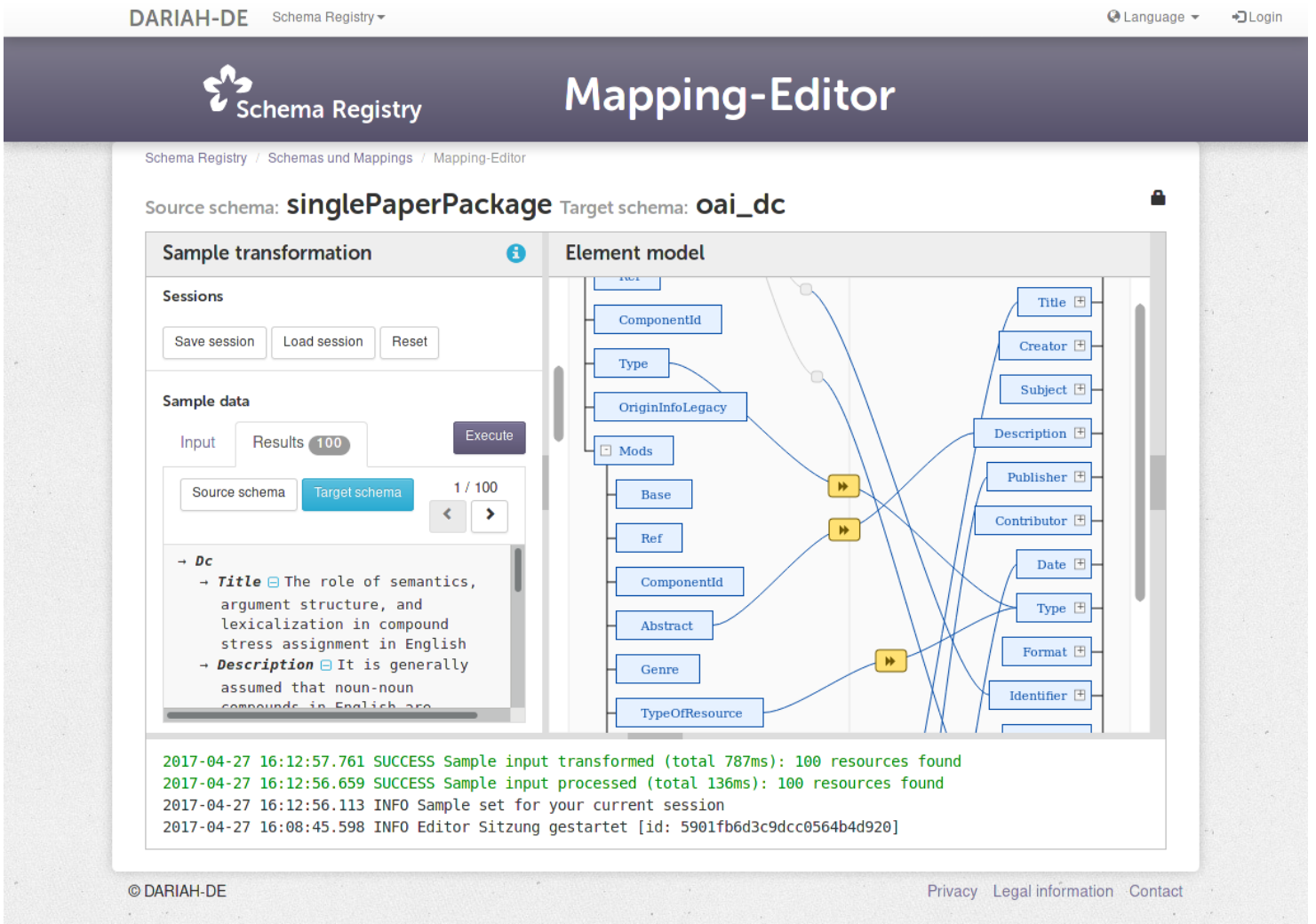
DARIAH-DE MD Infrastructure: Differences and Analogies

- No central integration model, but “semantic clusters”
- Integration models are generated according to needs of particular research questions
- Larger perspective: mapping to more generic schemata

DARIAH-DE	CLARIN
Collection	*~ Centre*
Collection Registry	Centre Registry
Schema Registry	CMDI Component Registry
Mapping Registry	*None, implicit via ConceptLinks*
Generic Search	VLO



DARIAH-DE MD Infrastructure: Mapping Registry



URL: *http://schereg.de.dariah.eu/*

General Thoughts

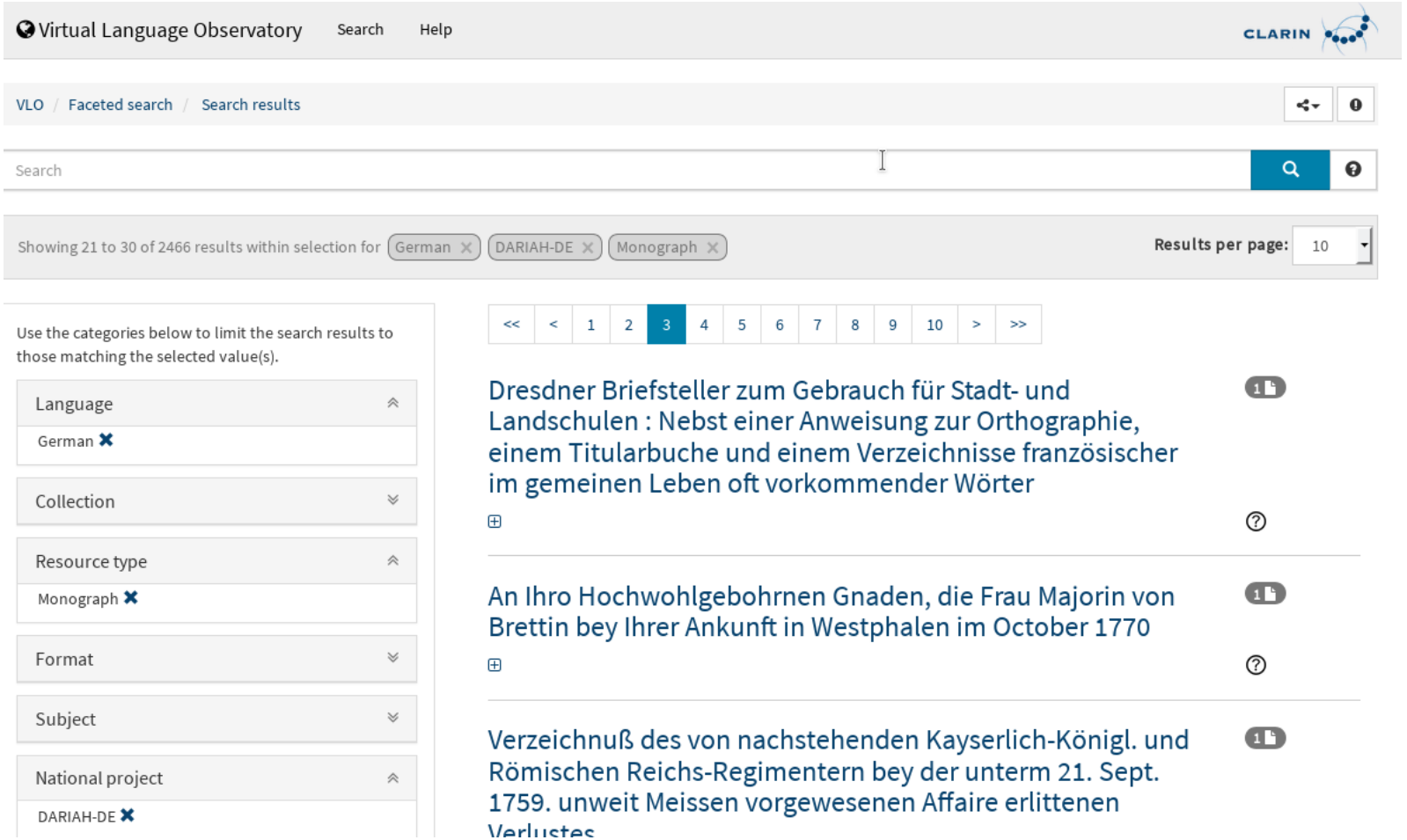
- Design decision reflect characteristics of the targeted research communities
- As a consequence, implemented solutions differ in their architecture and functionality
- Basic assumption: both metadata infrastructures are *optimized* for their specific use cases and user groups

  → **No need for another interoperability layer, reusing and combining functionality instead**

Steps towards a MD Federation: DARIAH-DE → CLARIN

- Central interface: Dublin Core via OAI-PMH
- CLARIN MD Harvester already capable of transformation to CMDI; test harvests
- Acceptable (but still suboptimal) results in VLO
- Minor changes in VLO vocabulary mappings
- Problematic:
  - (Missing) License information
  - Resource links usually “Landing pages”

Steps towards a MD Federation: DARIAH-DE → CLARIN

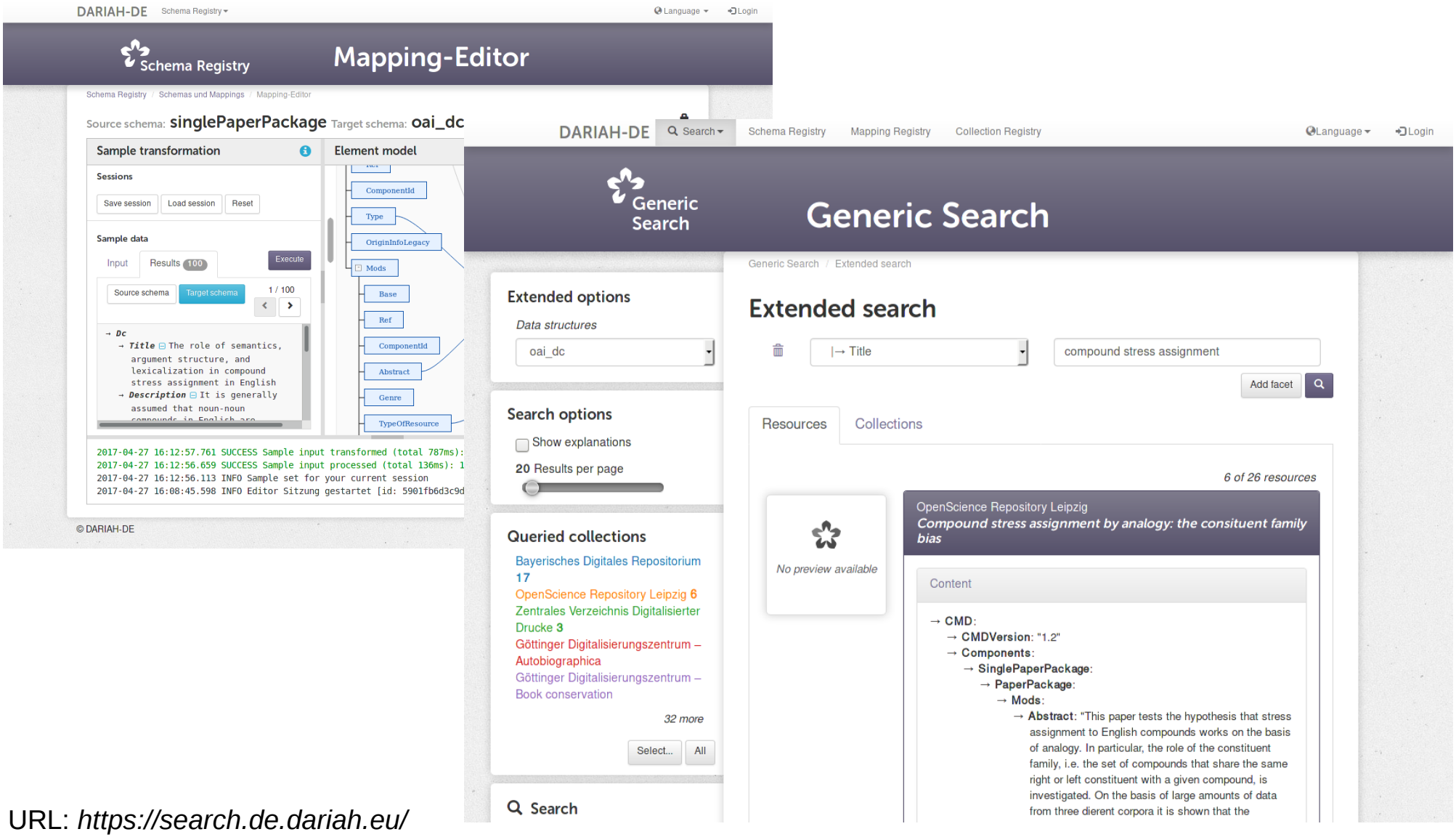


URL: *http://clariah.informatik.uni-leipzig.de/vlo/?fq=nationalProject:DARIAH-DE*

Steps towards a MD Federation: CLARIN → DARIAH-DE

- Import of CMDI schema in Schema Registry
- Manual creation of mappings CMDI ↔ Dublin Core
- Creation of test collections in Collection Registry for CLARIN OAI-PMH endpoints
- Import in Generic Search

Steps towards a MD Federation: CLARIN → DARIAH-DE



URL: *https://search.de.dariah.eu/*

Conclusion

- No major obstacles (but open work on details); still prototypical implementation
- Potential of mutual re-use of infrastructure components
  - Mapping registry: making relations between (CMDI) schemas explicit?
  - (Semi-)automatic import of schemas between CR and SR?
  - Metadata curation workflow for DARIAH-DE resources?
- Main problem: outstanding decision about relevant resources that should be imported in production systems

Thank you!

Questions? Remarks?

More information about MD in DARIAH-DE?

- Tobias Gradl and Andreas Henrich. 2015. *A novel approach for a reusable federation of research data within the arts and humanities*. Digital Humanities 2014: Book of Abstracts. Lausanne, CH: 382–384.