



BIBFRAME at Springer Nature

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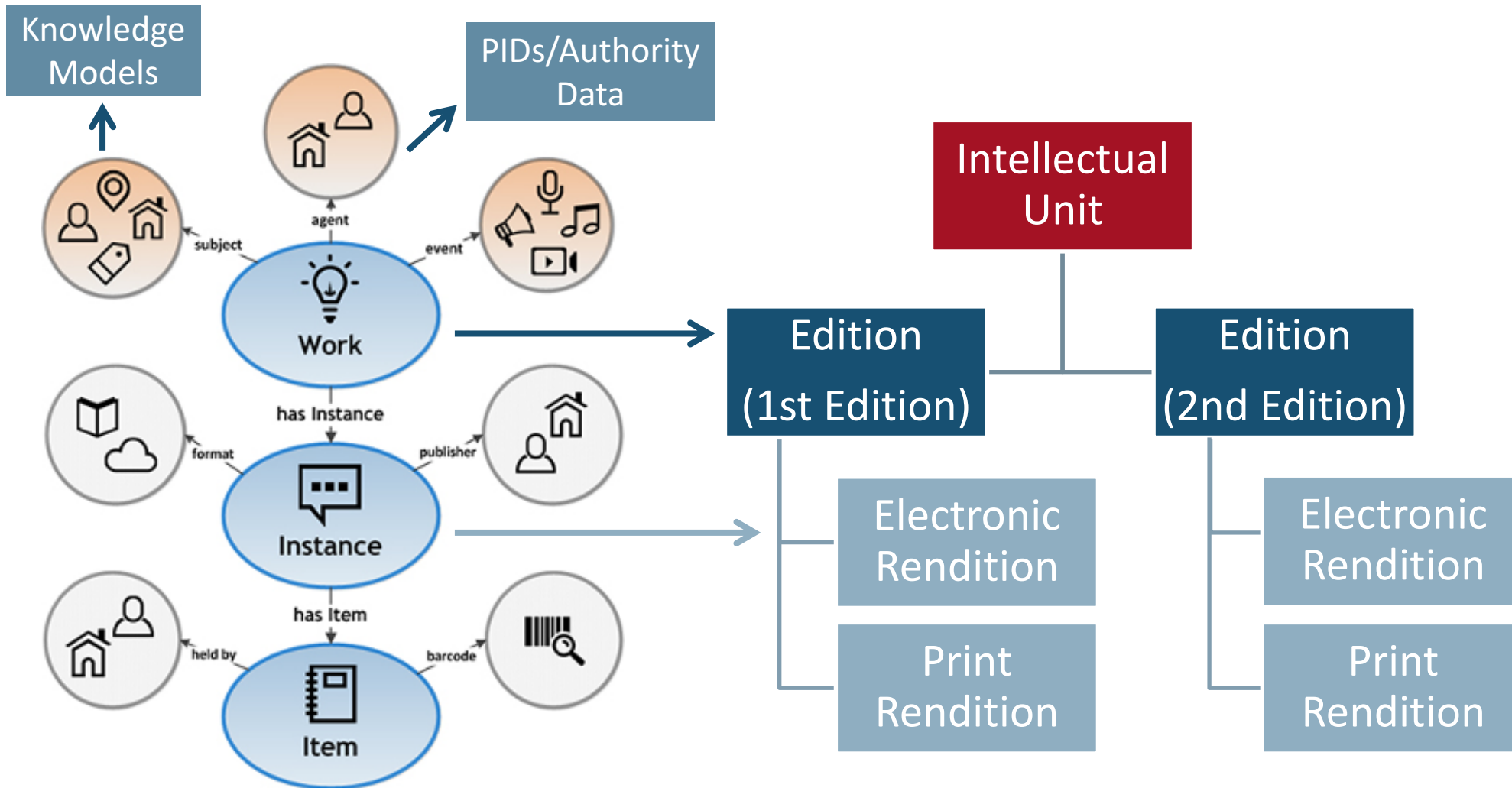
Motivation: Why BIBFRAME?

- **Linked Open Data (LOD) is central to our metadata activities**
 - Springer Nature SciGraph
(<https://www.springernature.com/cn/researchers/scigraph>)
- **Support Library Linked Data**
 - Provision increasingly requested by the library community
 - Expert feedback (e.g., SN Metadata Advisory Board, DNB, Canadian Linked Data Initiative)
- **Overcome the risk of data silos**
 - Library Linked Data vs. “webbish” LOD: aim at combining both worlds by our approach
 - Use and link to common vocabularies
 - Collaborate with the relevant communities



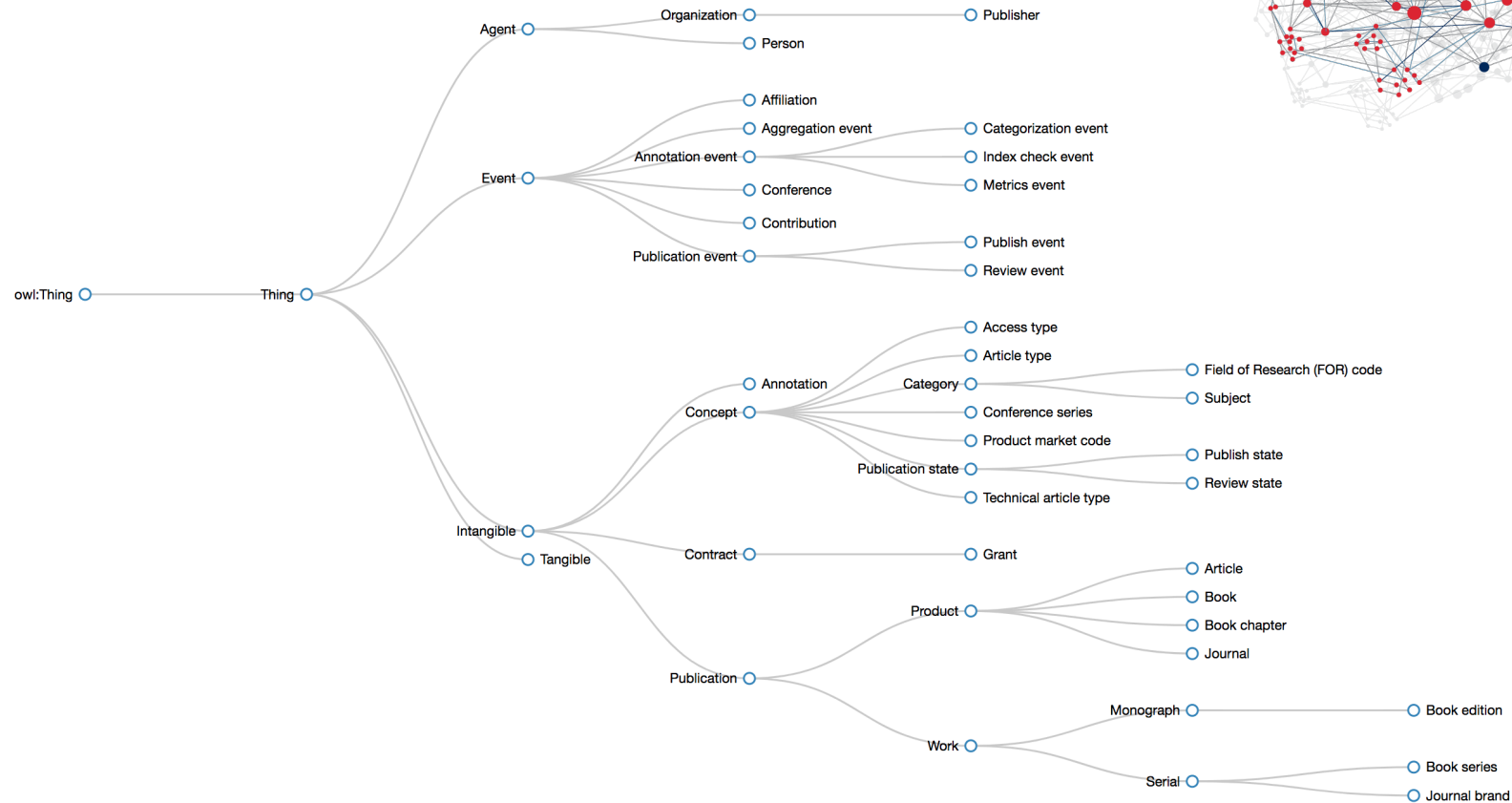
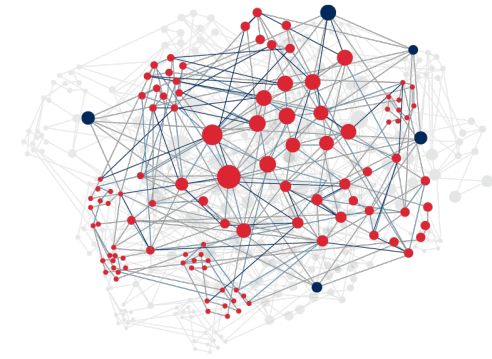
Source: <https://www.slideshare.net/rjw/linked-data-in-libraries-44273837>
(Richard Wallis: “Linked Data in Libraries”)

Approach at Springer Nature: native BIBFRAME provision



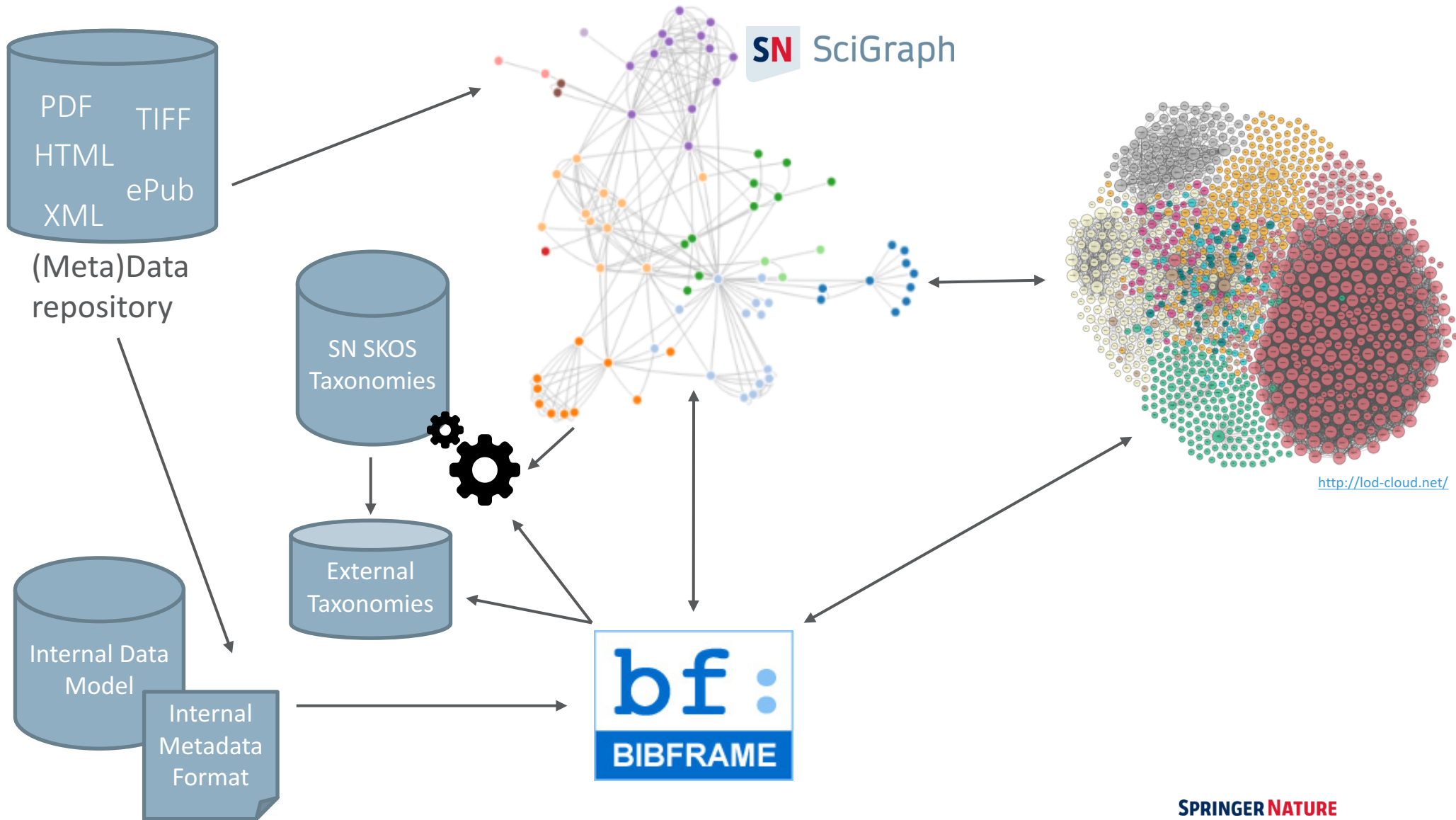
<http://www.loc.gov/bibframe/docs/bibframe2-model.html>

Springer Nature SciGraph: core ontology

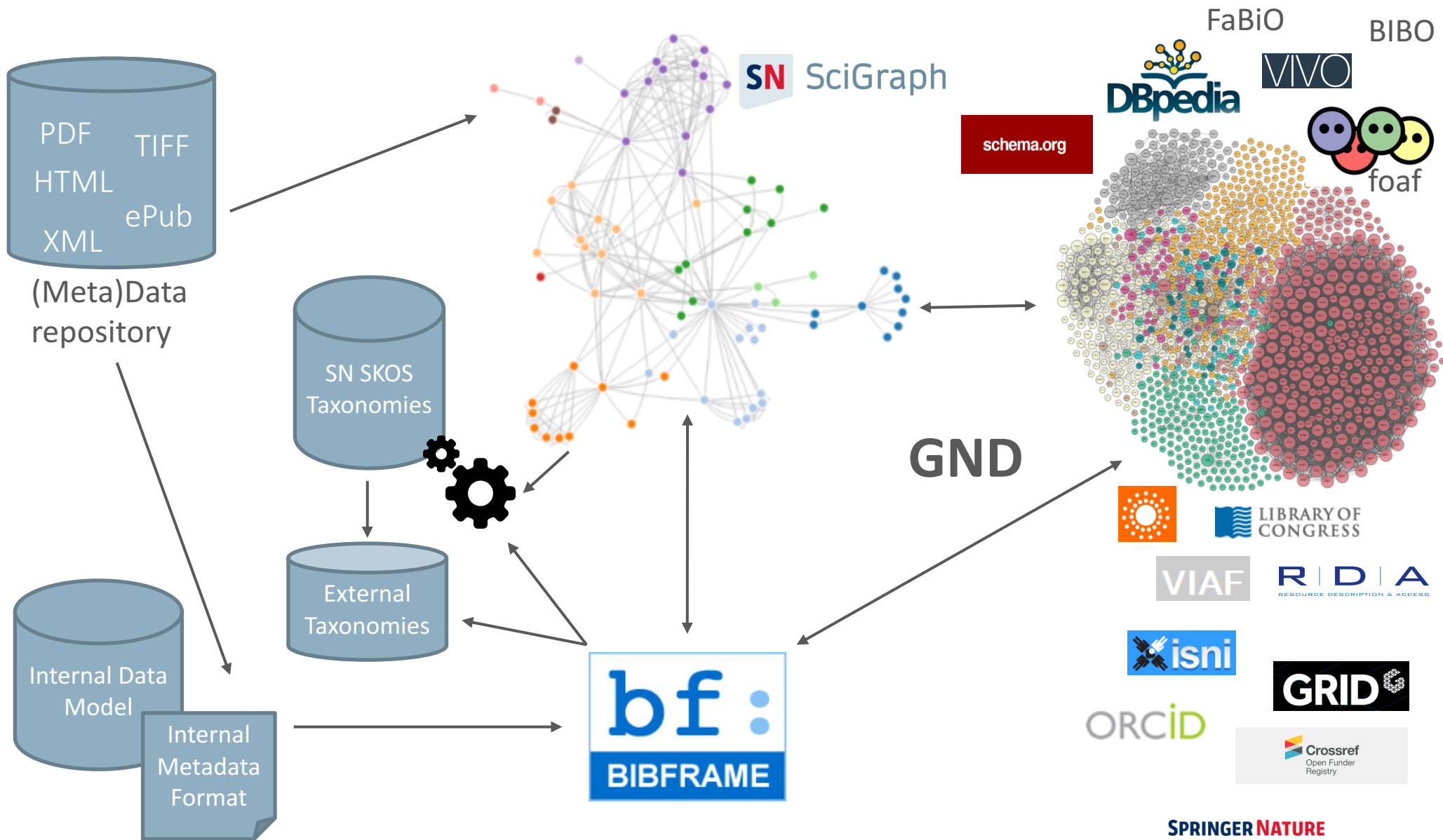


- Model makes distinctions similar to BIBFRAME (i.e., distinction between product level & Work)
- Internally developed ontology that is being aligned with external vocabularies (e.g., BIBFRAME, schema.org)
- Access: <https://github.com/springernature/scigraph/>

High-level BIBFRAME generation process

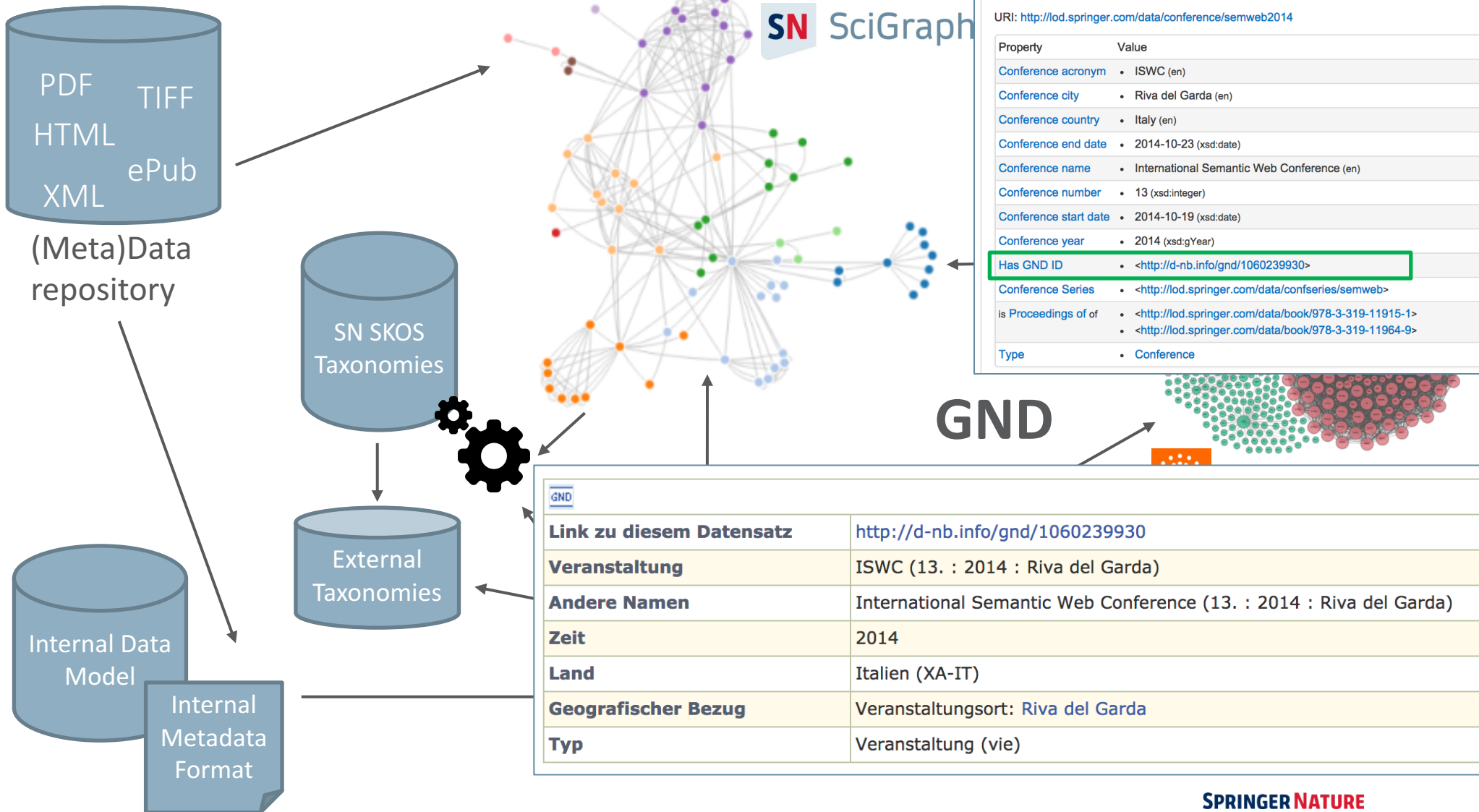


High-level BIBFRAME generation process



High-level BIBFRAME generation process

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What's next?

- Finish BIBFRAME implementation
- Gradual data publication
 - Download BIBFRAME (Work, Instance) in different serializations
 - Query APIs, endpoints
 - Alignment with SN SciGraph
- Continuous enhancement
 - Increase URI coverage
 - Mapping to additional external vocabularies
- Collaboration with the library community
 - User testing and feedback
 - Data provision



Conclusion: our view on BIBFRAME so far

- Continue our current approach:
 - Own Springer Nature core ontology
 - Linking to external vocabularies
 - Making BIBFRAME available

- BIBFRAME 2.0 is moving into the right direction
 - But: still a way to go to become a widely-adopted standard:
 - Linking from strings to things
 - Current implementations often too MARCish

 - What it needs:
 - Advocates and implementers
 - Collaboration within the LOD community
 - Involvement in the development of the vocabulary

Thank you!



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Appendix

Approach at Springer Nature

- **Laying the foundations**
 - Semantically enriched metadata
 - Introduction of persistent identifiers (PIDs) for entities such as persons, funders, organizations, and events (i.e., conferences)
 - Use of knowledge models (ontologies, taxonomies), URIs
 - Making Linked Data key to our data infrastructure
- **BIBFRAME generation**
 - No direct conversion from MARC to BIBFRAME
 - Instead: native BIBFRAME provision
 - Based on internal data models and knowledge models
 - Re-use of PIDs, URIs, data from SN SciGraph