LD4PE: Construction, application and maintenance of a Competency Index for teaching and learning Linked Data

Project Introduction

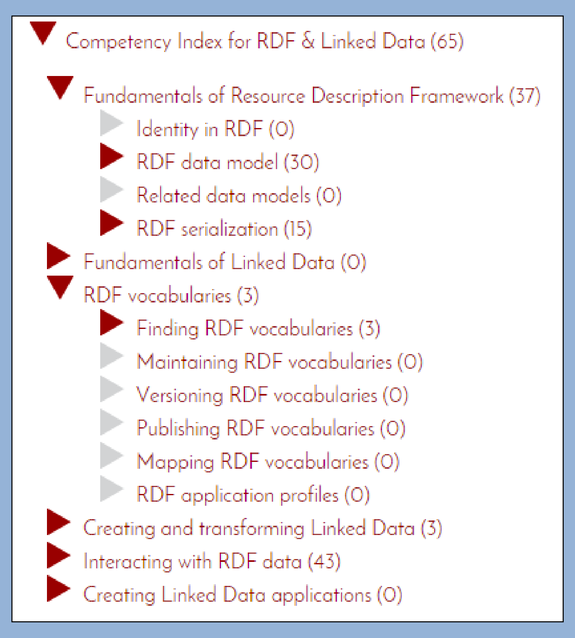
The Linked Data for Professional Educators project is a project managed by the Education & Outreach Committee of the Dublin Core Metadata Initiative (DCMI). The genesis of the project was a project out of the University of Washington called Learning Linked Data. That project sought use cases and validation for the creation of a core set of competencies that would assist educators, employers, and learners assess proficiency in Linked Data.

The project will have two major outcomes:
- A Competency Index for learning Linked Data.
- A collection of learning resources that are cataloged against a metadata schema that will be

Each outcome will serve as starting places that will be sustained by Dublin Core as part of its education and outreach mandate.

Competency Index

The Competency Index for Linked Data is comprised of a set of topically arranged assertions of the knowledge, skills and habits of mind required for professional practice in the area of Linked Data. The Competency Index has been compiled by the LD4PE Editorial Board comprised of practitioners, educators, and other experts in the various fields.

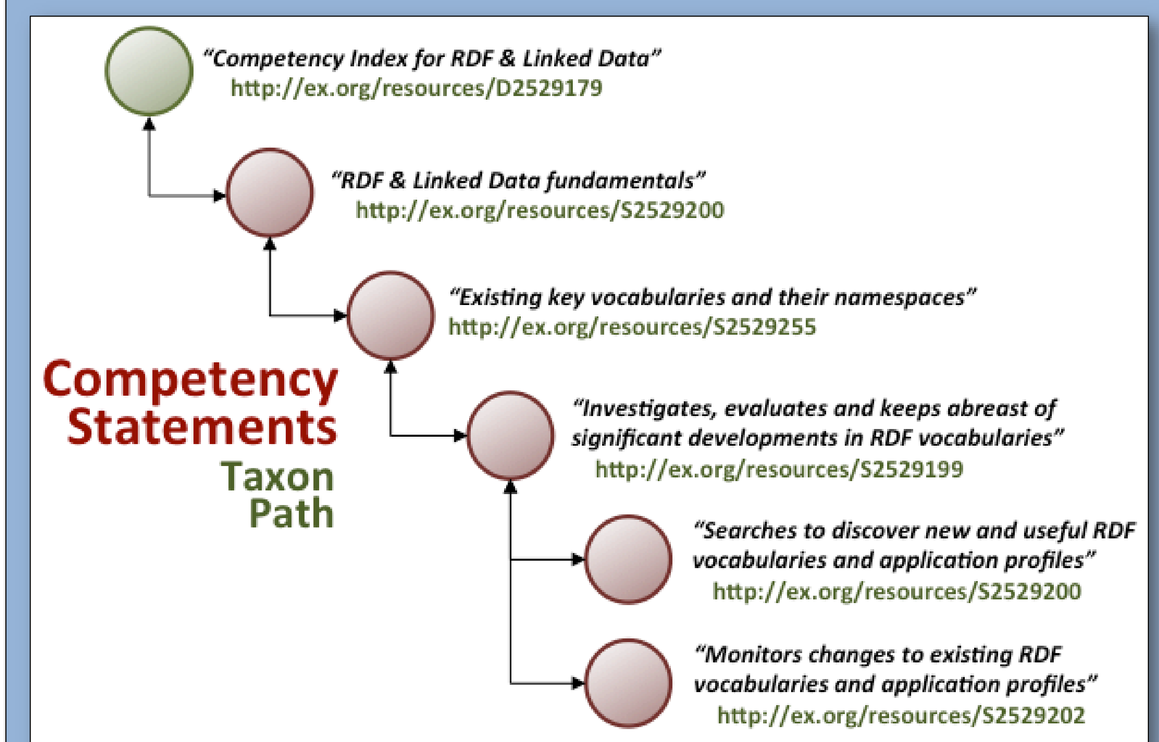


In its current state (December 2016), the Competency Index has six top-level categories:

- Fundamentals of Resource Description Framework (RDF)
- Fundamentals of Linked Data
- RDF vocabularies
- Creating and transforming RDF Data
- Interacting with RDF Data
- Creating Linked Data applications

Eating our own dog food

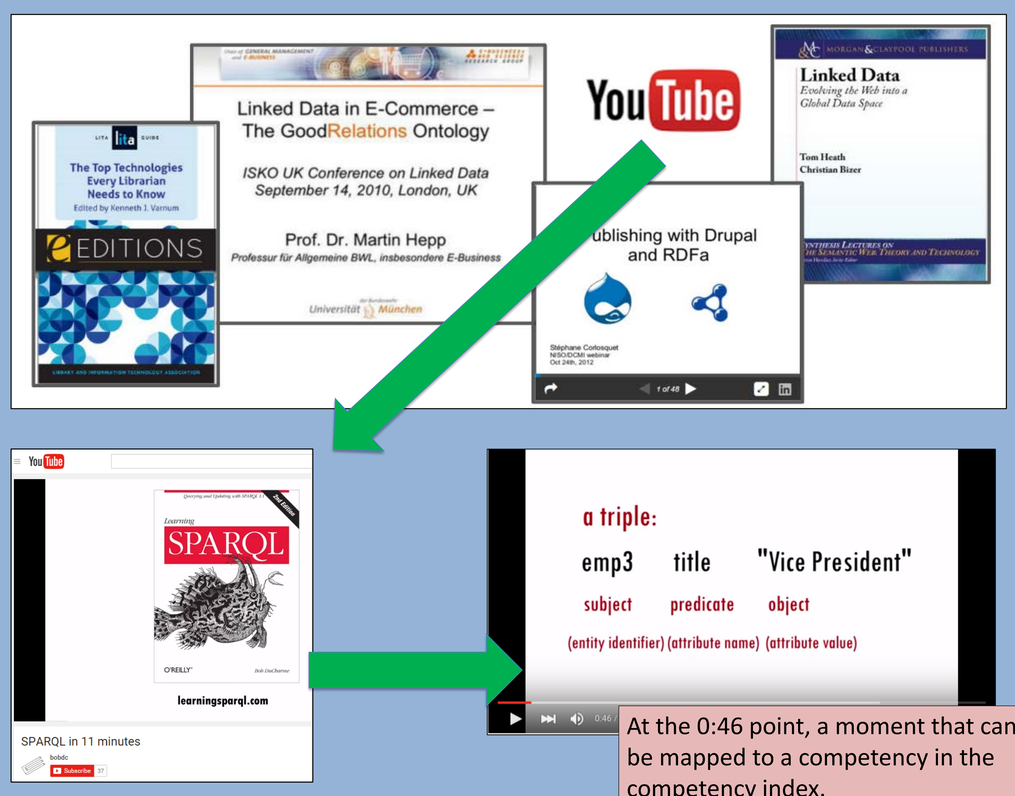
The competency index is maintained using Linked Data and RDF principles. Learning topics are identified by URIs that enable interoperability with the project's editorial and cataloging tools.



Community feedback on the Index Development

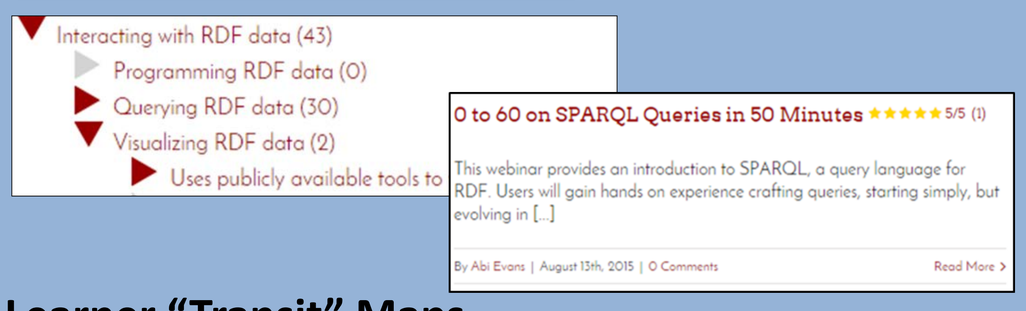
In an effort to keep the Competency Index for Linked Data current and relevant for instructors and learners, the LD4PE project is utilizing tools and methods for open submission of candidate competencies. Final decisions will be made by a Competency Index Editorial Board. Tools such as GitHub, and Google Docs are being used to gather candidate topics or assertions and enable their subsequent public evaluation.

Cataloging of Learning Resources: Mapping Resources to Competencies



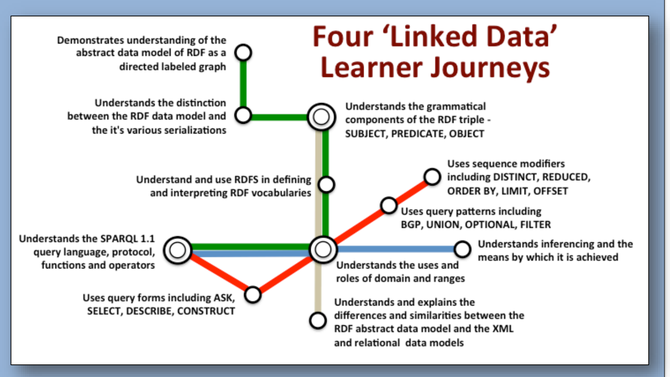
Because Learning Resources are identified by URI, they can be linked and mapped to the knowledge and skills captured in the Competency Index.

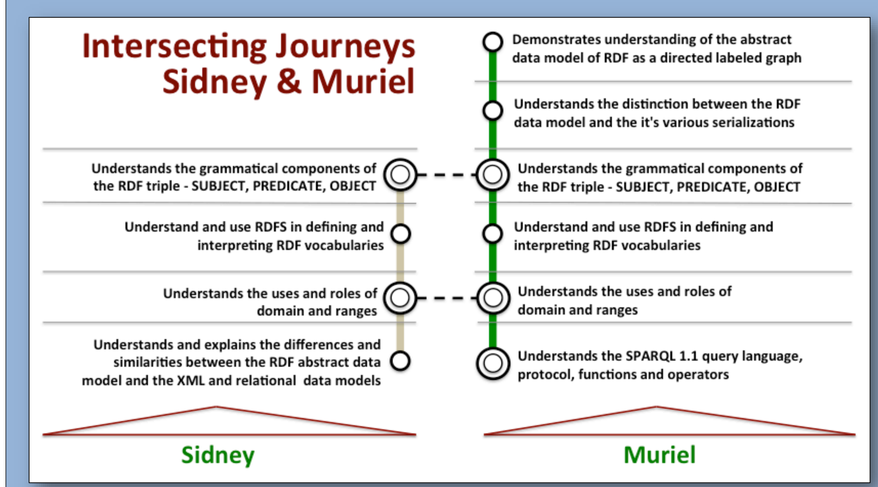
Exploratorium of Learning Resources



Learner "Transit" Maps

LD4PE does not advocate or define one curriculum for learning Linked Data. Educators, students, and career learners will be expected to approach Linked Data with different skill sets and needing to learn different aspects of it.





Instead, learners will more likely piece together their own path based upon modules that they can Identify in the Competency Index

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