

Linked Data for Professional Education

LD4PE

INSTITUTE of
Museum and Library
SERVICES

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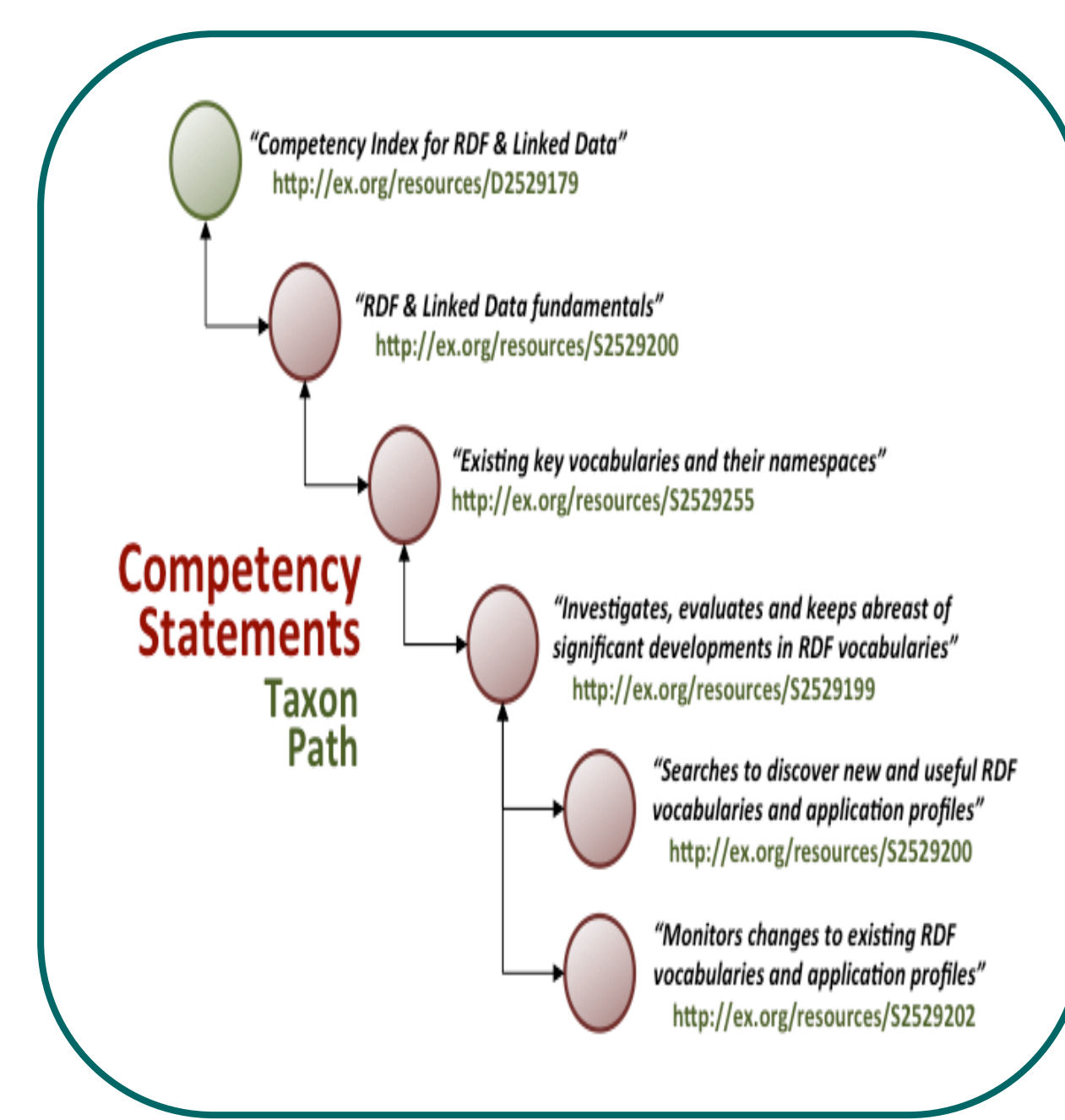
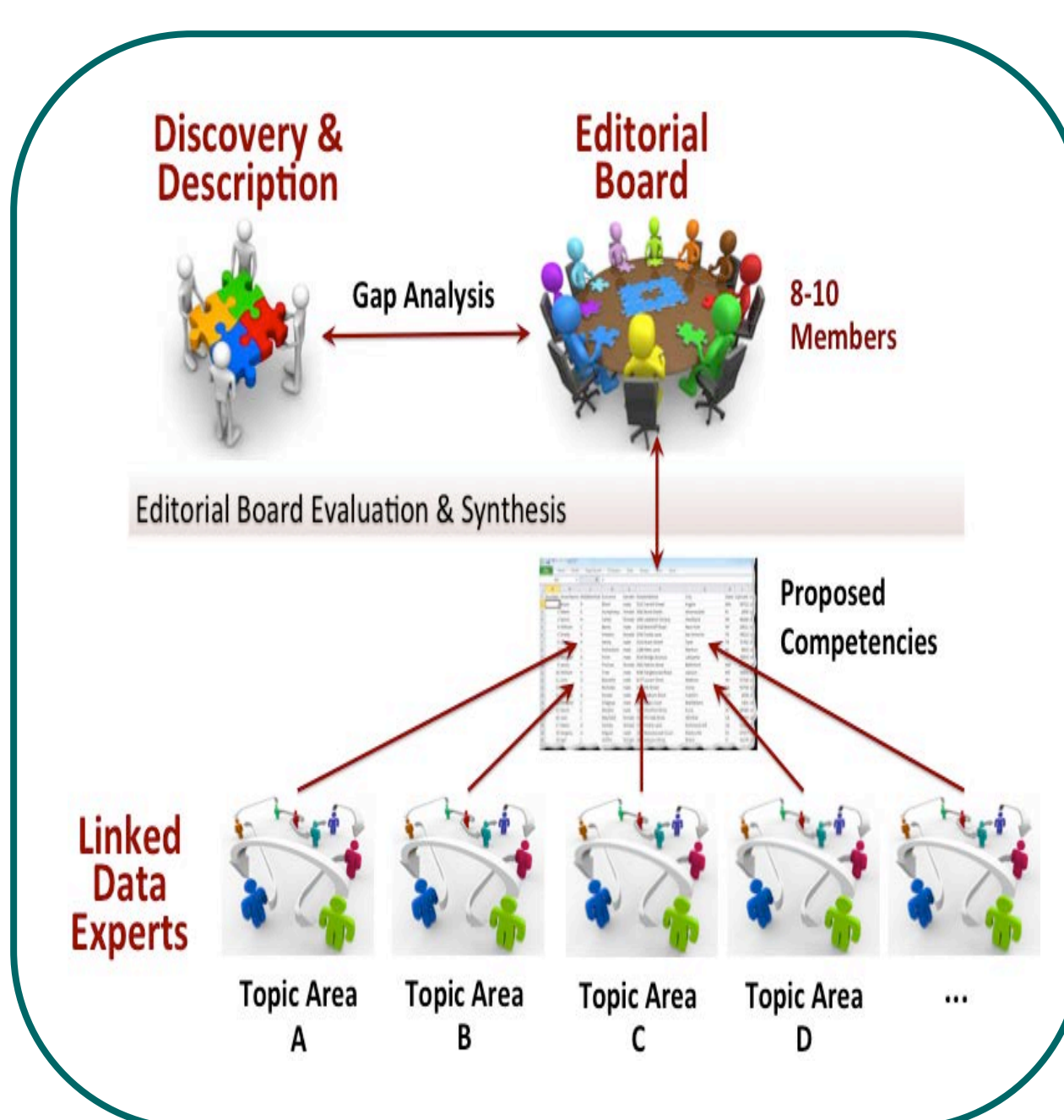
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Linked Data Exploratorium

The LD4PE project is developing a **Web-based, Linked Data Exploratorium website** to support for the structured discovery of the learning resources available online through both open and commercial providers.

Competency Index Development

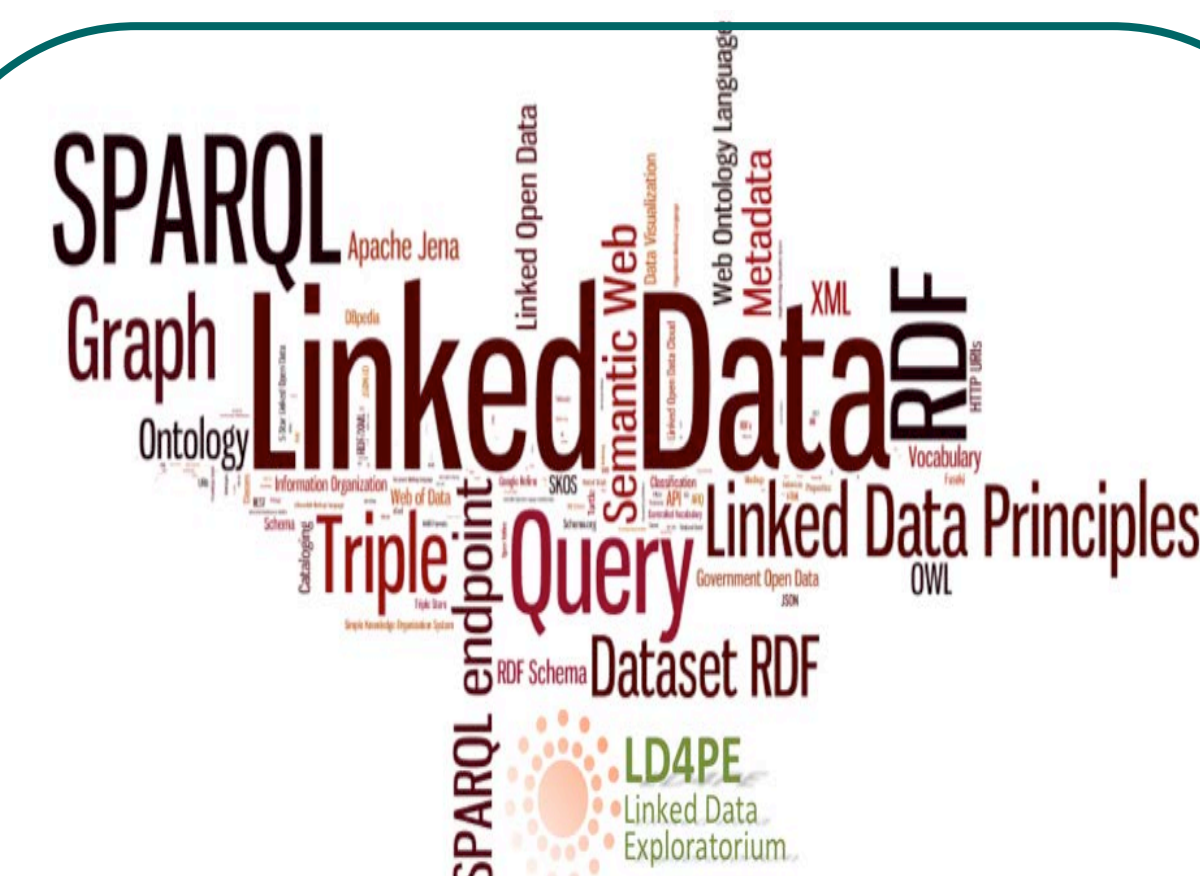


Competency Index structure:

Topical Cluster » Topic » Competency » Benchmark

The Competency Index (CI) 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.

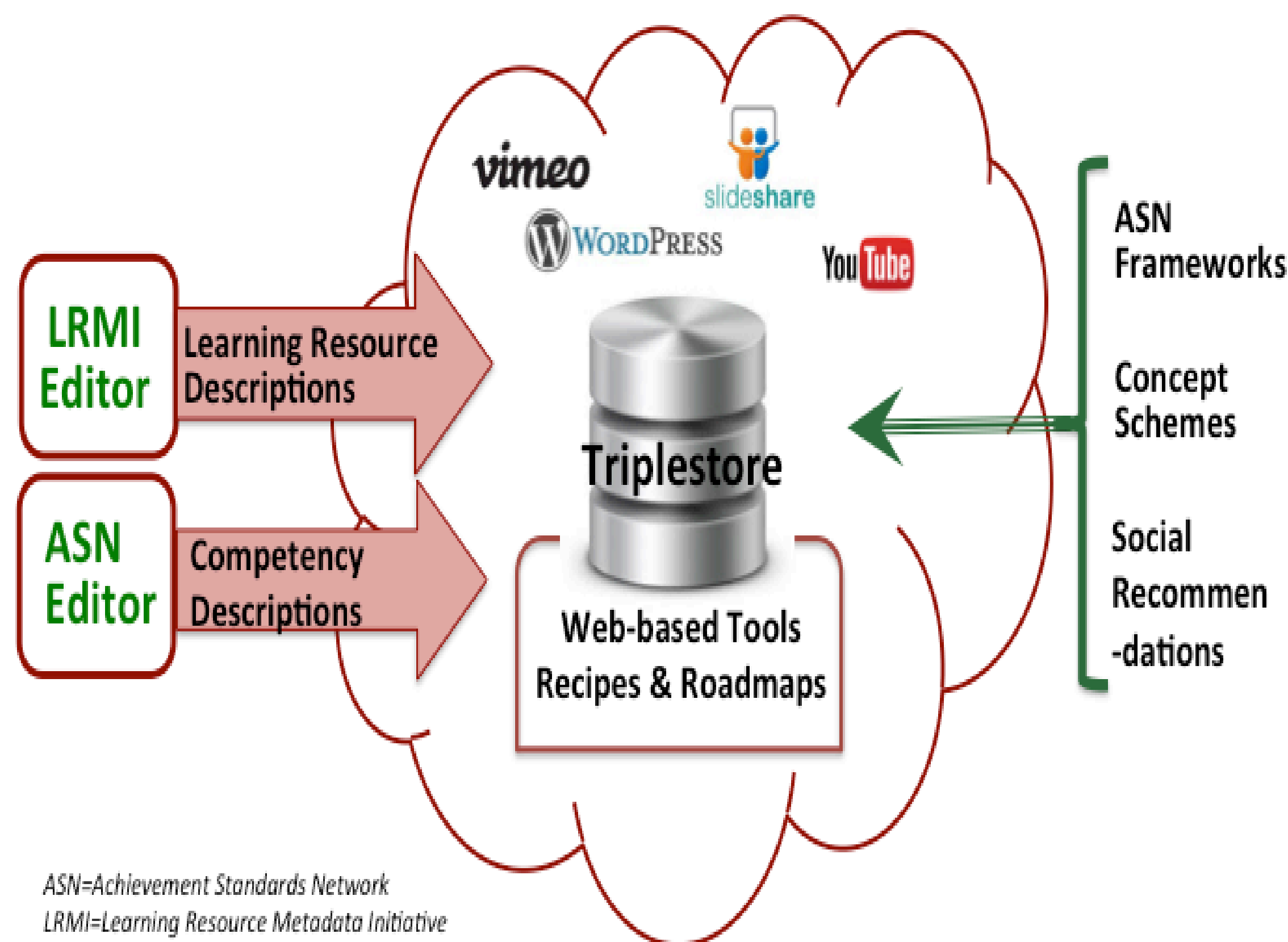
Learning Resources



- ✓ curricular structures and syllabi
- ✓ packages of "how-to" videos
- ✓ step-by-step instructions
- ✓ tools and codes prepared for exercises

The Architecture

At the heart of the Exploratorium is a **competency framework** for Linked Data practice that supports indexing **learning resources** according to the specific competencies they address.



ASN=Achievement Standards Network
LRMI=Learning Resource Metadata Initiative

The *Exploratorium* is leveraging Linked Data technology by modeling in RDF and assigning global identifiers (URIs) to statements of competence, and then using those URIs to map learning resource metadata to nodes in the Index.

Deliverables of the LD4PE project

- **Competency Framework.** RDF-modeled "Competency Index for Linked Data" (Index) based on the Achievement Standards Network Description Language (ASN-DL) for describing formally promulgated competencies and benchmarks.
- **Toolkit.** An openly available, web-based tool set to support the: (a) generation of RDF metadata describing learning resources; and (b) creation of learner trajectory maps expressing curricular structures or personal learning journeys superimposed over the competency framework.
- **Learning Resource Descriptions.** A set of cataloged learning resources that have been mapped to the competencies and benchmarks of the Index to support competency-based resource discovery by teachers, trainers and learners.
- **Exploratorium.** A website to be managed by DCMI as part of its educational agenda for open discovery of competency-based learning resources, access to the toolkit, learner maps, and supporting resources.
- **Best Practices.** Readily accessible best practice documentation for all processes, from community-based competency framework development and LR description through learner trajectory creation.

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