

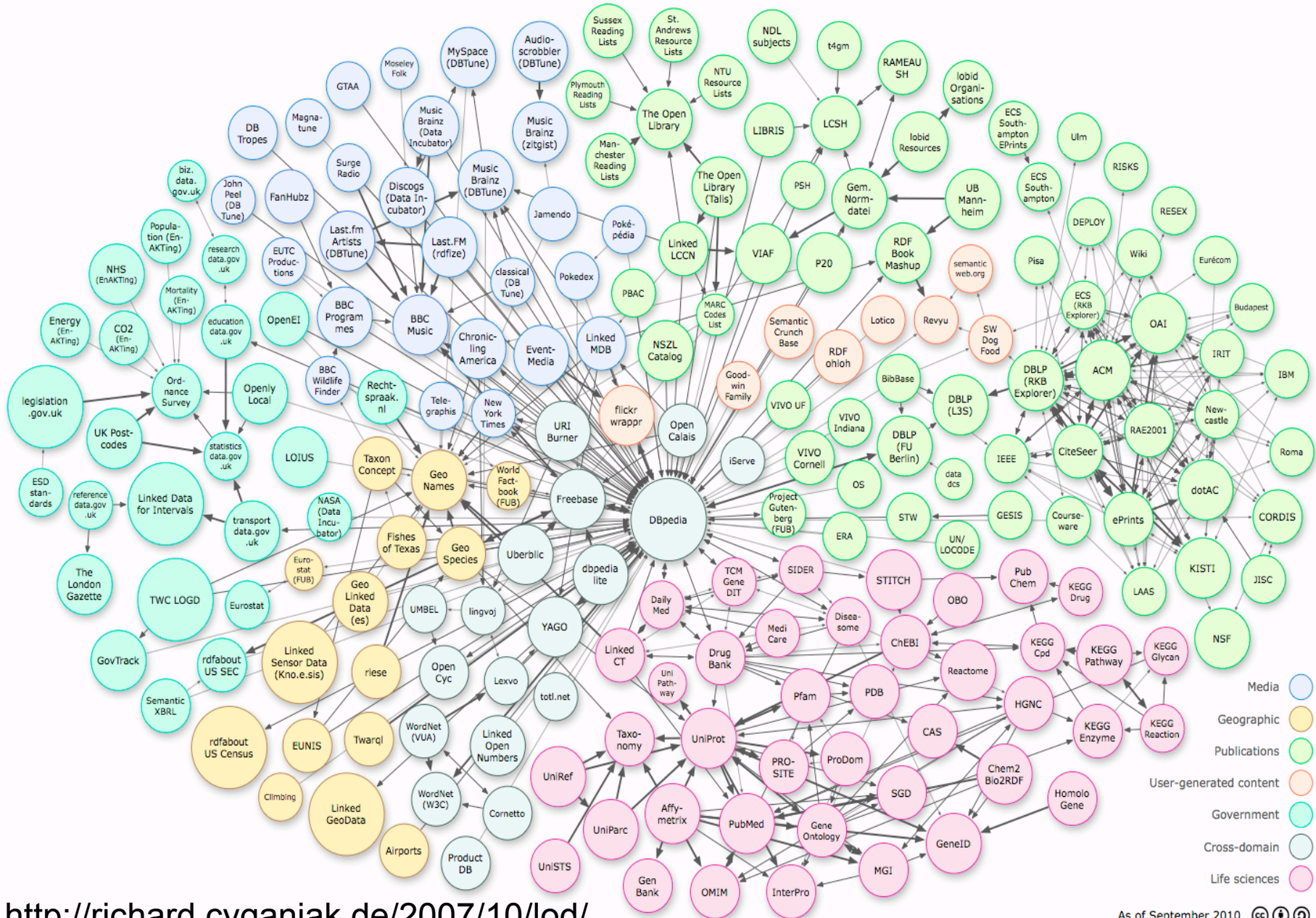
# Linked Data: Enabling Standards and Other Approaches

Organized by the ASIST Standards Committee  
Organizers: Marcia Zeng and Mark Needleman

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# Linking Open Data -- dataset cloud (as of 2010-09, dataset: 203)



# Linked Data Principles

- Use URIs to identify things.
- Use HTTP URIs so that these things can be referred to and looked up (“dereferenced”) by people and user agents.
- Provide useful information about the thing when its URI is “dereferenced,” using standard formats such as RDF/XML.
- Include links to other, related URIs in the exposed data to improve discovery of other related information on the Web.
- Tim Berners-Lee, <http://www.w3.org/DesignIssues/LinkedData>



# Some Key Standards Areas

- Unique Identification
- Protocols for Look Up
- Common Formats, including Serialization
- Useful Information (metadata) about the “Thing”
- Relations between “Things”

# Presentations and Speakers

- ISO/IEC JTC 1/SC 34 (for Document Description and Processing Languages standards related to structured markup languages) [2] and ISO TC46/SC9 (Identification and Description) [3] activities updates; the second edition of Web Ontology Language (OWL2) [4] -- by Sam Oh.
- W3C's SKOS and SKOS XL – by Jon Phipps [5]
- W3C's RDFa which is actively being refined [6] and has generated significant fresh usage activities – by Ed Summers.
- NISO I2 (Institutional Identifiers) [7] – by Mark Needleman and Jody DeRidder
- W3C Library Linked Data Incubator Group (LLD XG) [8] progress – by Marcia Zeng, Jon Phipps, and Ed Summers.
- [reference notes on next slide]



# References

- [1] Linked Data. <http://linkeddata.org/>
- [2] JTC 1/SC 34 - Document Description and Processing Languages <http://www.itscj.ipsj.or.jp/sc34/>
- [3] ISO TC46/SC9 - Identification and Description [http://www.iso.org/iso/iso\\_technical\\_committee.html?commid=48836](http://www.iso.org/iso/iso_technical_committee.html?commid=48836)
- [4] OWL 2 Web Ontology Language Document Overview <http://www.w3.org/TR/2009/REC-owl2-overview-20091027/>
- [5] W3C SKOS Simple Knowledge Organization System Reference <http://www.w3.org/TR/skos-reference/>
- [6] W3C RDFa Working Group Document Development Area <http://www.w3.org/2010/02/rdfa/drafts/>
- [7] NISO I2 (Institutional Identifiers) Working Group <http://www.niso.org/workrooms/i2>
- [8] W3C Library Linked Data Incubator Group <http://www.w3.org/2005/Incubator/ld/>