

Director of Research: What is Linked Open Data?

The semantic web refers to a global collaborative initiative, led by the World Wide Web Consortium (W3C), to utilize standard technologies to support a "web of data" (for more information, see: <http://www.w3.org/standards/semanticweb/>). The "web of data" is also known as Linked Data - data represented in the Resource Description Framework (RDF) and matched to authoritative vocabularies and ontologies published on the web. Linked Data allows distributed resources to be part of a global, federated database.

GeoLink project

WHOI is partnering with several other research organizations in the GeoLink project, supported by NSF:

EarthCube Building Blocks: Collaborative Proposal: GeoLink - Leveraging Semantics and Linked Data for Data Sharing and Discovery in the Geosciences

[Link to NSF Award](#)

[Link to Science News 18 December 2014](#)

The GeoLink project brings together significant geosciences holdings in the ocean, earth and polar sciences to demonstrate how innovative technologies can be robustly applied to these facilities to enhance the capabilities for scientists to discover and interpret relevant geoscience data and knowledge. The project will lower barriers to cross-repository data discovery and access, while respecting and preserving repository autonomy and heterogeneity.

Partners include:

Columbia University, Consortium for Ocean Leadership, Wright State University, Marymount University, and University of California-Santa Barbara.

"Linked Data: An Oceanographic Perspective" presented at 2013 International Conference on Marine Data and Information Systems:

[Link to video of Adam Leadbetter's talk](#)

[Link to slides](#)

Leadbetter, A., R. Arko, C. Chandler, A. Shepherd and R. Lowry. 2013. "Linked Data: An Oceanographic Perspective". The Journal of Ocean Technology 8(3). [Sep.-Dec. 2013](#).

Videos that describe "Linked Open Data" in general:

[Link to YouTube video](#) from Europeana (Europe's multilingual digital library, museum and archive)

[Link to YouTube video](#) by Manu Sporny (Founder/CEO of Digital Bazaar)

Link to video more specific to [Linked Data for libraries](#)

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