

The Data Conservancy: Lessons from Astronomy

Third Workshop on Data Preservation
and Long Term Analysis in HEP

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Data Conservancy

- One of two awards through US National Science Foundation (NSF) DataNet program
- Led by Sheridan Libraries at Johns Hopkins University
- Goal of DataNet program is to build sustainable data curation infrastructure
- Next round of DataNet will add three more partners into the network

Data Curation

The Data Conservancy embraces a shared vision: data curation is not an end, but rather a means to collect, organize, validate, and preserve data to address grand research challenges that face society.

Goal

The overarching goal of DC is to support new forms of inquiry and learning to meet these challenges through the creation, implementation, and sustained management of an integrated and comprehensive data curation strategy.

Understanding Infrastructure: Dynamics, Tensions, and Design



Report of a Workshop on “History & Theory of Infrastructure: Lessons for New Scientific Cyberinfrastructures”

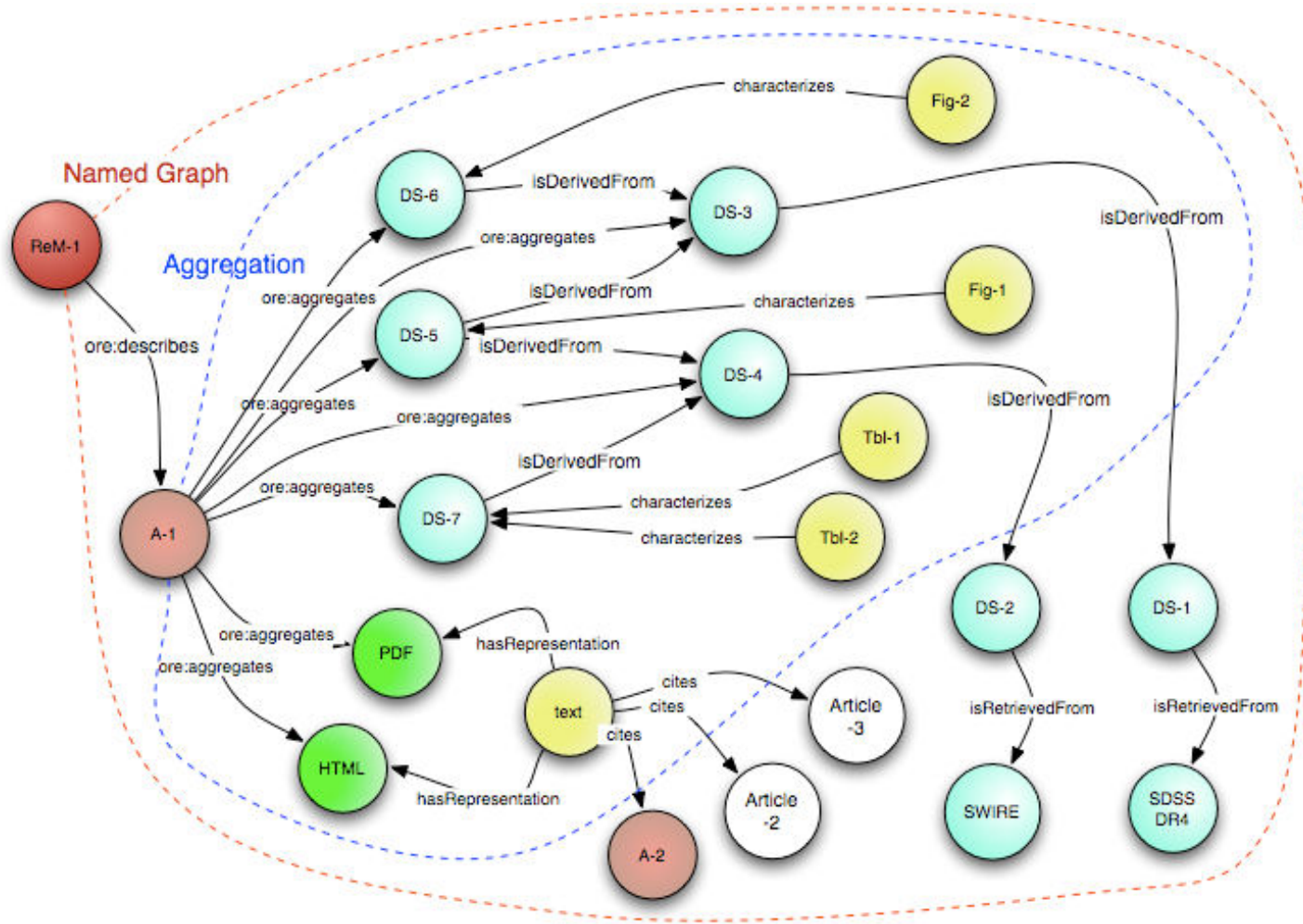
Paul N. Edwards
Steven J. Jackson
Geoffrey C. Bowker
Cory P. Knobel

January 2007



...not a rigid road map but principles of navigation. There is no one way to design cyberinfrastructure, but there are tools we can teach the designers to help them appreciate the true size of the solution space – which is often much larger than they may think, if they are tied into technical fixes for all problems.

Data Model using OAI-ORE



Domain coverage/methods

- Multi-site user research methods are a blend of:
 - Case study & domain comparisons
 - Depth & breadth
 - Local & global

	Astronomy	Life Sciences	Earth Sciences	Social Sciences	
UCAR	Task-based design and usability testing ⇒ Use cases, data requirements, system recommendations				UCAR
UCLA	Ethnography, virtual ethnography, oral histories ⇒ Use cases, data requirements	Interviews, Surveys, Worksheets, Content analysis ⇒ Curation requirements, taxonomy, metadata/provenance framework			UIUC

Sustainability

- Diversified portfolio of funding and perspectives
- Align with existing institutional priorities
- Leverage partners' sustainability mechanisms
- Focus on economies of scale and economies of scope
- Consider business requirements as equal to other requirements from inception of activity
- Incorporate findings from Blue Ribbon Task Force on Sustainable Digital Preservation and Access
- New roles for research libraries

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