Future Trends Panel
Repository Federation:
Towards Data Interoperability

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Presented at the Inter-institutional Approaches to Supporting Scholarly Communication Symposium

Georgia Institute of Technology - August 8, 2012
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Repositories and Data Publishing

- **NSF Initiatives**
  - DataNet and INTEROP/DIBBs Joint Meetings
  - EarthCube Community
  - IETF BOF on Data Set Identifier Interoperability (DSII)

- **National Academies Initiatives**
  - Board on Research Data and Information (BRDI)
  - Collaboration with DAITF/DWF
  - Global Scientific Data Infrastructures Symposium

- **EU Initiatives**
  - EUDAT
  - Data Access and Interoperability Task Force (DAITF)
  - Data Web Forum (DWF)
Towards A Shared Data Future

Data Generators

Users

Community Support Services

Common Data Services

User functionalities, data capture & transfer, virtual research environments

Data discovery & navigation, workflow generation, annotation, interpretability

Persistent storage, identification, authenticity (provenance), workflow execution, data mining

Source: EU HLEG Report on Data Deluge: *Riding the Wave*, pg 31, 2010
US Scientific Data Communities

- DataConservancy
- DataONE
- DFC
- SEAD
- IETF
- ACADEMIC PRESERVATION TRUST
- NSF
- DPN
- THE NATIONAL ACADEMIES
- ICPSR
- TERRA POPULUS
- DRYAD
- Institutional Repositories

DATA TO INSIGHT CENTER
INDIANA UNIVERSITY
Perceptive Technology Institute
Sustainable Environment Actionable Data (SEAD) - DataNet

• SEAD Strategy
  — Serve scientists and researchers in the “long tail” of science
  — Leverage social media for discovery of data, interest, and expertise
  — Move data curation upstream in the data life cycle of science
  — Take advantage of existing domain and institutional infrastructures (Institutional Repositories, ICPSR) for long-term preservation

SEAD Partners - http://sead-data.net
Further Discovery

Acknowledgements & disclaimer

• This work was supported in part by the Lilly Endowment, Inc. and the Indiana University Pervasive Technology Institute
• SEAD is funded by the National Science Foundation under cooperative agreement #OCI0940824
• Any opinions presented here are those of the presenter(s) and do not necessarily represent the opinions of any other funding agencies
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• Please cite as: McDonald, R.H. Repository Federation: Towards Data Interoperability. Inter-institutional Approaches to Supporting Scholarly Communication Symposium, Georgia Institute of Technology-Atlanta, GA, 8 August 2012. Available from: [http://slideshare.net/TbnEVQ]

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