

# COALITION ON PUBLISHING DATA IN THE EARTH AND SPACE SCIENCES:

## A MODEL TO ADVANCE LEADING DATA PRACTICES IN SCHOLARLY PUBLISHING



Source: NSF.gov

**DATA BEST**

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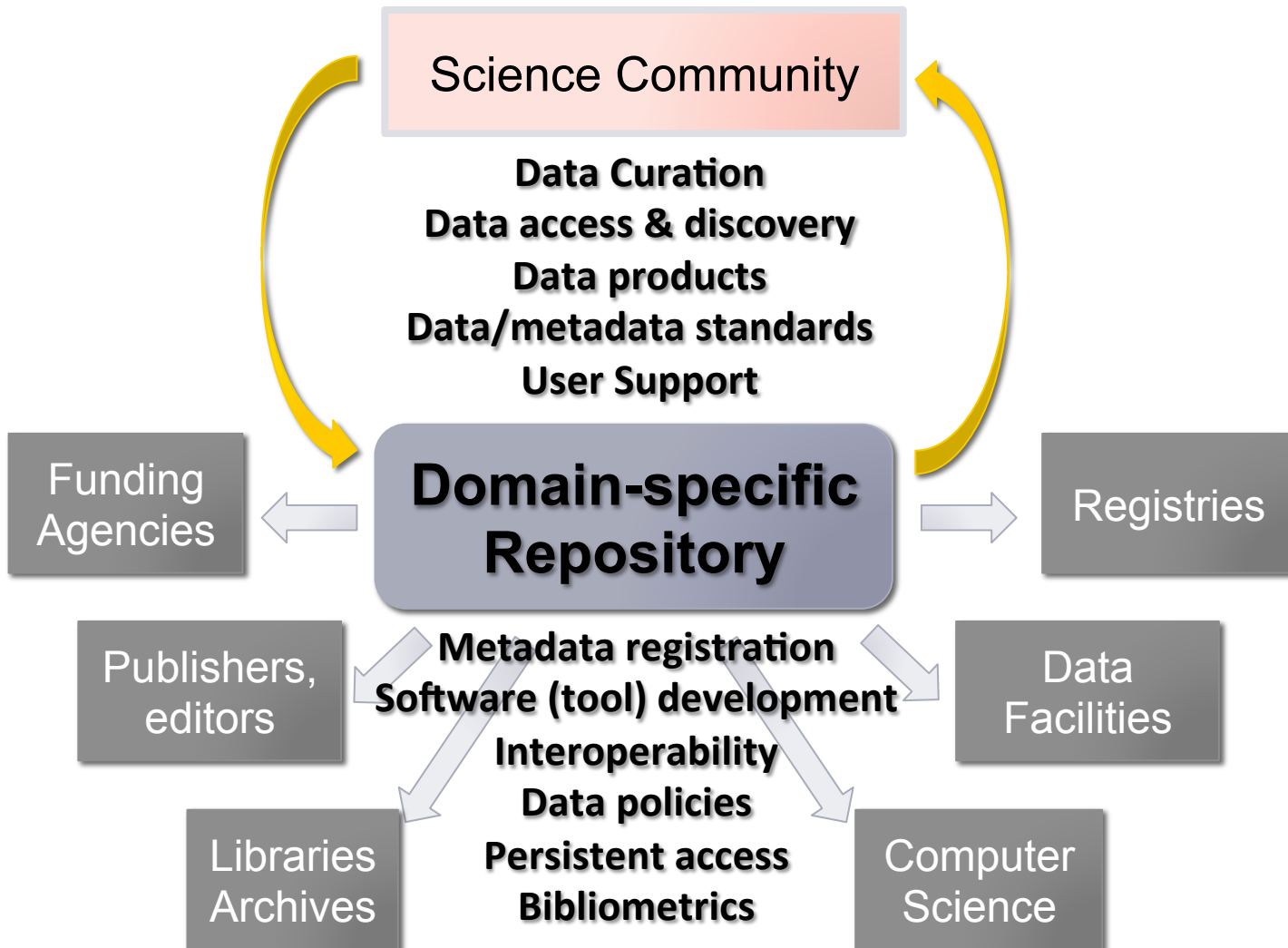
**PRACTICES**

**FOR EARTH SCIENCE**

**PUBLICATIONS**

# Data Publication 2014

- Substantial changes in the PUBLICATION landscape
  - Open access mandate widely acknowledged and addressed.
  - New publication formats have emerged, e.g. Elsevier's article of the future, data journals
- Substantial changes in the DATA landscape
  - Data are increasingly recognized as part of the scholarly record, data citation is becoming of age.
  - Cyberinfrastructure & eScience developments require access to data in standardized formats.
  - Repositories need to adhere to standards, best practices, sustainability (long-term accessibility of the data).



# Enabling data-Goals and leverage

- Publication is a key value point exposing data  
—use it!
- Connect publishers with domain repositories
- Use the connection to enable data and promulgate best practices
- Help authors early in the process

# Improving Practices for Data in Publications

**Goal:** *“Connect Earth Science publishers and Data Facilities to help translate the aspirations of open, available, and useful data from **policy into practice.**”*



- >70 participants
  - ***publishers***: AGU, GSA, AMS, MSA, AAS, SEG, Nature, Science (AAAS), Elsevier, Wiley, Oxford, Copernicus
  - ***funders***: NSF, NASA, NOAA, DOE, DOD, ONR, USGS, Sloan, Arnold
  - ***data facilities***: IRIS, Unidata, UNAVCO, IEDA, R2R, MaGIC, BCO-DMO, CUAHSI, NOAA, USGS, NSIDC, IODP, COS
  - ***policy et al***: OSTP, CODATA, ESIP
- Facilitated by Joel Cutcher-Gershenfeld



# Meeting Outcomes

- Commitment to collectively form a working group:  
***Coalition for Data Publication in the Earth and Space Sciences***
  - permanent international coordinating conference of publishers and data facilities and consortia on Earth science data publication
  - structure of this coalition will have to be more clearly defined over a series of upcoming meetings
  - Endorsed a draft **Statement of Commitment**



# A Statement of Commitment

[bit.ly/copdess\\_statement](http://bit.ly/copdess_statement)

- Reaffirm and ensure adherence to existing journal and publishing policies and society position statements regarding data sharing and archiving of data, tools, and models.
  - Encourage journals, publishers, and societies that do not have such statements to develop them
- Ensure that Earth science data will, to the greatest extent possible, be stored in community approved repositories that can provide additional data services.
  - Where it is not possible to store data on community approved repositories, journals should recommend archiving of data using community-established leading practices, including, where necessary, supplements that follow existing NISO guidelines.

# Actions will be taken!

- Build an online community directory of appropriate Earth science community repositories for data, tools, and models that meet leading standards on curation, quality, and access
- Promulgate metadata information and standards to help simplify and standardize data deposition and re-use.
- Develop workflows within the repositories that support the peer review process (for example, embargo periods with secure access) and within the editorial management systems that will ease transfer of data to repositories.

# Actions will be taken!

- Promote referencing of data sets using the Force-11 data citation principles.
- Promote and implement links to data sets in publications and corresponding links to journals in data facilities via persistent identifiers. Data sets should ideally be referenced using registered DOI's.
- Promote use of other relevant community permanent identifiers for samples (IGSN), researchers (ORCID), and funders and grants (FundRef).

# Further information

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