The Role of Data Citation in Scholarly Communication

Christine L Borgman, University of California, Los Angeles
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Christine L. Borgman
Professor and Presidential Chair in Information Studies
University of California, Los Angeles
Deluge!!!

Data!

Scientists
Social Scientists
Funding agencies
Policy makers
Librarians
Humanists
Publishers
Internet architects

http://www.guzer.com/pictures/suprise_suprise.jpg
What are data?
Data are representations of observations, objects, or other entities used as evidence of phenomena for the purposes of research or scholarship.

Publications

• Publications are arguments made by authors, and data are the evidence used to support the arguments.

• If publications are the stars and planets of the scientific universe, data are the ‘dark matter’ – influential but largely unobserved in our mapping process*

*CODATA-ICSTI Task Group on Data Citation Standards and Practices, 2013, p. 54
Authorship and Attribution

• Publications
  – Independent units
  – Authorship is negotiated

• Data
  – Compound objects
  – Ownership is rarely clear
  – Attribution
    • Long term responsibility: Investigators
    • Expertise for interpretation: Data collectors and analysts
Scholarly credit

- Publications
- Publications
- Publications
- Publications
- Publications
- Awards and honors
- Grants
- Teaching
- Service
- Data

http://blog.startfreshtoday.com/Portals/170402/images/improve-credit-score1.jpg
Data citation as solution to...

- Credit
- Attribution
- Discovery