

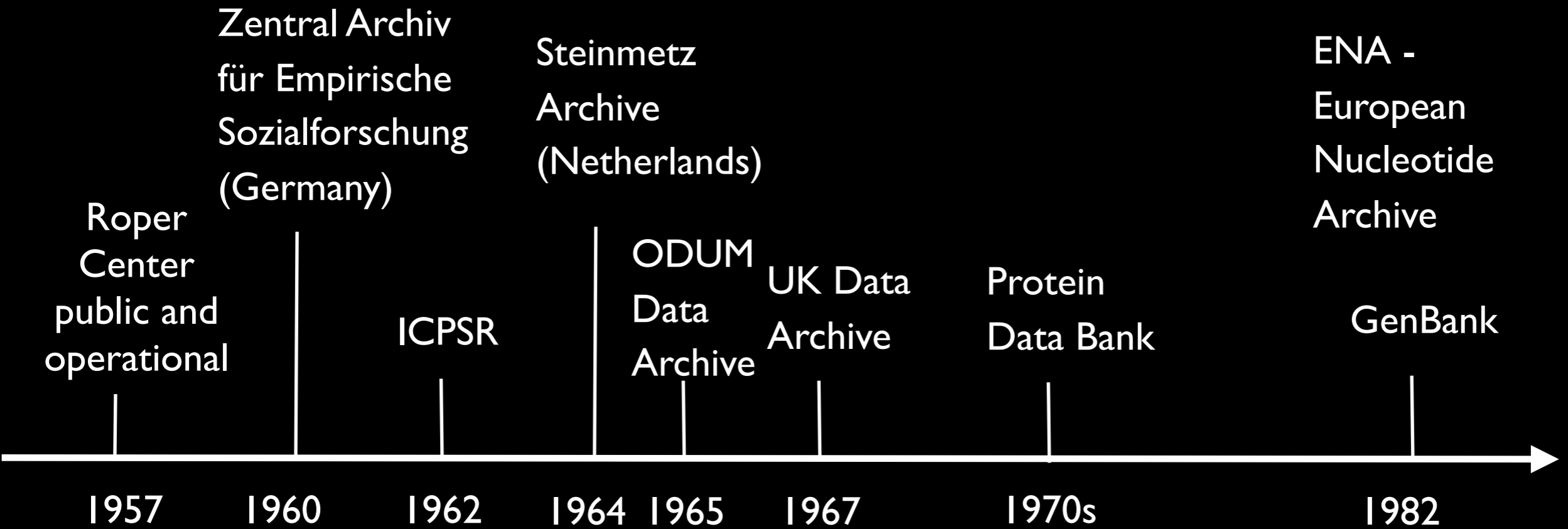
The Data Publishing Landscape

Mercè Crosas, Ph.D.

Chief Data Science and Technology Officer
Institute for Quantitative Social Science
Harvard University

@mercecrosas

From the First Data Archives ...



←→

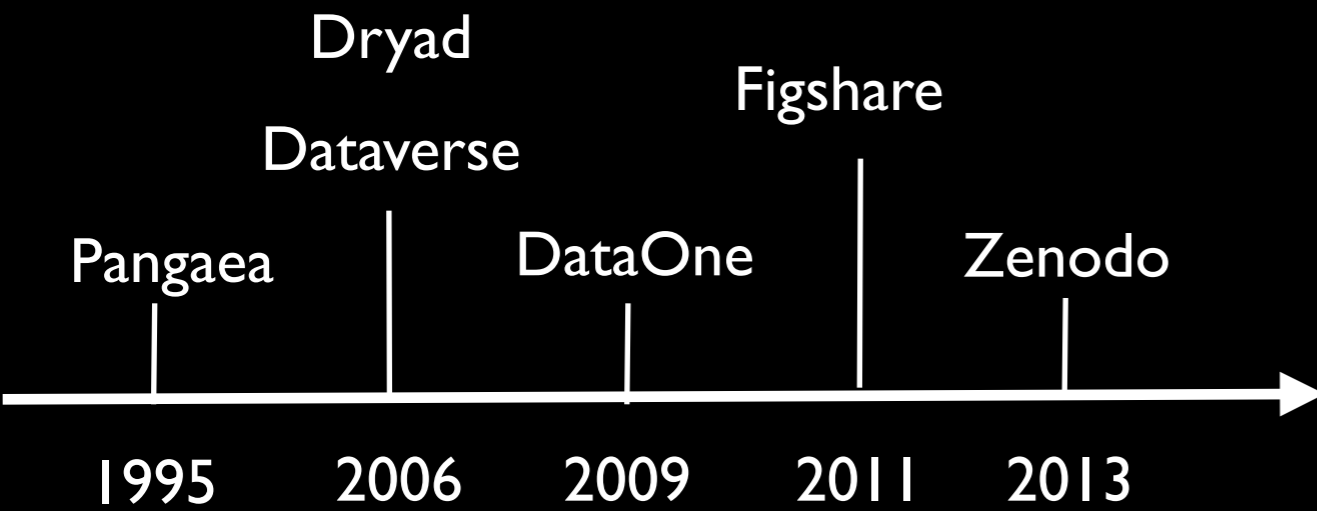
The 60s: First social sciences data archives

←→

The 70 and 80s: First life sciences large databases

...to more than 1000 Data Repositories

90s to Now:
Growth of domain-specific
and generic data repositories



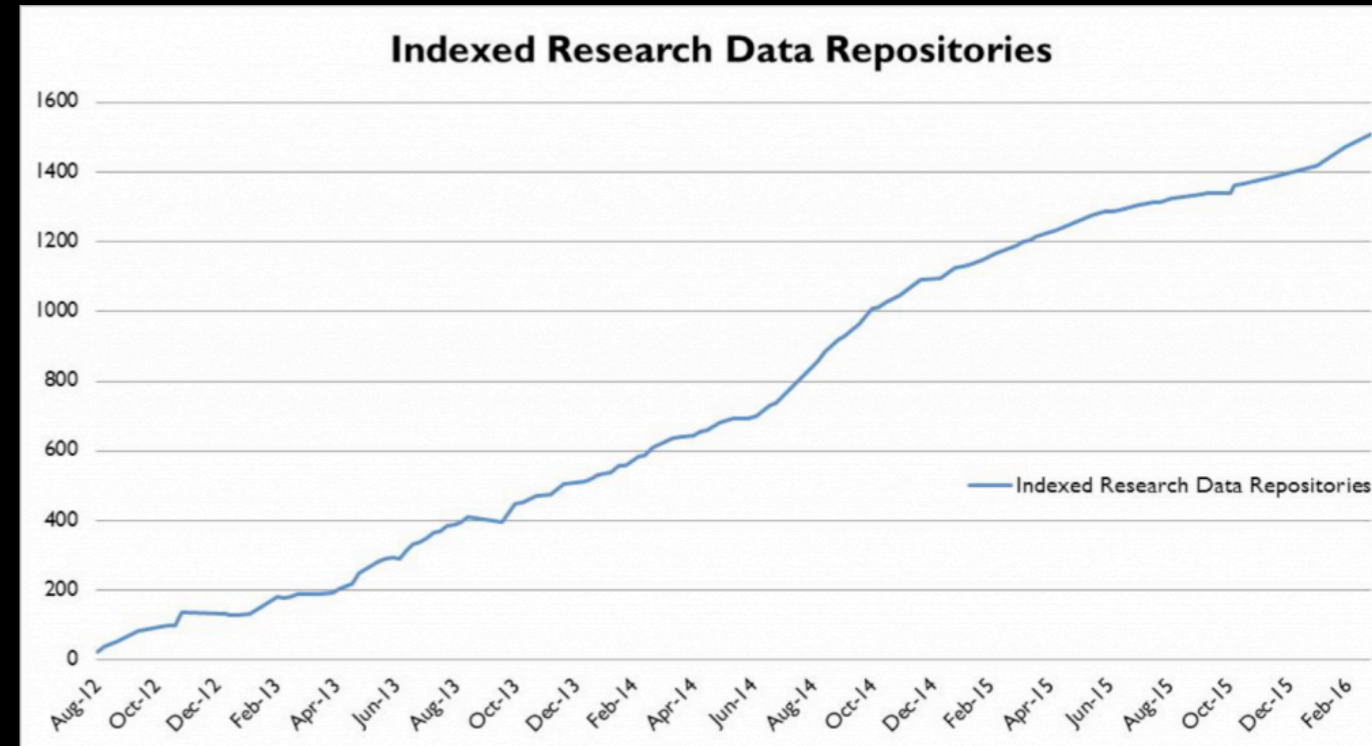
1995
Dublin Core

Data Description
Initiative (DDI)

2009
Data Cite

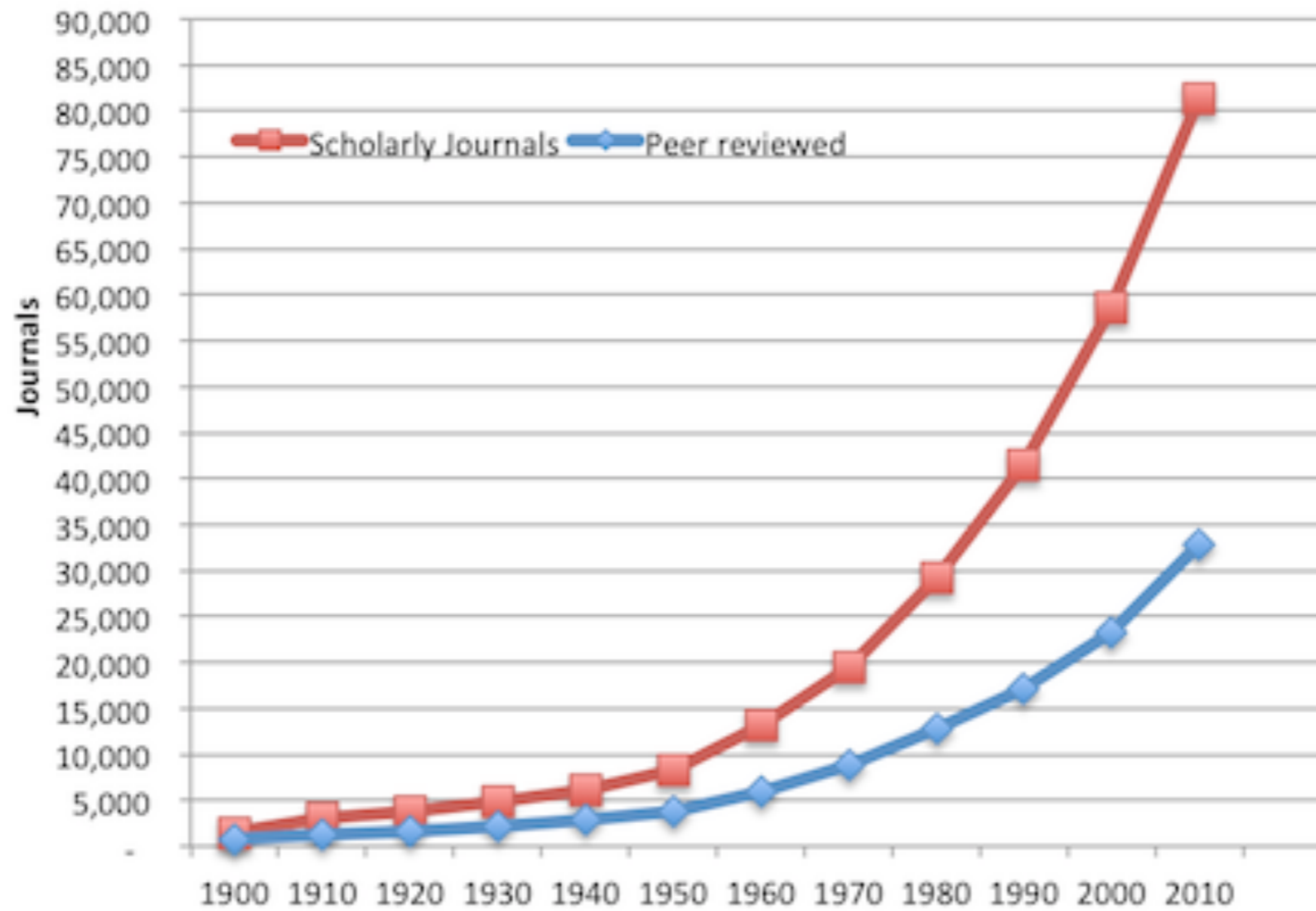
2014
Joint Declaration of
Data Citation Principles

re3data.org



1500 research data repositories ...
and counting

Growth in scholarly and peer-reviewed serials

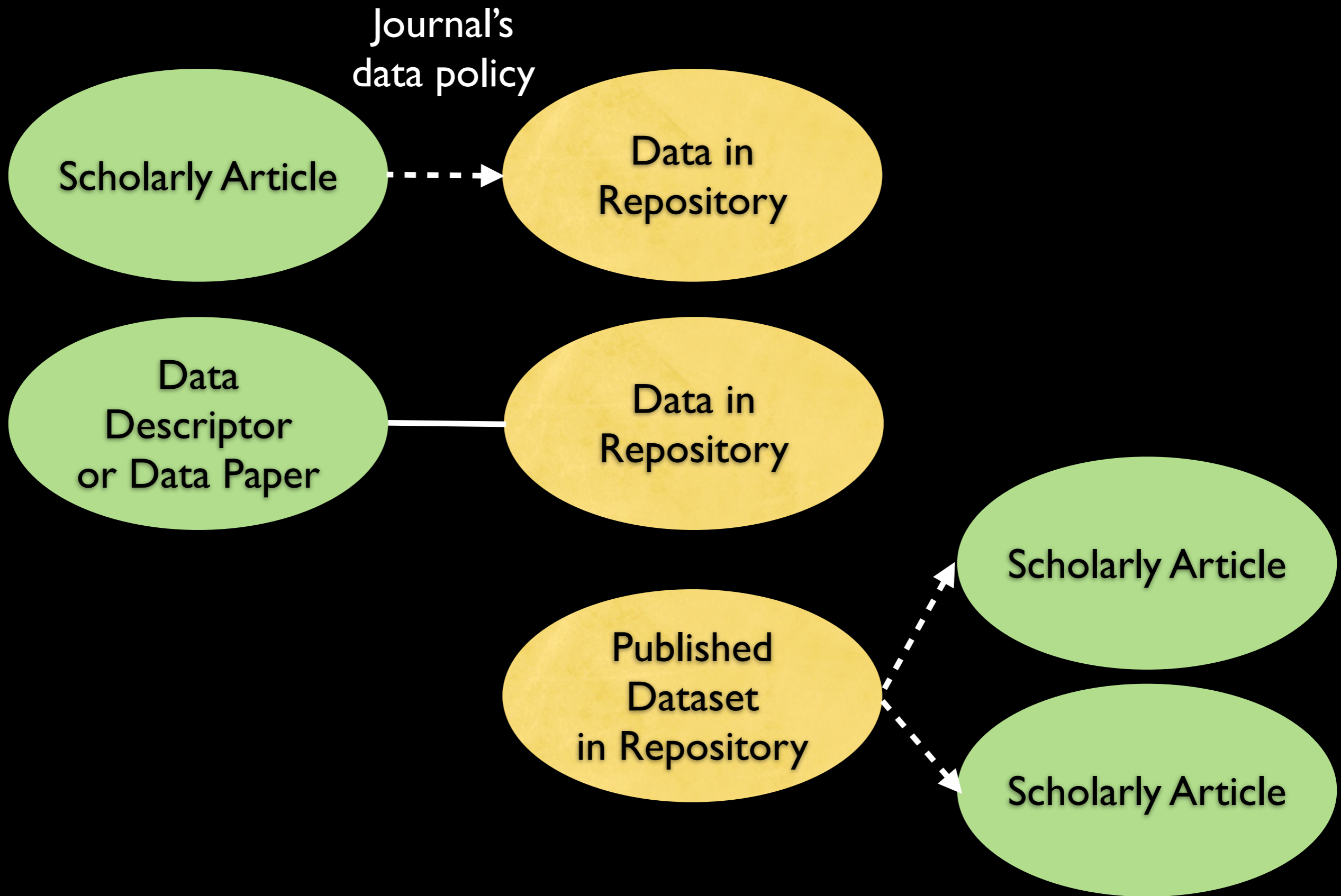


80,000 total
Scholarly
Journals

33,000 peer
reviewed

*“**Research data publishing** is the release of research data, associated metadata, accompanying documentation, and software code (in cases where the raw data have been processed or manipulated) for reuse and analysis in such a manner that they can be discovered on the Web and referred to in a unique and persistent way.”*

Ways of Publishing Data



Best Practices

Data Citation

Metadata

Access
Control and
Rules

APIs and
Standards

Reference,
locate and
attribute

Discover and
reuse

Access
protecting
privacy

Interoperate

[Home](#) ▶ [Comment](#) ▶ [Data Descriptor](#)

SCIENTIFIC DATA | COMMENT **OPEN**



The FAIR Guiding Principles for scientific data management and stewardship

**Findable Accessible
Interoperable Reusable**

[Alexander C. Bray](#), [Paul Crook](#), [Carole Cobo](#), [Conroy et al.](#), [Guap Hornig](#), [Peter H. ...](#)
[Hoen](#), [Rob Hooft](#), [Tobias Kuhn](#), [Ruben Kok](#), [Joost Kok](#), [Scott J. Lusher](#), [Maryann E. Martone](#),
[Albert Mons](#), [Abel L. Packer](#), [Bengt Persson](#), [Philippe Rocca-Serra](#), [Marco Roos](#), [Rene van](#)
[Schaik](#), [Susanna-Assunta Sansone](#), [Erik Schultes](#), [Thierry Sengstag](#), [Ted Slater](#), [George](#)
[Strawn](#), [Morris A. Swertz](#), [Mark Thompson](#), [Johan van der Lei](#), [Erik van Mulligen](#), [Jan](#)
[Velterop](#), [Andra Waagmeester](#), [Peter Wittenburg](#), [Katherine Wolstencroft](#), [Jun Zhao](#) & [Barend](#)
[Mons](#) Show fewer authors