

INTERNATIONAL ASSOCIATION OF SCIENTIFIC, TECHNICAL & MEDICAL PUBLISHERS

## Data and Publications, and how they belong together

Overview of Data Initiatives with STM involvement

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STM Research Data Group Web meeting 10 July 2012



## Overview of STM activities on Research Data

• 2007: Brussels Declaration

2008 – 2010: PARSE.Insight project (EU)

• 2011 – 2012: project ODE

2011 – 2012: NISO-NFAIS suppl journal info

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• 2008 – 2010: PARSE.Insight project (EU)

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2011 – 2012: NISO-NFAIS suppl journal info

2012 – 2016: APARSEN project (EU)

2012 – 2013: Codata Data Citation WG



## How publishers view data: How publishers view data:

Raw research data should be made freely Rawilabse to all researchers.

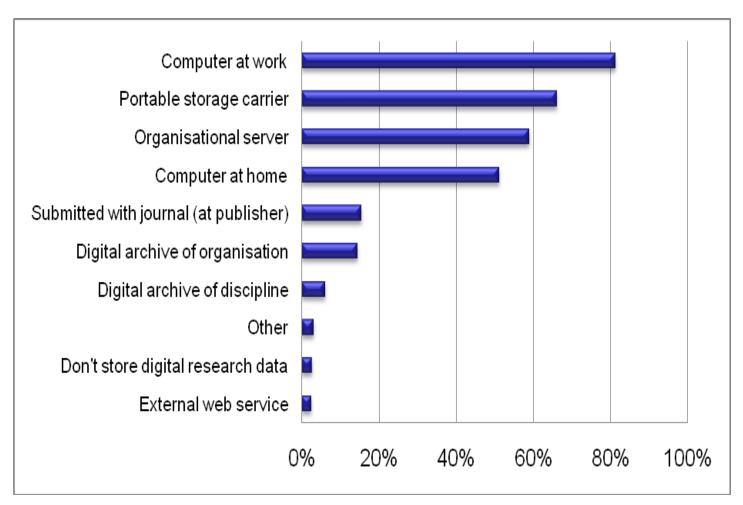
Publishers encourage the public posting of the raw

are submitted with a paper to a journal should wherever possible be made freely accessible to other

Signed by 45 leading publishers and 14 publishers organisations.



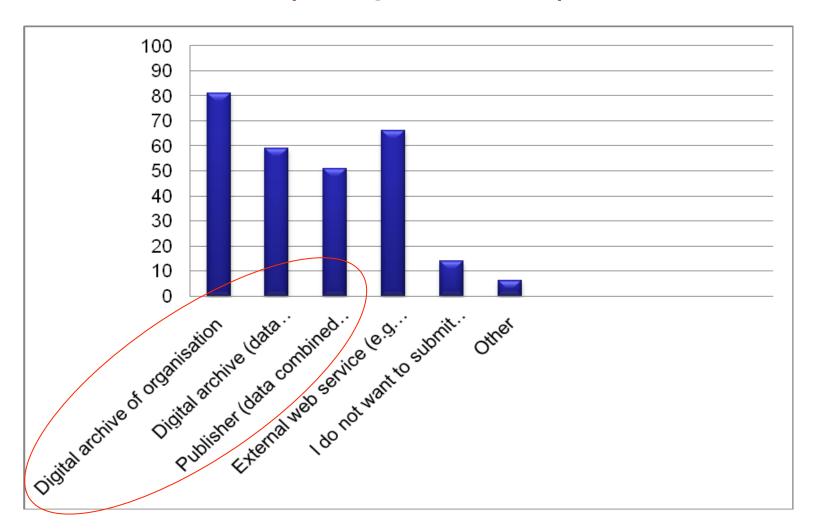
## PARSE.Insight: Where do you currently store your research data? (multiple answers possible)



Source: PARSE.Insight survey 2009, N = 1202



### PARSE.Insight: Where would you be willing to submit your research data? (multiple answers)



Source: PARSE.Insight survey 2009, N = 1202



## 2010-2012: Project-ODE: Opportunities for Data Exchange











Opportunities for Data Exchange

### **Objectives**

To consider the **impact** that data sharing, re-use and preservation is having on scholarly communication and **identify incentives** for researchers and other stakeholders that will help to optimise the take-up of future e-Infrastructure.

#### **Specific objective:**

•Establish the baseline practices integrating datasets with publications and vice-versa.

### **Data Publication Pyramid:**

Publications
Publications
data

Processed Data and Data
Processed

Data Collections and Statet Orelte Ctates as as

Raw Data and Data Sets



# The Data PhelDataon Pytalioation

(2) Further data
(2) planations
Further data
explainationsing
supplementary

(4) Data publications,

chesaitabileg avatasets Publications with data

Processed Data and Data Pata Representations

Data Collections and Structured Databases

(1) Data contained and explained and

(3) Data
refe(@)n Cedafrom
referenticed anough
held in data
thosenters and
repositeriessd

(5) Data in dræ5)eDsatænion on

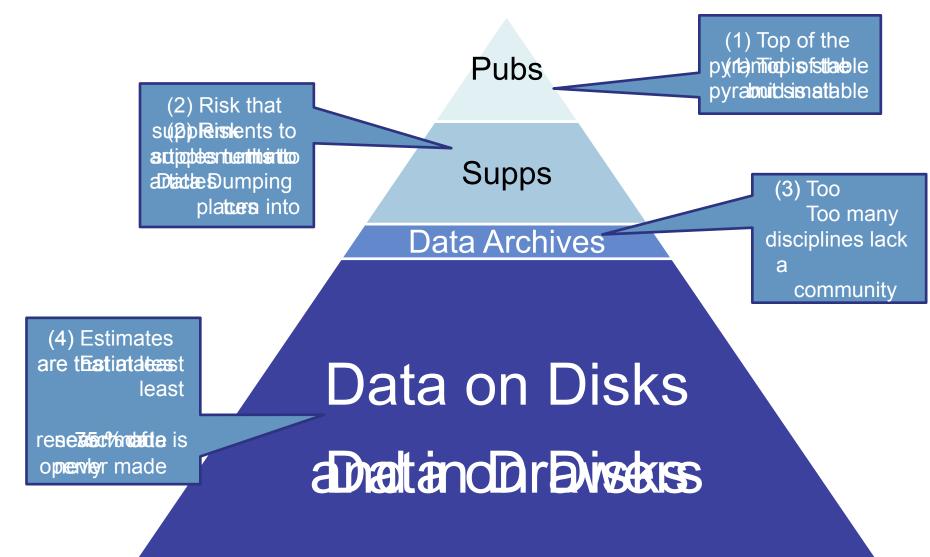
diskstatutee

Raw Data and Data Sets





### The Pyramid's likely short term reality:





### The Ideal Pyramid

(2) Only if data cannot be integrated in article, and only relevant extra explanations

(4) More Data Journals that describe datasets, data mgt plans and data methods Data

**Publications** 

**Article Supps** 

**Data Archives** 

(1) More integration of text and data, viewers and seamless links to interactive datasets

(3) Seamless links
(bi-directional)
between
publications and
data, interactive
viewers within the
articles

Data on Disks and in Drawers





## How can publishers help to make things better\*

- Opportunities for Data Exchange
- Stricter editorial policies on the availability of underlying data
- Recommend reliable and trustworthy Data Archives to authors
- Enhance articles for better integration of underlying data
- Endorse guidelines for proper citation of data
- Launch and sponsor Data Journals
- Ensure persistent identifiers and bi-directional linking
- Partner with reliable Data Archives for further integration of Data and Publications, including interactivity for re-use.



<sup>\*</sup> See http://www.alliancepermanentaccess.org/wp-content/uploads/downloads/2011/11/ODE-ReportOnIntegrationOfDataAndPublications-1 1.pdf

### 2012: STM and DataCite Joint Statement

- 1. To improve the availability and findability of research data, Datacite and STM encourage authors of research papers to deposit researcher validated data in trustworthy and reliable Data Archives.
- 2. Datacite and STM encourage Data Archives to enable bi-directional linking between datasets and publications by using established and community endorsed unique persistent identifiers such as database accession codes and DOI's.
- 3. DataCite and STM encourage publishers and data archives to make visible or increase <u>visibility of these</u> <u>links</u> from publications to datasets and vice versa



### Other initiatives in summary

- NISO/ NFAIS: recommendations on how to treat suppline info to journals. These distinguish different publisher roles for:
  - Integral content (in supps, sometimes elsewhere)
  - Additional content (in supps)
  - Related content (in data archives etc)

#### see

http://www.niso.org/apps/group\_public/download.php/7964/RP-15-201x %20Suppl BWG draft for comments.pdf

 Codata Data Citation: White Paper expected to be ready in fall 2012, much will follow DCC recommendations:

see <a href="http://www.dcc.ac.uk/resources/how-guides/cite-datasets">http://www.dcc.ac.uk/resources/how-guides/cite-datasets</a>

Chipper and Hamlett: 2 new proposals for EU funding:
 The more clarity in next meeting (we hope).

### **Questions?**

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