

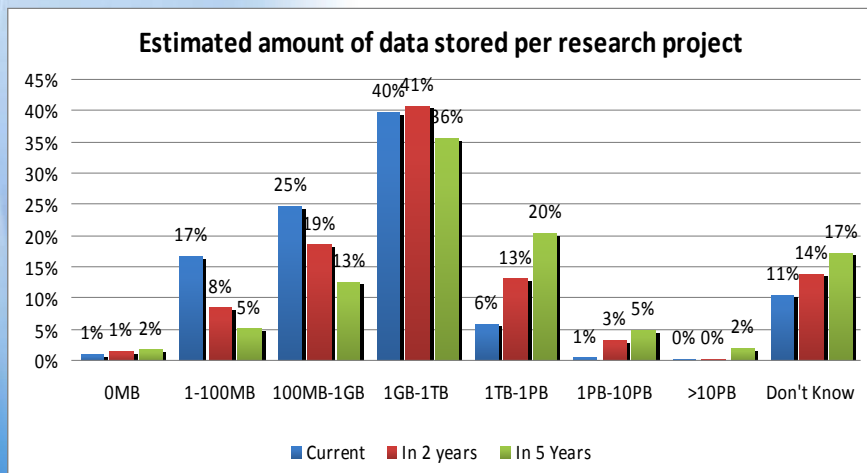
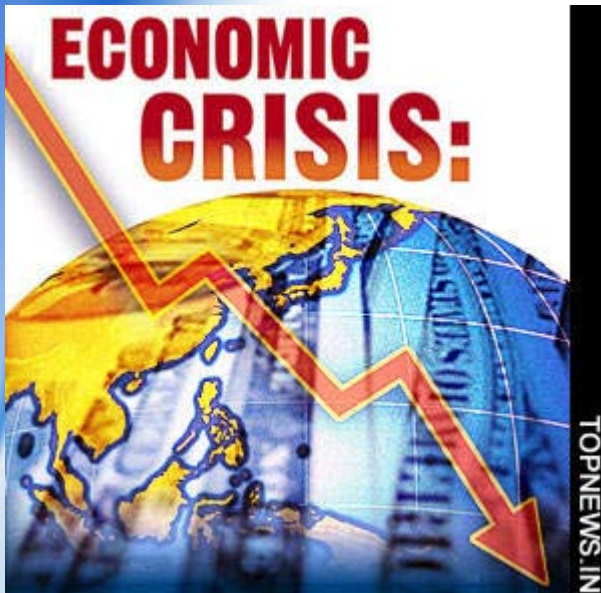
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The *Geoscience Data Journal*:
a locus for stakeholder collaboration
in data publishing

Fiona Murphy, Sarah Callaghan and Rob Allan
Tuesday 30th October, Taipei

Why are we here?



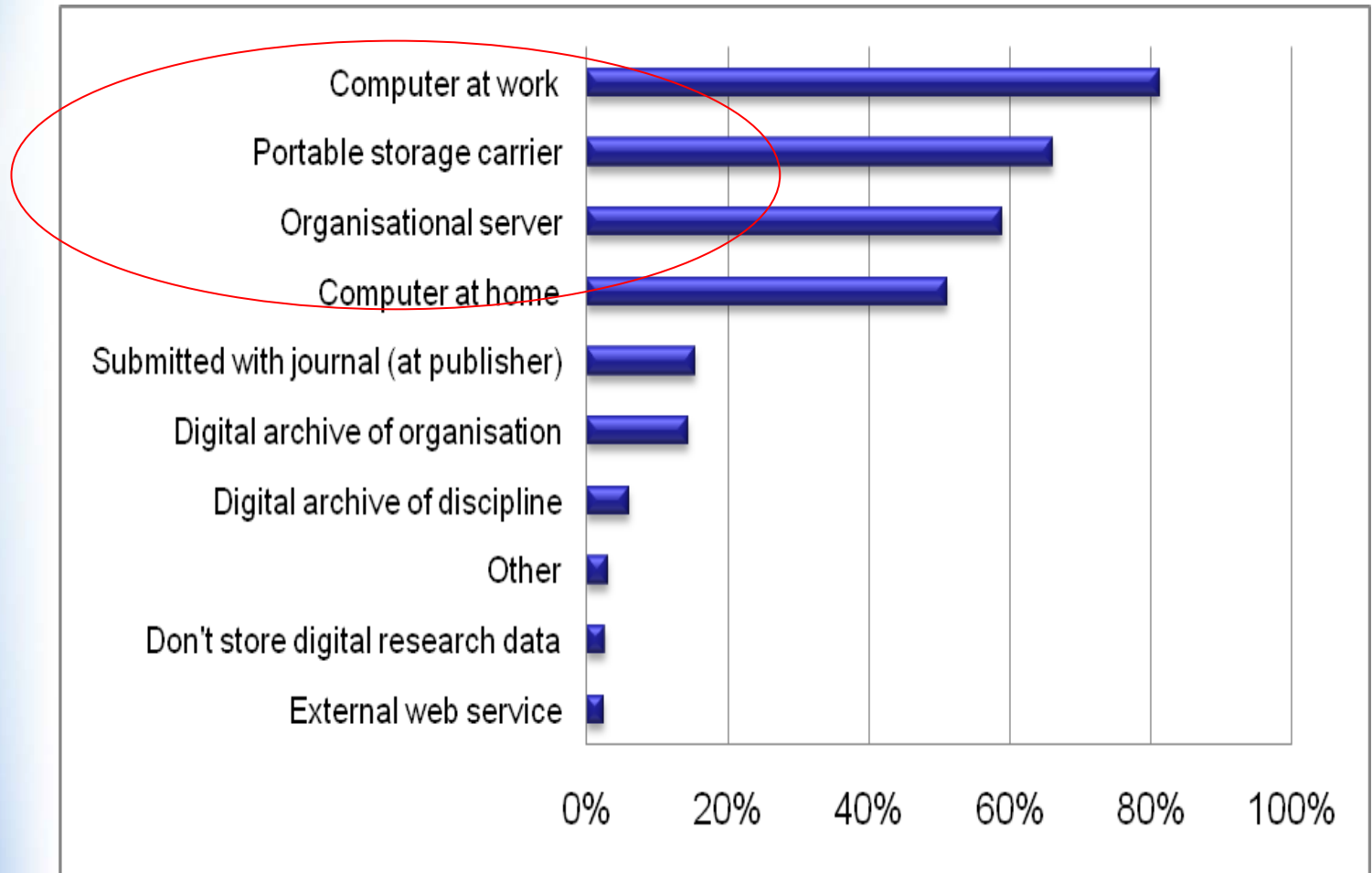
Why are we here?

- US NSF Research Grants Require Data Management Plan
- RCUK Common Principles on Data Policy
 - Published results should always include information on how to access the supporting data.
- European Commission: Open Data Strategy for Europe

Overview of STM activities on Research Data

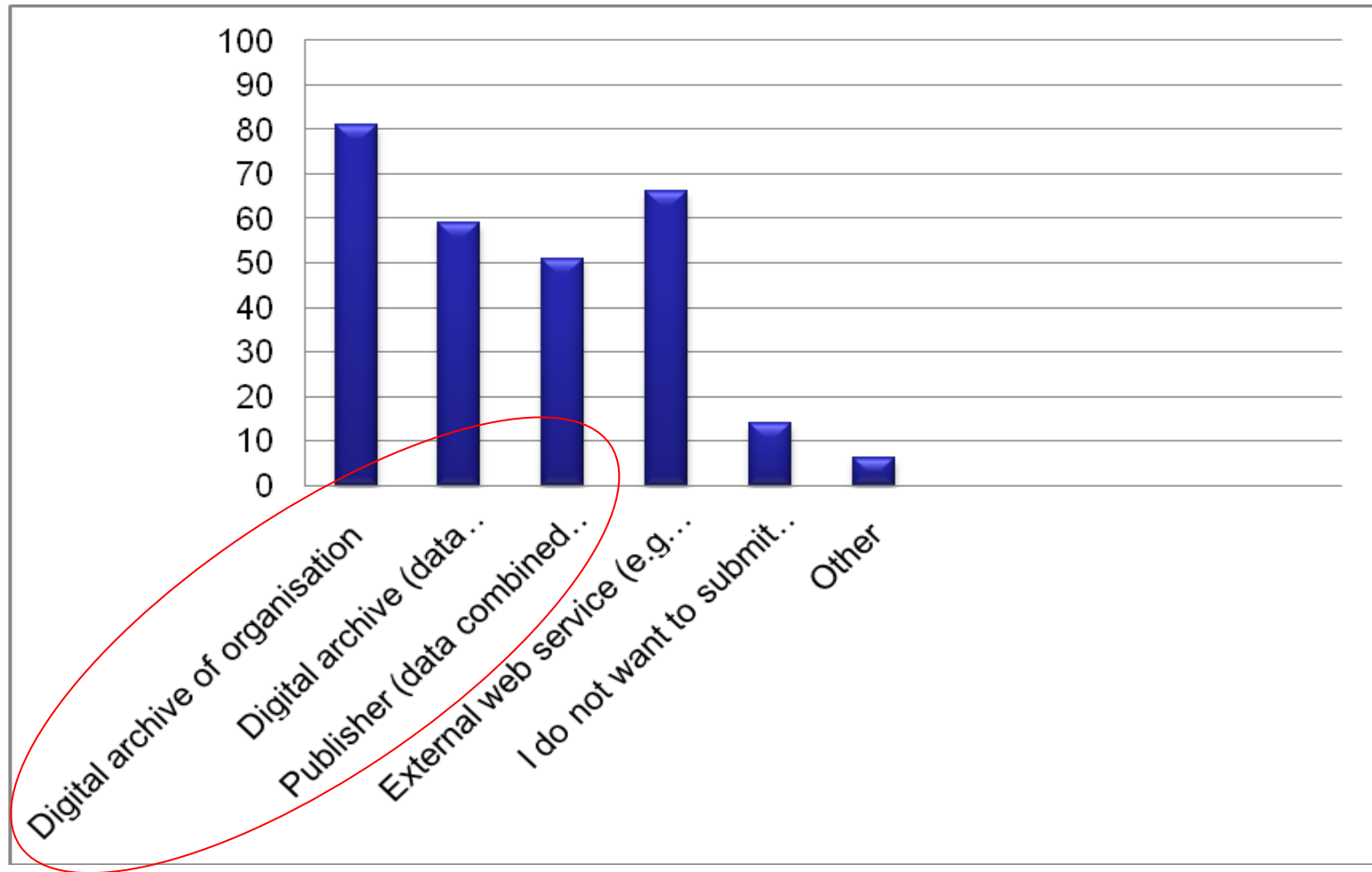
- **2007:** Brussels Declaration
- **2008 – 2010:** PARSE.Insight project (EU)
- **2011 – 2012:** project ODE
- **2011 – 2012:** NISO-NFAIS suppl journal info
- **2011 – 2014:** APARSEN project (EU)
- **2012 – 2013:** CODATA Data Citation TG
- **June 2012:** STM-DataCite joint statement
- **2012--** STM Research Data Group
- **2012 – 2015:** Board of Dryad

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



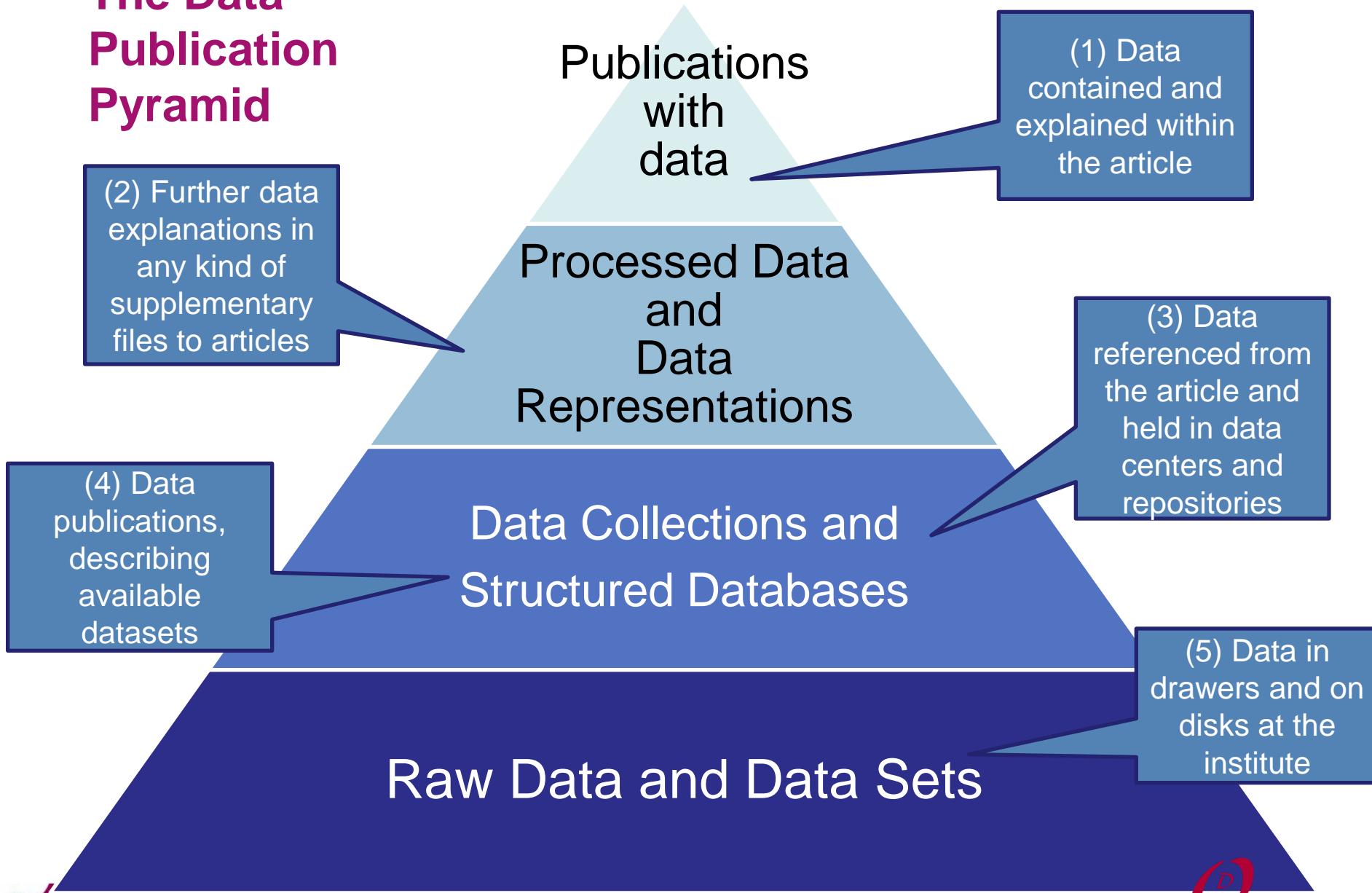
Source: PARSE.Insight survey 2009, N = 1202

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

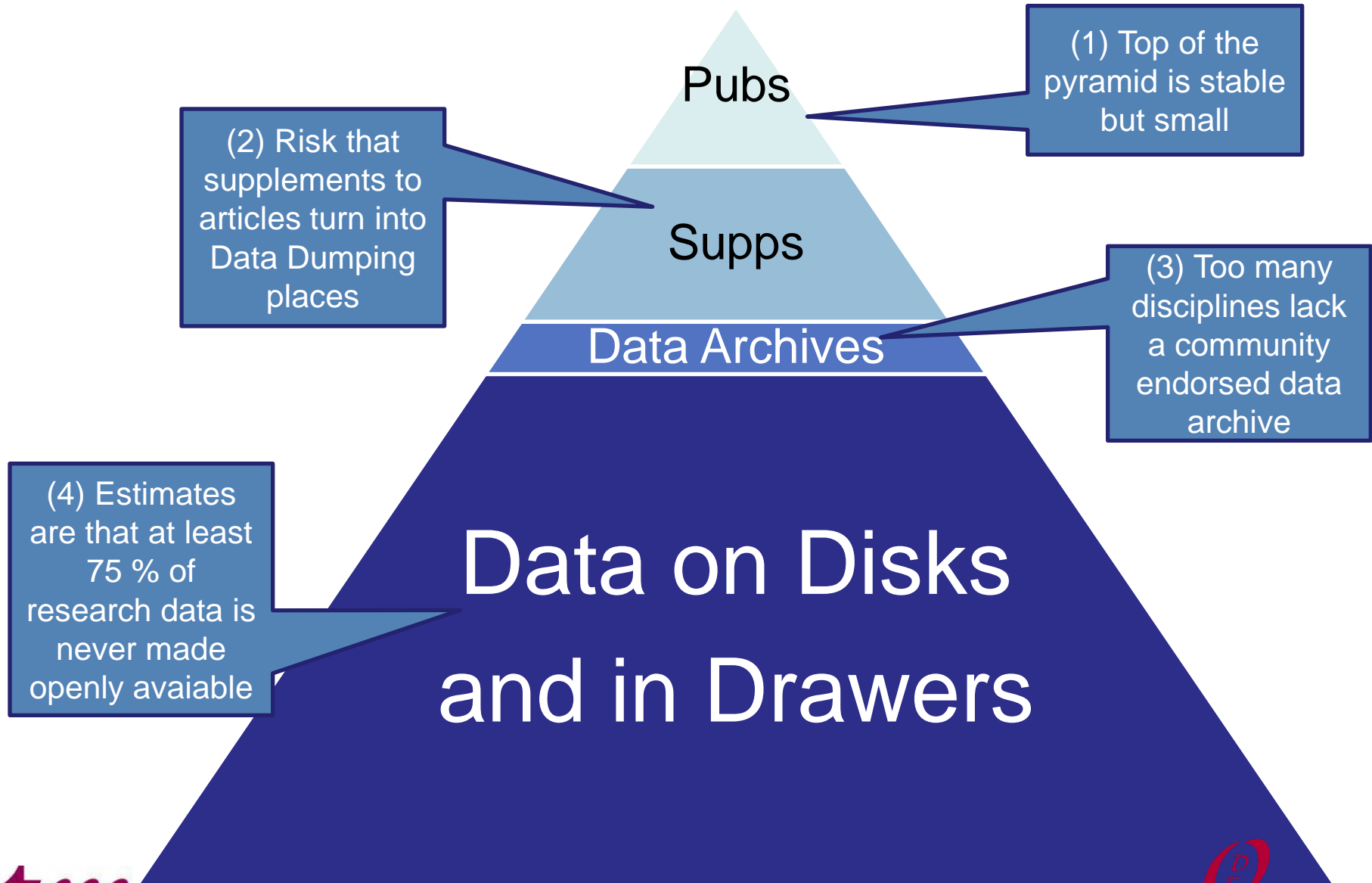


Source: PARSE.Insight survey 2009, N = 1202

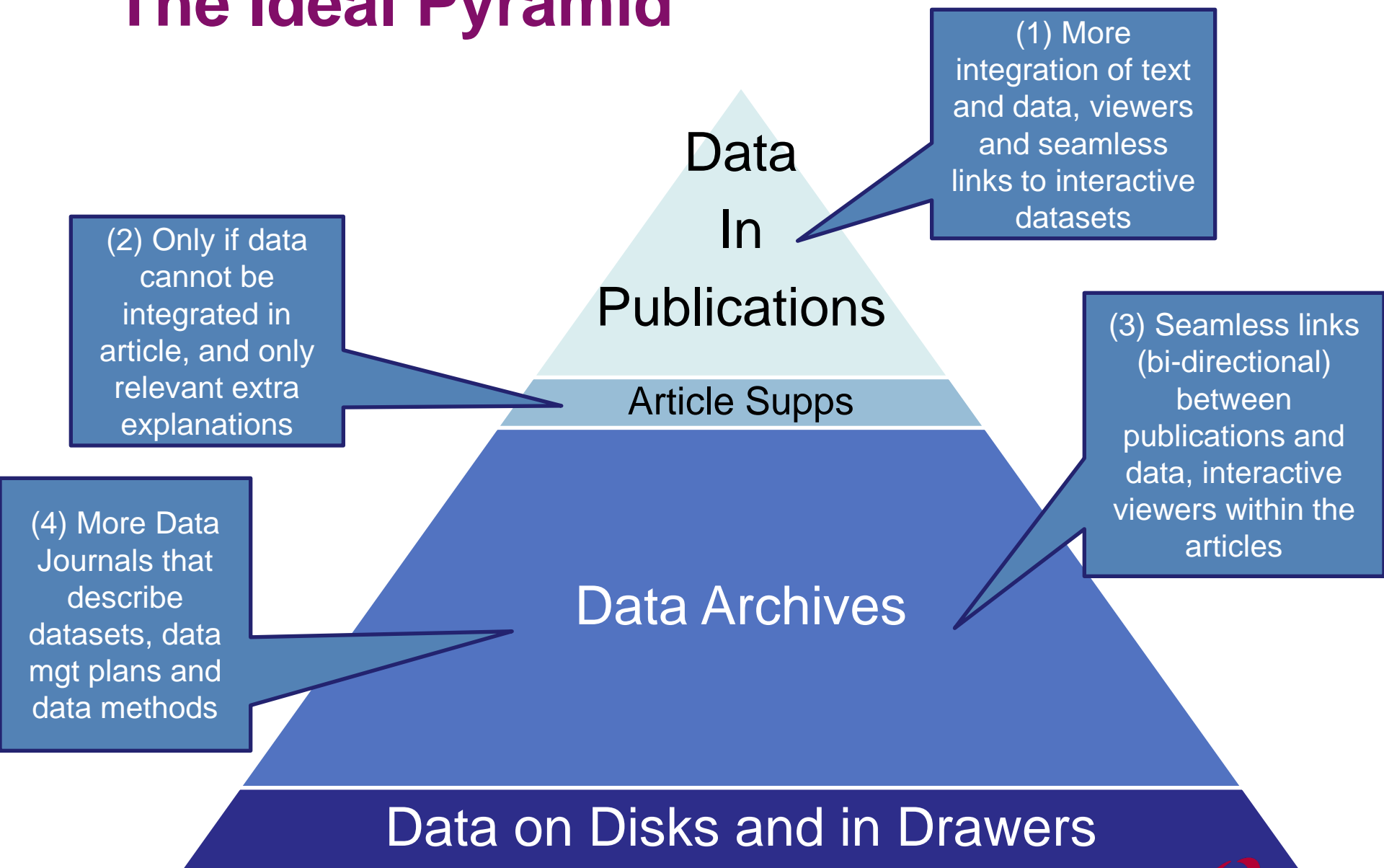
The Data Publication Pyramid



The Pyramid's likely short term reality:



The Ideal Pyramid



Geoscience Data Journal, Wiley-Blackwell and the Royal Meteorological Society

- supported by NERC – in particular the **British Atmospheric Data Centre**
- partnership formed between **Royal Meteorological Society** & academic publishers **Wiley-Blackwell**
- builds on JISC funded OJIMS (Overlay Journal Infrastructure for Meteorological Sciences) project
- parallels work done by the NERC Science Information Strategy Data Citation and Publication project



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GDJ Rationale and Incentives

- Provide academic credit to data scientists
- Ensures that the dataset is uploaded to a trusted repository
- The peer-review process also reassures the funder that the published dataset is of good quality
- Good starting point for information for researchers outside the immediate field,
- Help show transparency in the scientific process, improving public accountability.
- Opportunities to form partnerships with other organisations with the same goal of data publication to exploit common activities and achieve a wider community buy-in.

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Geoscience Data Journal
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Dr Rob Allan,
Met Office, UK

> An earth science
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Data Paper

On the South Atlantic Convergence Zone affecting southern Amazonia in austral summer

Fabien C. Lamaze^{1,*}, Dany Garant², Louis Bernatchez¹

Article first published online: 23 OCT 2012

DOI: 10.1002/asl.401

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Keywords:

brook charr; gene expression; hybridization; introgression; quantitative PCR; stocking

Dataset

GBS (Global Broadcast Service), [doi:10.1029/2007RS003793](https://doi.org/10.1029/2007RS003793)

Abstract

Time series analysis of the average rainfall over a target area in southern Amazon Basin showed a spectral peak at 11 day period. An objective method for defining the South Atlantic Convergence Zone (SACZ) is used to identify 28 episodes affecting southern Amazon Basin during the 10 summers in the period 1999–2010. The 28-episode composite precipitation anomalies show significant positive values over the target area. The convergence of moisture over the target area in the SACZ composites is about 35% stronger than the climatological value. Copyright © 2012 Royal Meteorological Society

1. Introduction

One of the regional scale meteorological systems that affect the weather over a major part of the South American tropics is the South Atlantic Convergence Zone (SACZ). This system somewhat plays the same role for the South American monsoon (Vera *et al.*, 2006; Carvalho *et al.*, 2010) as does the monsoon trough for the South Asian summer monsoon (Keshavamurty and Awade, 1970). The cloud band associated with SACZ extends from the Amazon Basin (Amazonia) to the South Atlantic subtropics, over a stretch of 4000 km or more (Kodama, 1992; Satyamurty *et al.*, 1998) and affects many regions of Brazil with intense rainfall. Some SACZ events are especially intense over interior South American continent (Carvalho *et al.*, 2002, 2004; Muza and Carvalho, 2006), strongly affecting Amazonia.

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PREPARDE objectives

- capture and manage workflows from submission of a new data paper and dataset, through review and to publication
- develop procedures and policies for authors, reviewers and editors
- incorporate some technical developments at the point of submission
- put in place procedures needed for data publication in the California Digital Library
- interact with the wider scientific and data communities
- engage the user and stakeholder communities

<http://proj.badc.rl.ac.uk/preparde>

Project team, roles and responsibilities

- **Jonathan Tedds University of Leicester (UoL):** project lead, academic liaison and administration
- **Sarah Callaghan British Atmospheric Data Centre (BADC):** project management
- **Fiona Murphy Wiley-Blackwell:** provide publishing platform
- **John Kunze California Digital Library (CDL):** investigate a lightweight data paper convention
- **Steve Worley/Matt Mayernik US National Centre for Atmospheric Research (NCAR):** use cases of data review methods
- **Rebecca Lawrence F1000:** contribute broader perspective from the biomedical sciences
- **Angus Whyte Digital Curation Centre:** assess peer review models & overlap with data repository appraisal and ingest processes

Forthcoming Events

- **SpotOn London**, Session 12 November 2012
- **American Geophysical Union**, San Francisco Town Hall
5 December 2012
- **8th International Digital Curation Conference**, Amsterdam
Workshop 17 January 2013