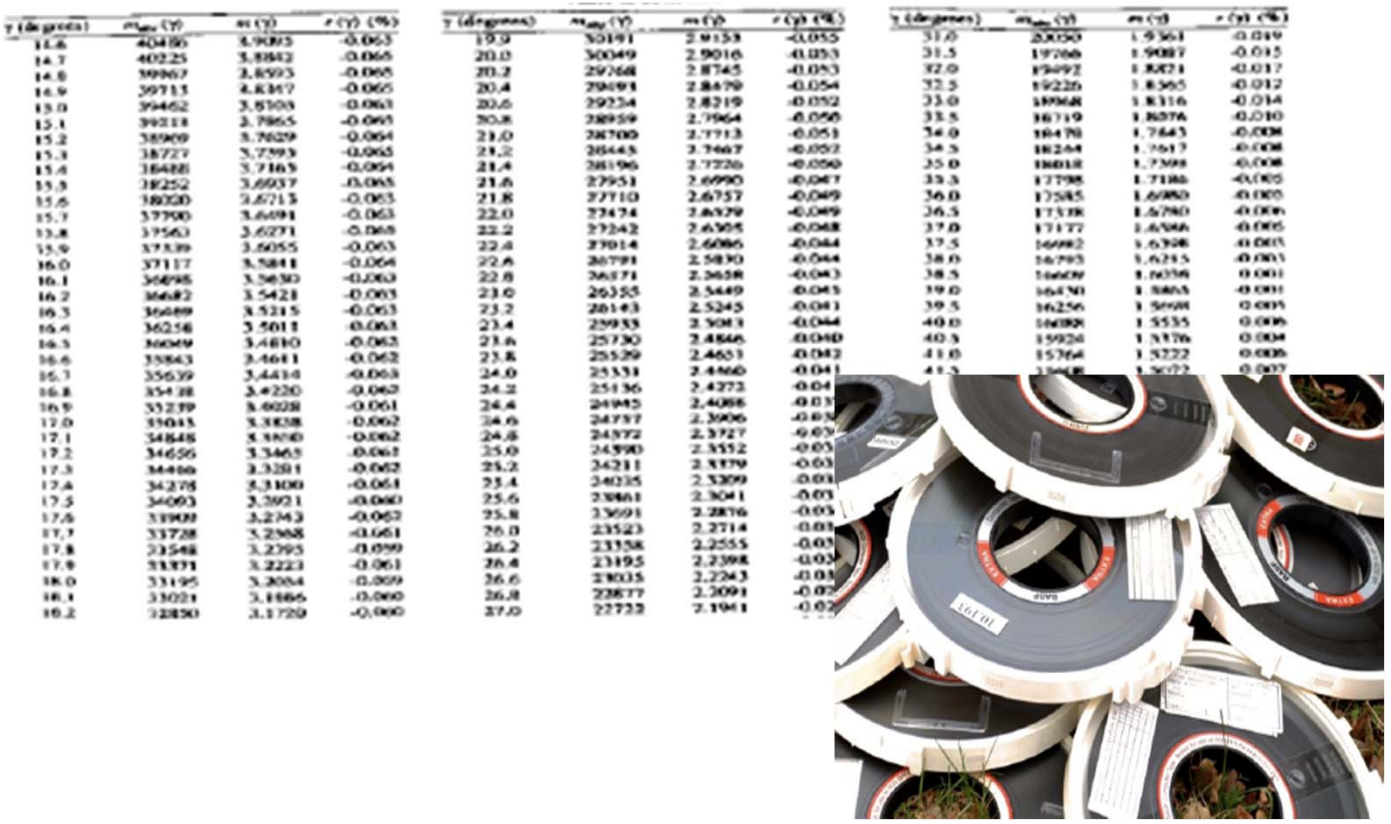
Herausforderungen und Fragestellungen

GFZ Helmholtz-Zentrum Potsdam

Roland Bertelmann
Bibliothek des Wissenschaftsparks Albert Einstein
rab@gfz-potsdam.de

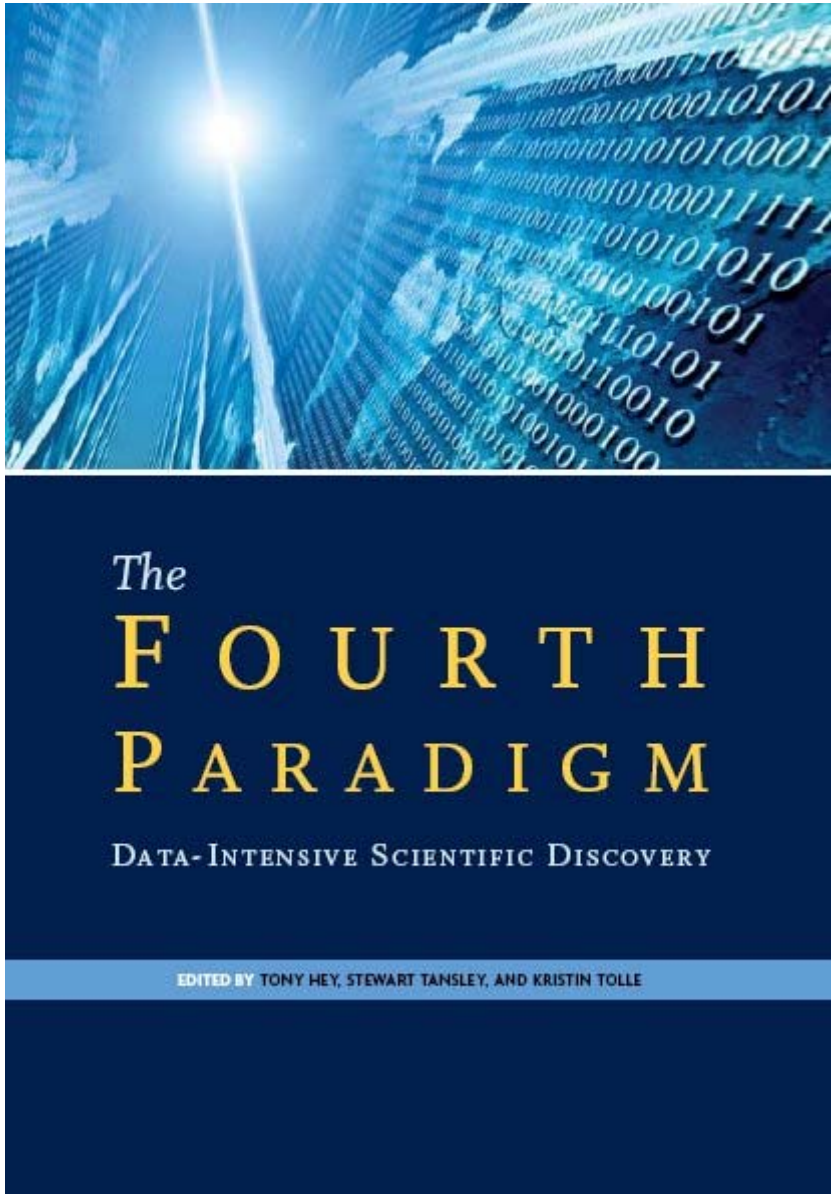
HELMHOLTZ GEMEINSCHAFT

Kein neues Thema




Deutsche
Forschungsgemeinschaft
Sicherung guter
wissenschaftlicher
Praxis
Safeguarding Good
Scientific Practice
Denkschrift


nature
BIG DATA
ENSURING THE INTEGRITY, ACCESSIBILITY, AND STEWARDSHIP OF RESEARCH DATA IN THE DIGITAL AGE
EUROPEAN SCIENCE FOUNDATION
EUROHORCs
EUROHORCs and ESF Vision on a Globally Competitive ERA and their Road Map for Actions
Foreword
DINI
DEUTSCHE INITIATIVE FÜR NETZWERKINFORMATION E.V.
Positionspapier Forschungsdaten
Science
data
research
information
climate
TA—WHAT DATA?
Learning to share your results
ARL
BRUSSELS DECLARATION ON STM PUBLISHING

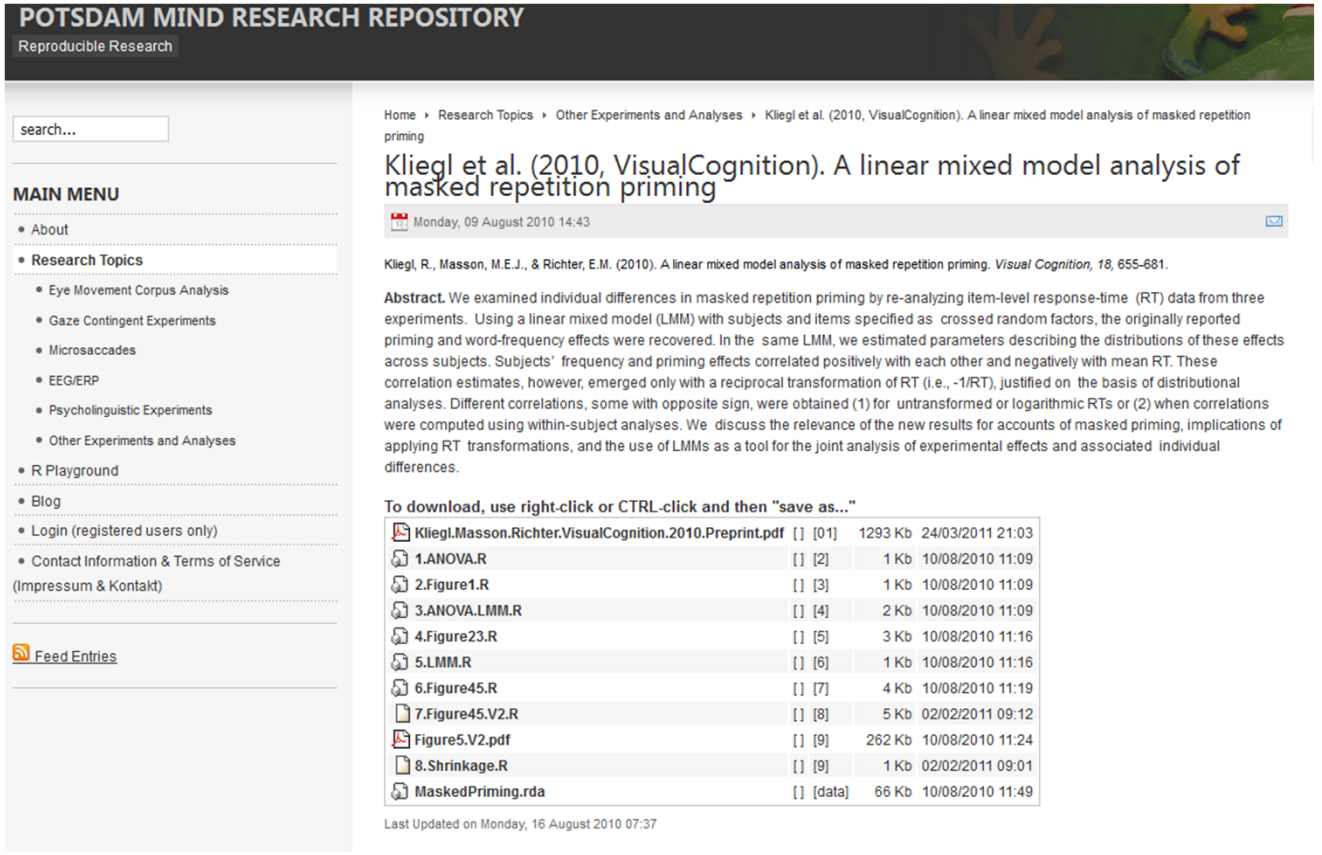

The
FOURTH
PARADIGM
DATA-INTENSIVE SCIENTIFIC DISCOVERY
EDITED BY TONY HEY, STEWART TANSLEY, AND KRISTIN TOLLE

Nature Special: Data Sharing

http://www.nature.com/news/specials/datasharing/index.html

Nature Special: Big Data

Small Data



POTSDAM MIND RESEARCH REPOSITORY

Reproducible Research

search...

MAIN MENU

- About
- Research Topics
  - Eye Movement Corpus Analysis
  - Gaze Contingent Experiments
  - Microsaccades
  - EEG/ERP
  - Psycholinguistic Experiments
  - Other Experiments and Analyses
- R Playground
- Blog
- Login (registered users only)
- Contact Information & Terms of Service (Impressum & Kontakt)

Feed Entries

Home ▸ Research Topics ▸ Other Experiments and Analyses ▸ Kliegl et al. (2010, VisualCognition). A linear mixed model analysis of masked repetition priming

Kliegl et al. (2010, VisualCognition). A linear mixed model analysis of masked repetition priming

Monday, 09 August 2010 14:43

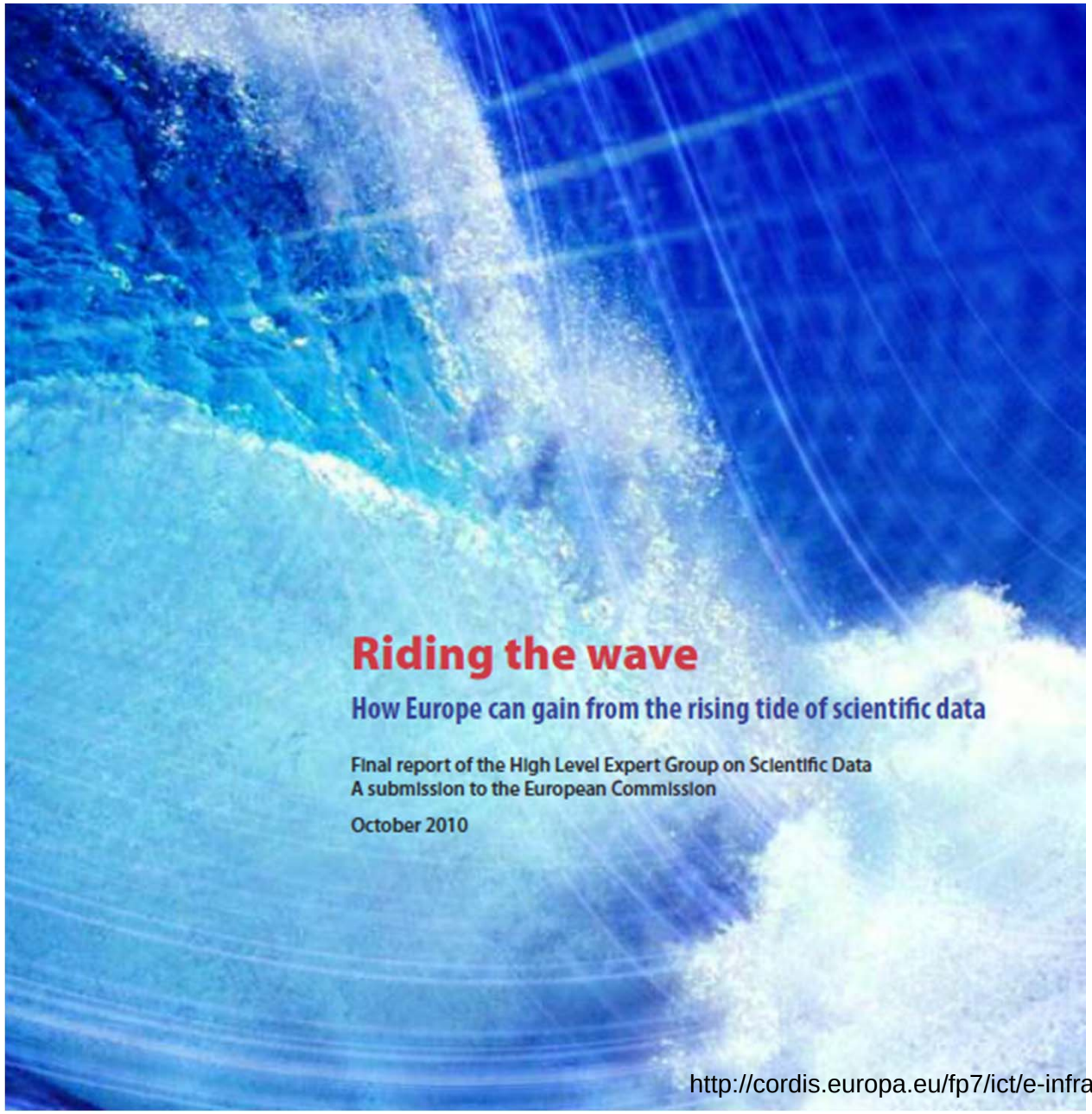
Kliegl, R., Masson, M.E.J., & Richter, E.M. (2010). A linear mixed model analysis of masked repetition priming. *Visual Cognition, 18,* 655-681.

Abstract. We examined individual differences in masked repetition priming by re-analyzing item-level response-time (RT) data from three experiments. Using a linear mixed model (LMM) with subjects and items specified as crossed random factors, the originally reported priming and word-frequency effects were recovered. In the same LMM, we estimated parameters describing the distributions of these effects across subjects. Subjects' frequency and priming effects correlated positively with each other and negatively with mean RT. These correlation estimates, however, emerged only with a reciprocal transformation of RT (i.e., -1/RT), justified on the basis of distributional analyses. Different correlations, some with opposite sign, were obtained (1) for untransformed or logarithmic RTs or (2) when correlations were computed using within-subject analyses. We discuss the relevance of the new results for accounts of masked priming, implications of applying RT transformations, and the use of LMMs as a tool for the joint analysis of experimental effects and associated individual differences.

To download, use right-click or CTRL-click and then "save as..."

Kliegl.Masson.Richter.VisualCognition.2010.Preprint.pdf	[ ] [01]	1293 Kb	24/03/2011 21:03
1.ANOVA.R	[ ] [2]	1 Kb	10/08/2010 11:09
2.Figure1.R	[ ] [3]	1 Kb	10/08/2010 11:09
3.ANOVA.LMM.R	[ ] [4]	2 Kb	10/08/2010 11:09
4.Figure23.R	[ ] [5]	3 Kb	10/08/2010 11:16
5.LMM.R	[ ] [6]	1 Kb	10/08/2010 11:16
6.Figure45.R	[ ] [7]	4 Kb	10/08/2010 11:19
7.Figure45.V2.R	[ ] [8]	5 Kb	02/02/2011 09:12
Figure5.V2.pdf	[ ] [9]	262 Kb	10/08/2010 11:24
8.Shrinkage.R	[ ] [9]	1 Kb	02/02/2011 09:01
MaskedPriming.rda	[ ] [data]	66 Kb	10/08/2010 11:49

Last Updated on Monday, 16 August 2010 07:37



http://cordis.europa.eu/fp7/ict/e-infrastructure/docs/hlg-sdi-report.pdf

Unlocking the full value of scientific data

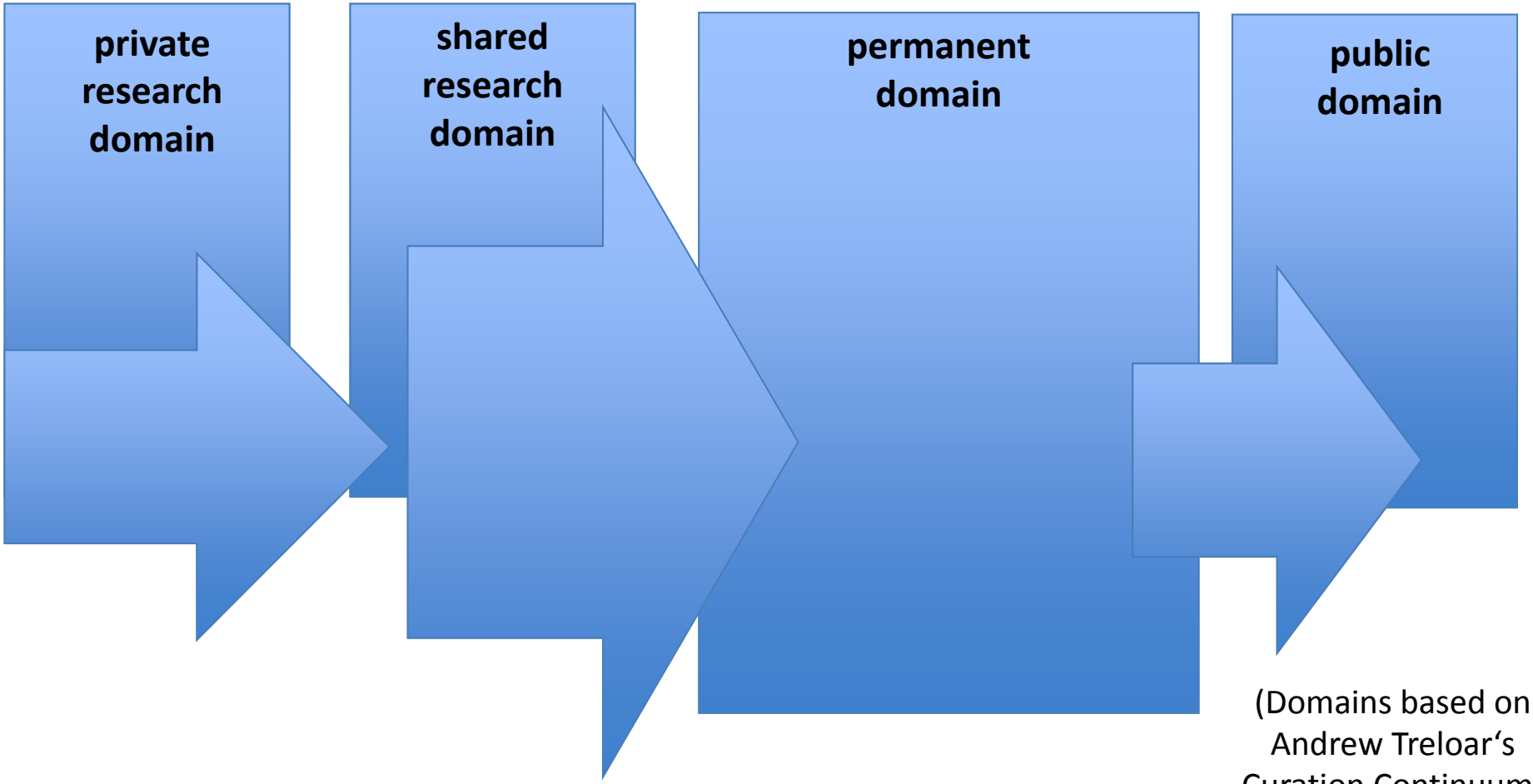
"Our Vision is a scientific e-infrastructure that supports seamless access, use, re-use, and trust of data. In a sense [...] **the data themselves become the infrastructure** – a valuable asset, on which science, technology, the economy and society can advance".

Neelie Kroes,Vice President of the European Commission

Riding the Wave
Werkzeuge - Infrastrukturen

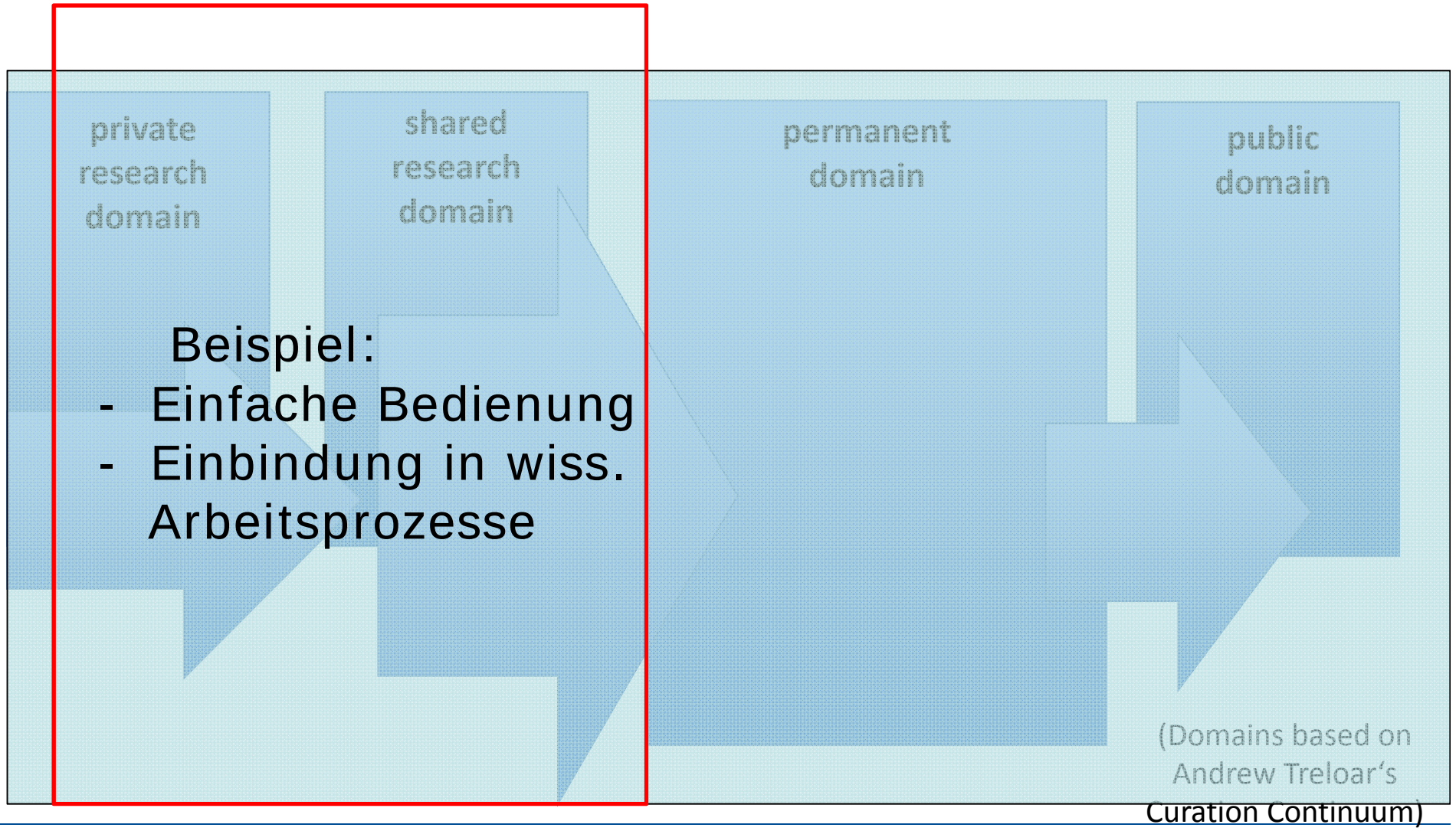
http://www.flickr.com/photos/iansand/1502612712/sizes/s/in/photostream/

Verschiedene Ziele – verschiedene Werkzeuge

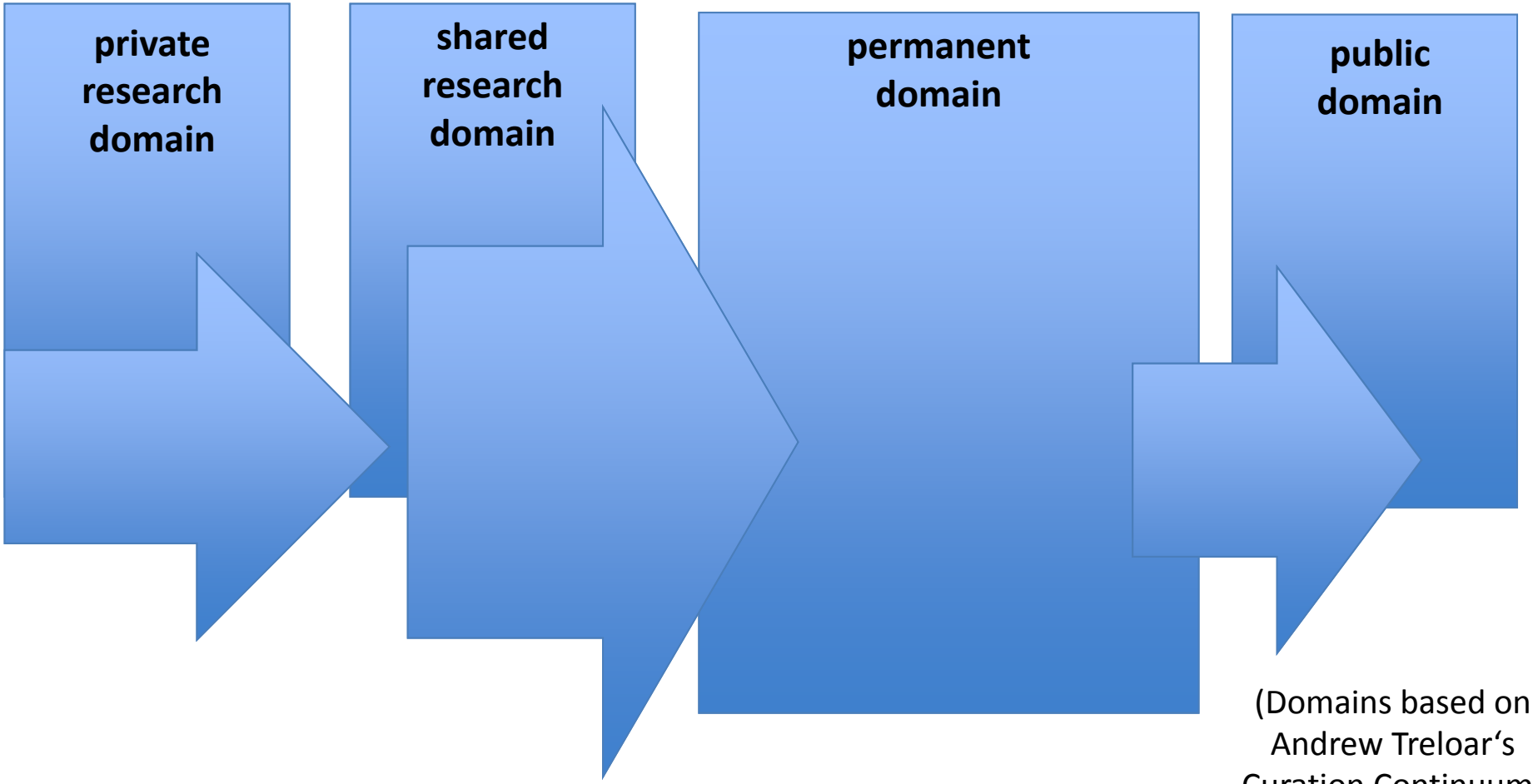


(Domains based on Andrew Treloar‘s Curation Continuum)

Verschiedene Ziele – verschiedene Werkzeuge

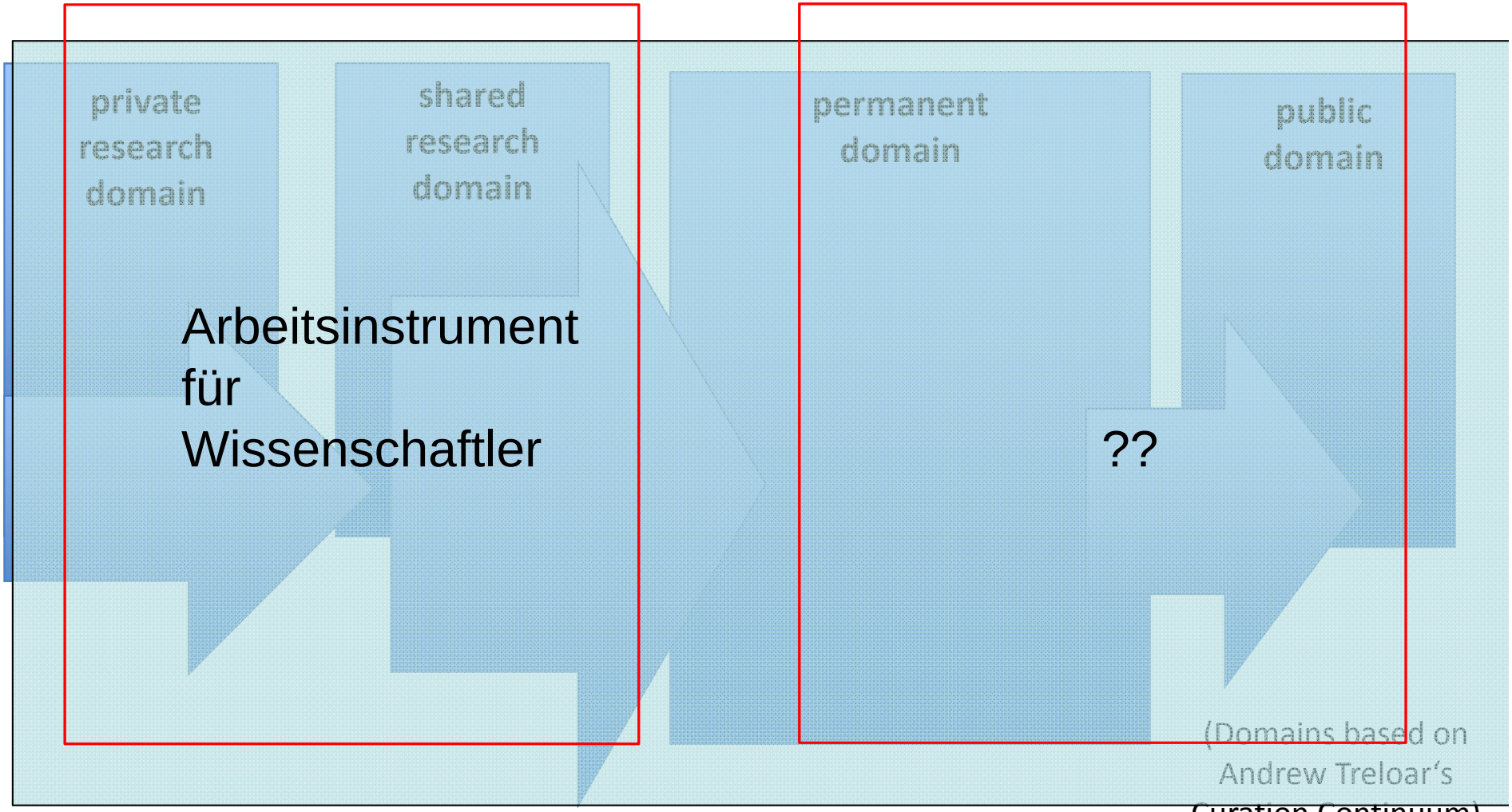


Verschiedene Akteure und Interessen

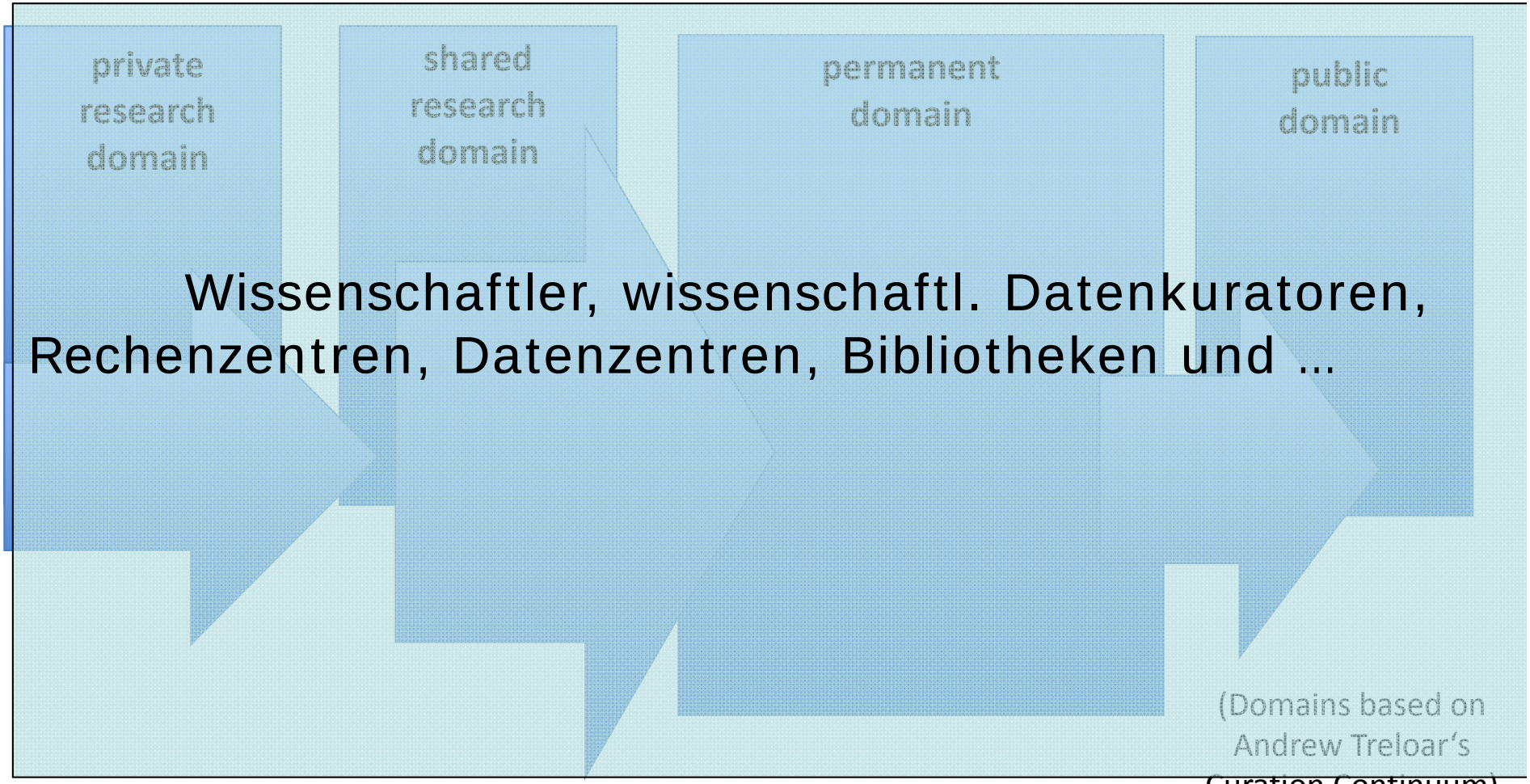


(Domains based on Andrew Treloar‘s Curation Continuum)

Akteure und Interessen



Kümmerer, Helfer und Rollenverteilung



Keiner liebt Metadaten

Qualität und Vertrauenswürdigkeit

The Peer Review Process

All data formally incorporated into the PDS archives must undergo a peer review. The purpose of the review is to determine that:

- The data are complete (e.g., no missing calibration files)
- The data are suitable for archiving (i.e., of sufficient quality and with enough documentation to be useful and intelligible in the distant future)
- The PDS standards have been followed

Any problems identified during the review must be resolved before the data are accepted into the PDS archives.

Before the Review

PDS will organize peer reviews and these will involve both technical specialists on archiving and scientific peers who are not connected with either PDS or the mission (much like referees of journal articles).

The Personnel

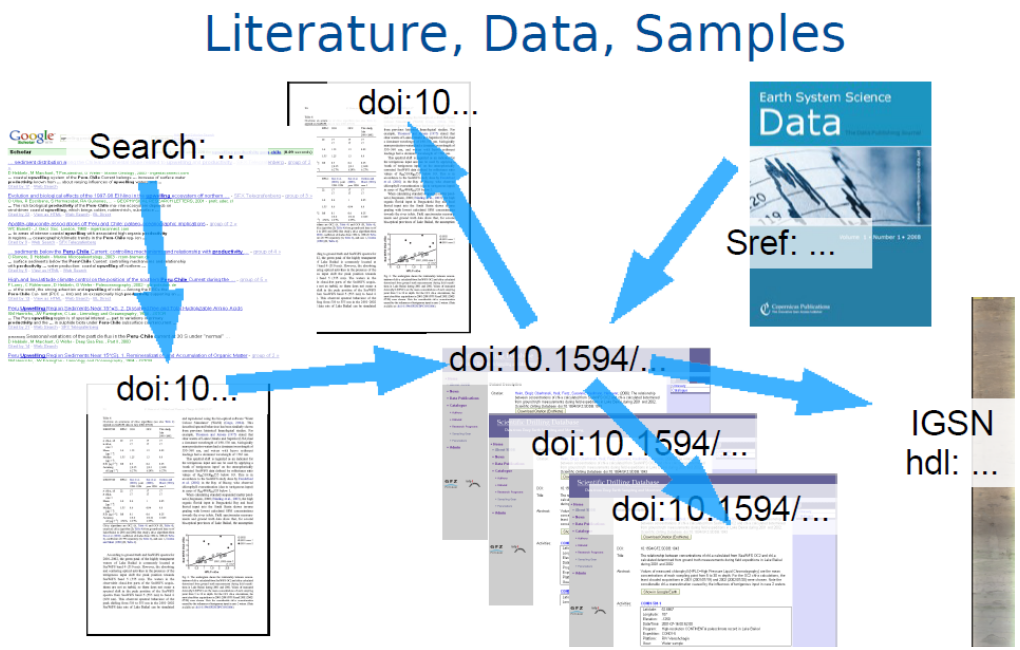
The peer review panel will typically consist of the following people:

- *One or more representatives from the discipline node.*
  The node manager usually chairs the meeting. Other node personnel may be there to address questions about PDS standards, take notes or record liens.
- *The data preparer.*
  A representative for the group responsible for preparing the data for ingestion is also present to answer questions about the formatting and content of the data.
- *The peer reviewers.*
  Generally 2-3 people knowledgeable in the type of data being reviewed, but not directly connected with the project which produced it.

http://pds.nasa.gov/tools/peer-reviews.shtml

Wo bleibt der Lohn?

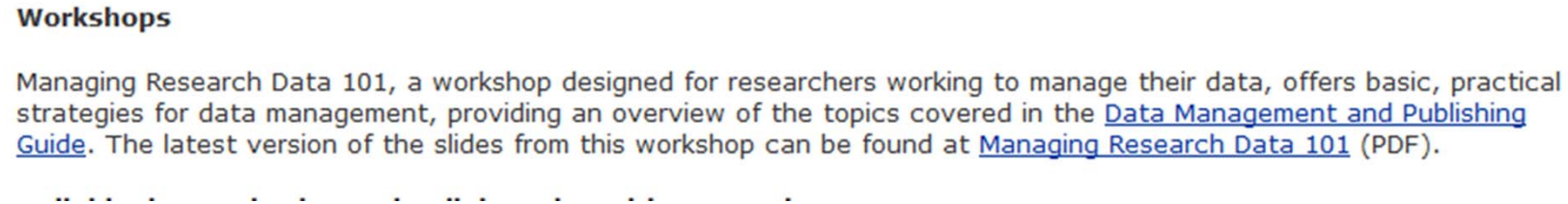
Verknüpfen, Bezüge herstellen – Suchen, finden



Ausbildung

Beispiel:

MIT Managing Research Data 101



Workshops

Managing Research Data 101, a workshop designed for researchers working to manage their data, offers basic, practical strategies for data management, providing an overview of the topics covered in the Data Management and Publishing Guide. The latest version of the slides from this workshop can be found at Managing Research Data 101 (PDF).

http://libraries.mit.edu/guides/subjects/data-management/Managing%20Research%20Data%20101.pdf

Beim nächsten Symposium (?)

Data Mining

Virtuelle Forschungsumgebungen

Visualisierung

Semantik

Schwerpunkt heute: Basics

Interdisziplinär: Blick über den Zaun zum Nachbarn

http://www.flickr.com/photos/nouspique/5394932404/