



Research Data Alliance (RDA) ve DataCite

Berkin Malkoç
İTÜ



4. ULUSAL AÇIK ERİŞİM ÇALIŞTAYI

19-21 EKİM 2015, TÜBİTAK, Ankara

Neden Araştırma Verisi?

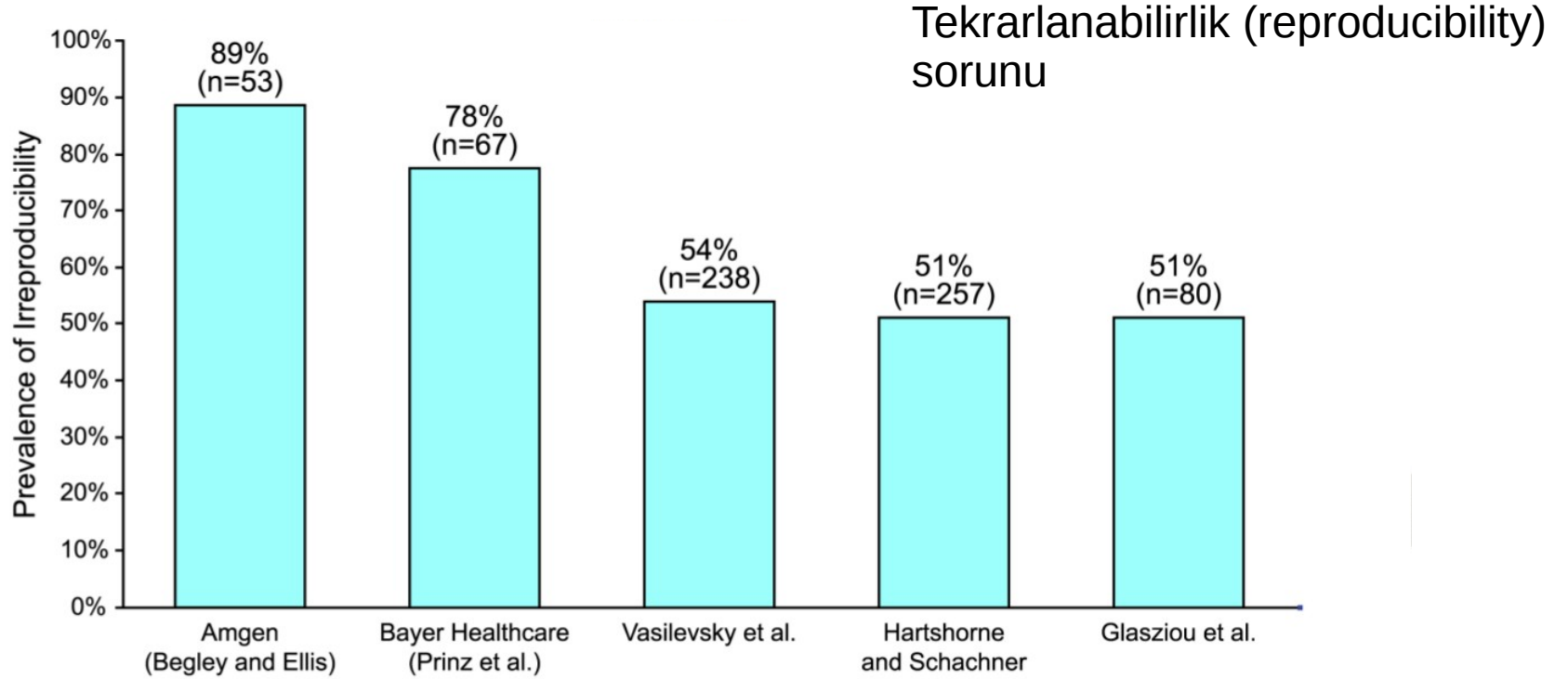


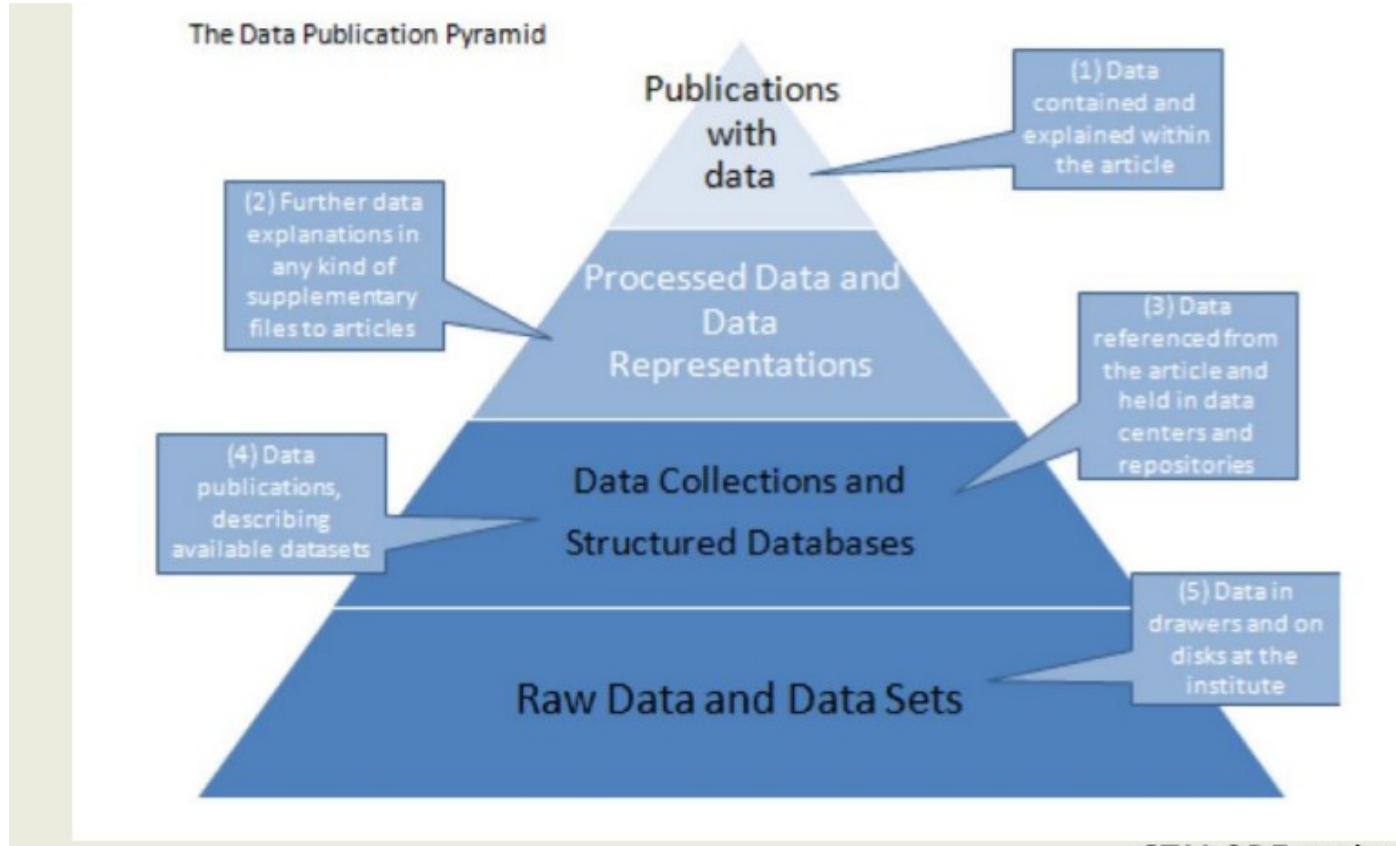
Fig 1. Studies reporting the prevalence of irreproducibility. Source: Begley and Ellis [6], Prinz et al. [7], Vasilevsky [8], Hartshorne and Schachner [5], and Glasziou et al. [9].

doi:10.1371/journal.pbio.1002165.g001

Kaynak: “The Economics of Reproducibility in Preclinical Research”, PloS; doi:10.1371/journal.pbio.1002165

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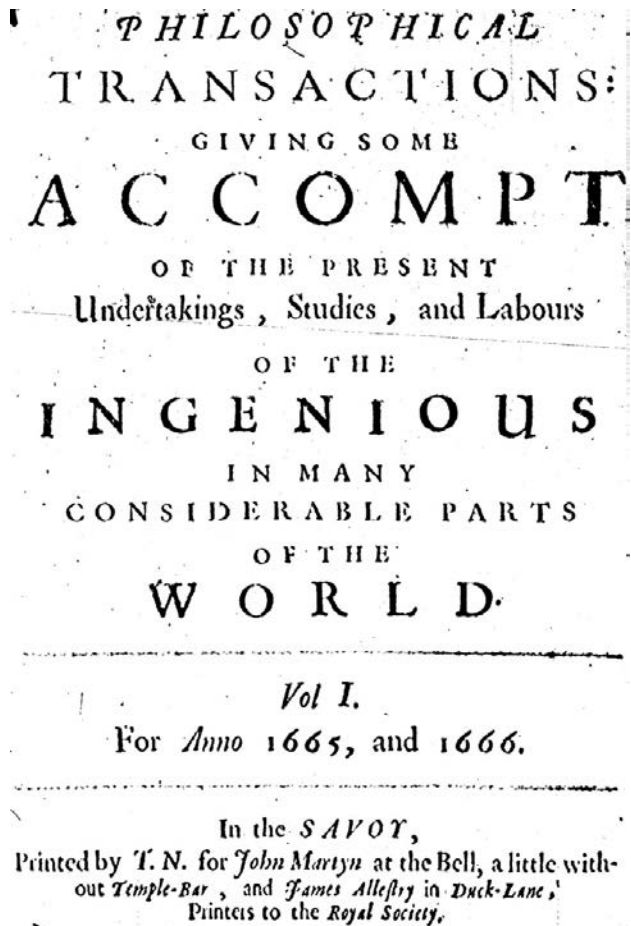
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Kaynak: http://wiki.datadryad.org/wg/dryad/images/b/b2/2013May_DRYAD-intro_Michener.pdf

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Ortam Değişimi: Kağıttan Dijitale



DGY

PERSPECTIVE

The Economics of Reproducibility in Preclinical Research

Leonard P. Freedman^{1*}, Iain M. Cockburn², Timothy S. Simcoe^{2,3}

¹ Global Biological Standards Institute, Washington, D.C., United States of America, ² Boston University School of Management, Boston, Massachusetts, United States of America, ³ Council of Economic Advisers, Washington, D.C., United States of America

* lfreedman@gbsi.org

Abstract

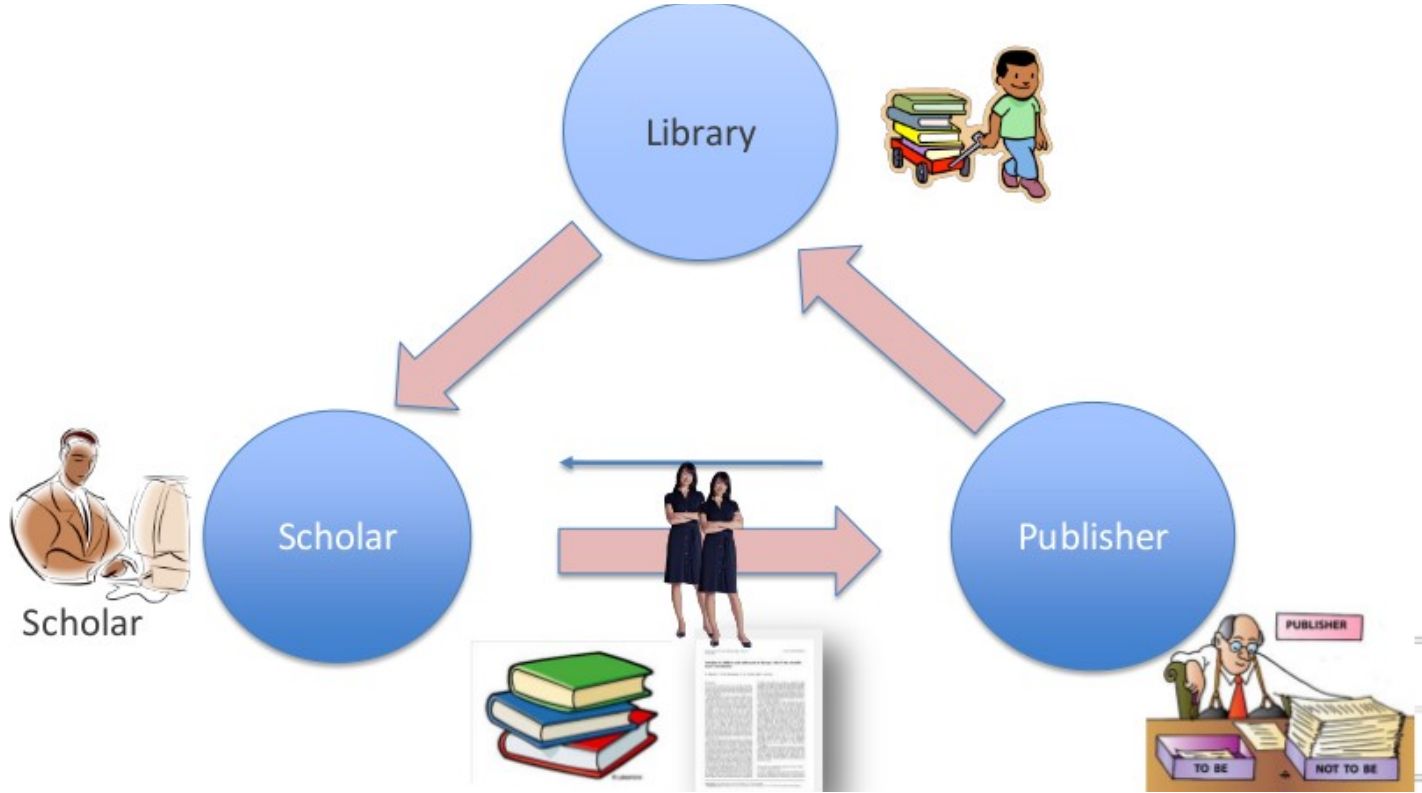
Low reproducibility rates within life science research undermine cumulative knowledge production and contribute to both delays and costs of therapeutic drug development. An analysis of past studies indicates that the cumulative (total) prevalence of irreproducible preclinical research exceeds 50%, resulting in approximately US\$28,000,000,000 (US \$28B)/year spent on preclinical research that is not reproducible—in the United States alone. We outline a framework for solutions and a plan for long-term improvements in reproducibility rates that will help to accelerate the discovery of life-saving therapies and cures.

simcoe TS
/ in
1002165.

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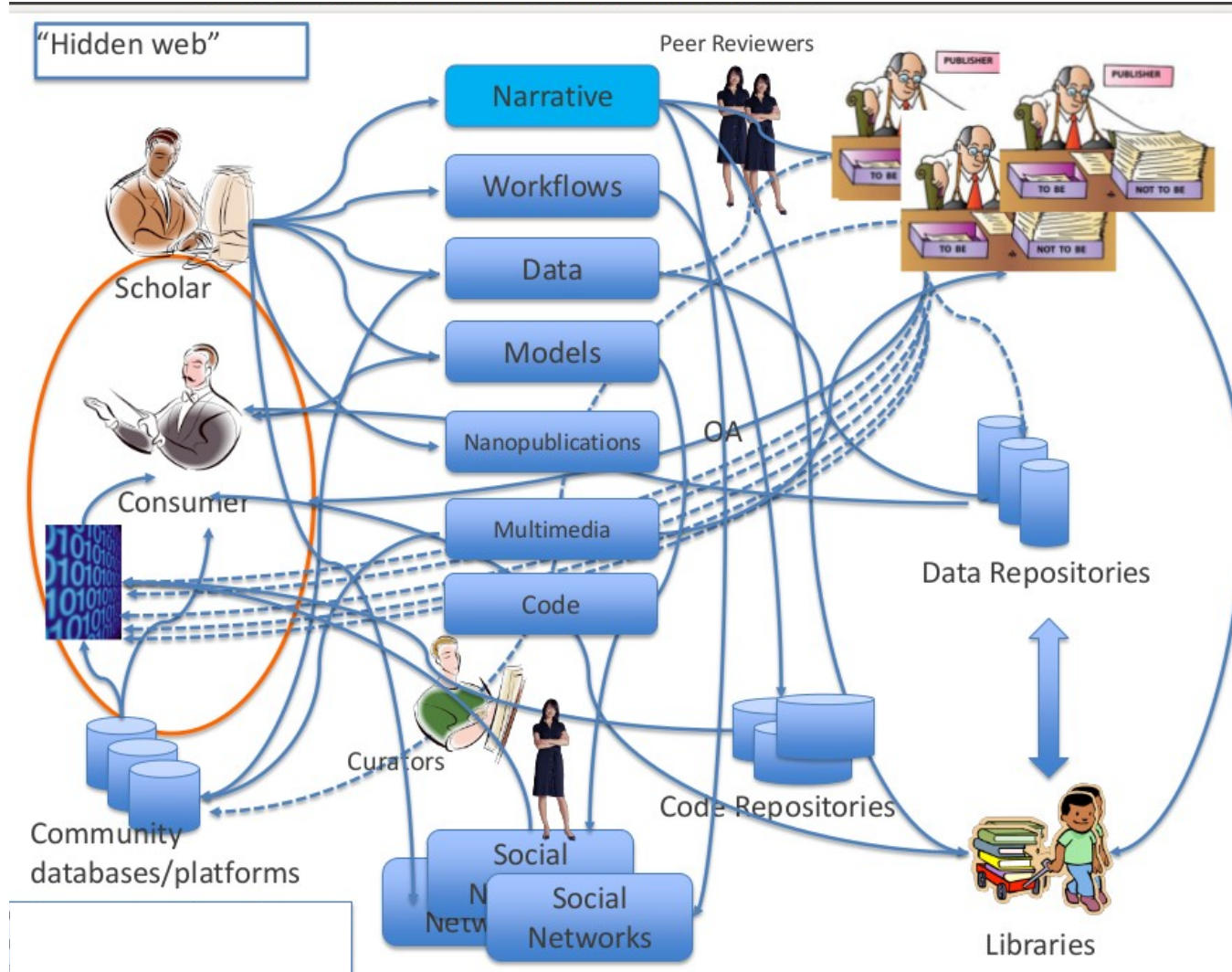
Ortam Deęiřimi: Kaęıttan Dijitale



Kaynak: FORCE11.org: Future of research communications and e-scholarship

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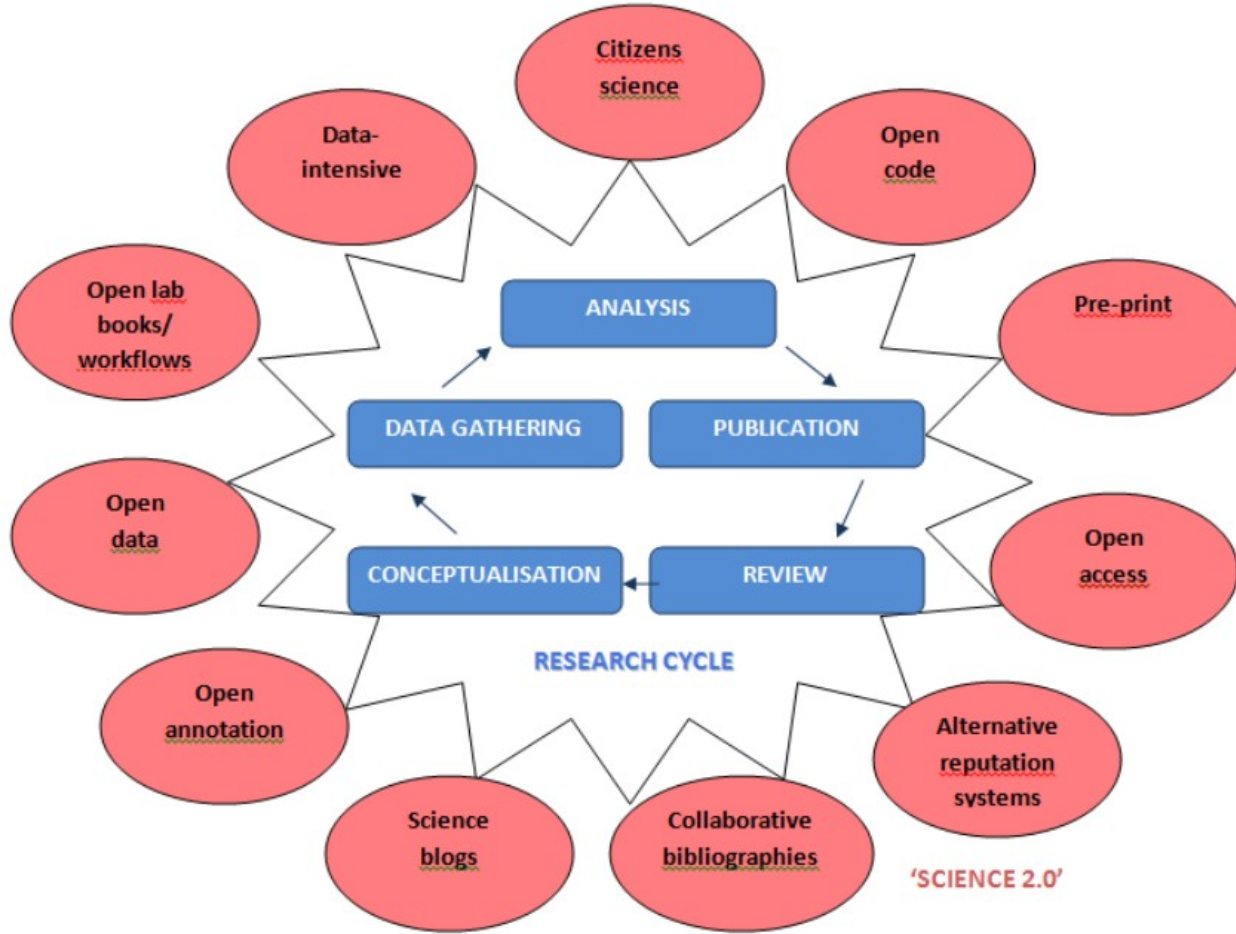
Ortam Değişimi: Kağıttan Dijitale



Kaynak: FORCE11.org: Future of research communications and e-scholarship

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Bilim 2.0

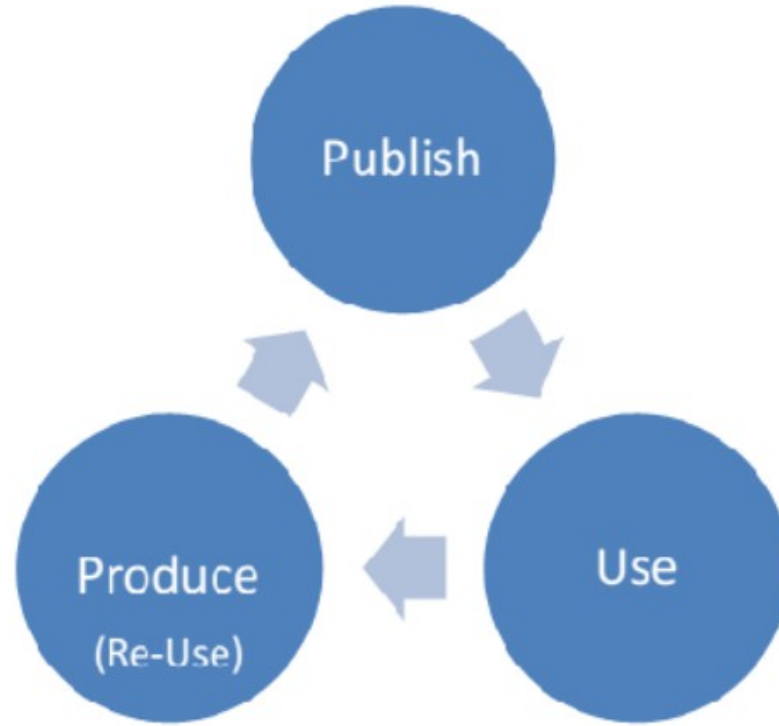


Kaynak: Avrupa Komisyonu - PUBLIC CONSULTATION 'SCIENCE 2.0': SCIENCE IN TRANSITION

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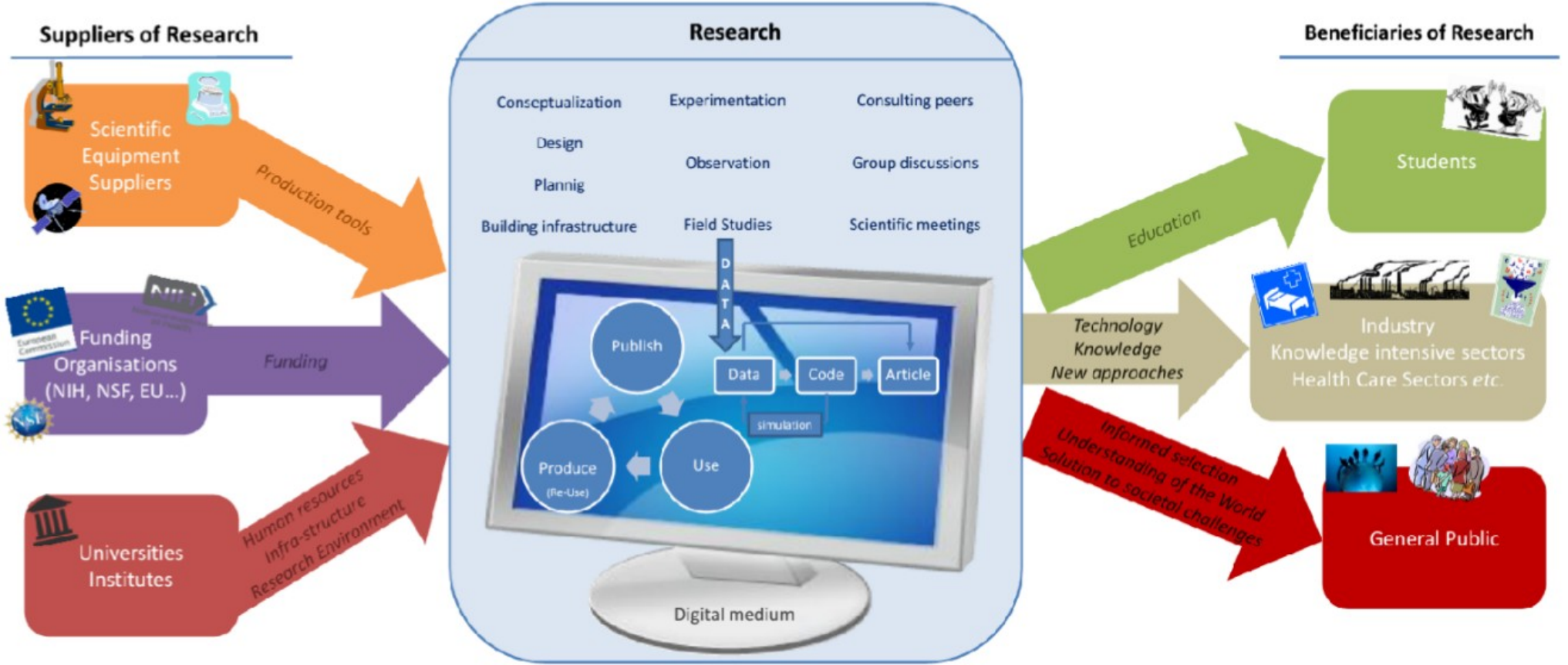
Araştırma Döngüsü



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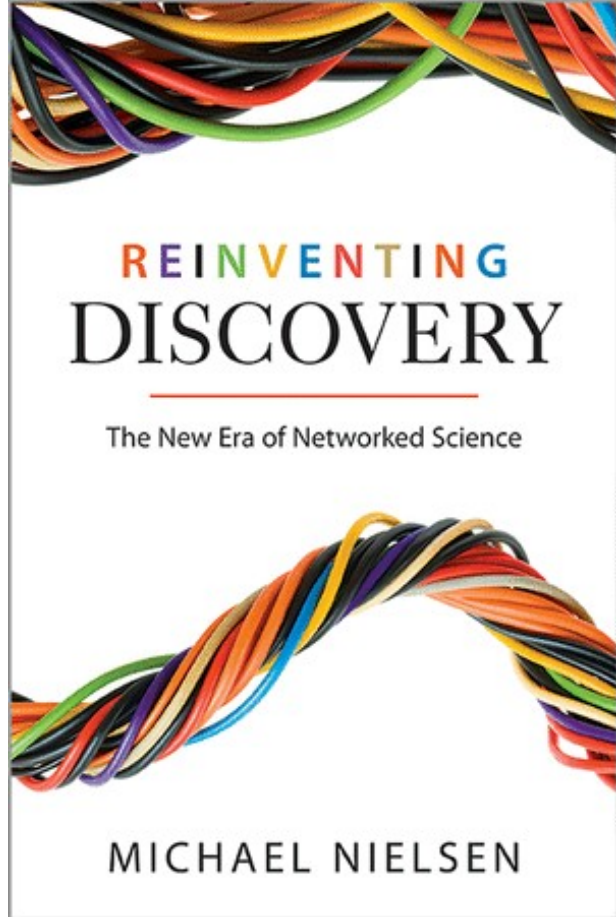
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Bilim Değer Zinciri ve Dijitale Geçiş



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Neden RDA ve DataCite



“Kolektif Dönüşüm Problemi”

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Interuniversity Consortium for Political & Social Research (ICPSR)

Editor(s): Alter, George (Acting Director)

Source: Inter-university Consortium for Political & Social Research

Source URL: <http://www.icpsr.umich.edu> (Viewed Date: 05 JAN 2011) **Published Year:** 1988

Cited References: 0

Abstract: An international consortium of about 700 academic institutions and research organizations, ICPSR provides leadership and training in data access, curation, and methods of analysis for the social science research community. ICPSR maintains a data archive of more than 500,000 files of research in the social sciences. It hosts 16 specialized collections of data in education, aging, criminal justice, substance abuse, terrorism, and other fields. ICPSR's educational activities include the Summer Program in Quantitative Methods of Social Research, a comprehensive curriculum of intensive courses in research design, statistics, data analysis, and social methodology. ICPSR also leads several initiatives that encourage use of data in teaching, particularly for undergraduate instruction. ICPSR-sponsored research focuses on the emerging challenges of digital curation and data science. ICPSR researchers also examine substantive issues related to our collections, with an emphasis on historical demography and the environment. ICPSR receives grants from a number of government agencies and private foundations. ICPSR is a unit within the Institute for Social Research at the University of Michigan and maintains its office in Ann Arbor. Copyright U.S. Dept. of Justice.

Document Type: Repository

Data Type: Survey

Accession Number: DATA20110500123457

Language: English

Author Keywords: Organizations; Teaching; Social research; University of Michigan

Times Cited: 8,512

This article has been cited 8,512 times in All Databases.

Felson RB, Messner SF. Disentangling the effects of gender and intimacy on victim precipitation in homicide. *CRIMINOLOGY* 36(2) 4 March 1988: 405-409.

John A. The role of victim characteristics in the disposition of murder cases. *JUSTICE QUARTERLY* 17 (2) 2000: 281-307.

Devon D. Brewer, Jonathan A. Dudek, John J. Potterat, Stephen Q. Muth, John M. Roberts Jr., Donald E. Woodhouse J.D. Extent, Trends, and Perpetrators of Prostitution-Related Homicide in the United States. *JOURNAL OF FORENSIC SCIENCES* 51 (5) 2006: 1101-1108.

Additional information

4. ULUSAL AÇIK ERİŞİM ÇALIŞTAYI
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RDA - “3N1K”

“RDA is building the social and technical bridges that enable open sharing of data to achieve its vision of researchers and innovators openly sharing data across technologies, disciplines, and countries to address the grand challenges of society.”

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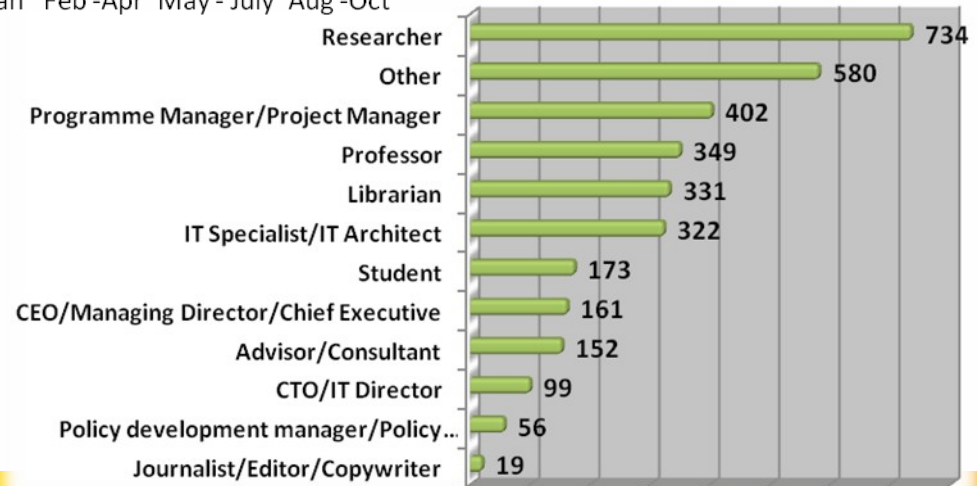
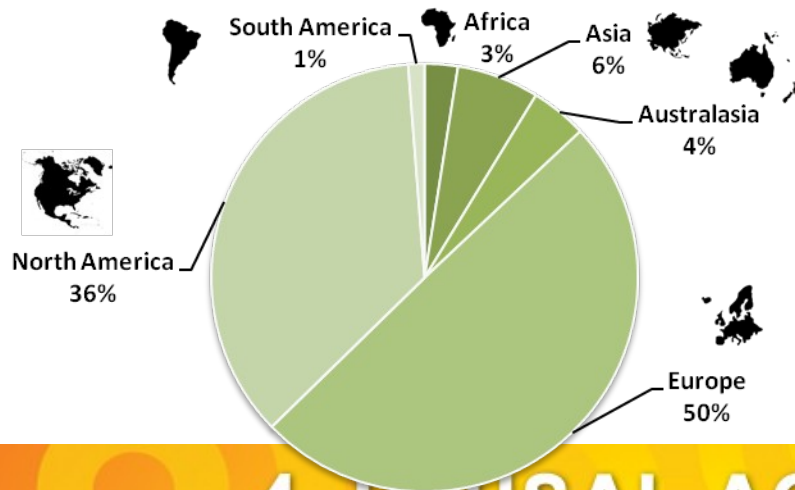
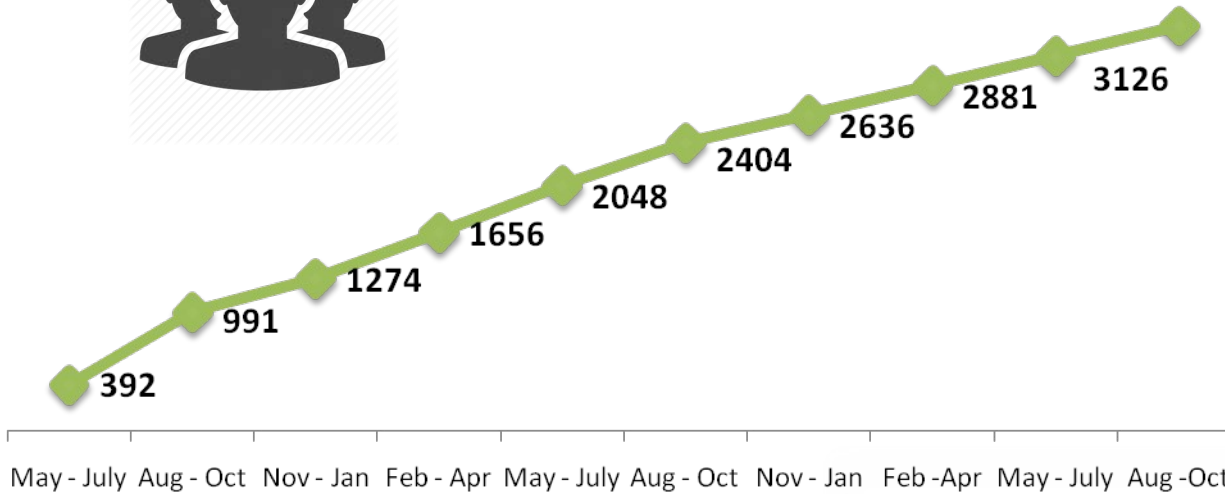
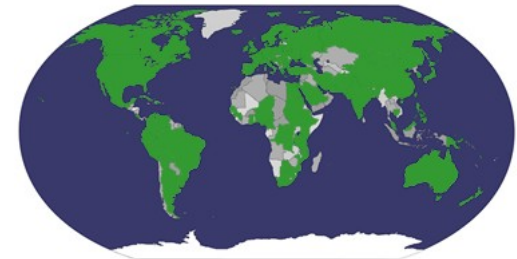
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RDA – KİM?



Total RDA Community Members: 3378

from 104 countries



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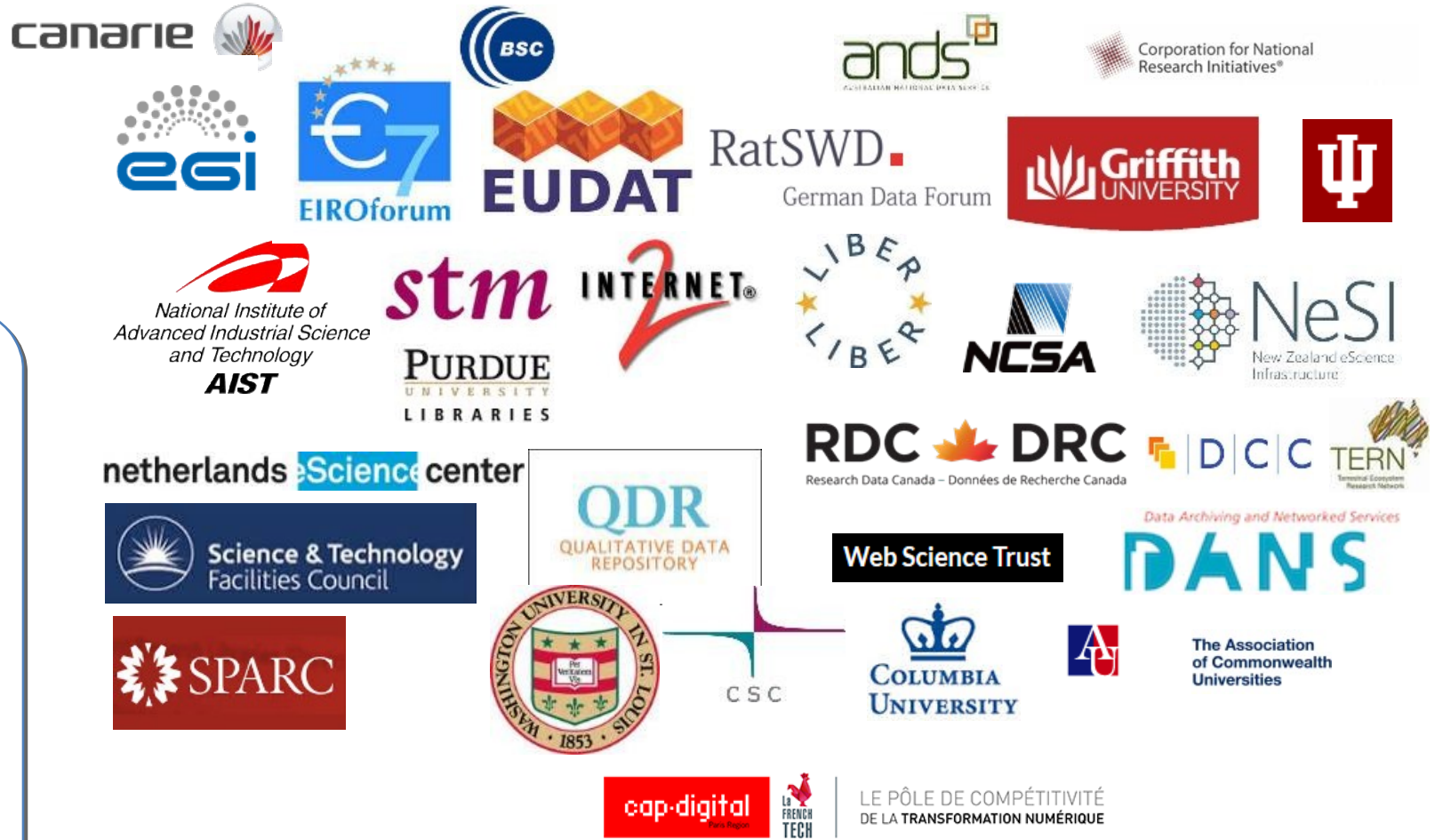
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RDA – KİM?



**RDA
Organisation
al Members**

**RDA Affiliate
Members**



ULUSAL AÇIK ERİŞİM ÇALIŞTAYI
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RDA – Ne Zaman?

RDA Launch /
First Plenary

RDA Second
Plenary

RDA Third
Plenary

RDA Fourth
Plenary

RDA Fifth
Plenary

March 2013

September 2014

March 2014

September 2014

March 2015



Gothenburg,
Sweden



DC, USA



Dublin, Ireland



Amsterdam,
Netherlands



San Diego,
CA, USA



240 participants

380 participants from 22
countries

497 Participants from
32 countries

550 Participants
from 40 countries

383 Participants from 30
countries



First Working Groups
and Interest Groups

First “neutral space”
community meeting (Data
Citation Summit)

First Organizational
Assembly

6 co-located events

1st RDA
Deliverables
presented

Organizational
Assembly and first
OAB / Council
meeting

2nd RDA Deliverables
presented

Organizational Assembly /
Council meetings

1st Adoption Day & Large
scale data projects
meeting



First Organizational
Partner Meet-up

First BOFs

14 BOF,
12 Working Groups, 22
Interest Groups

10 co-located
events

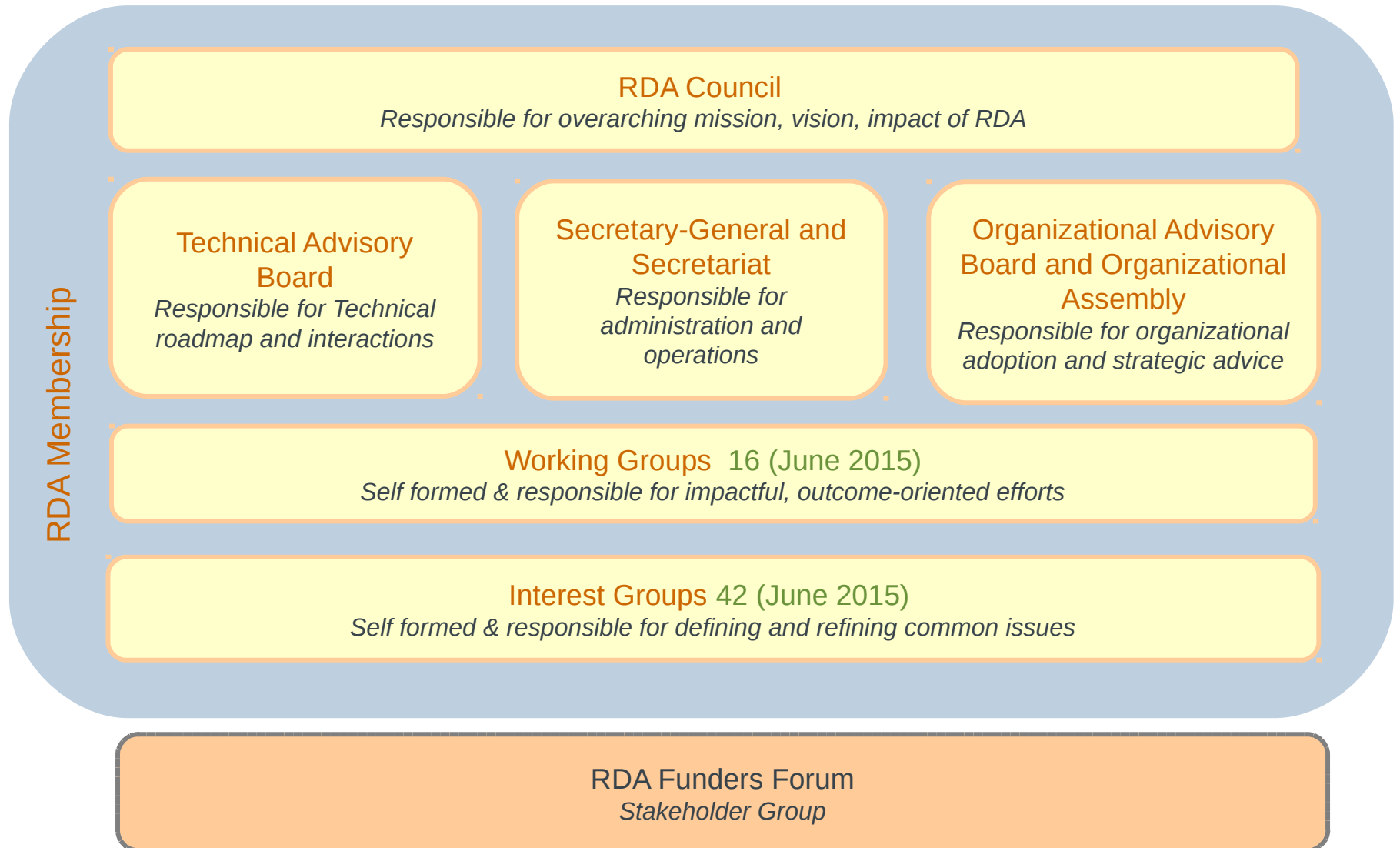
11 BOF,
14 Working Groups,
36 Interest Groups

10 BOF, 10 Working
Groups, 20 Interest
Groups; 10 joint
Sessions; 4
thematic Plenary
Sessions

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RDA – Nasıl?



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RDA – Ne?

Domain Science - focused

- Toxicogenomics Interoperability IG
- Structural Biology IG
- Biodiversity Data Integration IG
- Agricultural Data Interoperability IG
- **Wheat Data Interoperability WG**
- Digital Practices in History and Ethnography IG
- Geospatial IG
- Marine Data Harmonization IG
- Metabolomics IG
- RDA/CODATA Materials Data Infrastructure and Interoperability IG
- Research Data Needs of the Photon and Neutron Science Community IG
- Defining Urban Data Exchange for Science IG
- **The BioSharing Registry: Connecting data policies, standards and databases in the life sciences WG**
- Urban Quality of Life Indicators IG

Community Needs - focused

- Community Capability Model IG
- Engagement IG
- RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World IG
- Development of Cloud Computing Capacity and Education in Developing World Research IG
- Data for Development IG
- Education and Training on handling of research data IG

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RDA – Ne?

Reference and Sharing - focused

- **Data Citation WG**
- **Standardization of Data Cat. and Codes WG**
- RDA/CODATA Legal Interoperability IG
- Reproducibility IG
- **Data Description Registry Interoperability Working Group**
- **RDA / WDS Publishing Data Bibliometrics WG**

Data Stewardship and Services - focused

- Research Data Provenance IG
- Preservation e-infrastructure IG
- **RDA / WDS Publishing Data Services WG**
- **RDA / WDS Publishing Data Workflows WG**
- Long-tail of Research Data IG
- RDA/WDS Publishing Data IG
- **RDA/WDS Repository Audit and Certification**
- **DSA-WDS Partnership WG**
- Domain Repositories Interest Group
- Brokering Interest Group
- ELIXIR Bridging Force IG
- Libraries for Research Data IG* RDA / WDS Certification of Digital Repositories IG
- RDA / WDS Publishing Data Cost Recovery for Data Centres IG

Base Infrastructure - focused

- **Data Foundation and Terminology WG**
- **Metadata Standards Directory WG**
- **Practical Policy WG**
- **PID Information Types WG**
- **Data Type Registries WG**
- Data in Context IG
- Big Data Analytics IG
- **Brokering Governance WG**
- Federated Identity Management IG
- Metadata IG
- PID Interest Group
- Service Management IG
- Data Fabric IG

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DataCite - “3N1K”

“Supporting research by helping people find, share, use, and cite data”

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DataCite – Kim?

CISTI – Canada Institute for Scientific and Technical Information

California Digital Library, USA

Purdue University, USA

OSTI – Office of Scientific and Technical Information, USA

The British Library

TIB, Germany

ZB MED, Germany

ZBW, Germany

GESIS, Germany

University of Tartu, Estonia

JaLC – Japan Link Center

DTIC – Technical Information Center of Denmark

Library of TU Delft, The Netherlands

Library of ETH Zürich, Switzerland

INIST – L'Institut de l'Information Scientifique et Technique, France

SND – Swedish National Data Service

ANDS – Australian National Data Service

NRCT – National Research Council of Thailand

The Hungarian Academy of Sciences

CRUI – Conferenza dei Rettori delle Università Italiane

SAEON – South African Environmental Observation Network

CERN – European Organization for Nuclear Research

BIBSYS – Library System, Norway

Affiliated members:

Digital Curation Center, UK

Microsoft Research, USA

ICPSR – Interuniversity Consortium for Political and Social Research, USA

KISTI – Korea Institute of Science and Technology Information

BGI – Beijing Genomic Institute, China

IEEE, USA

Harvard University Library, USA

GWDG, Germany

DataCite – Kim?

All around the world



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DataCite – Kim?

Our structure



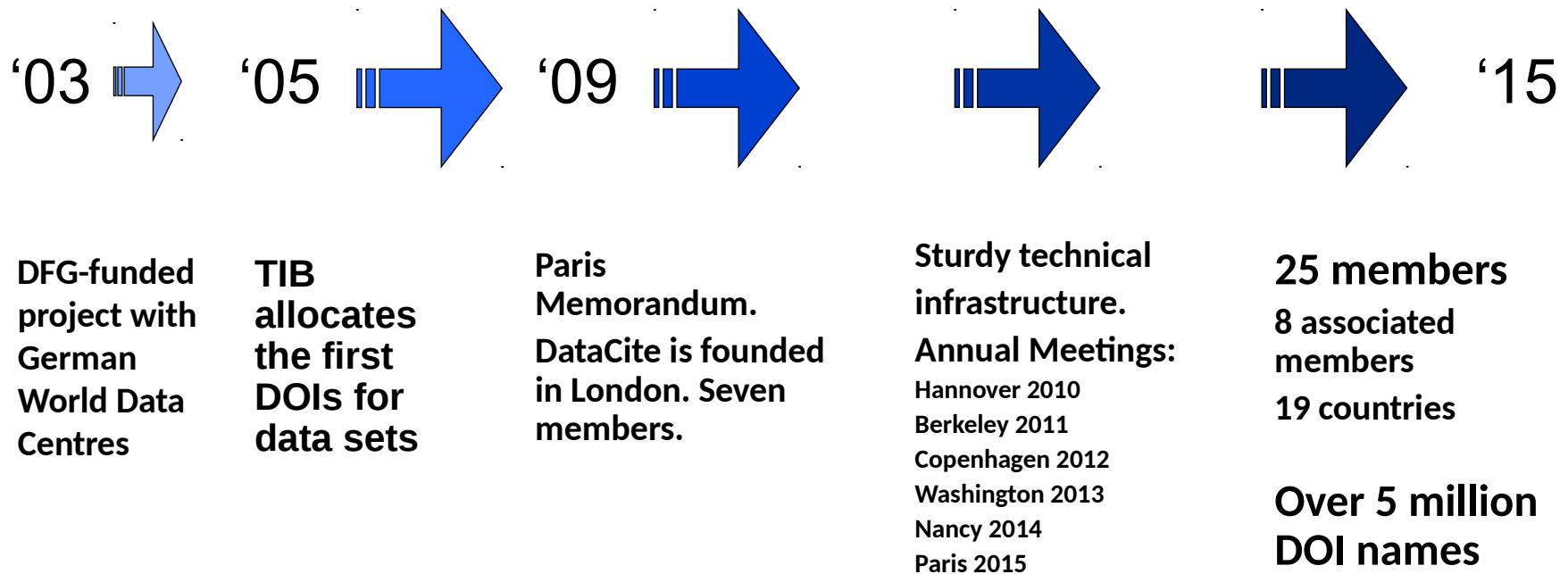
- DataCite has 24 members and 8 affiliate members



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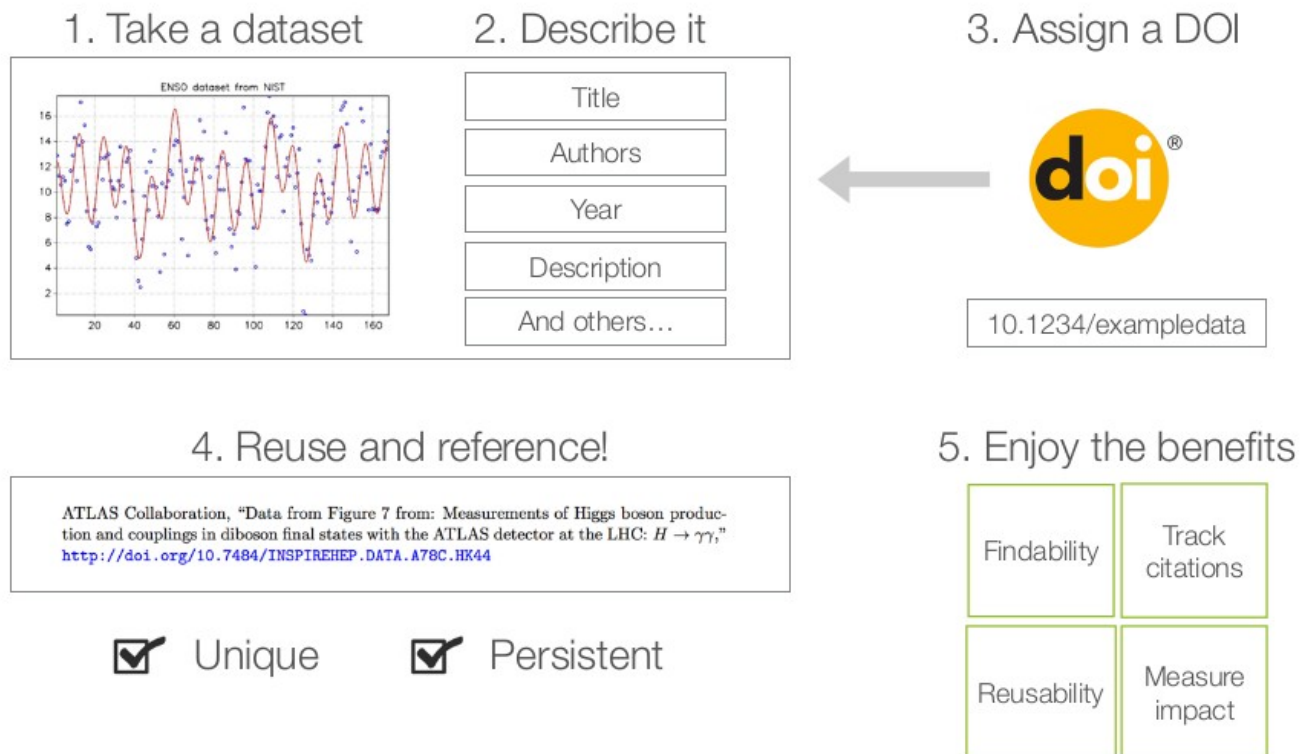
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DataCite – Ne Zaman?



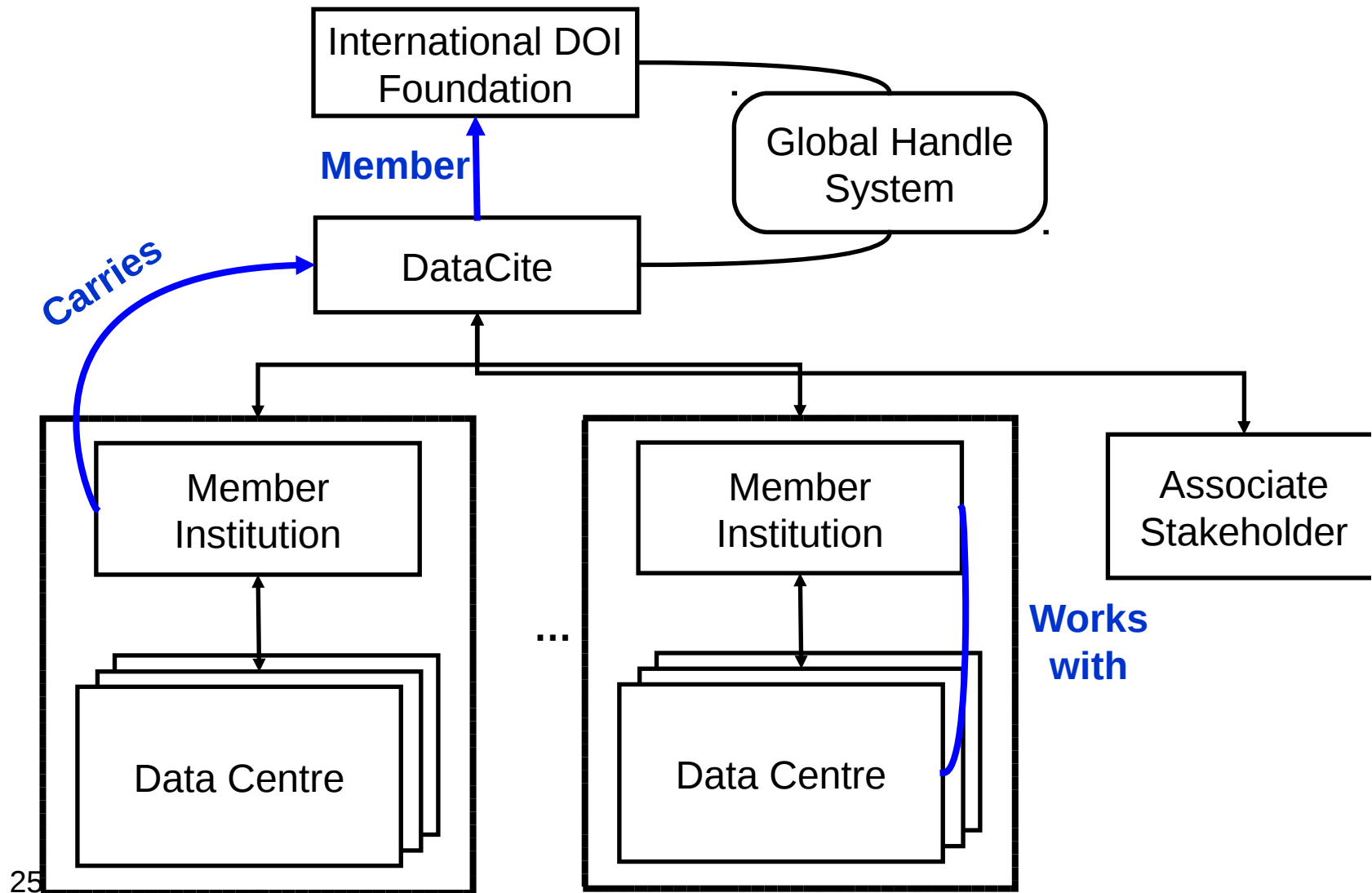
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Using DOIs



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DataCite – Nasıl?



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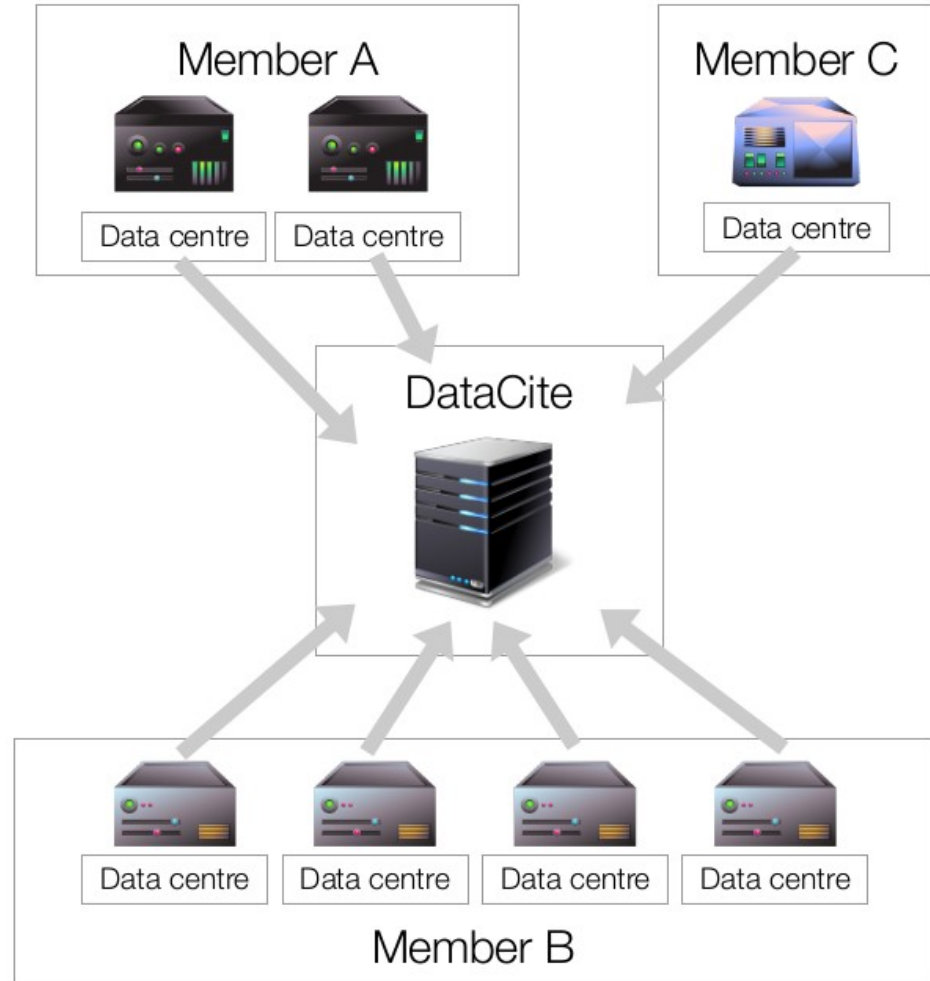
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DataCite – Nasıl?

Technical infrastructure

- DataCite serves all the data centres using a centralised infrastructure
- Same end-point for all of them
- Becoming a member does not require to set up any technical infrastructure



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Goyet, Catherine; Maren Tracy; Torvald Köhlin
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Subject

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- > Dioxide

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Data Description

Citation: Goyet, Catherine (2003): Partial pressure of CO2 in air, along ship track of cruise TT007. doi:10.1594/PANGAEA.120919

Reference(s): Goyet, Catherine (2003): Partial pressure of carbon dioxide measured underway. *United States JGOFS Process Study Data 1989-1998; CD-ROM volume 1, version 2*, Woods Hole Oceanographic Institution, USA: U.S. JGOFS Data Management Office

Project(s): Joint Global Ocean Flux Study (JGOFS)

Coverage: West: -140.5330 * East: -139.6990 * South: -0.0448 * North: 1.4567
Date/Time Start: 1992-02-21T14:02:00 * Date/Time End: 1992-02-26T20:34:00
Minimum ALTITUDE: 10.0 m * Maximum ALTITUDE: 10.0 m

Event(s): TT007-track * Latitude: 1.0880 * Longitude: -140.0370 * Elevation: 0.0 m * Date/Time: 1992-02-21T14:00:00 * Latitude 2: 0.0762 * Longitude 2: -140.4194 * Elevation 2: 0.0 m * Date/Time 2: 1992-02-26T21:00:00 * Campaign: TT007 * Basis: Thomas G. Thompson * Device: Measurements along cruise track



Further details: http://store.pangaea.de/Projects/JGOFS/US/EpuaPacific/GoyetC_pCO2.htm

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Deep Sea Research Part I: Oceanographic Research Papers
Volume 56, Issue 1, January 2009, Pages 107-124

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doi:10.1016/j.dsr.2008.08.009

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Seasonal and interannual variability of the planktic foraminiferal flux in the vicinity of the Azores Current

David Storz^{a, 1}, Hartmut Schulz^{a,  }, Joanna J. Waniek^b, Detlef E. Schulz-Bull^b and Michal Kučera^a^aInstitute for Geosciences, Sigwartstraße 10, D-72076 Tübingen, Germany^bLeibniz Institute for Baltic Sea Research Warnemünde, Seestraße 15, D-18119 Rostock, Germany

Received 16 April 2007; revised 14 August 2008; accepted 21 August 2008. Available online 24 September 2008.

Abstract





Planktic foraminiferal (PF) flux and faunal composition from three sediment trap time series of 2002–2004 in the northeastern Atlantic show pronounced year-to-year variations despite similar sea surface temperature (SST). The averaged fauna of the in 2002/2003 is dominated by the species *Globigerinita glutinata*, whereas in 2003/2004 the averaged fauna is dominated by *Globigerinoides ruber*. We show that PF species respond primarily to productivity, triggered by the seasonal dynamics of vertical stratification of the upper water column. Multivariate statistical analysis reveals three distinct species groups, linked to bulk particle flux, to chlorophyll concentrations and to summer/fall oligotrophy with high SST and stratification. We speculate that the distinct nutrition strategies of strictly asymbiotic, facultatively symbiotic, and symbiotic species may play a key role in explaining their abundances and temporal succession. Advection of water masses within the Azores Current and species expatriation result in a highly diverse PF assemblage. The Azores Frontal Zone may have influenced the trap site in 2002, indicated by subsurface water cooling, by highest PF flux and high flux of the deep-dwelling species *Globorotalia scitula*. Similarity analyses with core top samples from the global ocean including 746 sites from the Atlantic suggest that the trap faunas have only poor analogs in the surface sediments. These differences have to be taken into account when estimating past oceanic properties from sediment PF data in the eastern subtropical North Atlantic.

Keywords: Eastern North Atlantic; Planktic foraminifers; Sediment trap; Azores Current; Particle flux; Species ecology

Article Outline

1. Introduction
2. Hydrography and ecology of the study area
 - 2.1. Oceanography
 - 2.2. Mixed-layer depth and primary production
 - 2.3. Mesoscale variability of the AC/AFZ system
3. Material and methods
 - 3.1. Sediment trans

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Supplementary Content within this Article




Table A a,b: Trap L1/K276-22 (2000 m). (a) Relative contributions of the 28 planktic foraminiferal species or species varieties and More...

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DataCite – Nasıl? (metadata)

Metadata



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Creator	Contributor	Alternate ID
Title	Date	Size
Publisher	Resource Type	Format
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	Description	Rights
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<https://schema.datacite.org>

XML
Current version 3.1

DataCite – Nasıl? (kullanıcı)

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ve

Patricia Cruse, DataCite

Laura Rueda, DataCite

4. ULUSAL AÇIK ERİŞİM ÇALIŞTAYI

19-21 EKİM 2015, TÜBİTAK, Ankara