



RDA a chance for Science in Germany?

Doris Wedlich

RDA-HGF Meeting Berlin 7.7.2014

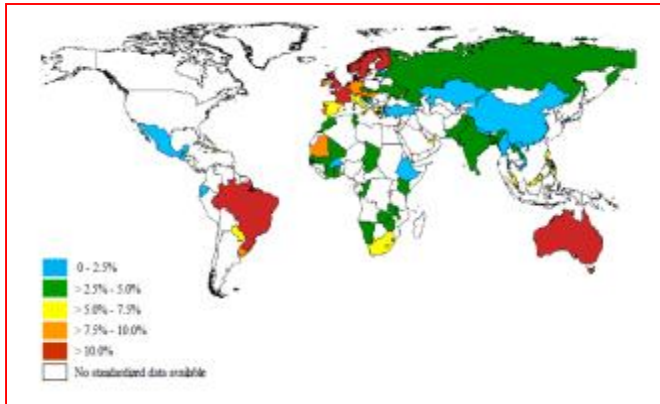
research data sharing without barriers
rd-alliance.org



How and why did RDA start?
The structure of RDA
Last developments and activities!

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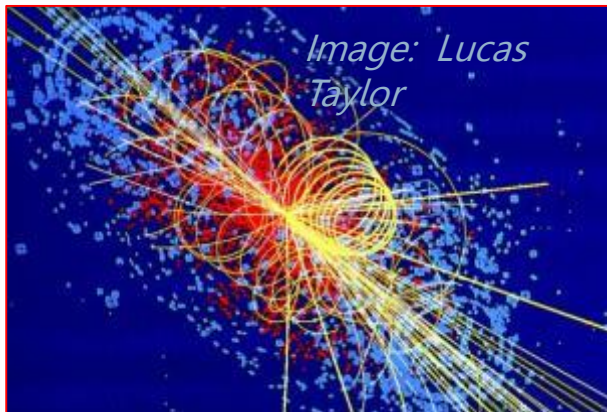
Research Data Driving Solutions to Complex Scientific and Societal Challenges



Who is most at risk to contract asthma?



How can we ensure sufficient food production?



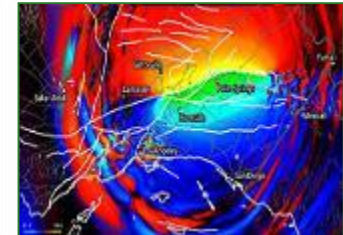
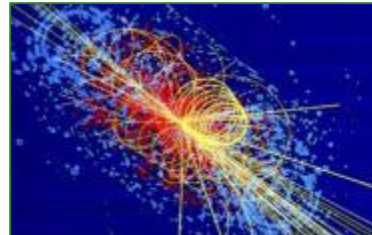
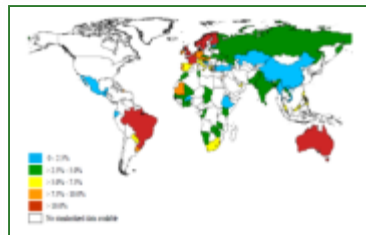
How accurate is the Standard Model of Physics?



Image: Ceinturion, Wikipedia

How can we best address energy needs, supply and sustain the environment?

Data Infrastructure Needed to Support Data-Driven Research



**Research
Dissemination and
Reproducibility**

**Data Use
and
Re-use**

**Data Access (now)
and Preservation
(later)**

**Data Discovery
and Data
Sharing**

**Data Access and
Distribution Policy**

**Institutional Data
Sharing Practice**

**Data
Discovery Tools**

**Digital Object
Identifiers**

**Common
Metadata Standards**

**Data Citation
Standards**

**Data
Preservation Practice**

**Data
Analytics Algorithms**

**Data Scientists and
Expert Support**

**Curation Practice
and Policy**

**Sustainable
Economic Models**

**Auditing, Certification and
Reporting Practice**

From Shared Research Data Infrastructure to future proof investments

- All countries need data infrastructure to tackle the big problems
- Many countries developing open research data policies
- Countries need to share the cost of research data infrastructure
- Need to future proof investments
- RDA is a good way of lowering the cost and increasing the interoperability of research data infrastructure



Alan Blatecky (NSF)

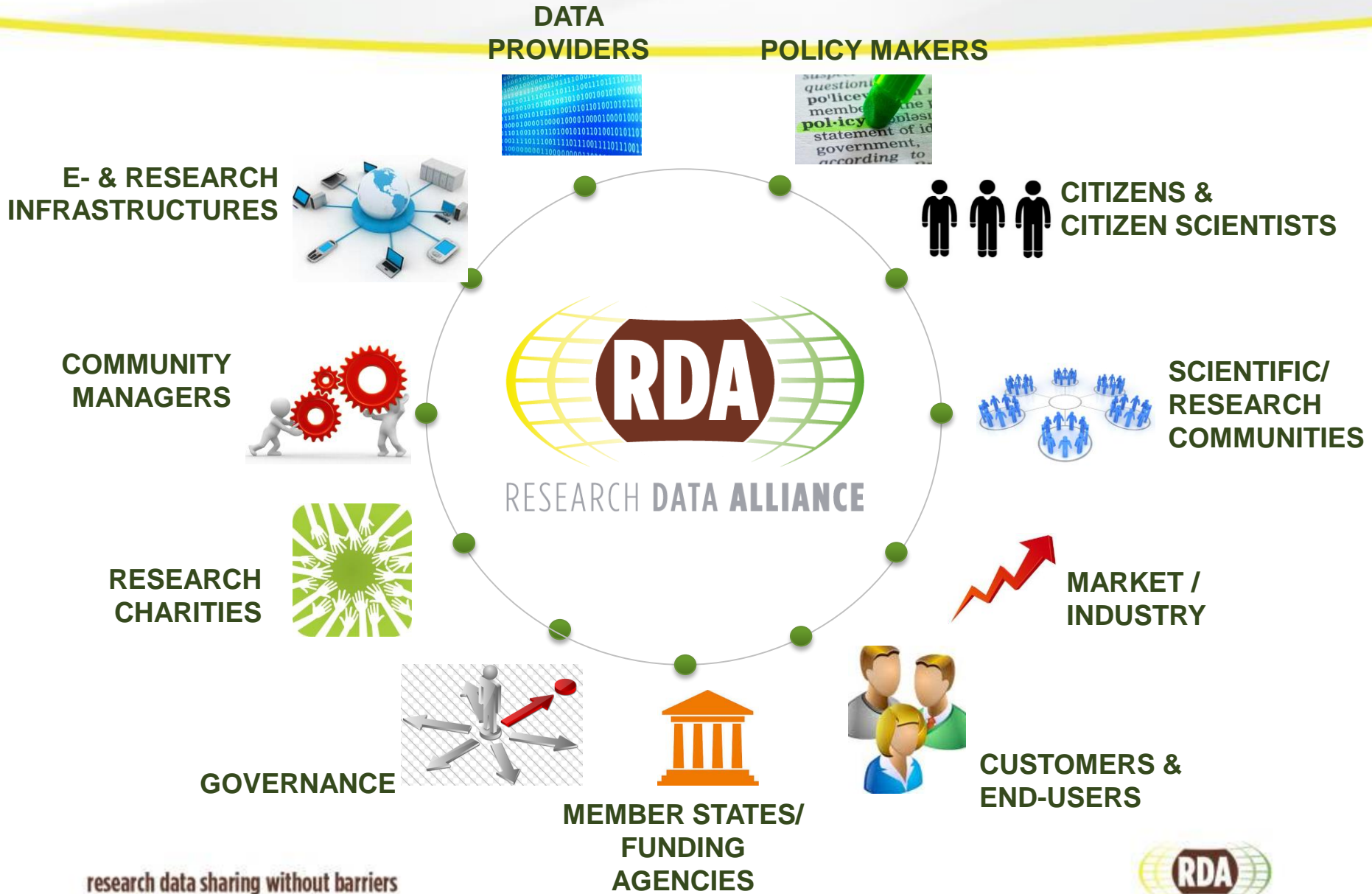
“Let’s just get on with it”

- European Commission, NSF/NIST, Australia (ANDS) agreed via different funding schemes encouraged collaboration.
- Various meetings in 2012 plus very regular video calls resulted in deciding on the name **“Research Data Alliance”**
- Huge bottom up activity – community driven
- Change of iCORDI into **RDA Europe** and the decision HLSF → **RDA Europe Forum**

Launch of RDA in August 2013

- **Vision:** *„Researchers, innovators and citizen openly share data across technologies, disciplines, and countries to address the grand challenges of society.“*
- **Mission:** *„RDA builds the social and technical bridges that enable open sharing of data*

RDA Stakeholders



RDA Organigram

RDA Membership

RDA Council

Responsible for overarching mission, vision, impact of RDA

Technical Advisory Board

Responsible for Technical roadmap and interactions

Secretary-General and Secretariat

Mark Parsons

Responsible for administration and operations

Organizational Advisory Board and Organizational Assembly

Responsible for organizational and strategic advice

Working Groups

Responsible for impactful, outcome-oriented efforts

Interest Groups

Responsible for defining and refining common issues

Plenary Meetings (2 per year)

RDA Colloquium (Research Funders)

Operational and community sponsorship

RDA Colloquium launched March 2013

Founder:

- Alan Blatecky (NSF, US)
 - Carlos Morais Pires (Scientific Officer, EC)
 - Clare McLaughlin (Program Officer, Innovation, AUS)
-
- RDAC is the group of science funding organizations that provides support to data research communities to participate in RDA activities
 - They focus on sharing research funding program plans and efforts to support data exchange and interoperability
 - RDAC acts complete independently from RDA, instead information exchange is regularly given between RDAC, RDA Council and RDA Secretariat, bi-yearly meetings

Research Data Alliance Created to Accelerate Development of Research Data Sharing Infrastructure Worldwide

- RDA community focuses on building **social, organizational and technical infrastructure** to
 - reduce barriers to data sharing and exchange
 - accelerate the development of coordinated global data infrastructure



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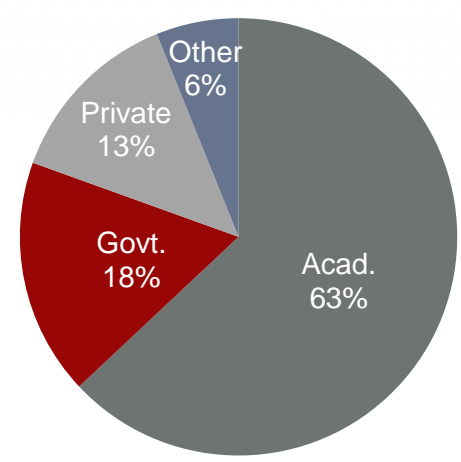
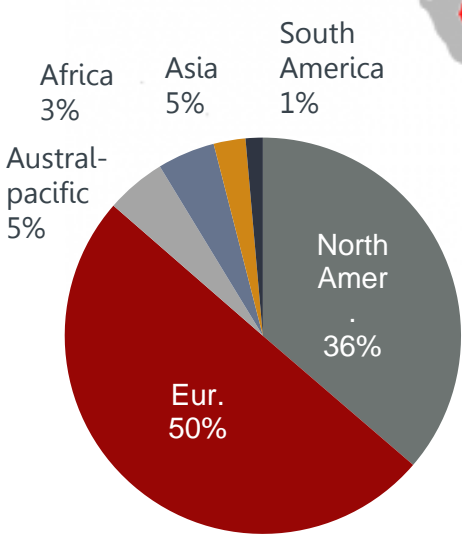
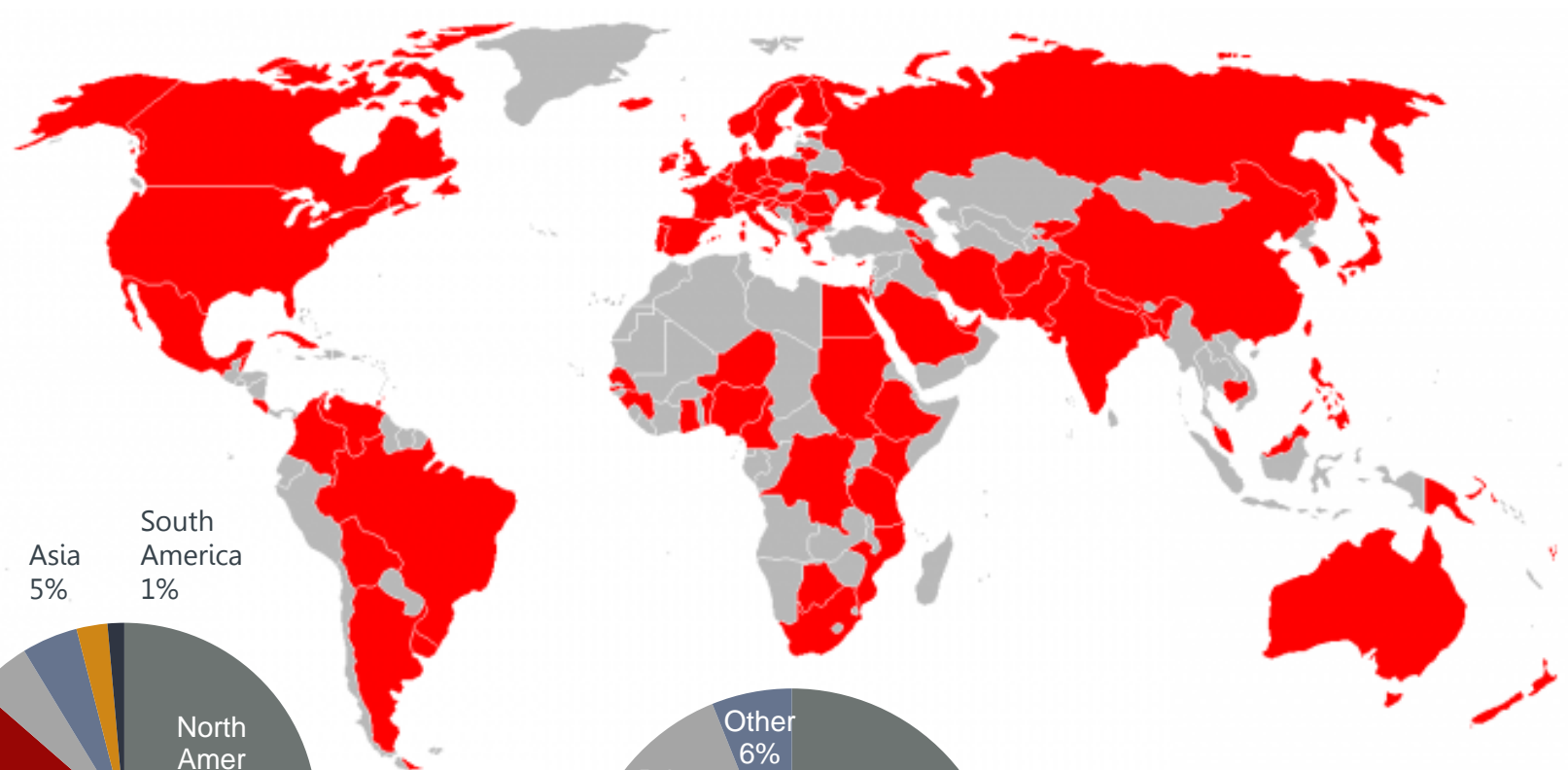
CREATE → ADOPT → USE

RDA Working Group Infrastructure Deliverables are:

- **Focused pieces of adopted code, policy, infrastructure, standards, or best practices** that enable data to be shared and exchanged
- **“Harvestable” efforts** for which 12-18 months of work can eliminate a roadblock for a substantial community
- **Efforts that have substantive applicability** to “chunks” of the data community, but may not apply to everyone
- **Efforts for which working scientists and researchers can start today** while more long-term or far-reaching solutions are appropriately discussed in other venues



The RDA Community Today: **Over 2300** members from **96 countries** (as of 9/14)



Map courtesy traveltip.org

Member Applicants

- Barcelona Supercomputing Center
- European Data Infrastructure (EUDAT)
- International Association of STM Publishers
- New Zealand eScience Infrastructure
- Washington University Libraries
- Purdue University Libraries
- Research Data Canada
- eResearch Services and Scholarly Application Development Division of Information Services
- American University Library

Other interested Organizations

- Australian Antarctic Data Centre
- Australian National Data Service
- CERN^h
- CJSJ Consulting
- Columbia University Libraries/Information Services
- CSC - IT Center for Science Ltd.
- Digital Curation Centre
- IBM

- Institute for Quantitative Social Science at Harvard
- Intersect Australia Limited
- Microsoft
- Oracle
- STFC - Science & Technology Facilities Council
- Corporation for National Research Initiatives (CNRI)
- Terrestrial Ecosystems Research Network
- University of Michigan Libraries

Interested Affiliates

- Committee on Data for Science and Technology (CODATA)
- Connecting Research and Researchers (ORCID)
- DataCite
- International Oceanographic Data and Information Exchange (IODE)
- Scholarly Publishing and Academic Resources Coalition (SPARC)
- World Data System (WDS)

<https://www.rd-alliance.org/organisation/rda-organisation-affiliate-members.html>

Precipitous Growth



RDA Plenary I / Launch
Gothenburg, Sweden

First Working Groups and Interest Groups

240 participants

RDA Launch / First Plenary

March 2013

First "neutral space" community meeting (Data Citation Summit)

First Organizational Partner Meet-up

First BOFs

380 participants from 22 countries

RDA Second Plenary

September 2013

First Organizational Assembly

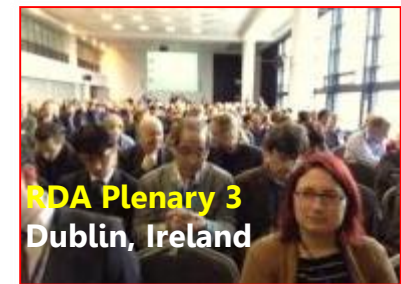
6 co-located events

14 BOF, 12 Working Groups, 22 Interest Groups

497 participants

RDA Third Plenary

March 2014



RDA Plenary 3
Dublin, Ireland

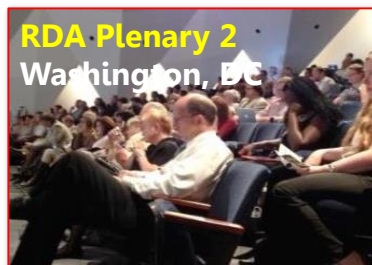
560 participants

RDA Fourth Plenary

September 2014

Global Data Planning Meeting: October 2012

First RDA organizational telecon: August 2012



RDA Plenary 2
Washington, DC

First Working Group exchange meeting



RDA Plenary 4
Amsterdam

- **March 9-11, 2015: RDA/US hosting RDA Plenary 5 in San Diego**

- Working Meeting of the RDA with co-located community meetings
- SDSC hosting RDA Adoption Day on March 8
- RDA/US Student Interns and Fellows working with RDA IG and WG



- **September 2015: RDA/Europe hosting RDA Plenary 5**

- Variable bottom-up, but
- **Need to work quickly**
- **Need to be concrete**

- *All required to demonstrate adoption, and community support*

Info: enquiries@rd-alliance.org

