

„Modernization of academic library services in Moldova”, funded by Norwegian
Cooperation Programme in Higher Education with Eurasia.
Project number: CPEA-2015/10014



Annual Project meeting and Workshop 8:
W8. Managing research data workshop



Universitatea
Transilvania
din Braşov



Providing data repositories or other secure storage facilities for research data, especially in electronic format, is a new task that academic libraries in Europe are taking on.

Ane Landoy, Biblioteca Universității Bergen, Norvegia, Coordonator proiect
Prof.dr.ing.,dr.marketing Angela Repanovici
Universitatea Transilvania din Braşov, Romania
Președinte Secțiunea Cultura Informației, Asociația Bibliotecarilor din România



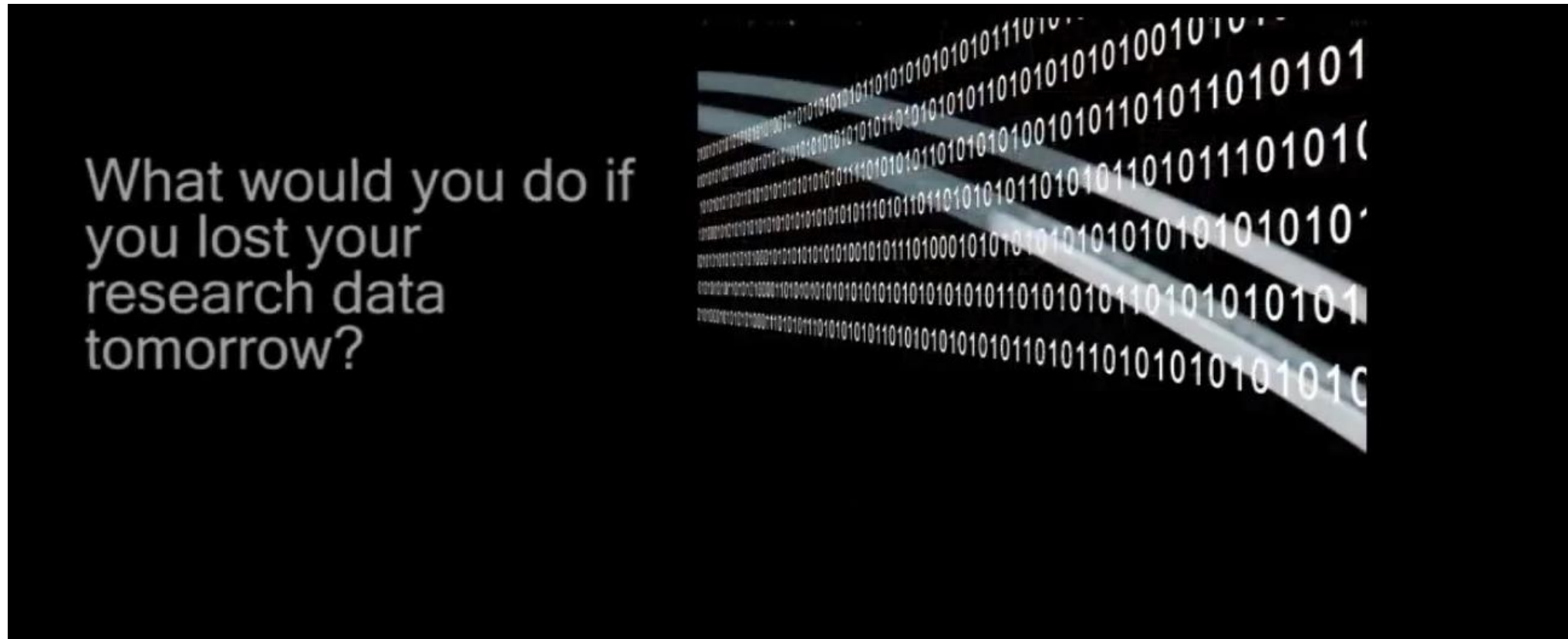
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How to manage reasearch data

Ane Landoy, University Library Bergen, Norway

Angela Repanovici, Transilvania University of Brasov, Romania

- https://www.youtube.com/watch?list=PLDgBRc-9_-HugU2r0bwf779OriyqLv0qO&v=7eXYTz7CaLU



Research Data

[Home](#) / [Services](#) / [Research Data](#) / [Data Management Support](#) / [What is Research Data Management](#) / [What is research data](#)

Research Data

→ [Data Management Support](#)

– [What is Research Data Management](#)

› [What is research data](#)

› [Why this affects you](#)

› [When do you need to think about RDM](#)

› [What is digital curation](#)

– [Guidance](#)

→ [Create](#)

→ [Organise](#)

→ [Keep](#)

→ [Find and share](#)

What is research data

Defining 'research data' is challenging.

The challenge is:

- There is not a consensus on the definition
- It varies according to discipline
- It varies according to the research funder

"Research data, unlike other types of information, is collected, observed, or created, for purposes of analysis to produce original research results." [University of Edinburgh](#)

"**Research data** is defined as **recorded factual material commonly retained by and accepted in the scientific community as necessary to validate research findings**; although the majority of such data is created in digital format, all research data is included irrespective of the format in which it is created."

[Engineering and Physical Sciences Research Council \(EPSRC\)](#)

Broad categories within the research data spectrum from physical sciences (astronomy) is provided by Dr Jonathan Tedds, University of Leicester:

- Raw/initially processed data produced at a research facility such as an observatory

RDM news and events

1. Information

Governance training is now available, provided by e-LfH (an NHS organisation). The University has registered to access this NHS resource and individual accounts can be set up by sending name and email address to [Andrew Burnham](#).

2. There is now a standard University [Privacy Impact Assessment](#) process where data collection or receipt, or systems purchase or development may have privacy consequences

3. The University has

Inverting the Pyramid:

Maximising the value of
research data to society



Reusable with attribution: CC-BY

Kevin Ashley : Digital Curation Centre, IMCW, Antalya, 2014

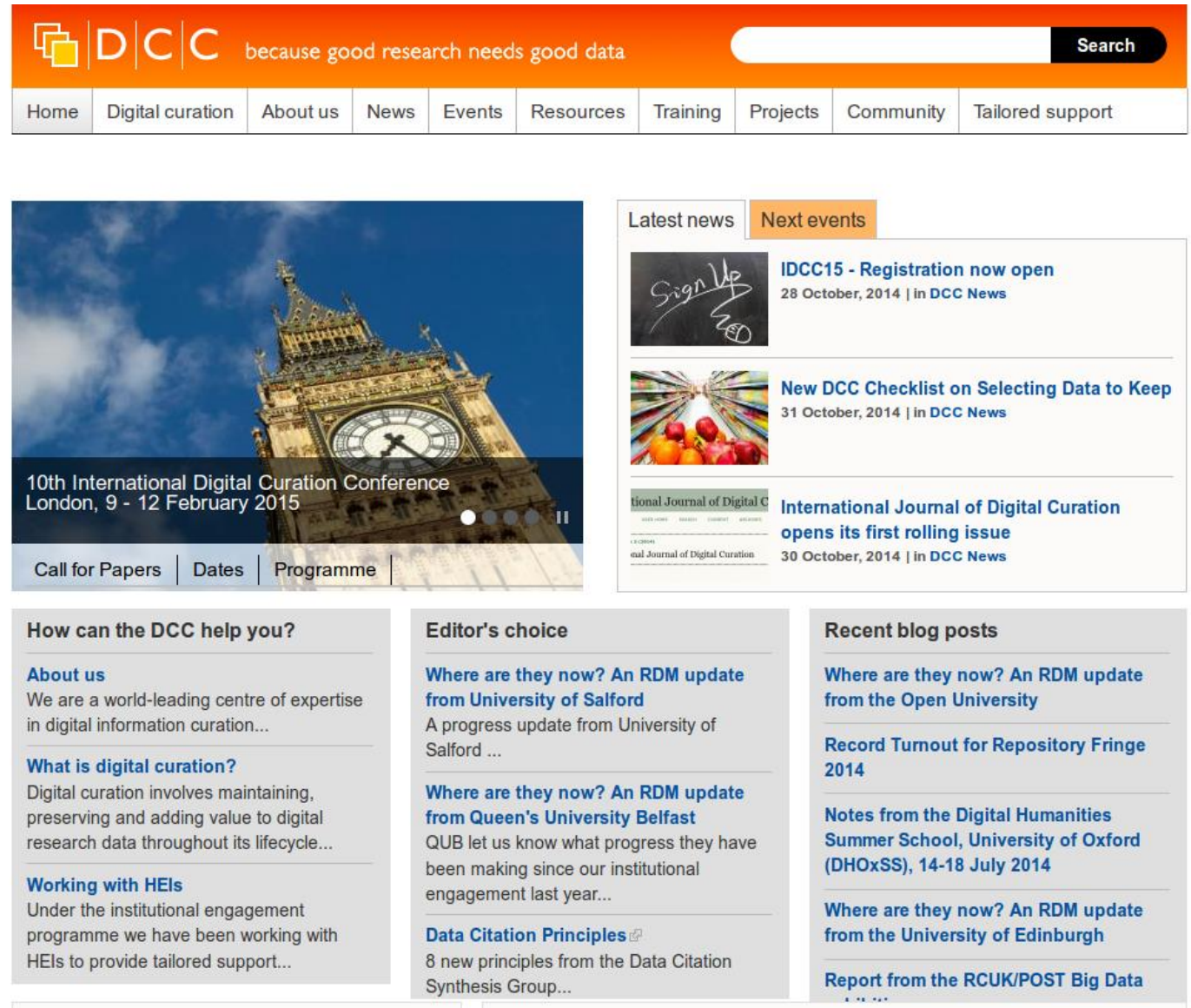
The DCC is supported by Jisc



because good research needs good data

DCC

- Mission – to increase capability and capacity for research data services in UK institutions
- Not just a UK problem – an international one
- Training, shared services, guidance, policy, standards, futures



The screenshot shows the DCC website homepage. At the top is an orange navigation bar with the DCC logo and the tagline "because good research needs good data". Below this is a search bar and a menu with links: Home, Digital curation, About us, News, Events, Resources, Training, Projects, Community, and Tailored support. The main content area features a large banner for the "10th International Digital Curation Conference London, 9 - 12 February 2015" with a background image of Big Ben. To the right of the banner are two columns of news items under the heading "Latest news" and "Next events". Below the news items are three columns of featured content: "How can the DCC help you?", "Editor's choice", and "Recent blog posts".

Latest news | **Next events**

- Sign Up** | **IDCC15 - Registration now open**
28 October, 2014 | in [DCC News](#)
- New DCC Checklist on Selecting Data to Keep**
31 October, 2014 | in [DCC News](#)
- International Journal of Digital Curation opens its first rolling issue**
30 October, 2014 | in [DCC News](#)

How can the DCC help you?

- About us**
We are a world-leading centre of expertise in digital information curation...
- What is digital curation?**
Digital curation involves maintaining, preserving and adding value to digital research data throughout its lifecycle...
- Working with HEIs**
Under the institutional engagement programme we have been working with HEIs to provide tailored support...

Editor's choice


- Where are they now? An RDM update from University of Salford**
A progress update from University of Salford ...
- Where are they now? An RDM update from Queen's University Belfast**
QUB let us know what progress they have been making since our institutional engagement last year...
- Data Citation Principles**
8 new principles from the Data Citation Synthesis Group...

Recent blog posts

- Where are they now? An RDM update from the Open University**
- Record Turnout for Repository Fringe 2014**
- Notes from the Digital Humanities Summer School, University of Oxford (DHOxSS), 14-18 July 2014**
- Where are they now? An RDM update from the University of Edinburgh**
- Report from the RCUK/POST Big Data**

Kevin Ashley : Digital Curation Centre, IMCW, Antalya, 2014

[Contact us](#)


 **DCC** because good research needs good data

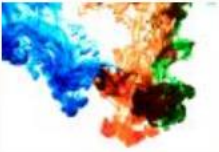
Home | Digital curation | About us | News | Events | Resources | Training | Projects | Community | Tailored support

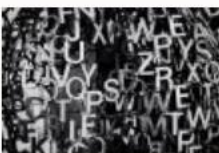


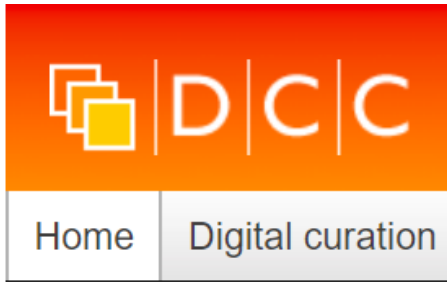
Repository Fringe 2018
Edinburgh, 2 July 2018

Latest news | **Next events**

 **Save the date! IDCC19, 4-7 February, Melbourne**
21 March, 2018 | in [DCC News](#)

 **New DCC / SPARC Europe policy resources**
5 April, 2018 | in [DCC News](#)

 **DCC & RDA: acronym soup**
28 March, 2018 | in [DCC News](#)



[Home](#) > Digital Curation

In this section

[What is digital curation?](#)

[Why preserve digital data?](#)

[Planning for preservation](#) [Why preserve](#)

[Digital curation FAQ](#)

[Glossary](#)

In this section

[Briefing Papers](#)

[How-to Guides & Checklists](#)

[Developing RDM Services](#)

[Curation Lifecycle Model](#)

[Curation Reference Manual](#)

[Policy and legal](#)

[Data Management Plans](#)

[Tools](#)

[Case studies](#)

[Repository audit and assessment](#)

[Standards](#)

[Publications and presentations](#)

[Roles](#)

[Curation journals](#)

[Informatics research](#)

[External resources](#)

[Online Store](#)

<http://www.dcc.ac.uk/news/managing-research-data-video>



data management skills

[DC 101 training materials](#)

Disciplinary RDM training

RDM for librarians

Skills frameworks

Data management courses
and training

If you would like to discuss this with us in more detail or have any questions, please [contact us](#).


Introduction

- [About the DC 101](#)
- [Incentives for curation](#)
- [Digital Curation Lifecycle Model](#)
- [Digital Curation Lifecycle FAQs](#)
- [Publisher model](#)
- [OAIS overview](#)

All Stages

- [What is digital curation](#)
- [Curation and preservation](#)
- [Preservation planning](#)
- [Description and representation information](#)
- [Critical elements](#)
- [Community watch](#)
- [Briefing paper on digital curation](#)
- [Roles and skills](#)
- [How to guide on Discovering research data management requirements](#)
- [How to guide on Developing research data management services](#)

Conceptualisation

- [Conceptualising data](#)
- [Research Council policy table and overview](#)
- [Conceptualisation checklist](#)
- [Data Management Planning checklist](#)
- [DMPonline toolkit and tutorial](#) 
- [How to guide on writing a data management and sharing plan](#)
- [Briefing paper on data protection](#)
- [Data management plans - FAQs](#)
- [Data management plans - guidance and examples](#)
- [Guidance on customising DMPonline for institutional use](#)
- [Webinar slides and video: Customising DMPonline](#)
- [Case study: Planning for the future: developing and preserving information resources in the Arts and Humanities](#)
- [Case study: Integrating data management planning into institutional processes at the Cape Peninsula University of Technology](#)

In this section

Briefing Papers

How-to Guides & Checklists

Developing RDM Services

Curation Lifecycle Model

Curation Reference Manual

Policy and legal

Data Management Plans

Tools

Case studies

Repository audit and assessment

Data Asset Framework (DAF)

DRAMBORA

Trustworthy Repositories

Nestor

Birds of a Feather

Anticipated applications

Standards

Publications and presentations

Trustworthy Repositories

A product of more than three years' work, Trusted Repositories Audit & Certification (TRAC) has its roots in a joint task force created to develop criteria enabling the identification of digital repositories capable of reliably storing, migrating, and providing access to digital collections.

Originally sponsored by RLG and the US National Archives and Records Administration, the work grew to incorporate and leverage work from several organizations, laying the groundwork for international collaboration on digital repository audit and certification between the DCC, [RLG \(now OCLC-RLG Programs\)](#), [NARA](#), [nestor](#), and the [US Center for Research Libraries](#).

The end result of the international collaboration is a set of criteria applicable to a range of digital repositories and archives, from academic institutional preservation repositories to large data archives and from national libraries to third-party digital archiving services.

TRAC provides tools for the audit, assessment, and potential certification of digital repositories, establishes the documentation requirements required for audit, delineates a process for certification, and establishes appropriate methodologies for determining the soundness and sustainability of digital repositories.

Trustworthy Repositories Audit & Certification

http://www.crl.edu/sites/default/files/d6/attachments/pages/trac_0.pdf

DCC networks and partnerships



Generic science data lifecycle

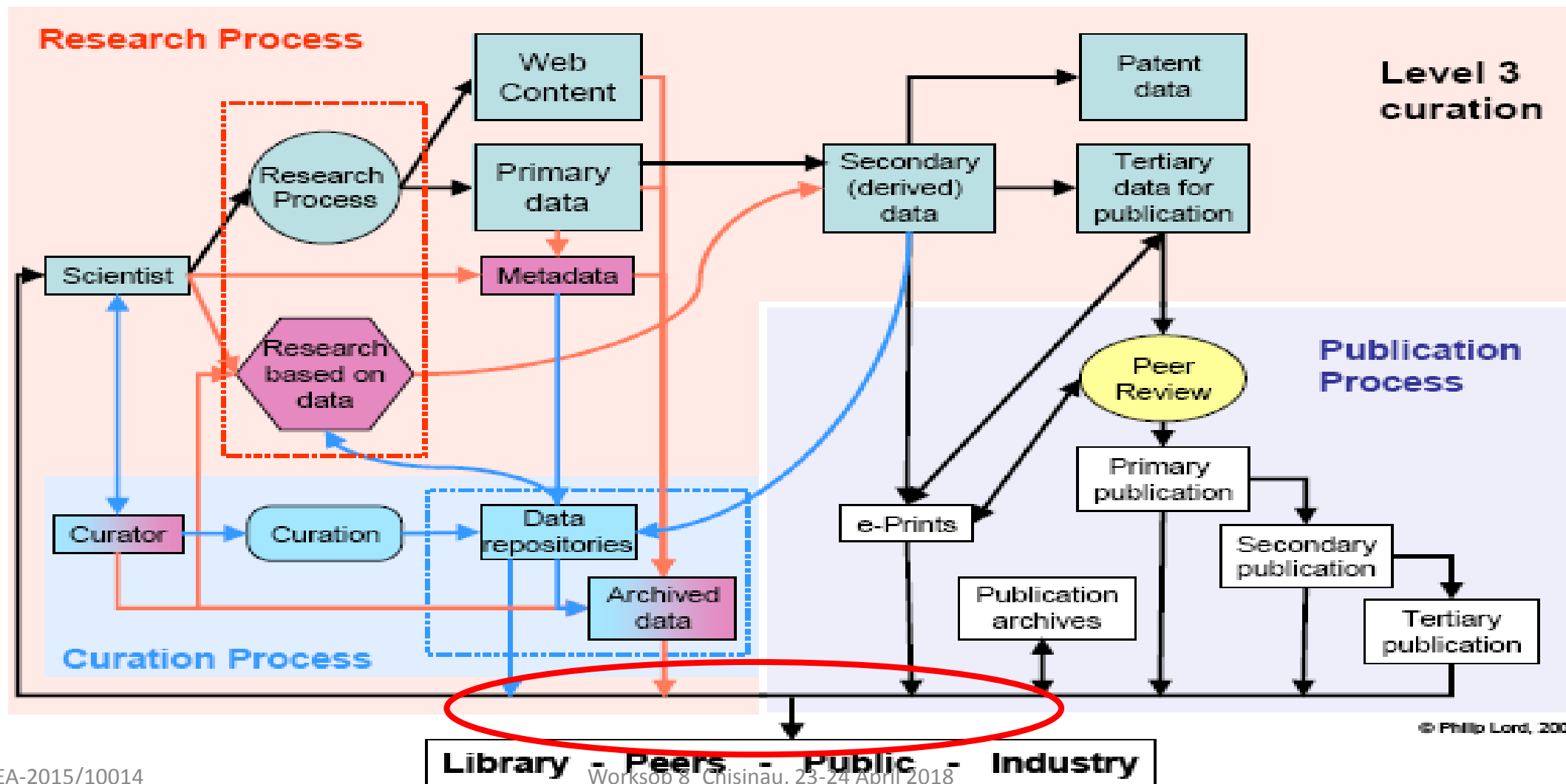


Kevin Ashley : Digital Curation Centre, IMCW, Antalya, 2014

Adapted from: Harnessing the Power of Digital Data: Taking the Next Step.||
Scientific Data Management (SDM) for Government Agencies:
Report from the Workshop to Improve SDM.

E-Science curation report - 2003

Figure 10: Information flow with data curation – Level Three Curation



Traditional knowledge management view of data

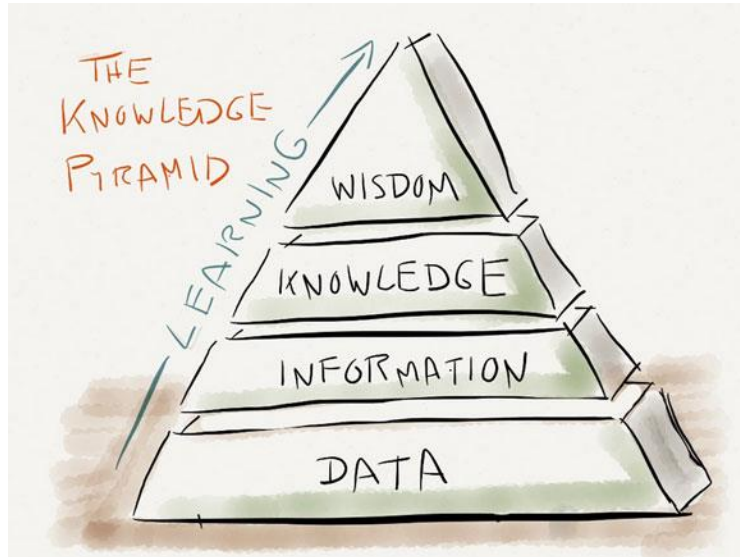


Image © John Curran @
designedforlearning.co.uk

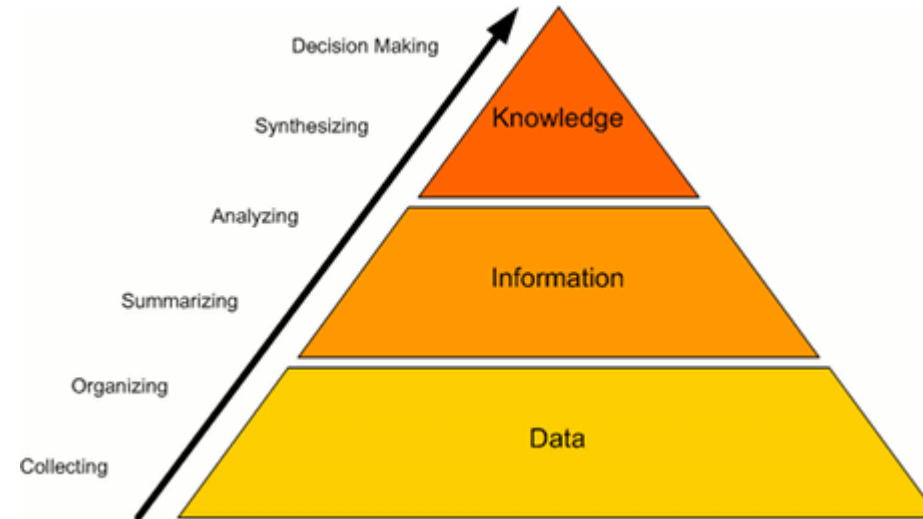
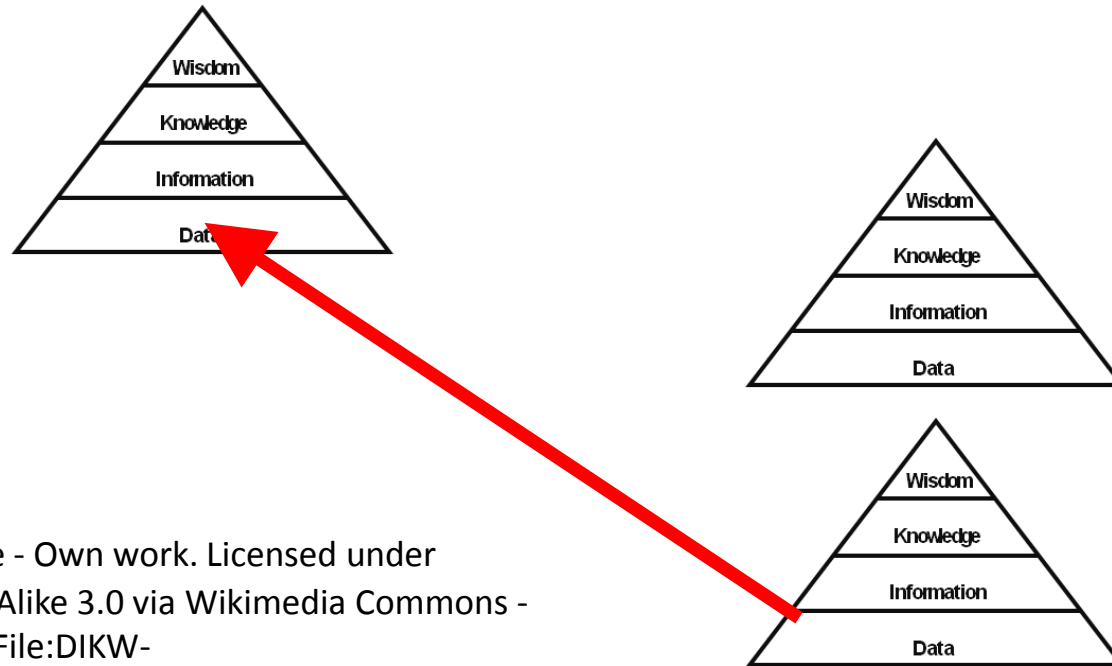


Image from forwardmotion.eu

Kevin Ashley : Digital Curation Centre, IMCW, Antalya, 2014

But in research...



"DIKW-diagram" by RobOnKnowledge - Own work. Licensed under Creative Commons Attribution-Share Alike 3.0 via Wikimedia Commons - <http://commons.wikimedia.org/wiki/File:DIKW-diagram.png#mediaviewer/File:DIKW-diagram.png>

I ♥ your data!

I don't ♥ what you said
about it.

The Old weather project

Data for research,
not from research

H.M.S. "Sublim", Wednesday 4th day of April, 1923.																																																																			
From _____ To _____ or At Cape Town																																																																			
Time	Patent Log	Distance		Error	Direction	Force	Direction	Force	Height of Barometer and attached Thermometer	Temperature			Pressure	Latitude	Longitude																																																				
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Data reuse stories

- The palaeontologist who saved years of work with archaeological data
- The 19th-century ships logs that help us model climate change
- The 'noise' from research radar that mapped dust from Eyjafjallajökull

Data reuse - messages

Often your data tells stories that your publications do not

Not all data comes from other researchers

Discipline-bounded data discovery doesn't give us all we need or want

One person's noise is another person's signal

Understanding Biodiversity

- We don't understand what drives it
- What helps, hinders speciation
- No one project or data source is enough
- Biology, geology, climate science, chemistry...
- Big and small problems
- Reanalysis & gap analysis

Research on Biodiversity...

- Requires many different data sources
- Not all will be published
- Not all publications are for similar research reasons, so...
- Citing the publication is irrelevant
- Some is research data, other government or reference data

Why care?

- Data is expensive – an investment
- Reuse:
 - More research
 - Teaching & Learning
 - Planning
- Impact – with or without publication
- Accountability
- Legal & regulatory requirements

Why does this matter?

- Research quality
 - How close can we get to the truth?
- Research speed
 - How quickly can we get to the truth?
- Research finance
 - How much does the truth cost?
- Improving one or more of these is of interest to all actors:
- Researchers as data creators
- Researchers as data reusers
- Research institutions
- Funders – hence government and society

Integrity – not without data

Bad Pharma™

Ben Goldacre
Bestselling author of Bad Science

How drug companies
mislead doctors and
harm patients
364 pages



Cyril Burt

- Twin studies on intelligence.
- Questioned 1976; now discredited

Duke case

- Data hiding leads to wasted treatments, clinical trials, probable death & huge lawsuits

Dutch cases

- Stapel – 55 publications – “fictitious data”
- Poldermans – fabricated data or negligence?

+ AllTrials All Trials Registered | All Results Reported

home why this matters news get involved comments organisations about contact

It's time all clinical trial results are reported.
Patients, researchers, pharmacists, doctors and regulators everywhere will benefit from publication of clinical trial results. Wherever you are in the world please sign the petition:
Thousands of clinical trials have not reported their results; some have not even been registered.
Information on what was done and what was found in these trials could be lost forever to doctors and researchers, leading to bad treatment decisions, missed opportunities for good medicine, and trials being repeated.
All trials past and present should be registered, and the full methods and the results reported.
We call on governments, regulators and research bodies to implement measures to achieve this.

Sign the petition

First Name ** Last Name **
Email **
Country Occupation
I signed this because... (add your comment for the wall here)

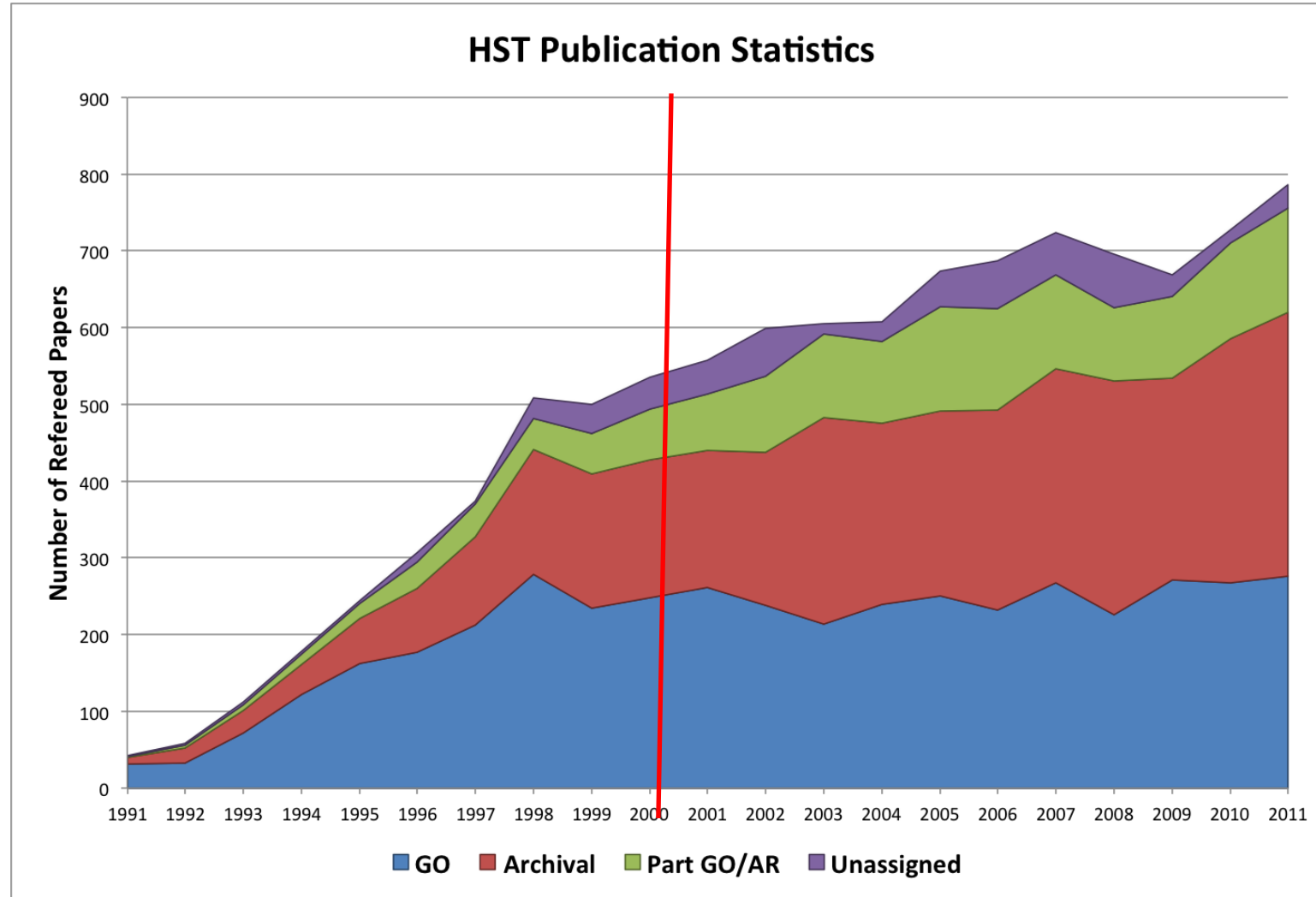
“The case for open data: the Duke Clinical Trials “– blog post, Kevin Ashley, <http://www.dcc.ac.uk/news/case-open-data-duke-clinical-trials>

“Lies, Damned Lies and Research Data: Can Data Sharing Prevent Data Fraud?” – Doorn, Dillo, van Horik, IJDC 8(1); doi:10.2218/ijdc.v8i1.256

Without data reuse:

- We can waste billions
- People suffer & die

Data reuse from Hubble



Data reuse is already
happening – and
researchers can change

Where can it happen



Global, international



By Subject

Nationally



Institution



Research Group

Research data centres are good value!

- See Jisc reports on ADS, BADC, UKDA:
- Returns on investment between 400% and 1200%
- Unfortunately – many research domains have no relevant data centres

http://www.jisc.ac.uk/whatwedo/programmes/di_directions/strategicdirections/badc.aspx

“Provision for data management, for curation and long-term preservation, and for the sharing and re-use of data, varies wildly between subject areas.”

Policy makers are aware that in many areas of enquiry, researchers’ access to well-managed, open and reusable data opens up significant opportunities.

“The data management needs of many researchers are little considered or catered for.”

If greater provision is to be made, a shortfall in infrastructure (both technical and human) must be overcome.

All from JISC MRD 2 call, 2010

re3data.org

REGISTRY OF RESEARCH DATA REPOSITORIES

Filter

- Subjects
- Content Types
- Countries
- AID systems
- API
- Certificates
- Data access
- Data access restrictions
- Database access
- Database access restrictions
- Database licenses
- Data licenses
- Data upload
- Data upload restrictions
- Enhanced publication
- Institution responsibility type
- Institution type
- Keywords
- Metadata standards
- PID systems

CPEA-2015/10014

Search...

Search

Toggle short help

← Previous 1 2 3 4 5 6 7 ... 82 Next →

Sort by

Found 2046 result(s)

UniProtKB/Swiss-Prot

UniProt Knowledgebase



Subject(s)

Basic Biological and Medical Research General Genetics Biology Life Sciences

Content type(s)

Networkbased data Structured graphics Plain text other

Country

Switzerland United Kingdom

UniProtKB/Swiss-Prot is the manually annotated and reviewed section of the UniProt Knowledgebase (UniProtKB). It is a high quality annotated and non-redundant protein sequence database, which brings together experimental results, computed features and scientific conclusions. Since 2002, it is maintained by the UniProt consortium and is accessible via the UniProt website.

Khazar University Institutional Repository

KUIR



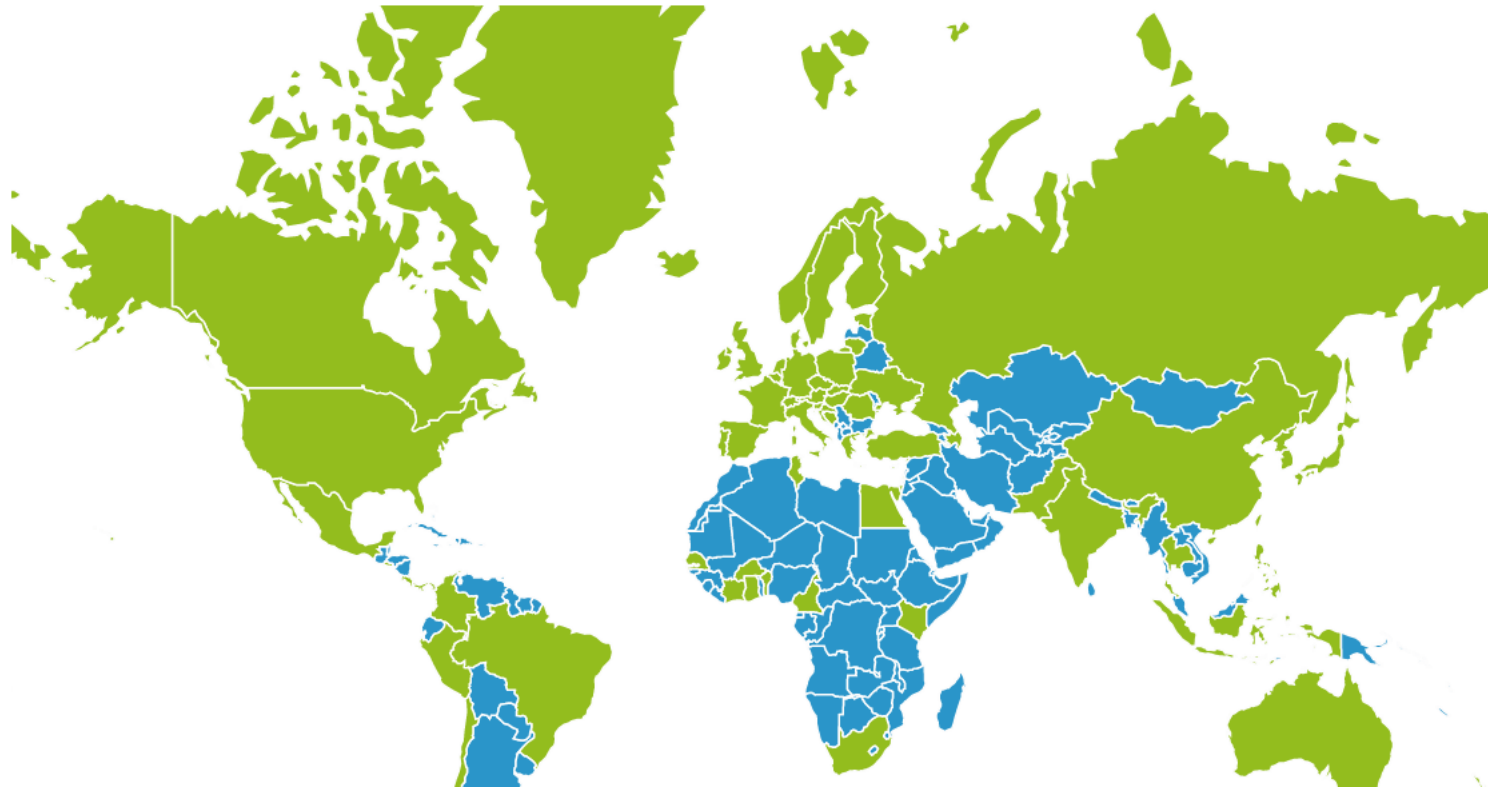
Subject(s)

Humanities and Social Sciences Life Sciences Natural Sciences Engineering Sciences
Workshop 8_Chisinau, 23-24 April 2018

Browse by country

Graphical

Text



General

Institutions

Terms

Standards

Name of repository	Romanian Social Data Archive
Additional name(s)	RODA
Repository URL	http://www.roda.ro/public/EN/template.php
Subject(s)	Social Sciences Social and Behavioural Sciences Humanities and Social Sciences
Description	<p>RODA is the national Romanian institution specialised in archiving electronic data collections obtained by social research. The archive contains data collections accessible for the academic community and the interested public, for secondary and comparative analysis, under certain access conditions ranging from free access to some level of restriction imposed by owners. The archive serves as an intermediary between the data owners and data users.</p>
Content type(s)	Scientific and statistical data formats Plain text
Keyword(s)	survey data
Repository type(s)	disciplinary
Mission statement for designated community	http://www.roda.ro/public/EN/template.php?url=3
Research data repository language(s)	eng ron

Filter

Reset all

Subjects

Content Types

Countries

- Austria (2)
- Belgium (1)
- Estonia (1)
- European Union (7)
- Finland (2)
- France (1)
- Germany (2)
- Greece (1)
- Norway (22)**
- Russian Federation (1)
- Switzerland (2)
- United Kingdom (3)
- United States (4)

AID systems

API

Certificates

Data access

Data access restrictions

Database access

Database access restrictions

Search...



Toggle show

← Previous 1 Next →

Sort

Found 22 result(s)

ACTRIS Data Centre

ACTRIS DC



Subject(s)

Geosciences (including Geography) Atmospheric Science and Oceanography Natural Sciences

Content type(s)

Raw data Archived data other Structured text Scientific and statistical data formats Structured graphics
Databases

Country

Norway European Union

The ACTRIS DC is designed to assist scientists with discovering and accessing atmospheric data and contains an up-to-date catalogue available datasets in a number of databases distributed throughout the world. A site like this can never be complete, but we have aimed including datasets from the most relevant databases to the ACTRIS project, also building on the work and experiences achieved in the FP6 research project Global Earth Observation and Monitoring. The focus of the web portal is validated data, but it is also possible to browse the ACTRIS data server for preliminary data (rapid delivery data) through this site. The web site allows you to search in a local metadata catalogue that contains information on actual datasets that are archived in external archives. It is set up so that you can search for data by selecting the chemical/physical variable, the data location, the database that holds the data, the type of data, the data

on Long-range Transboundary Air Pollution (CLRTAP) for international co-operation to solve transboundary air pollution problems.

CLARINO Bergen Center repository



Subject(s) [Linguistics](#) [Humanities](#) [Humanities and Social Sciences](#)

Content type(s) [Standard office documents](#) [Plain text](#) [Raw data](#) [Software applications](#) [Audiovisual data](#) [other](#)

Country [Norway](#) [European Union](#)

CLARINO Bergen Center repository is the repository of CLARINO, the Norwegian infrastructure project . Its goal is to implement the Norwegian part of CLARIN. The ultimate aim is to make existing and future language resources easily accessible for researchers and to bring eScience to humanities disciplines. The repository includes INESS the Norwegian Infrastructure for the Exploration of Syntax and Semantics. This infrastructure provides access to treebanks, which are databases of syntactically and semantically annotated sentences.

Nord-Trondelag Health Study



Helseundersokelsen i Nord-Trondelag

Subject(s) [Social Sciences](#) [Public Health, Health Services Research, Social Medicine](#) [Social and Behavioural Sciences](#)
[Humanities and Social Sciences](#) [Medicine](#) [Medicine](#) [Life Sciences](#)

Content type(s) [Plain text](#) [Structured graphics](#) [Standard office documents](#) [Raw data](#)

Suggest a repository

re3data.org Registration Policy

To be registered in re3data.org a research data repository must

- be run by a legal entity, such as a sustainable institution (e.g. library, university)
- clarify access conditions to the data and repository as well as the terms of use
- **have focus on research data**

A research data repository is a subtype of a sustainable information infrastructure which provides long-term storage and access to research data that is the basis for a scholarly publication. Research data means information objects generated by scholarly projects for example through experiments, measurements, surveys or interviews.

A research data repository listed in re3data.org is either:

- a data provider if it offers research data and its metadata (ideally exposing metadata via interfaces),

and/or

- a service provider (e.g. a portal) if it harvests the metadata of research data from data providers as a basis for building value-added services.

WELCOME TO DATACITE

Locate, identify, and cite research data with the leading global provider of DOIs for research data.

[Learn more](#)



Find what you're looking for by searching millions of records with extensive, reliable metadata.



Share your data and reuse the data of others to create the highest impact in the research community.



Cite your research sources with confidence, and receive proper credit when your work is reused.



Connect your research – publications, datasets, software, authors and funding data all in one place.

 [Feedback](#)



Find what you're looking for by searching millions of records with extensive, reliable metadata.



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Connect your research – publications, datasets, software, authors, institutions, and funding data all in one place.

Get started with DataCite!



Search our registry to find datasets, software, images, and other research material.

re3data.org

Find an appropriate repository to access and deposit research data with re3data.org



Generate your references automatically with our easy-to-use citation formatting tool

 Feedback



1,468 Data Centers

027.7 - Zeitschrift für Bibliothekskultur

ETHZ.UBASOJS

4TU.Centre for Research Data

DELFT.DATA4TU

ADAMA Web S.L.

Year Joined

<input type="checkbox"/> 2010	4
<input type="checkbox"/> 2011	100
<input type="checkbox"/> 2012	112
<input type="checkbox"/> 2013	146
<input type="checkbox"/> 2014	177
<input type="checkbox"/> 2015	256
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New Solar Setup With Acoustic Diagnostic Techniques For Csp Materials

Yasmine Lalau, Olivier Faugeroux, Emmanuel Guillot, Damien Andre, Marc Huger, Alain Proust, Thierry Chotard & Bernard Claudet

Project deliverable published 2017 via Zenodo

A promising route toward affordable and efficient solar energy conversion lies in the development of the high temperature Concentrated Solar Power (CSP) tower. The extreme thermal stress conditions to which the tower receivers may be submitted raise the question of the ability of these components to efficiently perform over extended periods of time. Conventional methods commonly used to assess the mechanical stability and lifetime of these components involve laboratory testing, which suffers from the fundamental...

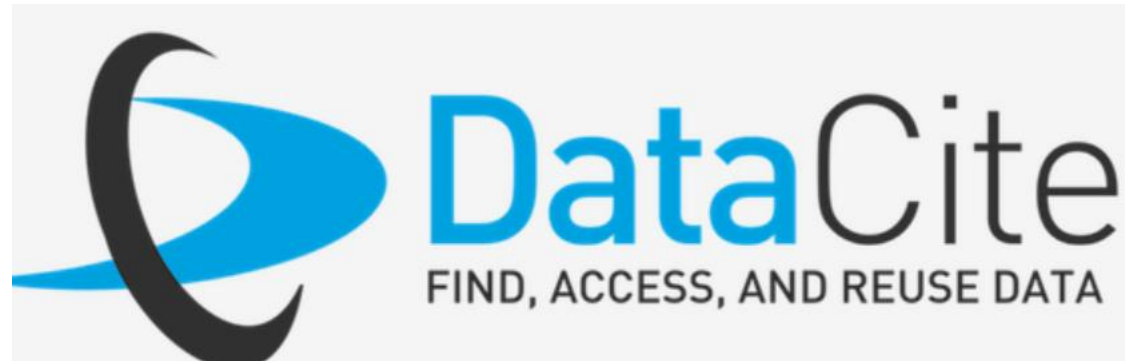
<https://doi.org/10.5281/zenodo.1215609>  Cite

Resource Types

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Publication Year

<input type="checkbox"/> 2018	499,198
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Registration Year

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Occdownload Gbif.Org. (2018). GBIF Occurrence Download [Data set]. The Global Biodiversity Information Facility. <https://doi.org/10.15468/dl.h5a3yh>

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[//doi.org/10.15468/dl.h5a3yh](https://doi.org/10.15468/dl.h5a3yh) Cite

Thank you for your attention!

Mulțumesc pentru atenție!

REALIZAREA UNUI CENTRU PENTRU DATELE DE CERCETARE

CERERE DE FINANȚARE – ECHIPE 2-4 participanți

ETAPE

- Se realizează descrierea centrului, schema organizatorică
- Se identifică un posibil domeniu unde datele de cercetare să fie reutilizate eficient.
- Se identifică un posibil proiect pentru un anumit grup țintă.
- Se evidențiază motivele pentru care ar fi finanțabil proiectul.
- Se propune un titlu, acronim.
- Se prezintă 2 obiective majore ale proiectului și la fiecare obiectiv 2 activități.
- Se prezintă pe scurt produsul final propus.
- Se prezintă modalitățile de diseminare ale proiectului și sustenabilitatea după finanțare.

Fiecare echipă își va prezenta proiectul în ce modalitate dorește.

REFERAT EVALUATOR
Titlul proiectului evaluat:

1. Originalitate:

4 puncte

Proiectul prezintă o idee originală ce merită să fie finanțată?

Propunerea merită să fie finanțată?

Este clar prezentată?

Este utilă dezvoltării bibliotecii?

3. Metodologia de realizare a proiectului este fezabilă?

6 puncte

Activitățile sunt clare?

Rezultatele preconizate sunt clare?

Proiectul are implicații pentru cercetare, practică și/sau societate?

Calitatea comunicării ideilor este adecvată? Se înțelege clar ce se intenționează?

Recomandări

Acceptat

Revizii minore

Revizii majore

Respins

Comentarii