

Collaborating to add value: libraries and research data curation

Zusammenarbeiten um Mehrwert zu
schaffen: Bibliotheken und
Forschungsdatenmanagement

Kevin Ashley

Director, Digital Curation Centre

www.dcc.ac.uk

Kevin.ashley@ed.ac.uk



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The DCC is supported by Jisc

DCC – unerstuetzt von JISC



because good research needs good data

Why be concerned about data?

- External policy requirements
- Legal requirements
- Research integrity, accountability
- Expense – data is an investment
- Impact – even without publication
- Reuse – for teaching, research, commerce

Warum um Daten sorgen?

- Externe Anforderungen der Politik
- Gesetzliche Anforderungen
- Forschungsintegrität, Verantwortlichkeit
- Kosten - Daten sind eine Investition
- Nutzen - auch ohne Veröffentlichung
- Wiederverwendung - für Lehre, Forschung, Handel

G8UK - Endorses OA

Open Data Charter

Policy Paper
18 June 2013

G8UK - Billigt 'Offenen Zugang'
Ein Offenes Daten
Strategiepapier.



Cabinet Office

Policy paper

G8 Open Data Charter and Technical Annex

Published 18 June 2013

Contents

1. Principle 1: Open Data by Default
2. Principle 2: Quality and Quantity
3. Principle 3: Usable by All
4. Principle 4: Releasing Data for Improved Governance
5. Principle 5: Releasing Data for Innovation
6. Technical annex



Funder requirements

Geldgeber Anforderungen

- UK 

<http://www.epsrc.ac.uk/about/standards/researchdata/Pages/policyframework.aspx>

- USA – NSF, NEH, NIH

- Europe



- Most place burden on researcher – some on the institution

- Die meisten legen die Verantwortung auf den Forscher - einige auf die Institution.

Data can increase research impact

- See research by Piwowar & by Alter, Pienta, Lyle
- Positive effects in biology, humanities, social sciences if data is:
 - Archived
 - Citable
 - Associated with a publication

Daten können Forschungsergebnisse verbessern

- Siehe Forschung von Piwowar oder Alter, Pienta, Lyle
- Positive Effekte in der Biologie, Geisteswissenschaften, Sozialwissenschaften, wenn Daten:
 - Archiviert
 - Zitierfähig
 - Und im Zusammenhang mit einer Publikation verfügbar sind

In summary

- Take care of your data – good things will happen
- Neglect your data – bad things will happen
- True for researcher & university

Zusammenfassend

- Achten Sie auf Ihre Daten - gute Dinge werden passieren
- Vernachlässigen Sie Ihre Daten - schlechte Dinge werden passieren
- Gilt für Forscher und Universitäten

UK • DATA ARCHIVE

THE UK'S LARGEST COLLECTION OF DIGITAL RESEARCH DATA IN THE SOCIAL SCIENCES AND HUMANITIES

HOME ABOUT US CREATE & MANAGE DATA DEPOSIT DATA HOW WE CURATE DATA FIND DATA NEWS & EVENTS

SEARCH OUR SITE GO

WHO ARE WE?

We are internationally acknowledged experts in the areas of acquiring, curating and providing access to data. We are a designated Place of Deposit for The National Archives

READ ON

What's new Data lifecycle Find data Who are we?

DEPOSITING YOUR DATA

Depositing your data with the Archive ensures that they will be professionally, curated and accessible

DEPOSIT DATA

FINDING DATA TO USE

We can help you find data for research and teaching with our catalogue of over 5,000 data collections

OUR CATALOGUE

FIRST TIME HERE?

HELPFUL INFORMATION

A QUICK GUIDE TO THE ARCHIVE

1 of 8: We provide continuous access to the UK's largest collection of digital research data in the social sciences

WHO GIVES US DATA?

Find out what kind of data are available to you

LATEST NEWS & EVENTS

MORE

European archiving standards Archiving digital research data for the long-term ...

ads ARCHAEOLOGY DATA SERVICE

ArchSearch + Data About Us Publications Policy + Guidelines Learning + Teaching Links Index

Latest News: RSS

November 2010: Grey literature library reaches 7000 reports.
 October 2010: ARENA2 demo video now available.
 October 2010: Limestone Cropmark Landscapes archive released.
 October 2010: ADS information and updates now on Twitter.

The Archaeology Data Service (ADS) supports research, learning and teaching with high quality and dependable digital resources. It does this by preserving digital data in the long term, and by promoting and disseminating a broad range of data in archaeology. The ADS promotes good practice in the use of digital data in archaeology, it provides technical advice to the research community, and supports the deployment of digital technologies.

Have a look at the ADS website redesign [Beta Test Version](#)

Have you seen?

Ave Valley Survey Project, Porto, Portugal

The digital archive for a survey carried out in Portugal between 1994-1997, containing database, geophysics and GIS data as well as many images. The archive is...

Resources

- What's in ArchSearch
- ARCHway
- ARENA Archives and Portal
- HEIRNET Register
- Society of Antiquaries Library Catalogue

Projects

- Archaeotools
- VENUS
- ALSF
- OASIS
- All projects...

British Oceanographic Data Centre

NATURAL ENVIRONMENT RESEARCH COUNCIL

Home Contact us Glossary Site map Bookmark Site styles

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About us Data Projects Partners Products Help and hints

Search

Welcome to the British Oceanographic Data Centre

a national facility for preserving and distributing marine data

We hope you enjoy our web site and would appreciate your comments. If you experience any difficulties, please contact our [Web Master](#).

About us	Data	Projects
What do we do? Do you want to contact us? Learn about our history and the information technology we rely on. more	We process, archive and distribute biological, chemical, physical and geophysical marine data. Find out how to download and request data, search our inventories and submit data to us. more	Explore the data management services we provide to our scientific colleagues during marine research projects. more
Partners	Products	Help and hints
Find out about the data management partnerships we have	Learn about our Web Services and software products. Find out how to order our digital	Learn how to use our web site. Read our content, copyright and

Home My BADC Data Search Community Help

About the BADC Login New User Registration Apply for datasets

British Atmospheric Data Centre

NATURAL ENVIRONMENT RESEARCH COUNCIL

About Us:

The British Atmospheric Data Centre (BADC) is the Natural Environment Research Council's (NERC) Designated Data Centre for the Atmospheric Sciences. The role of the BADC is to assist UK atmospheric researchers to locate, access and interpret atmospheric data and to ensure the long-term integrity of atmospheric data produced by NERC projects.

To find out more about the BADC, please follow the links on the sub-tab sections above.

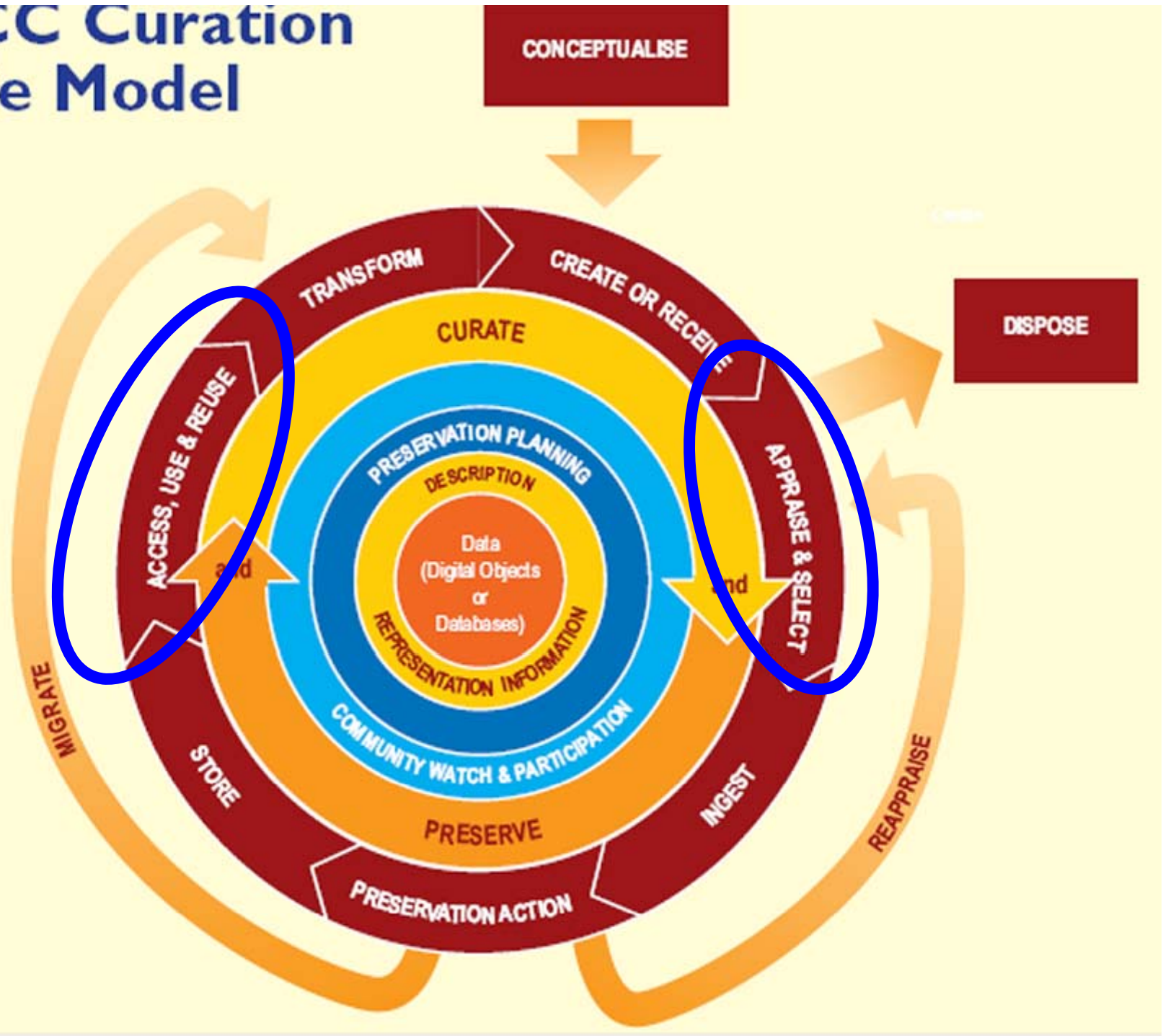
Search for Data:

Search for: In: BADC NERC Data Discovery Service

News

Latest on 20th October 2010: [NERC Stakeholder Engagement - NERC Environmental Data Centres: do they meet your needs? BADC website and Services back in operational mode.](#)

The DCC Curation Lifecycle Model



Some library roles

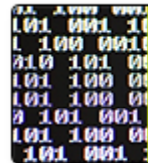
- Leadership – coordinate action
- Audit – who has what, where does it go?
- Advice on access – data, wherever it is
- Preservation – permanence
- Citability
- Data/publication linking
- Promoting data in teaching
- Training for early-career researchers

Die Rollen der Bibliotheken

- Führungsrolle - Koordinatensystem Aktion
- Prüfung - wer hat was, wo geht es hin?
- Tipps zum Zugriff - Daten, wo sind sie?
- Preservation - Permanenz
- Zitierbarkeit
- Daten / Veröffentlichung Verknüpfung
- Förderung von Daten in der Lehre
- Schulung des wissenschaftlichen Nachwuchses

Understanding Data Requirements

Verstehen Datenanforderungen



If research data lies at the heart of your organisation, you need to know that you have adequate infrastructure, staff skills and resources, and senior management support in place to ensure that your data is effectively managed for validation, reuse and evidential purposes.



CARDIO enables you to:

- collaboratively assess data management requirements, activity, and capacity at your institution
- build consensus between data creators, information managers and service providers
- identify practical goals for improvement in data management provision and support;
- identify operational inefficiencies and opportunities for cost saving;
- make a compelling case to senior managers for investment in data management support



2013-07-08
<http://www.dcc.ac.uk/>

How to Cite Datasets and Link to Publications

Alex Ball (DCC) and Monica Duke (DCC)



Digital Curation Centre, 2011.
Licensed under Creative Commons Attribution 2.5 Scotland:
<http://creativecommons.org/licenses/by/2.5/scotland/>

How to Appraise & Select Research Data for Curation

Angus Whyte (DCC) and Andrew Wilson (ANDS)



Digital Curation Centre, Australian National Data Service 2010.
Licensed under Creative Commons BY-NC-SA 2.5 Scotland:
<http://creativecommons.org/licenses/by-nc-sa/2.5/scotland/>

How to License Research Data

Alex Ball (DCC)

DRAFT: 29 OCTOBER 2010



Digital Curation Centre, 2010.

Licensed under Creative Commons BY-NC-SA 2.5 Scotland:

<http://creativecommons.org/licenses/by-nc-sa/2.5/scotland/>

Data Licensing / Daten Lizenzierung

- Bespoke licences
- Standard licences
- Multiple licensing
- Licence mechanisms
 - benutzerdefinierte Lizenz
 - Standard-Lizenzen
 - Mehrere Lizenzierung
 - Lizenzmechanismen



Some library roles

- Leadership – coordinate action
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Who (in the UK) is addressing RDM ?

Wer (in Großbritannien) kümmert sich um FDM ?



Statistics from Cox/Pinfield survey – late 2012

- 81 UK universities – most answers from library
- 31% have formal policy for research data
- 43% will have one in next year
- 72% of libraries involved in policy development
- Collaboration between services important – library, computing, research support

Statistik von Cox / Pinfield Umfrage - Ende 2012

- 81 britischen Universitäten - die meisten Antworten von Bibliotheken
- 31% haben formelle Regeln für Forschungsdaten
- 43% werden eine im nächsten Jahr haben
- 72% der Bibliotheken and der Entwicklung von formellen Regeln beteiligt
- Die Zusammenarbeit zwischen wichtigen Dienstleistungen - Bibliothek, EDV, Unterstützung der Forschung



Sheila Corrall: Libraries,
Librarians and Data
Many action exemplars

**RLUK/Mary Auckland:
Reskilling for Research
9 areas are skill gaps for
subject librarians**

RLUK Research Libraries UK

Re-skilling for Research

An investigation into the role and skills of subject and liaison librarians required to effectively support the evolving information needs of researchers

Conducted for RLUK by Mary Auckland, OBE MSc HonFClip

January 2012

Other helpful guides

Weitere hilfreiche Guides

A Digital Curation Centre
'working level' guide

D | C | C
JISC

How to Develop Research Data Management Services - a guide for HEIs

Sarah Jones, Graham Pryor and Angus Whyte

Please cite as: Jones, S., Pryor, G. & Whyte, A. (2013). 'How to Develop Research Data Management Services - a guide for HEIs'. DCC How-to Guides. Edinburgh: Digital Curation Centre. Available online: <http://www.dcc.ac.uk/resources/how-guides>

Digital Curation Centre, March 2013
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CASE STUDY

A Digital Curation Centre Case Study
March 2013

JISC | D | C | C
RDMRose

RDM Training for Librarians

Marieke Guy, Digital Curation Centre

Section of the How to guide that this supports
Guidance, training and support

Introduction

This case study looks at the approaches taken by three Jisc Managing Research Data Projects (2011 - 2013) and one institution to providing effective training for librarians and information services professionals in Research Data Management (RDM).

Background context

Through its institutional engagement programme the Digital Curation Centre (DCC) has seen many institutional (RDM) initiatives emanating from libraries. Librarians are carving out a new role for themselves in promoting and embedding good RDM practices. They are well placed for this role having information science skills in areas such as metadata, open access, institutional repository use - key constituents for RDM. Librarians also tend to have good working relationships with other service departments and researchers. This results in requirements for them to sit on institutional working parties and steering groups redesigning institutional strategies and infrastructure necessary to meet operational and regulatory requirements. Despite these factors various reports indicate that researchers do not immediately turn to the library, even when librarians could help a lot.

The 2012 FLUK report on *Re-skilling for Research* looked at the role and skills of subject and liaison librarians required to effectively support the evolving information needs of researchers. It states that it "is clear that as the nature of research within our institutions changes, so must the role of the library in supporting research". More recently the Association

published a paper: *Academic Libraries and Research Data Services: Current practices and plans for the future*. The paper found that Libraries tend to rely on external conferences or workshops to provide research data services training and that there is a lack of internal institutional support in this area. As the landscape changes individual institutions will need to take measures to ensure that their library and information services staff are effectively trained in aspects of RDM. This case study looks at initiatives in this area.

Overview: RDMRose

RDMRose is a Jisc-funded development (CPD) learning materials in RDM tailored for information professionals. It is looking in particular at the specific needs of liaison librarians in university libraries, and deliverables include CER materials suitable for learning in multiple modes, including face-to-face and self-directed learning. All materials can be reused by other library and information service educators and a version for self-supported Continuing Professional Development is available.

The RDMRose project brings together the University of Sheffield (School) with a practitioner community based on the White Rose University Consortium's libraries at the Universities of Leeds, Sheffield and York. Development of content and teaching was iterative, based on a highly participative curriculum development process and with a strong strand of student evaluation of learning materials and activities. Version 1 of the training materials was released in January 2013 and the content from version 2

What about collaboration?

- Collaborate within the university
- Collaborate with partners
- Collaborate with regional, national services
- Not everything can be done well locally
- Some examples...

Zusammenarbeit?

- Zusammenarbeit innerhalb der Universität
- Zusammenarbeit mit Partnern
- Zusammenarbeit mit regionalen, nationalen Dienstleistungen
- Nicht alles kann lokal erfolgen
- Einige Beispiele ...

MANTRA
Research Data Management Training

<http://datalib.edina.ac.uk/mantra/libtraining.html>

Do-It-Yourself Research Data Management Training Kit for Librarians

The University Of Sheffield.

RDMRose

Information School

3TU.Datacentrum **DANS** RSS |

Home	Welcome	News & Agenda
<ul style="list-style-type: none"> News & Events About the course I Current Topics II Data management 	<p>Welcome at the website of our course <i>Data Intelligence 4 Librarians</i> designed by 3TU.Datacentrum and DANS. The website provides general information, as well as the reference materials which accompanies the 4 modules of the course. The materials are available for anyone who is interested in the course.</p>	<ul style="list-style-type: none"> » Data Intelligence 4 Librarians online!

National services

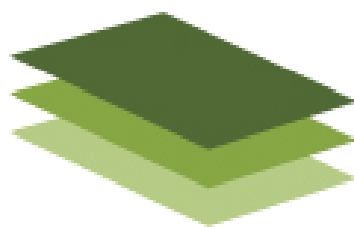
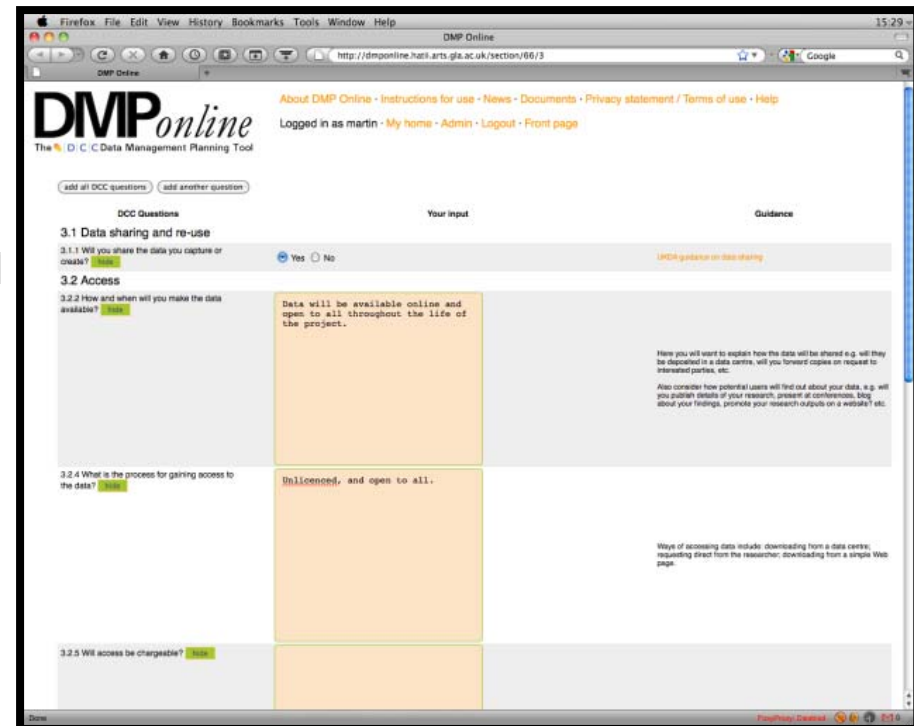
Nationale Dienstleistungen

- UK – Digital Curation Centre
- NL – Research Data Netherlands
- AU – Australian National Data Service (ANDS)
- CA – Research Data Canada
- FI – CSC
- Global – CODATA, Research Data Alliance

Data management plans

Daten-Management-Pläne

DMP*online*
The  | **D** | **C** | **C** Data Management Planning Tool



DMPTool

Guidance and Resources for your Data Management Plan

Accessibility



because good research needs good data

Do you have 5 minutes to let us know what you think of this website? [Take part in our](#)

Home | Digital Curation | About Us | News | Events | Resources | Training | Projects | Comm

[Home](#) > [Resources for Digital Curators](#) > Policy and Legal

Policy and Legal

In this section

[Curation Reference Manual](#)

[Curation Lifecycle Model](#)

Policy and Legal

[Overview of Funders' Data Policies](#)

[Funders' Data Policies](#)

[Institutional Data Policies](#)

[Policy Tools and Guidance](#)

[Freedom of Information](#)

[FAQs](#)

[MRC Data Plan FAQs](#)

[Open Source FAQs](#)

[Data Management Plans](#)

[Case Studies](#)

[Tools and Applications](#)

[Briefing Papers](#)

[How-to Guides](#)

[Standards](#)

[Publications](#)

[External Resources](#)

Policy resources

[Overview of Funders' Data Policies](#)

A table and short summaries comparing research funders' policies

[Funders' Data Policies](#)

Detailed overview of each funder's policy, stating requirement for data plans, expectations on data sharing and available support.

[Institutional Data Policies](#)

A table listing example of UK universities research data policies. Add your examples!

[Policy Tools and Guidance](#)

Annotated bibliography of: 1) tools and guidance for creating policies; 2) example policies; 3) publications; & 4) data management guidance.

[Preservation policy template](#)

Template to help repositories define preservation policies

[Data management plans & DMP Online](#)

Summary of what funders ask for in plans and the DCC's tool to help

DCC Policy Summary

<http://www.dcc.ac.uk/resources/policy-and-legal>

Policy summary from ANDS



Find research data:

About ANDS

Projects & Funding

Our Approach

Events

For Researchers

Manage Data

Publish Data

Find Data

For Partner Institutions

Make Connections

Managing Data

Guides

Publishing Data

Licensing

Online Services

Content Providers Guide

Technical resources

News

Newsletter

Community Bulletin Board

Institutional policies and procedures

Institutional policies and procedures, which might include guidelines, protocols and standards, are fundamental to good research data management.

- support the [Australian Code for the Responsible Conduct of Research](#)
- be up to date
- address data-related issues (many institutions already have policies on the topics listed below but these may pre-date the latest version of the code)
- be widely publicised to all those who have a role in ensuring that research data is well managed, ie researchers, data managers
- include compliance measures.

In some instances, research institutions have sensibly opted to combine policies on topics which are related. In some cases, policies may not be consistent with, supportive of and supported by the institution's overall research data management policy.

Research data management

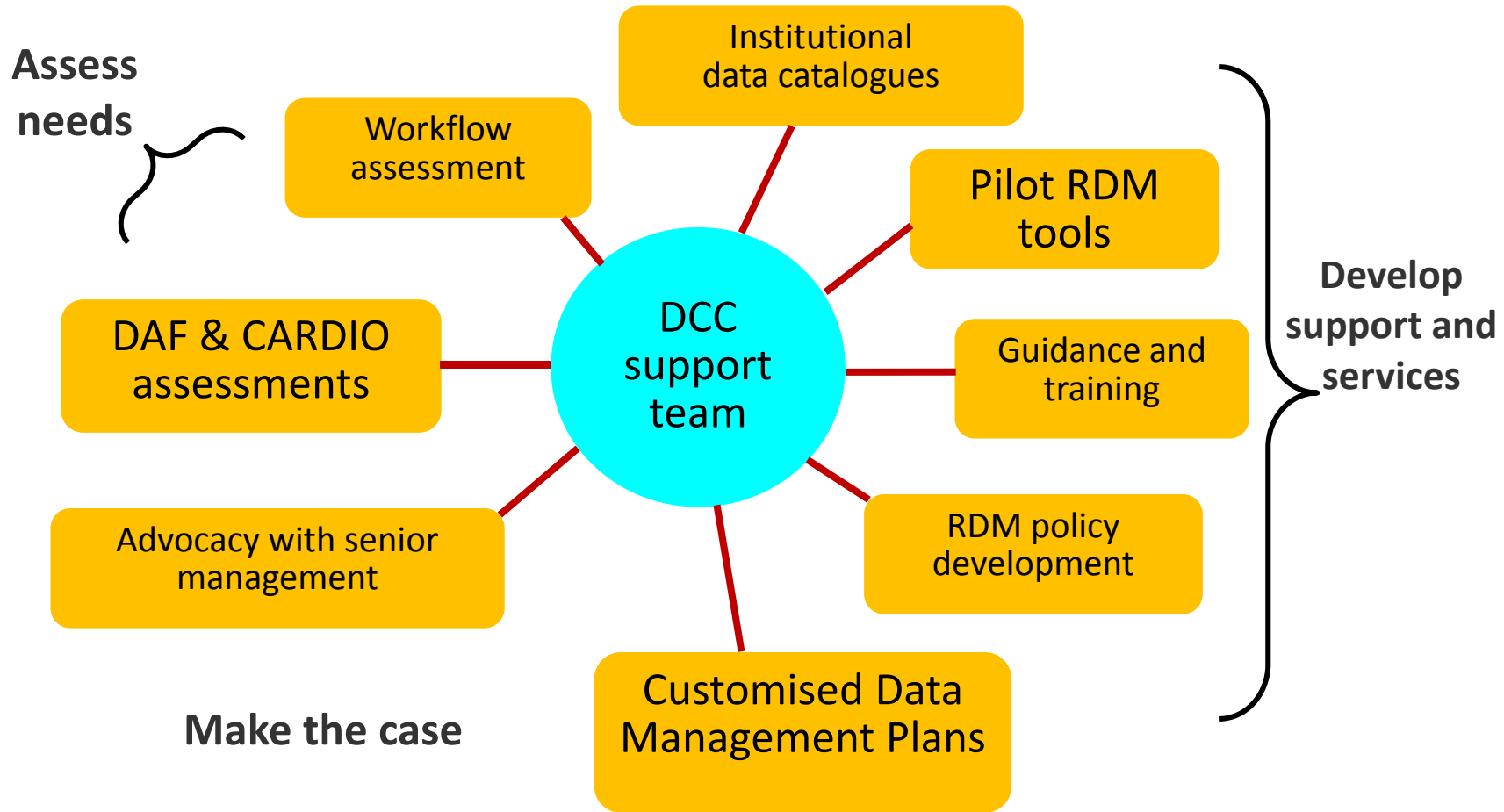
A number of ANDS guides deal with research data management policy.

- [Research Data Policy and the Australian Code for the Responsible Conduct of Research](#)
- [What is research data?](#)

The [Research Data Management Policy Outline](#) provides a list of elements which an institution may wish to consider when drawing up, or updating, its research data management policy. The following examples of research data management policies and procedures show different institutional approaches to the issue of research data management incorporated into the institutional policy on the [Australian Code for the Responsible Conduct of Research](#).

- Griffith University. [Code for the Responsible Conduct of Research](#) (Section 6: Management of Research Data and Primary Materials)
- James Cook University. [Code for the Responsible Conduct of Research. Part 2: Management of Research Data and Primary Materials](#).
- Queensland University of Technology. [Management of Research Data Policy](#)
- University of Melbourne. [Management of Research Data and Records \(Draft\)](#)
- University of New South Wales. [Research Code of Conduct. Section 8. Management of Research Material and Data](#).
- University of New South Wales. [Procedure for Handling Research Material and Data](#)
- University of Newcastle. [Research Data and Materials Management Policy](#)
- University of Newcastle. [Research Data and Materials Management Procedure](#)

DCC 'institutional engagement'



...and support policy implementation

Data is variable

- Not always textual
- Not always tabular
- Not always fixed
- Not always clearly authored – think of archival provenance
- Not always associated with publication

Daten variieren

- Nicht immer textlich
- Nicht immer tabellarisch
- Nicht immer klar definiert
- Nicht immer klar verfasst
- man denke an Archivale
Herkunft
- Nicht immer korrekt
assoziiert bei
Veröffentlichung

Grandfather's axe

Großvaters Axt

When is my dataset a new dataset?

Wann ist mein Daten-Set ein neues Daten-Set?



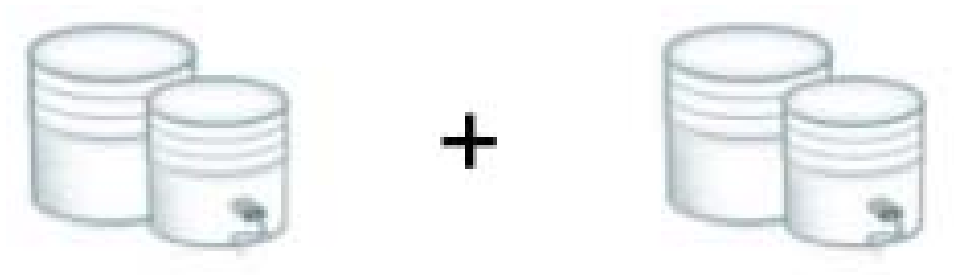
coconinoco@flickr.com CC-BY-NC-SA

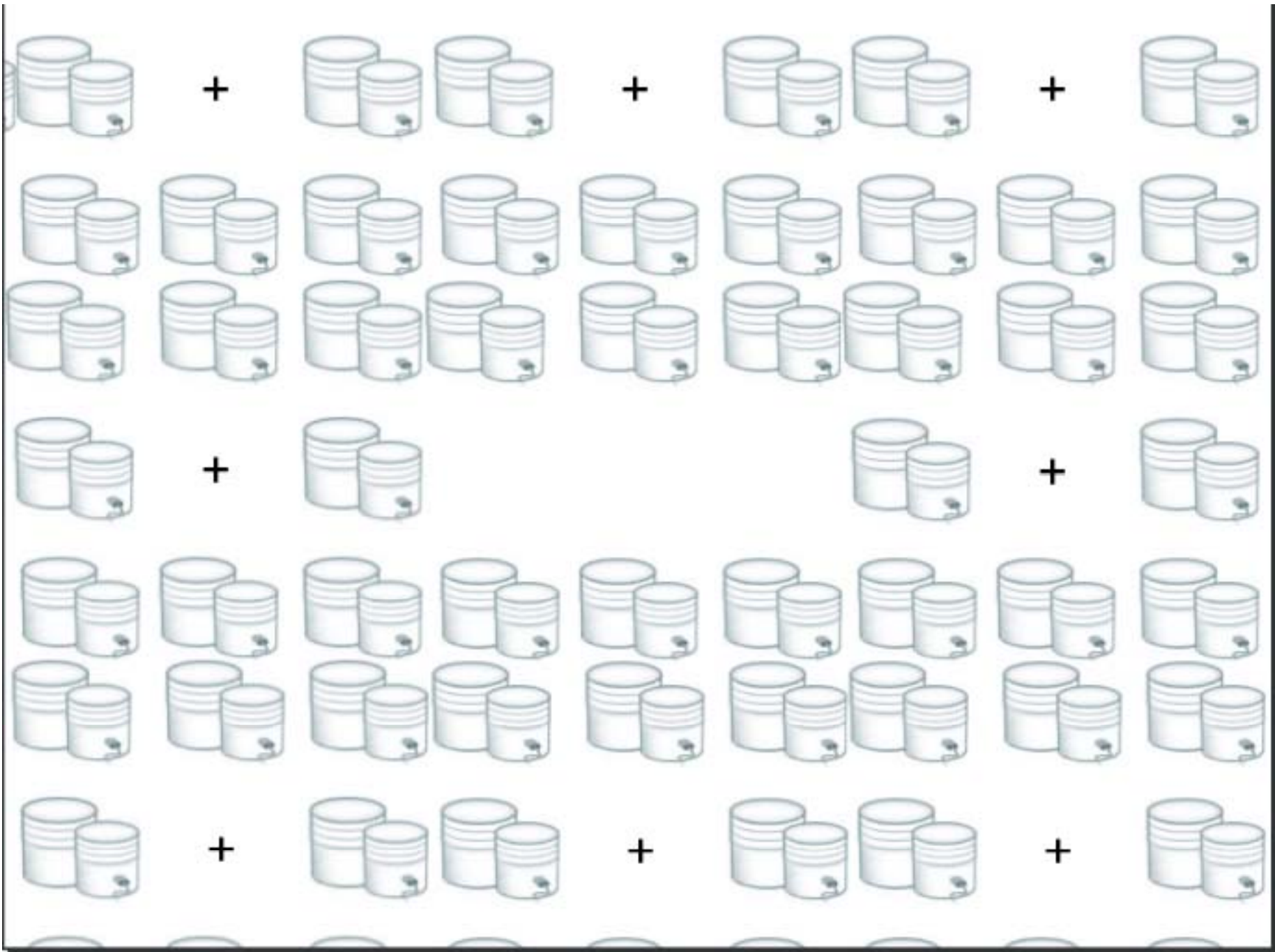
Authorship

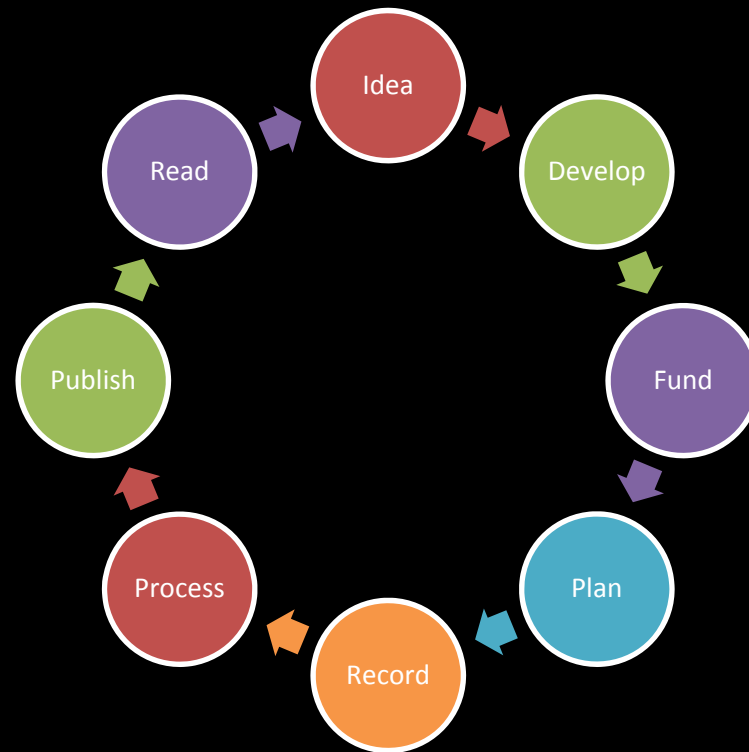
- Reference data – cell-level provenance versus single author data table
- ‘Cleaned’ data – can pass through many hands
- Synthesis...

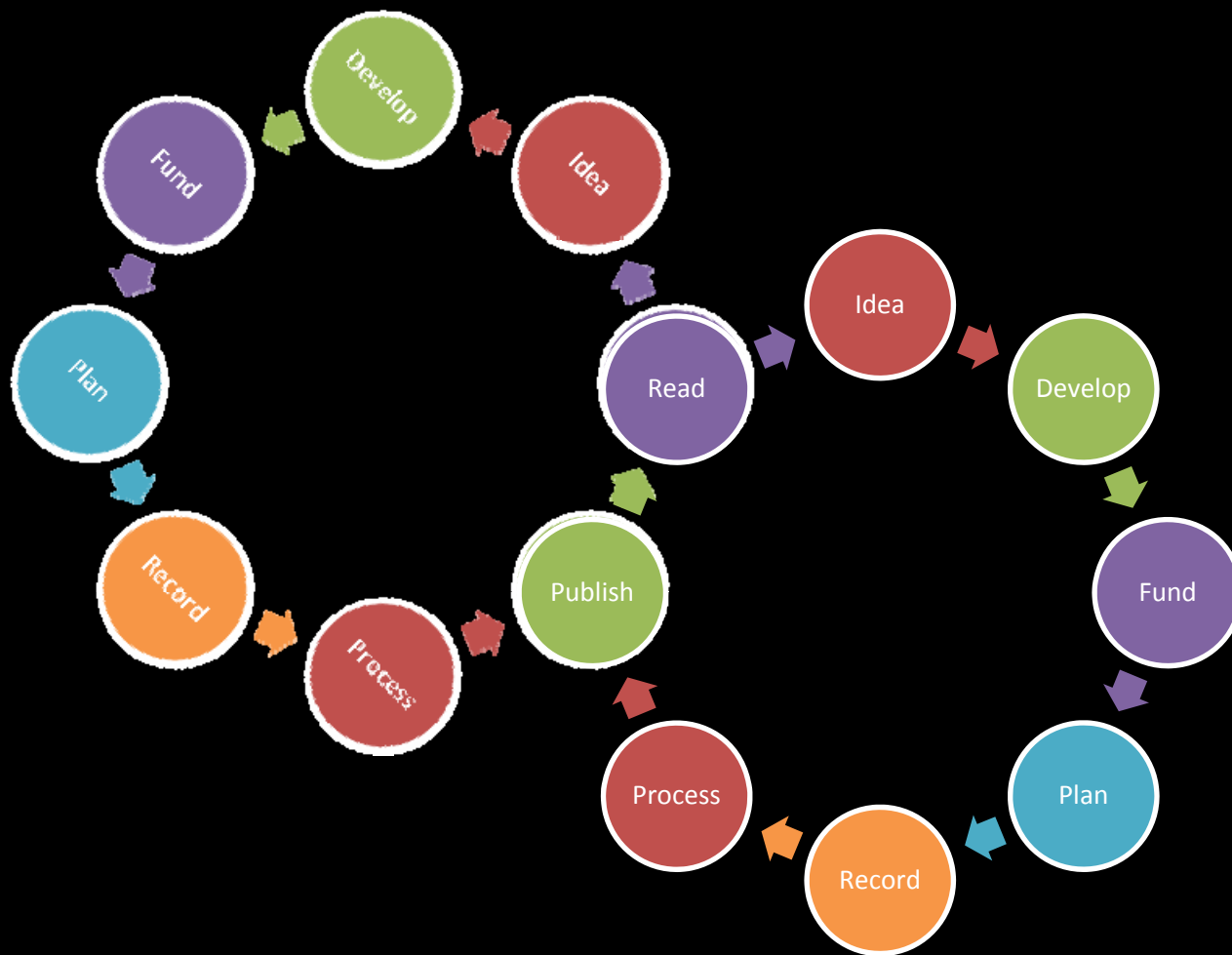
Autorschaft

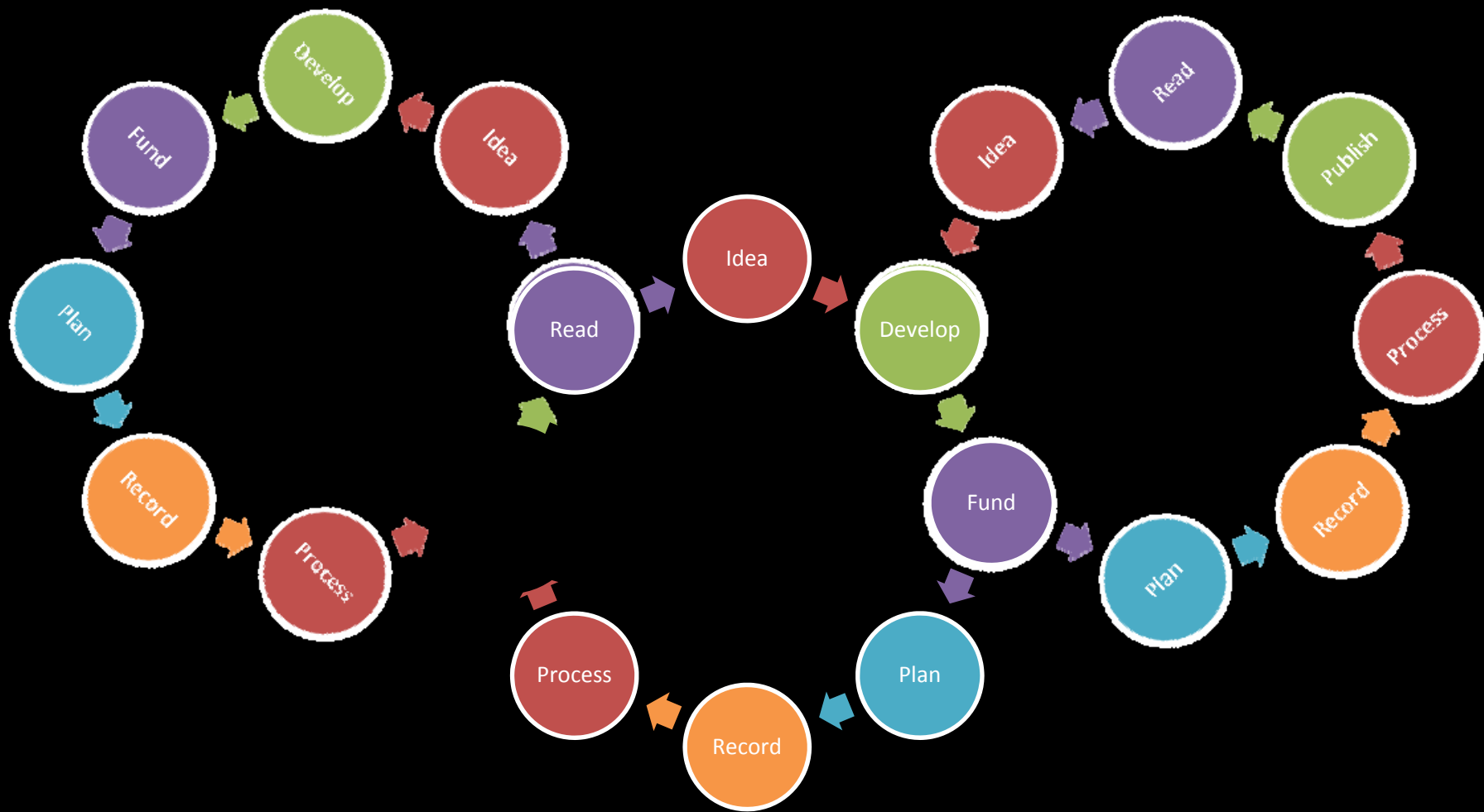
- Referenzdaten - Zell-Ebene Herkunft gegenüber einzelnen Autorsen Tabelle
- "Gereinigte" Daten - kann durch viele Hände gehen
- Synthesis ...











Questions

- How does data management align with institutional mission?
- When is library a coordinator, and when is it a service provider?
- What will you do alone, and what will you coordinate with others?
- What skills must you acquire?
- What do you want from HBZ?

Fragen

- Wie kann das Datenmanagement mit institutionellen Mission vereinigt werden?
- Wann ist ein Bibliothek der Koordinator und wann ist es der Dienstleister?
- Was kannst du alleine tun, und was wirst Du mit anderen koordinieren?
- Welche Fähigkeiten müssen Sie erwerben?
- Was erwarten Sie von HBZ?

Questions? Fragen?

@kevingashley

Kevin.ashley@ed.ac.uk

www.dcc.ac.uk

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