



UNIVERSITÄT
ZU KÖLN

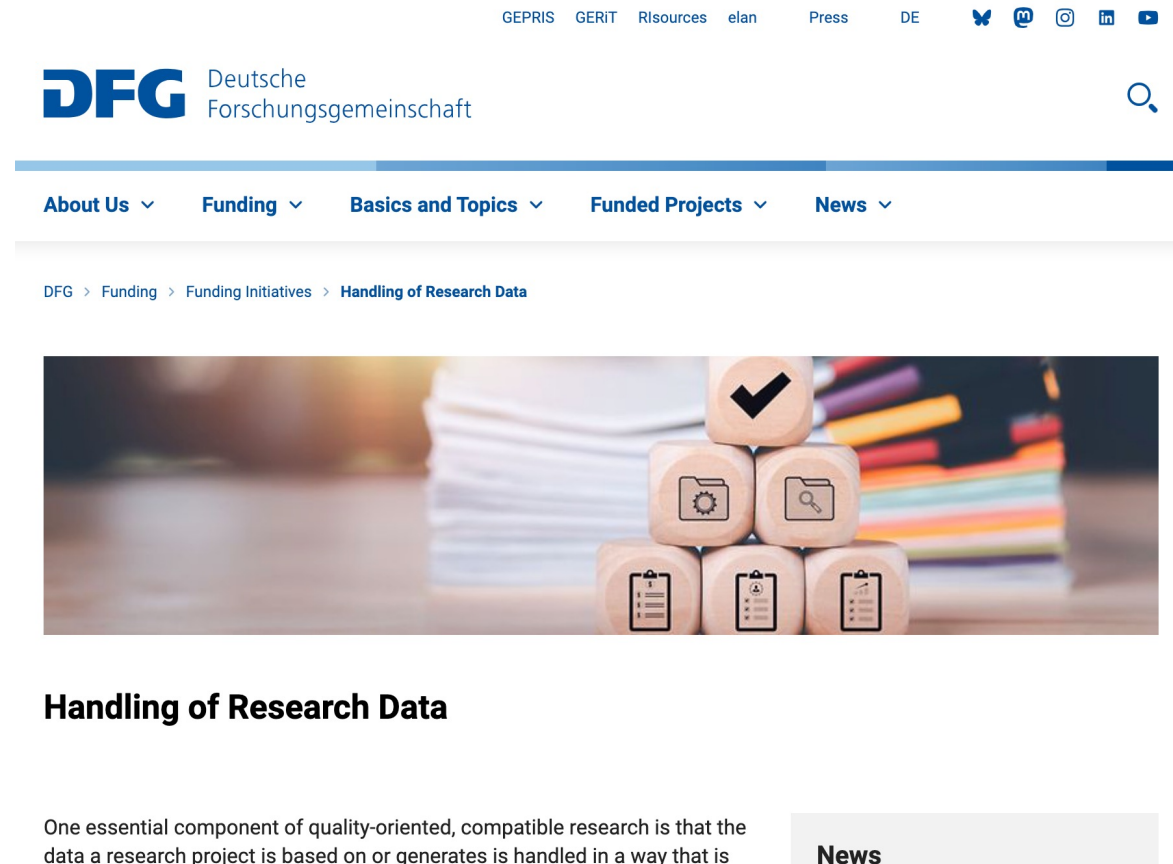
RESEARCH DATA MANAGEMENT AND LARGE SCALE COLLABORATIVE PROJECTS

Infrastructure and RDM as a consolidated entity in the federal state
of North Rhine–Westphalia

The dimensions of RDM in large-scale projects as well as the dimensions of large-scale RDM projects

- Political
- Infrastructural
- Organizational

Political – Requirements for RDM in funding large-scale projects



The screenshot shows the DFG (Deutsche Forschungsgemeinschaft) website. At the top, there is a navigation bar with links for GEPRIIS, GERT, Resources, elan, Press, and DE, along with social media icons for Twitter, LinkedIn, Instagram, and YouTube. The DFG logo and name are prominently displayed. Below the logo is a search icon. A horizontal menu contains 'About Us', 'Funding', 'Basics and Topics', 'Funded Projects', and 'News'. The breadcrumb trail indicates the current page is 'DFG > Funding > Funding Initiatives > Handling of Research Data'. The main content area features a photograph of wooden blocks with icons representing a folder, a key, a checklist, and a checkmark, symbolizing data management and research quality. Below the image, the title 'Handling of Research Data' is followed by a paragraph: 'One essential component of quality-oriented, compatible research is that the data a research project is based on or generates is handled in a way that is'. To the right of this paragraph is a grey box with the word 'News'.

Political – Requirements for funding of large-scale RDM infrastructure

Ministerium für
Kultur und Wissenschaft
des Landes Nordrhein-Westfalen
Die Staatssekretärin



Ministerium für Kultur und Wissenschaft
des Landes Nordrhein-Westfalen, 40190 Düsseldorf

An die

Kanzlerinnen und Kanzler sowie
Vizepräsidentinnen und Vizepräsidenten
für den Bereich Wirtschafts- und Personalverwaltung
der Universitäten und Hochschulen für angewandte Wissenschaften
sowie der staatlichen Kunst- und Musikhochschulen

 Mai 2024


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Aktenzeichen:

214/2024-2771

bei Antwort bitte angeben

Infrastructural – DH.NRW as a state-wide umbrella

 DIGITALE HOCHSCHULE NRW	KOOPERATIONEN/ ZENTRALE DIENSTE	DISKURSE	FÖRDERUNG	TERMINE	AKTEURE
#alle	#e-assessment (8)		#kooperation (49)		
#adaptivität (1)	#e-government (14)		#landesfachverfahren (10)		
#administration (26)	#e-learning (29)		#landesportal (18)		
#app (1)	#extern-kuratiert (12)		#lehre (37)		
#archiv (1)	#fdm (5)		#oer (21)		
#bibliothek (10)	#fellowship (1)		#onlinekurse (16)		
#bne (Bildung für nachhaltige Entwicklung) (1)	#förderlinie (13)		#reformmodell (1)		
#campus-app (1)	#forschung (12)		#service (36)		
#cloud (5)	#hpc (1)		#software (20)		
#content (23)	#informationssicherheit (2)		#studium (35)		
#digitalkompetenz (15)	#infrastruktur (38)		#vorprojekt (14)		
#e-akte (11)	#ki (1)		#VzD (17)		

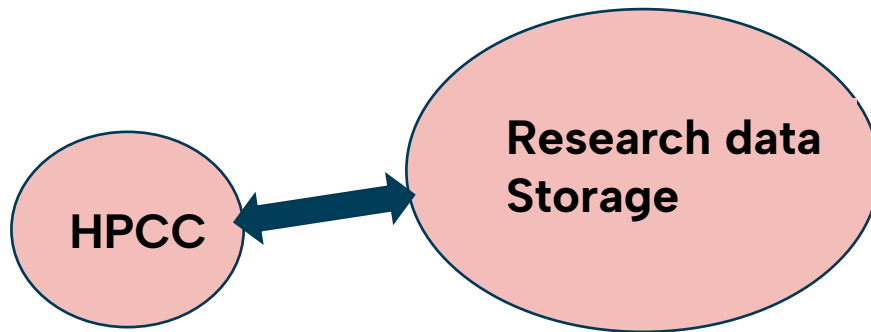
[weniger Tag-Filter ▲](#)

"Wir sind die Digitale Hochschule NRW" - unter diesem Motto und dem Leitgedanken, "Innovation durch Kooperation", arbeiten die 42 Mitgliedshochschulen der Digitalen Hochschule NRW (DH.NRW) mit dem Ministerium für Kultur und Wissenschaft NRW in vier Handlungsfeldern hochschulartübergreifend eng

Infrastructural – DataStorage.NRW is in production

- S3 geo-replicated storage system
- Multi-petabyte size; 23PB net capacity at the moment
- Needs-based model for extension of storage space; financed by the ministry
- Consortium of universities as operating committee
- Aachen, Cologne, Duisburg-Essen, Paderborn, Dortmund, Bochum
- Coscine (RWTH) as entry point, quota management and metadata store software
- Low threshold for scientists
- From 20GB for philosophers to 20PB for geneticists

Infrastructural – DataStorage.NRW is in production

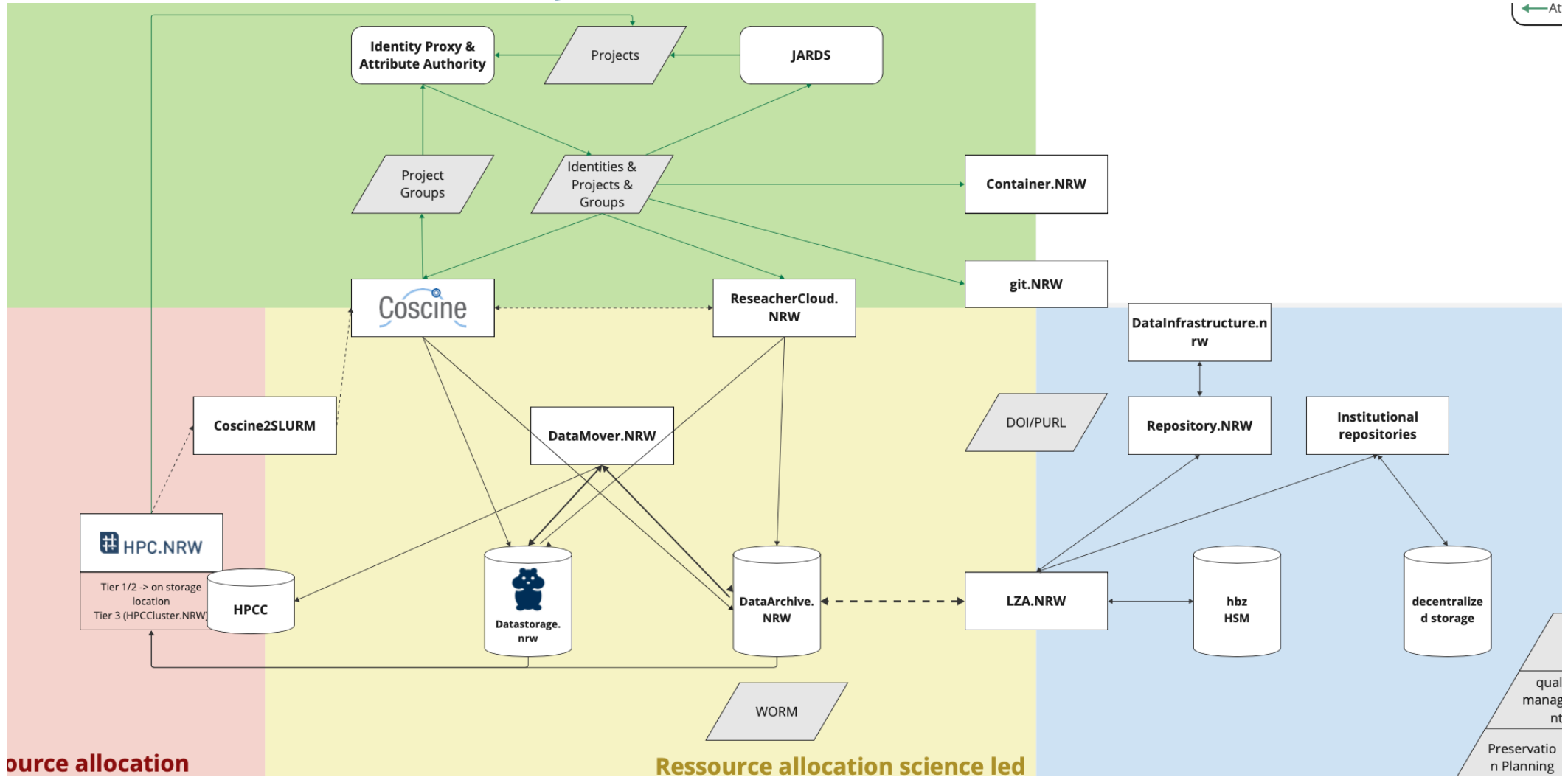


- Wide distances (Aachen ⇔ Paderborn: >200 km)



Infrastructural – Integration Plans

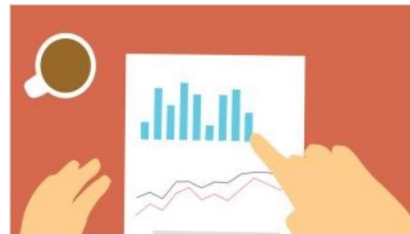
← At



Organizational – Thinking RDM as a Whole



Requirements of Funding Organisations



Data Management Plans



Find Research Data



Securing and Exchanging Research Data



Document Research Data

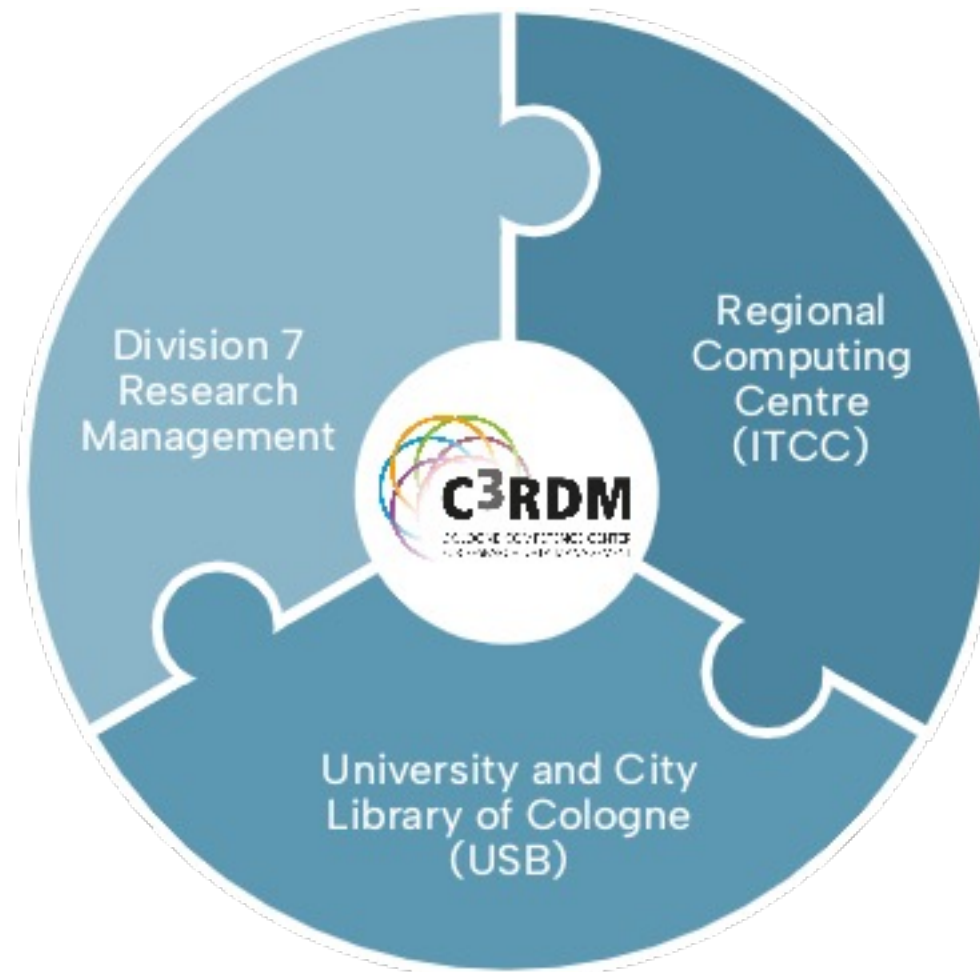


Publish Research Data

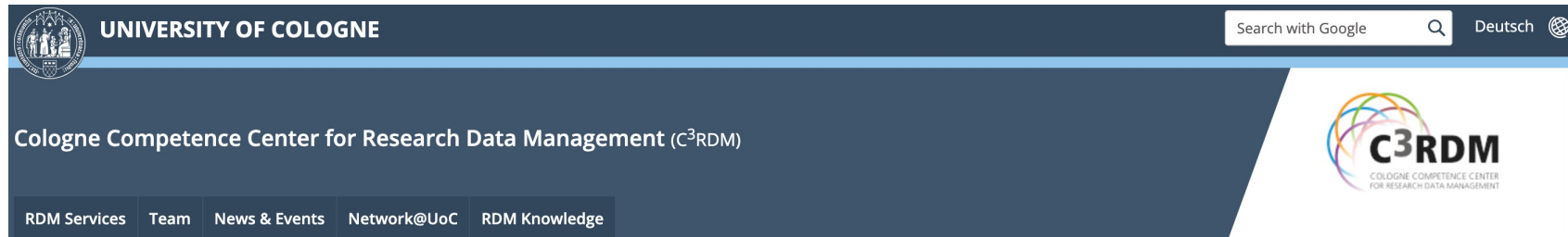
Life Cycle of Research Data



Organizational – C³RDM structure



Organizational – C³RDM services



The screenshot shows the top navigation bar of the C3RDM website. On the left is the University of Cologne logo and the text 'UNIVERSITY OF COLOGNE'. On the right is a search bar with 'Search with Google' and a magnifying glass icon, and a language selector for 'Deutsch'. Below this is a dark blue banner with the text 'Cologne Competence Center for Research Data Management (C³RDM)' and the C3RDM logo. A navigation menu below the banner includes 'RDM Services', 'Team', 'News & Events', 'Network@UoC', and 'RDM Knowledge'.

Research Data Management at UoC + > RDM Services +

Service Categories

The following list of digital services concerning research data management and research and publication support are sorted according to these categories:

[Storage and Sharing of Research Data](#)

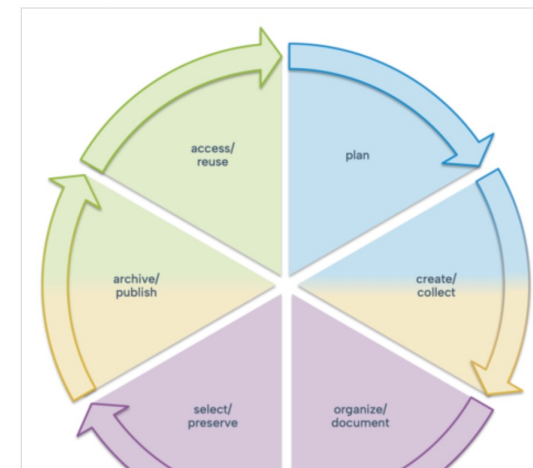
[Backup and Archive](#)

[Research Environment](#)

[Publication of Data](#)

Storage and Sharing of Research Data

Life Cycle of Research Data



Organizational – C³RDM involvement

- C³RDM personell as Pis in CRCs
- Nexus for matrix positions
- C³RDM as innovator – strategic planning and application for infrastructure funding
- Integration of institutional RDM in large-scale research projects
- Integration of institutional RDM in large-scale infrastructure projects

Conclusion

- Combining the practical knowledge of the needs of large-scale research projects with strategic planning and application for funding of large-scale RDM infrastructure
- Synergetic effects
- The Many are mightier than the Few
- Comprehensive knowledge and deep integration in All Things Large Scale
- One stop only
- Steam-lined governance and organization
- Short distances for (meta)knowledge transfer

Thank you!