



도서관 및 관련기관의 DMP (Data Management Plan) 지원서비스 사례

서태설 · 현미환 · 김완중 · 박진호



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1.1.

(가)
 (DMP, Data Management Plan)
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 , () .
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 DMP
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 DMP ,
 KISTI NDSL 가
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1.2. DMP

DMP
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 DMP () 가
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1.3.

(format), ,

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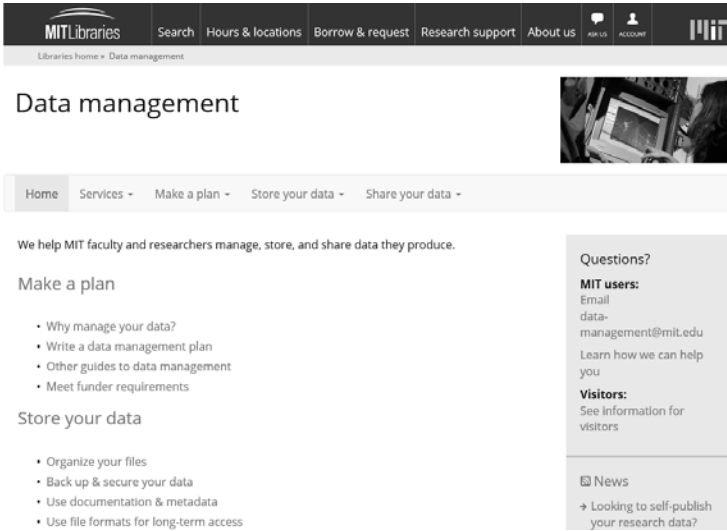
2.

DMP

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 DMP
 KISTI 가
 RDA(Research Data Alliance) 가

2.1. MIT

MIT (data management)
 MIT
 - URL : <http://libraries.mit.edu/data-management/>



[1] MIT

MIT

3

(make a plan)

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- MIT

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	DMP
	가
(open access)	

- MIT DMP 가 < 2>

< 2> MIT DMP 가

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(Project, experiment, and data description)	

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(store your data)

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- , 가 (, (DOE, Department of Energy) Atmospheric Radiation Measurement).
- MIT , .
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	<ul style="list-style-type: none"> • CD, DVD • MIT
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< 4> MIT

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	<ul style="list-style-type: none"> • Subject: • Funders: • Rights: • Language: • Location: • Methodology: 가

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- 가 (ASCII,), 가
- Word ODF, ASCII, QuickTime MPEG-4, GIF/JPG TIFF/JPEG2000, RDBMS XML RDF
- 가

(share your data)

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 - MIT , MIT DSPACE
 (<http://dspace.mit.edu/>) HAVARD-MIT Data Center(<http://libraries.mit.edu/get/dvn>)

- 가
 ICPSR(Inter-university Consortium for Political and Social Research, <http://www.icpsr.umich.edu/>)

< 5> MIT

	<ul style="list-style-type: none"> • MIT MIT MIT (COUHES, Committee on the Use of Humans as Experimental Subjects) • • • 가
	<ul style="list-style-type: none"> • • Creative Commons License • MIT

	<ul style="list-style-type: none"> • MIT 가
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MIT

DMP

DMP

The screenshot shows a 'News & events' page with a search bar and navigation tabs. The 'Data' category is selected, displaying several news items:

- Win an award for using IPUMS data in your research** (December 16, 2015)
- Looking to self-publish your research data?** (December 2, 2015)
- Christine Malinowski named DLF Fellow** (October 28, 2015)
- Run GIS processes fast on our new lab computers in Rotch!** (October 6, 2015)
- Research data management: File organization** (October 16, 2015, 1-2pm)
- Research Data Management 101** (October 15, 2015, 1-2pm)

[2] MIT

DMP

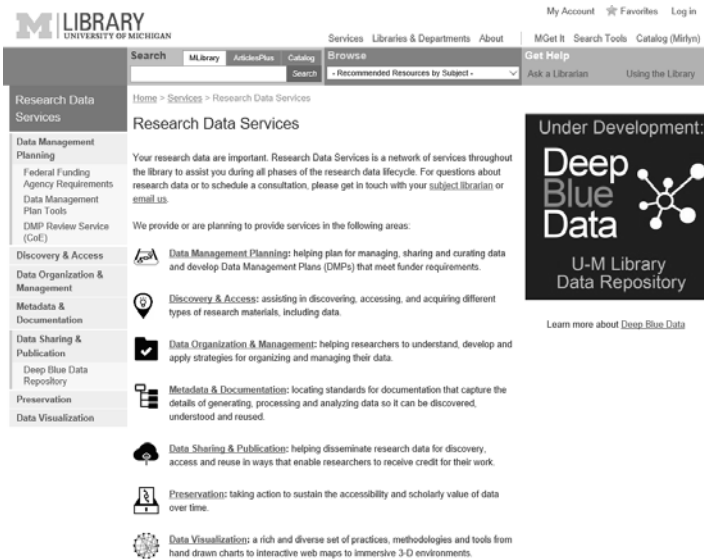
2.2.

DMP

(Research

Data Services)

- URL : <http://www.lib.umich.edu/research-data-services>



[3]

DMP

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(Data Management Planning) :

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(Discovery & Access) :

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(Data Organization & Management) :

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(Metadata & Documentation) : 가 ,

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(Data Sharing & Publication) :

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- ORCID ID
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- (Preservation) : 가

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(Data Visualization) :
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Authentication Required

Please enter your Login ID (username or Friend ID) and password to continue.

Need a Login ID?

[Create a Login ID now.](#)

Important Security Tips

- U-M will **never** send you an email asking for your password. [Learn more about phishing scams.](#)
- Before entering your UMICH password (Level-1) on a web page, check that the page's web address/URL begins with *https://weblogin.umich.edu/*

Login ID

Password

▶ MToken

[Forgot your password?](#)
[Login Help](#)

By your use of these resources, you agree to abide by [Proper Use of Information Resources, Information Technology, and Networks at the University of Michigan \(SPG 601.07\)](#), in addition to all relevant state and federal laws.

[4]

‘Deep

Blue Data’

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Deep Blue Data

Under Development

Deep Blue Data is a repository offered by the University of Michigan Library that provides access and preservation services for digital research data that were developed or used in the support of research activities at the University of Michigan.

Features:

- Provides a means for you to publish your research data
- Ensures that your data are preserved for future use
- Enables your data to be cited by assigning a Digital Object Identifier (DOI)

Benefits:

- Comply with requirements from funding agencies and publishers
- Gain visibility and promote your scholarship by sharing your data

For questions about Deep Blue Data or any questions related to [Research Data Services](#), please contact your subject librarian or researchdataservices@umich.edu.

[5] Deep Blue Data

2.3.

DMP (managing your data)

- URL : <https://www.lib.umn.edu/datamanagement/>



The screenshot shows the University of Minnesota Libraries website. The header includes the university logo, the tagline "Driven to Discover", and navigation links for "Services", "How to Find", "About", "Help", and "Sign In". The main content area is titled "MANAGING YOUR DATA" and features a sidebar with a "MANAGING YOUR DATA" menu containing links for "Home", "Our Services", "1. Before Your Research", "2. During Your Research", "3. After Your Research Ends", "Training and Workshops", and "About Us". The main content area includes a "Need help?" section with a "Contact Us" link and a "Download a Brochure of Our Services" link. Below this, there is a section titled "Before Your Research Begins" with a list of bullet points: "Schedule a data management plan (DMP) consultation (Request Form) or use our DMP templates", "Explore funding agency requirements for data and learn best practices for getting IRB approval for sharing data", and "See more tools for planning for data management". A "During Your Research" section is partially visible at the bottom.

[6]

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(IRB, Institutional Review Board)
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Nancy Sims, Copyright Librarian
Making Decisions About Your Research Data
September 7th, 2012
Video: 6 min 37 sec.

[7]

- Creative Commons (CCZero (CC0), (ODC-PDDL, Open Data Commons Public Domain Dedication & License) 가

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가 1)
(Office of Technology Commercialization) 2)

(Office of Records and Information Management)가
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(Records and Information Management)³⁾가

1) <http://www.lib.umn.edu/copyright/fairuse.phtml>
 2) <http://www.research.umn.edu/techcomm/documents/LabNotes.pdf>
 3) <http://recordsmgmt.umn.edu/>

(HIPAA),

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Agency	Directorate	Effective Date	DMP Required?	Sharing Venue
DOD		End of 2016	Yes	"Established, publicly accessible institutional repositories"
DOE		October 2015	Yes	Public Access Gateway for Energy and Science. PAGES
DOI	USGS	January 2016	Yes	USGS Data Portals
DOT		December 31, 2015	Yes	An appropriate repository, and inventoried in the DOT Public Data Listing
HHS	AHRQ	October 2015	Yes	A commercial repository TBD
	ASPR	October 1, 2014	Yes	Publicly accessible databases
	CDC	June 2015	Yes	Encourages the use of public repositories
	FDA	October 1, 2015	Yes	Publicly accessible, discipline specific databases
	NIH			Yes
ED	Institute of Education Sciences	FY2016	Yes	"existing data repository" or other approach
NASA		January 1, 2015	Yes	To be determined
NEH	Office of Digital Humanities	2014	Yes	NEH does not endorse the use of any specific repository

[8]

4) <https://www.whitehouse.gov/blog/2013/02/22/expanding-public-access-results-federally-funded-research>

DMP

The Libraries provide direct support or referral services for data management at all stages of research. If you have a question our site hasn't answered, please contact us!

If your question is unrelated to data management, please use the general [Libraries' Help](#).

I'd like help with: *

Email:

My Name: *

I'm a: *

Anything else we should know?:

[9]

DMP

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DMP

Note: Your DMP for NSF grants should not exceed two pages. Contact Data Management and Curation Services in the Libraries for consultation (datarepo@umn.edu).

Data Management Plan

V1 last updated **MM-DD-YYYY**

Name of student/researcher(s)	Your Name
Name of group/project	Project Name or Research Lab (for group plan), University of Minnesota - Twin Cities
Funding body(ies)	
Partner organisations	
Project Duration	Start: MM-DD-YYYY End: MM-DD-YYYY
Date Written	MM-DD-YYYY

Table of Contents

- [1. Introduction](#)
- [2. Data Types](#)
 - [Section 2 Checklist](#)
- [3. Data Organization, Documentation and Metadata](#)
 - [Section 3 Checklist](#)
- [4. Data Access and Intellectual Property](#)
 - [Section 4 Checklist](#)
- [5. Data Sharing and Reuse](#)
 - [Section 5 Checklist](#)
- [6. Data Preservation and Archiving](#)
 - [Boilerplate text:](#)
 - [Section 6 Checklist](#)

[10]

DMP



[11] DMP

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- (IRB, Institutional Review Board)
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Digital Curation Centre
(<http://www.dcc.ac.uk/resources/metadata-standards>)

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Evernote	<ul style="list-style-type: none"> • https://evernote.com/ •
LabArchives	<ul style="list-style-type: none"> • http://www.labarchives.com/ •
LabGuru	<ul style="list-style-type: none"> • http://www.labguru.com/ •
Open Science Framework	<ul style="list-style-type: none"> • https://osf.io/ • • GitHub, Google Drive 가 가 .

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DATA CITATION INDEX (WEB OF SCIENCE)	<ul style="list-style-type: none"> • http://www.lib.umn.edu/get/18954 • 가 .
DataCite	<ul style="list-style-type: none"> • http://search.datacite.org/ui • 가 .
ICPSR	<ul style="list-style-type: none"> • http://www.icpsr.umich.edu/icpsrweb/ICPSR/ • 가 , , 가 .
GIS Data	<ul style="list-style-type: none"> • https://www.lib.umn.edu/borchert/gis-data • "The John R. Borchert Map Library" • (http://54.173.174.15:8080/opengeoportal/) 가
Government Publications and Statistics	<ul style="list-style-type: none"> • https://www.lib.umn.edu/govpubs • .
Business Information	<ul style="list-style-type: none"> • https://www.lib.umn.edu/business • , .
Science.gov	<ul style="list-style-type: none"> • http://science.gov/ • 가 , , .

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DataBib	<ul style="list-style-type: none"> • http://databib.org/ • 가
Popular Data Repositories	<ul style="list-style-type: none"> • https://www.lib.umn.edu/datamanagement/datacenters •

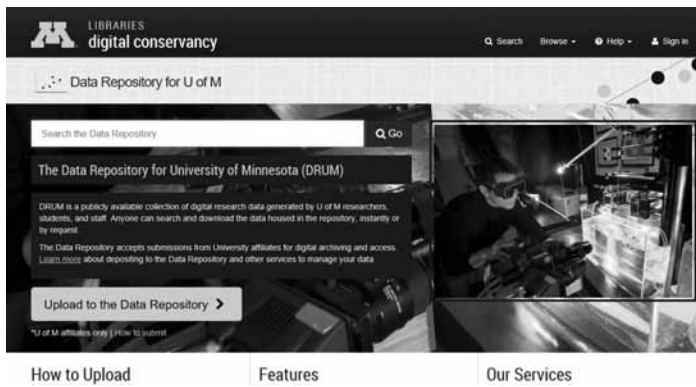
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Awesome Public Datasets	<ul style="list-style-type: none"> • https://github.com/caesar0301/awesome-public-datasets • GitHub
Open Data Commons	<ul style="list-style-type: none"> • http://www.opendatacommons.org/
OAISTER	<ul style="list-style-type: none"> • http://www.oclc.org/oaister •
CODATA	<ul style="list-style-type: none"> • http://www.codata.org/ • (International Council for Science)가 가 (Committee on Data for Science and Technology)
Science Commons	<ul style="list-style-type: none"> • http://sciencecommons.org/about • Creative Commons
Is It Open?	<ul style="list-style-type: none"> • http://www.isitopendata.org/ • (Open Knowledge Foundation)

DRUM(Data Repository for the University of Minnesota)



[12]

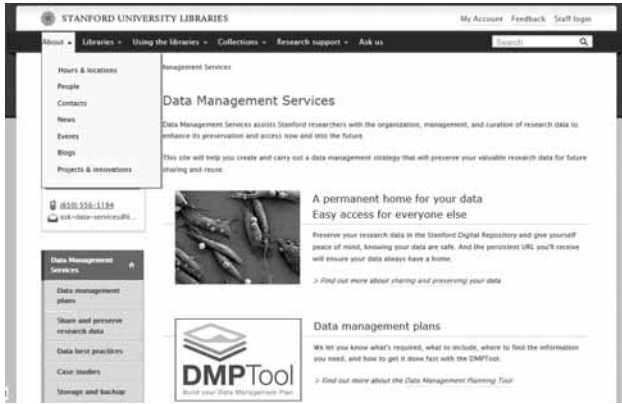
DRUM

2.4.

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- URL :

<http://library.stanford.edu/research/data-management-services>



[13]

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NIH	<ul style="list-style-type: none"> (National Institute of Health) NIH 가 http://grants.nih.gov/grants/policy/data_sharing/data_sharing_guidance.htm
NSF	<ul style="list-style-type: none"> (National Science Foundation) http://www.nsf.gov/bfa/dias/policy/dmp.jsp http://www.nsf.gov/bfa/dias/policy/dmpfaqs.jsp
NOAA	<ul style="list-style-type: none"> (National Oceanic and Atmospheric Administration) https://geo-ide.noaa.gov/wiki/index.php?title=Data_Sharing_for_NOAA_Grants_PD
NEH	<ul style="list-style-type: none"> (The National Endowment for the Humanities) http://www.neh.gov/files/grants/data_management_plans_2013.pdf
Institute of Education Sciences	<ul style="list-style-type: none"> (Institute of Education Sciences) 가 http://ies.ed.gov/funding/datasharing_implementation.asp
Gordon and Betty Moore Foundation	<ul style="list-style-type: none"> (Gordon and Betty Moore Foundation) http://www.moore.org/docs/default-source/Grantee-Resources/data-sharing-philosophy.pdf

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AFS (Andrew File System)	<ul style="list-style-type: none"> • 가 AFS , 가 (https://itservices.stanford.edu/service/afs).
Individual & Group File Storage	<ul style="list-style-type: none"> • , , • 가
Online Archive Storage	<ul style="list-style-type: none"> • • 가 가 ,
Custom (Research)	<ul style="list-style-type: none"> •
Google Drive	<ul style="list-style-type: none"> • 가 , ,
Box	<ul style="list-style-type: none"> • 가 가 , ,
Amazon S3	<ul style="list-style-type: none"> • (2015 12)

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Contributor	An entity responsible for making contributions to the resource.
Coverage	The spatial or temporal topic of the resource, the spatial applicability of the resource, or the jurisdiction under which the resource is relevant.
Creator	An entity primarily responsible for making the resource.
Date	A point or period of time associated with an event in the life cycle of the resource.
Description	An account of the resource.
Format	The file format, physical medium, or dimensions of the resource.
Identifier	An unambiguous reference to the resource within a given context.
Language	A language of the resource.
Publisher	An entity responsible for making the resource available.
Relation	A related resource.
Rights	Information about rights held in and over the resource.
Source	A related resource from which the described resource is derived.
Subject	The topic of the resource.
Title	A name given to the resource
Type	The nature or genre of the resource

[15]

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Dublin Core	• 가
Metadata Object Description Schema (MODS)	• 가

Federal Geographic Data Committee's standard (FGDC)	• ISO
Encoded Archival Description (EAD)	•
Data Documentation Initiative standard (DDI)	• XML

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Biportal	•
Gene Ontology	•
Medical Subject Headings (MeSH)	• PubMed
Web Ontology Language (OWL)	•
Getty Thesaurus of Geographic Names (TGN)	• /
RFC4646	•

Chemical Entities of Biological Interest (ChEBI)	•
Microarray Gene Expression Society Ontology (MGED)	•
Internet Media List	•
Environmental Ontology (EnvO)	•
Name Reaction, Chemical Methods, and Molecular Processes Ontologies	• (Royal Society of Chemistry)

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(Low)	•
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Secure AFS (Andrew File System)	<ul style="list-style-type: none"> • AFS , 가 • AFS
Secure IGFS (Individual & Group File Storage)	<ul style="list-style-type: none"> • Secure IGFS IGFS 가 ,
Online Archive Storage	<ul style="list-style-type: none"> • 가 .

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(DOD: Department of Defense)	<ul style="list-style-type: none"> 가 : http://www.dtic.mil/get-tr-doc/pdf?AD=ADA614321
(DOE: Department of Energy)	<ul style="list-style-type: none"> 가 : http://energy.gov/sites/prod/files/2014/08/f18/DOE_Public_Access%20Plan_FINAL.pdf 가 (beta): http://www.osti.gov/pages/
(DOE-IES: Department of Education, Institute for Educational Studies)	<ul style="list-style-type: none"> 가 : http://ies.ed.gov/funding/eric_manuscripts.asp
(HHS: Health and Human Services)	<ul style="list-style-type: none"> 가 : http://www.hhs.gov/open/publicaccess/index.html 가 : http://www.hhs.gov/open/public-access-guiding-principles/index.html
(AHRQ: Agency for Healthcare Research & Quality)	<ul style="list-style-type: none"> 가 : http://www.ahrq.gov/funding/policies/publicaccess/index.html
(ASPR: Assistant Secretary for Preparedness and Response)	<ul style="list-style-type: none"> 가 : http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf
(CDC: Centers for Disease Control and Prevention)	<ul style="list-style-type: none"> 가 : http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015_508-Compliant.pdf
(FDA: Food and Drug Administration)	<ul style="list-style-type: none"> 가 : http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf
(NIH: National Institutes of Health)	<ul style="list-style-type: none"> 가 : http://grants.nih.gov/grants/sharing.htm

7) <https://library.stanford.edu/research/data-management-services/share-and-preserve-research-data/us-public-access-plans>

(NASA: National Aeronautics and Space Administration)	<ul style="list-style-type: none"> • http://science.nasa.gov/media/medialibrary/2014/12/05/NASA_Plan_for_increasing_access_to_results_of_federally_funded_research.pdf
(NCAR: National Center for Atmospheric Research)	<ul style="list-style-type: none"> • : https://opensky.library.ucar.edu/faq#oapolicy
(NIJ: National Institute of Justice)	<ul style="list-style-type: none"> • http://www.nij.gov/funding/data-resources-program/pages/welcome.aspx
(NIST: National Institute of Standards and Technology)	<ul style="list-style-type: none"> • http://www.nist.gov/data/upload/NIST-Plan-for-Public-Access.pdf
(NOAA: National Oceanic and Atmospheric Administration)	<ul style="list-style-type: none"> • http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf
(NSF: National Science Foundation)	<ul style="list-style-type: none"> • http://www.nsf.gov/pubs/2015/nsf15052/nsf15052.pdf
(USDA: US Department of Agriculture)	<ul style="list-style-type: none"> • : http://www.usda.gov/documents/USDA-Public-Access-Implementation-Plan.pdf • : http://pubag.nal.usda.gov/pubag/home.xhtml
가 (VA: Veterans Affairs)	<ul style="list-style-type: none"> • http://www.va.gov/vhapublications/ViewPublication.asp?pub_ID=3020

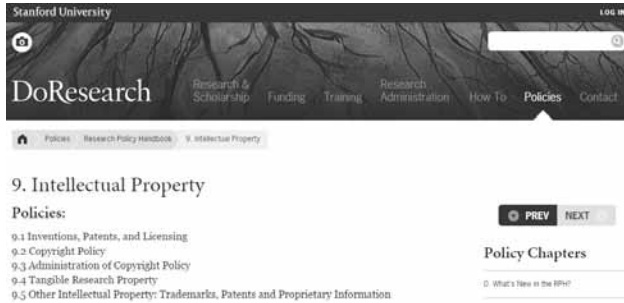
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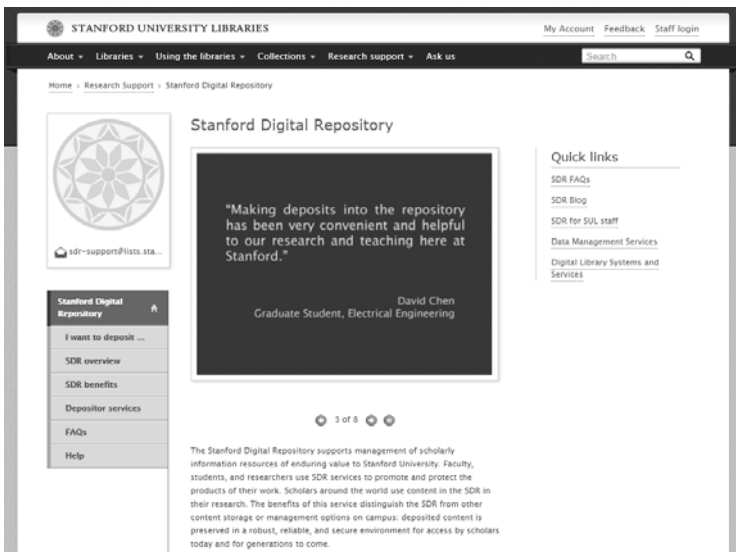
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SDR

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2.5. ICPSR

ICPSR(The Inter-University Consortium for Political and Social Research) 1962

ICPSR , , ,
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[18] ICPSR

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- (data description):

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- (designated archive):

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- (access & sharing): ICPSR
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, ICPSR IP
가 가
- (selection & retention): ICPSR ,
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- (Metadata): ICPSR
, DDI(Data Documentation Initiative)
. DDI
가
DOI 가
URL 가
- (Intellectual Property Rights):
. ICPSR
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- (Ethics and Privacy): ICPSR
- (Format): ICPSR ASCII, SAS, SPSS,
Stata , PDF . ICPSR
ASCII, XML, PDF/A

- (Archiving and Preservation): ICPSR

- (Storage and Backup):

ICPSR

ICPSR

2.6. NEH

(National Endowment for the Humanities) 1965

< 가 (National Foundation on the Arts and the Humanities Act)>

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8) <http://www.neh.gov/about/foia/library>

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- Inter-University Consortium for Political and Social Research⁹⁾
- California Digital Library¹⁰⁾ , 가

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9) <http://www.icpsr.umich.edu/icpsrweb/content/datamanagement/dmp/index.html>

10) <https://dmp.cdlib.org/>

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2.7. DCC(Digital Curation Center)

(Digital Curation Center,

DCC) 가

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- URL : <http://www.dcc.ac.uk/resources/data-management-plans>

The screenshot shows the DCC website interface. At the top, there is a navigation bar with the DCC logo and the tagline "because good research needs good data". Below the navigation bar, there is a search bar and a list of menu items: Home, Digital curation, About us, News, Events, Resources, Training, Projects, Community, and Tailored support. The main content area is titled "Data Management Plans" and contains several sections: "In this section" with a list of links, "Data Management Plans" with a brief description and a link to "Data Management Plans", "Useful links" with a link to "Checklist for a DMP", and a "Data Management Plans" section with a link to "Data Management Plans".

[19] DCC DMP

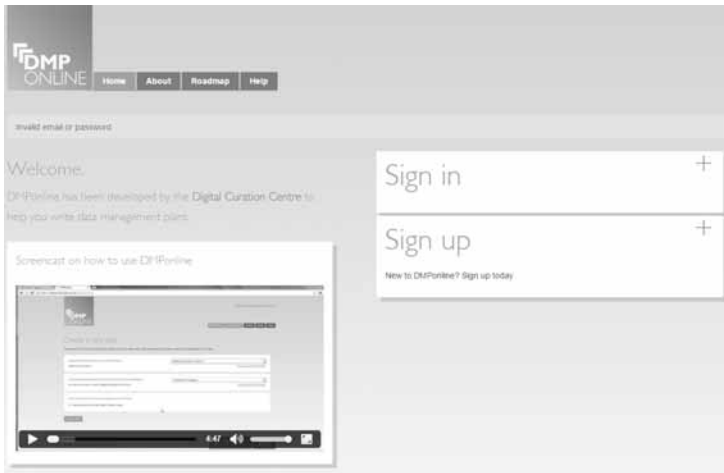
DCC

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DMP Online DCC

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[20] DCC DMP Online

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DCC

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AHRC(Arts and Humanities Research Council)	• • 가
BBSRC: Biotechnology and Biological Sciences Research Council	• •
Engineering and Physical Sciences Research Council (EPSRC)	• 가
Economic and Social Research Council (ESRC)	• ESRC 가
Medical Research Council (MRC)	• MRC MRC
Natural Environment Research Council (NERC)	• NERC
Science and Technology Facilities Council (STFC)	• STFC 8
Cancer Research UK	•

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2.8. RDA(Research Data Alliance)

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 RDA (National Science Foundation),
 (European Union), (Australian National Data
 Service)가 2012 9 .
 2013 3 18 1

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RDA “Data Sharing without Barriers”(

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Force) , IETF(Internet Engineering Task Force) 가 가 (voluntary consensus) .

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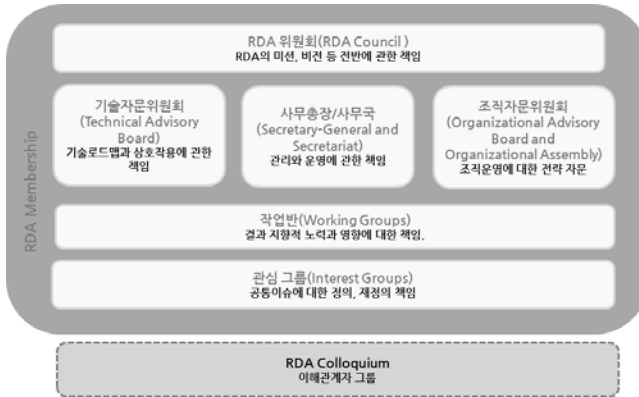
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[21] RDA

- RDA (Council): RDA , 가 , (working group)

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- RDA (Secretariat): RDA .

- RDA (Technical Advisory Board):

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RDF , 가 .

- RDA (Organisational Advisory Board):

11) https://rd-alliance.org/system/files/documents/UpdateResearchDataAlliance_December2014.ppt

(observer member)

RDA

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Array Database	• Array Database 가
BioSharing Registry: connecting data policies, standards & databases in life sciences	•
Brokering Governance	• e-infrastructure
Data Citation	•
Data Description Registry Interoperability (DDRI)	•
Data Foundation and Terminology	•
Data Type Registries	•
Metadata Standards Catalog	• RDA 가
Metadata Standards Directory	•
PID Information Types	•
Practical Policy	•
QoS-DataLC Definitions	•
RDA/CODATA Summer Schools in Data Science and Cloud Computing in the Developing World	•

RDA/NISO Privacy Implications of Research Data Sets	• 받
RDA/WDS Publishing Data Bibliometrics	•
RDA/WDS Publishing Data Services	•
RDA/WDS Publishing Data Workflows	•
Repository Audit and Certification DSA-WDS Partnership	•
Research Data Collections	•
Wheat Data Interoperability	•

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- ICPSR(Inter-university Consortium for Political and Social Research, <http://www.icpsr.umich.edu/>)

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(SDR, Stanford Digital Repository) Google Drive 가

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- [1] Research Data Alliance. (n.d.), All you wanted to know about The Research Data Alliance. Retrieved from <https://www.rd-alliance.org/sites/default/files/attachment/RDA-Members%2008January2016.pptx>
- [2] Research Data Alliance. (n.d.), Update on the Research Data Alliance December 11, 2014. Retrieved from https://rd-alliance.org/system/files/documents/UpdateResearchDataAlliance_December2014.ppt
- [3] <http://libraries.mit.edu/data-management/>
- [4] <http://www.lib.umich.edu/research-data-services>
- [5] <https://www.lib.umn.edu/datamanagement/>
- [6] <http://library.stanford.edu/research/data-management-services>
- [7] <https://www.icpsr.umich.edu/>
- [8] <http://www.dcc.ac.uk/dmponline>
- [9] <https://rd-alliance.org>

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KISTI
tsseo@kisti.re.kr

KISTI
mhhyun@kisti.re.kr

KISTI
wjkim@kisti.re.kr

jino.kor@li-st.com

KISTI 지식리포트 [No.46]

DMP(Data
Management Plan)

2016 2 ?

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(ARS) 080-969-4114

1991. 2. 12, 5-258

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3	가 KISTI	' '	2009.09.21
4		' '	2009.10.23
5		,	2009.11.10
6	E.infrastructure 가 R&D	,	2009.12.04
7	(KSCI)	,	2010.01.29
8	:	,	2010.02.11
9		' '	2010.02.16
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20	SCI : NCR for Korea 1981 -2010	' ,	2011.08.17
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33	(App)	' ,	2012.08.10
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44		' , ,	2015.10.30
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