

A landscape survey of #ActiveDMPs

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WHAT IS THE VISION?

Transform static documents in active, machine-actionable DMPs

Why? To enable:

- Researchers to manage, share and discover data more easily
- Infrastructure providers to plan their resources
- Institutions to provide effective data services
- Funders to monitor data-related activities



REQUIREMENTS & PRIORITIES

[Workshop at IDCC17](#) on a 'perfect DMP world'

Discussed different use cases:

- Interoperability with research systems
- Institutional perspective
- Repository use cases
- Evaluation & monitoring
- Utilising PIDs



WHITE PAPER ON WORKSHOP RESULTS

Simms S, Jones S, Mietchen D, Miksa T (2017) Machine-actionable data management plans (maDMPs). Research Ideas and Outcomes 3: e13086. <https://doi.org/10.3897/rio.3.e13086>

- Common standards and protocols
- Leveraging PIDs for automatic reporting etc
- Capacity planning (institutional & data centre)
- Increasing data discovery & reuse
- Supporting evaluation & monitoring
- Share/publish/deposit DMPs

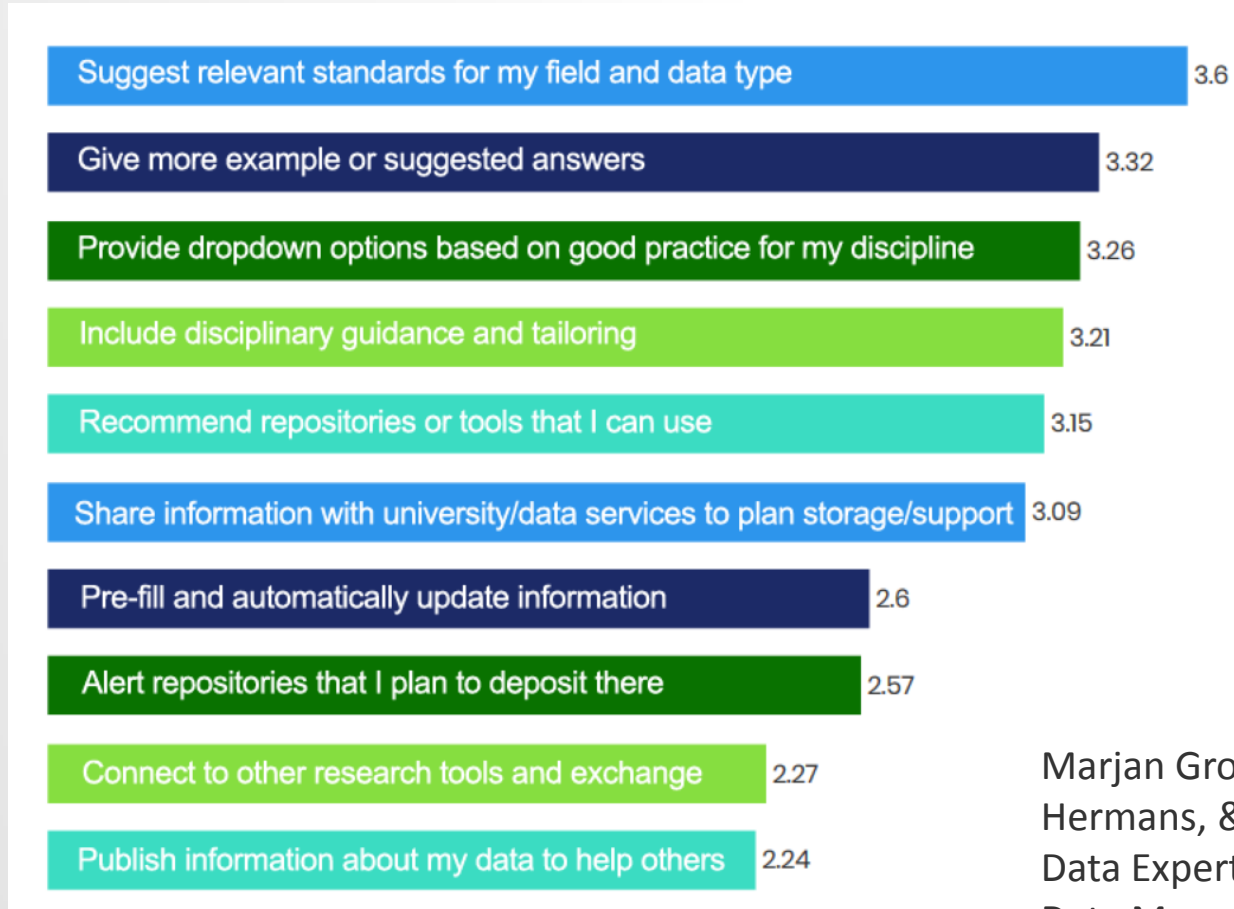
GITHUB USER STORIES

4 Open ✓ 107 Closed Author ▾ Labels ▾ Projects ▾ Milestones ▾ Assignee ▾ Sort ▾

- ① As IT staff I need information about the required data access characteristics (e.g. speed, frequency of access) to decide which kind of storage to use for the data. **planning phase**
#111 opened 3 days ago by jludwig1
- ① As IT staff I need information about the data safety requirements (e.g. how often does it change, acceptable recovery time) to decide which kind of backup procedures and storage to use for the data. **planning phase**
#110 opened 3 days ago by jludwig1
- ① As an archive manager I want to identify the data managers so that we can prepare the preservation project. **post-project phase** **repository operator** **responsibilities** 3
#98 opened on Nov 29, 2017 by JacquemotMC
- ① As a data manager I need information about the required storage class and backup requirements so that I can make sure that the data is safe and can be accessed as required **planning phase** **research support** **storage** 4
#33 opened on Nov 12, 2017 by jludwig1

<https://github.com/RDA-DMP-Common/user-stories/issues>

WHAT H2020 DMP USERS PRIORITISED



Marjan Grootveld, Ellen Leenarts, Sarah Jones, Emilie Hermans, & Eliane Fankhauser. (2018). OpenAIRE and FAIR Data Expert Group survey about Horizon 2020 template for Data Management Plans (Version 1.0.0) [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.1120245>

WHERE ARE PEOPLE ENGAGING?

Active DMPs Interest Group

- Spun out two WGs
 - DMP Common Standards
 - Exposing DMPs
- Next plenary in Berlin on 21-23 March 2018

<https://www.rd-alliance.org>



FAIR DMP Working Group

- Intend to aggregate ideas across communities and national contexts to distil common principles
- Next meeting in Montreal on 11-12 October 2018

<https://www.force11.org>



AUSTRALIAN DMP IG

- Run by ANDS to connect Australian and New Zealand initiatives with international efforts
- Fewer funder mandates so innovative approaches emerging
 - Melbourne approach of integrating training with online tool
 - ‘Data Management Record’ approach at University of Queensland

<https://www.ands.org.au/partners-and-communities/ands-communities/dmps-interest-group>



TECHNICAL PLATFORMS

Platform	Organisation(s)	Resource link(s)
DMPRoadmap	California Digital Library Digital Curation Centre Portage Network INIST CNRS	https://github.com/DMPRoadmap/roadmap
University of Queensland Research Data Manager (UQRDM)	University of Queensland	https://research.uq.edu.au/project/research-data-manager-uqrdm
ReDBox DLC	Queensland Cyber Infrastructure Foundation	https://www.redboxresearchdata.com.au/rbdlc.html
(new DMP tool under development)	University of Auckland	https://doi.org/10.17608/k6.auckland.c.3912652.v1
RDMOrganiser (RDMO)	Leibniz Institute for Astrophysics Potsdam (AIP) Potsdam University of Applied Sciences (FHP) Karlsruhe Institute of Technology Library (KIT)	http://rdmorganiser.github.io/en/
Data Stewardship Wizard	ELIXIR Europe, Dutch Techcentre for Life Sciences (DTL)	https://github.com/DataStewardshipPortal/ https://dmp.fairdata.solutions/
ezDMP	Interdisciplinary Earth Data Alliance (IEDA)	https://www.iedadata.org/ https://www.rd-alliance.org/system/files/documents/4-RDA10-Lehnert-ezDMP.pptx
Data planning tool	UNINETT Sigma2 / NorStor Research Data Archive	https://www.sigma2.no/content/data-planning-tool
DMP Service	OpenAIRE and EUDAT	Public beta due in February 2018











COMMON STANDARDS FOR DMPS

Aim to enable tools and systems involved in processing research data to read and write information to/from DMPs by

“develop a common data model with a core set of elements...
[and] provide reference implementations using popular formats”

**Calling for all tool providers to share/present their
data models at RDA plenary in Berlin**

10 SIMPLE RULES FOR MACHINE-ACTIONABLE DMPS

-  1 Integrate DMPs with the workflows of all stakeholders in the research data ecosystem
-  2 Allow automated systems to act on behalf of stakeholders
-  3 Make policies (also) for machines, not just for people
-  4 Describe—for both machines and humans—the components of the data management ecosystem
-  5 Use PIDs and controlled vocabularies
-  6 Follow a common data model for maDMPs
-  7 Make DMPs available for human and machine consumption
-  8 Support data management evaluation and monitoring
-  9 Make DMPs updatable, living, versioned documents
-  10 Make DMPs publicly available

Miksa, Tomasz, Simms, Stephanie, Mietchen, Daniel, & Jones, Sarah. (2018). Ten simple rules for machine-actionable data management plans (preprint) <http://doi.org/10.5281/zenodo.1172673>



GET INVOLVED!


Join RDA and FORCE11 groups

Share your requirements

Make your code open

Website | <http://activedmps.org>

Twitter | [@ActiveDMPs](https://twitter.com/ActiveDMPs)



#activeDMPs
A place where all DMP ideas meet!

[Find Out More](#)

What are active DMPs?

Data management plans (DMPs) are documents in which researchers define the data to be created and describe their plans for managing and sharing this. The current manifestation of a DMP - a static document often created before a project begins - contributes to the perception that they are an annoying administrative exercise. There is growing recognition that the content held within DMPs could be put to far better use, and that by making DMPs more active and machine-actionable, they would derive more value for all stakeholders involved.

THANKS TO CO-AUTHORS



<http://doi.org/10.5281/zenodo.1174283>

