



# 18th RDA Plenary

## Maintenance and Adoptions of the Common Standard for machine-actionable DMPs

*DMP Common Standards WG*

Tomasz Miksa, Paul Walk, Peter Neish

- Part 1 – Introduction for newcomers, status update, and meeting objectives
- Part 2 – Adoptions and new use cases
  - *Now that machine actionable DMPs are becoming available, what could we do with them?*
    - by Daniel Mietchen
  - *Update on maDMPs in a government context: Developing an RDA maDMP extension and logic model*
    - by Claire Austin
  - *Automating Evaluation of Machine-Actionable Data Management Plans with Semantic Web Technologies*
    - by Lea Brugger and Raffael Foidl
  - *maDMP4LS : integration of DMP OPIDoR in the French infrastructure landscape*
    - by Benjamin Faure and Konogan Bourhy
- Part 3 – Maintenance of the recommendation
- Part 3 – Wrap up and next steps
  - What are the new topics we should tackle together to ease adoption of maDMPs?
  - Are there any updates needed in the recommendation?

# Participants

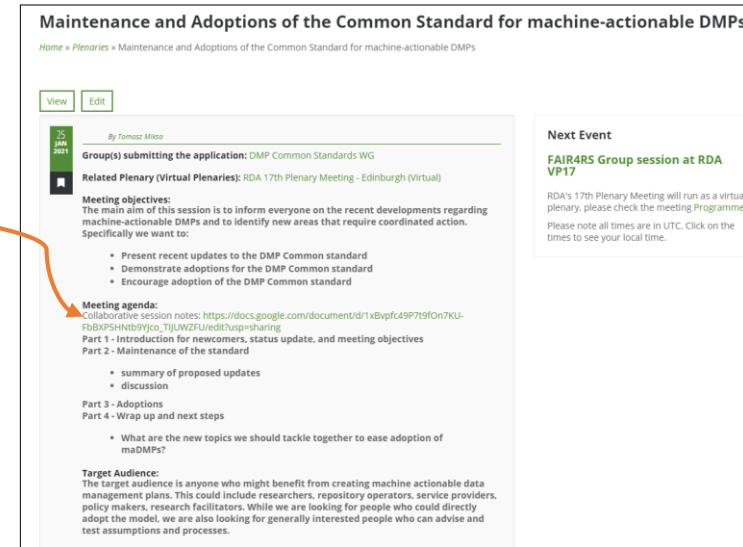
## › Collaborative notes

› [LINK](#)

› Add your name to the list

› Co-edit!

## › Let's get to know each other



**Maintenance and Adoptions of the Common Standard for machine-actionable DMPs**  
Home » Plenaries » Maintenance and Adoptions of the Common Standard for machine-actionable DMPs

[View](#) [Edit](#)

By Tomasz Miksa

**Group(s) submitting the application:** DMP Common Standards WG

**Related Plenary (Virtual Plenaries):** RDA 17th Plenary Meeting - Edinburgh (Virtual)

**Meeting objectives:**  
The main aim of this session is to inform everyone on the recent developments regarding machine-actionable DMPs and to identify new areas that require coordinated action. Specifically we want to:

- Present recent updates to the DMP Common standard
- Demonstrate adoptions for the DMP Common standard
- Encourage adoption of the DMP Common standard

**Meeting agenda:**  
Collaborative session notes: [https://docs.google.com/document/d/1xBvpfC49P7i9fOn7KJ-FbBXP5Hnbt5Yjco\\_TjUWZFU/edit?usp=sharing](https://docs.google.com/document/d/1xBvpfC49P7i9fOn7KJ-FbBXP5Hnbt5Yjco_TjUWZFU/edit?usp=sharing)

Part 1 - Introduction for newcomers, status update, and meeting objectives  
Part 2 - Maintenance of the standard

- summary of proposed updates
- discussion

Part 3 - Adoptions  
Part 4 - Wrap up and next steps

- What are the new topics we should tackle together to ease adoption of maDMPs?

**Target Audience:**  
The target audience is anyone who might benefit from creating machine actionable data management plans. This could include researchers, repository operators, service providers, policy makers, research facilitators. While we are looking for people who could directly adopt the model, we are also looking for generally interested people who can advise and test assumptions and processes.

**Next Event**  
**FAIR4RS Group session at RDA VP17**  
RDA's 17th Plenary Meeting will run as a virtual plenary, please check the meeting Programme. Please note all times are in UTC. Click on the times to see your local time.



Go to **slido.com** and enter **#926 519**

## How familiar are you with maDMPs?

Considering adoption



29%

Following developments of this group



29%

Already adopted



21%

Interested in this topic, but first time here



14%

I just came to find out what's this group about

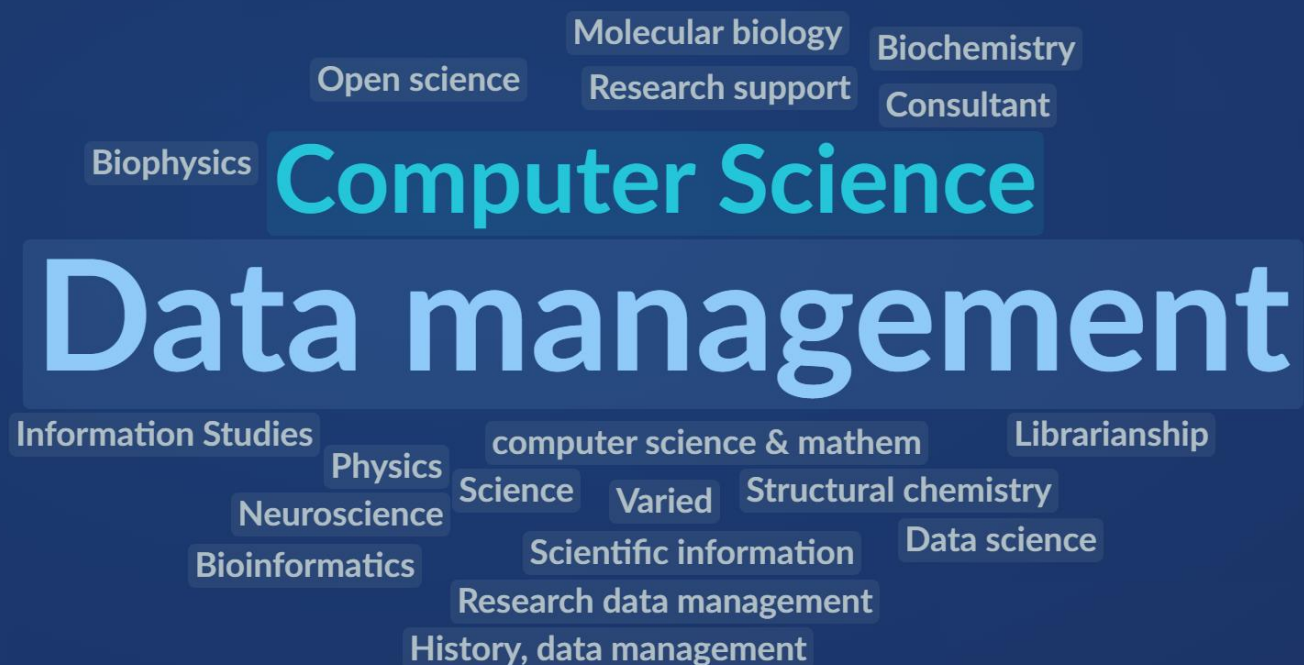


7%

## Where are you located?



## What is your background?



# Introduction for newcomers

## Part 1

# Data Management Plans (DMPs)

	Data Officer	Who is responsible for the data management and the DMP of the project (name/email address)?
I	Data Characteristics	
I.1	Description of the data	What kinds of data/source code will be generated or reused (type, format, volume)? How will the research data be generated and which methods will be used? How will you structure the data and handle versioning? Who is the target audience?
II	Documentation and Metadata	
II.1	Metadata standards	What metadata standards (if any) will be in use and why? (see <a href="#">Digital Curation Centre</a> )
II.2	Documentation of data	What information is needed for the data to be findable, accessible, interoperable and re-usable (FAIR) in the future? Is the data machine-readable? How are you planning to document this information?
II.3	Data quality control	What quality assurance processes will you adopt? How will the consistency and quality of data collection be controlled and documented? (This may include processes such as repeat samples or measurements, standardised data capture, peer review of data or representation with controlled vocabularies.)
III	Data Availability and Storage	
III.1	Data sharing strategy	How and when will the data be shared and made accessible? What repository will you be using? What persistent identifier will be used?
III.2	Data storage strategy	What data are to be preserved for the long-term, and what data will not be stored? How and where will the data be stored and backed up during the research? How and where will the data be stored after the project ends? For how long will the data be stored? Are there any costs that need to be covered for storage? At what point during or after the project will the data be stored? Are there any technical barriers to making the research data fully or partially accessible?



Table of Contents	
Foreword by Dr Thierry Damerval	2
Introduction	4
GUIDANCE FOR ORGANISATIONS: CORE REQUIREMENTS FOR DATA MANAGEMENT PLANS	7
GUIDANCE FOR ORGANISATIONS: CRITERIA FOR THE SELECTION OF TRUSTWORTHY REPOSITORIES	11
GUIDANCE FOR RESEARCHERS: Translating the Core Requirements into a DMP template Guiding the Selection of Trustworthy Repositories	15
GUIDANCE FOR REVIEWERS: Evaluation Rubric for Data Management Plans	31
Notes and References	51
Annex: Compatibility with the FAIR Data Principles	52

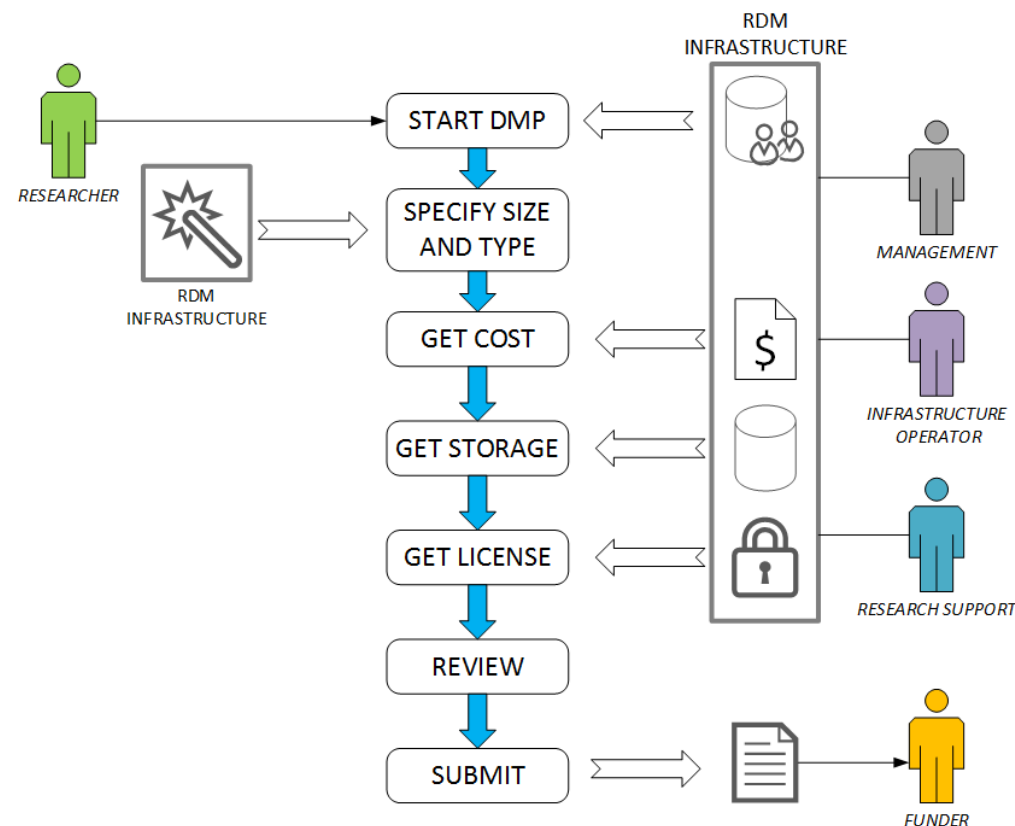
4 For procedural elements of implementing DMPs, see the RDA DMP Common Standards Working Group: <https://www.rd-alliance.org/groups/dmp-common-standards-wg>






# Machine-actionable DMPs (maDMPs)

- Machine-actionable DMPs
  - Living documents
  - automate data management
    - collect information from systems
    - trigger actions in systems
  - facilitate validation
- This requires
  - well-defined RDM workflows
  - data management infrastructure
  - common standard to represent information






## RDA DMP Common Standard for Machine-actionable Data Management Plans

**The Challenge:**

Data Management Plans are free-form text documents describing the data that is used and produced during the course of research activities. They specify where the data will be archived, which licenses and constraints apply, and to whom credit should be given, etc. The workload and bureaucracy often associated with traditional DMPs can be reduced when they become machine-actionable.



Produced by: **DMP Common Standards WG**  
<https://www.rd-alliance.org/groups/dmp-common-standards-wg>

## RDA DMP Common Standard for Machine-actionable Data Management Plans

Recommendations of the RDA DMP Common Standards WG  
*Tomasz Miksa, Paul Walk, Peter Neish*

### Purpose

This application profile is meant for exchange of machine-actionable DMPs between systems. It is independent of any internal data organisation used by these systems. The application profile does not prescribe how information must be presented to the end user and does not enforce any specific logic on how this information must be collected or used. The application profile is an information carrier and the full machine-actionability can only be achieved when systems using the application profile implement appropriate logic.

This application profile is intended to cover a wide range of use cases and does not set any business (e.g. funder specific) requirements. It represents information over the whole DMP lifecycle, that is, it can express planned actions, as well as actions already performed.

The application profile is NOT intended to be a prescriptive template or a questionnaire, but to provide a re-usable way of representing machine-actionable information on themes covered by DMPs.

### Overview

Figure 1 presents concepts used within the application profile. Each concept is further broken down into specific fields (not depicted). The full application profile specification can be found [online](#). Below we outline main concepts used within the application profile that are depicted in Figure 1.

**DMP** - Provides high level information about the DMP, e.g. its title, modification date, etc. It is the root of this application profile.

**Project** - Describes the project associated with the DMP, if applicable. It can be used to describe any type of project: that is, not only funded projects, but also internal projects, PhD theses, etc.

**Funding** - For specifying details on funded projects, e.g. NSF of EC funded projects.

**Contact** - Specifies the party which can provide information on the DMP.

**Contributor** - For listing all parties involved in the process of data management described by

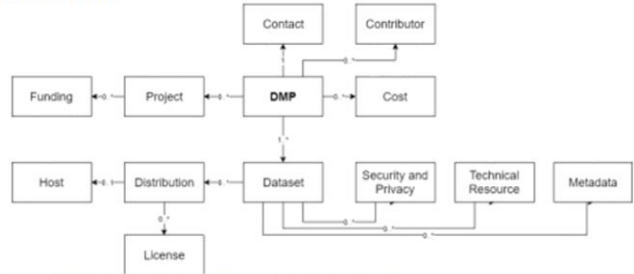


Figure 1: Overview of the application profile for the machine-actionable DMPs.

1

# maDMPs - documentation

## Properties in 'dmp'

Name	Description	Data Type	Cardinality	Example Value
<a href="#">contact</a>	Contact person for a DMP	Nested Data Structure	1	
<a href="#">contributor</a>	To list people that play role in data management related to this DMP, e.g. responsible for performing actions described in this DMP.	Nested Data Structure	0..n	
<a href="#">cost</a>	To list costs related to data management. Providing multiple instances of a 'Cost' allows to break down costs into details. Providing one 'Cost' instance allows to provide one aggregated sum.	Nested Data Structure	0..n	
<a href="#">created</a>	Date and time of the first version of a DMP. Must not be changed in subsequent DMPs.	DateTime	1	2019-03-13 13:13
<a href="#">dataset</a>	To describe data on a non-technical level.	Nested Data Structure	1..n	

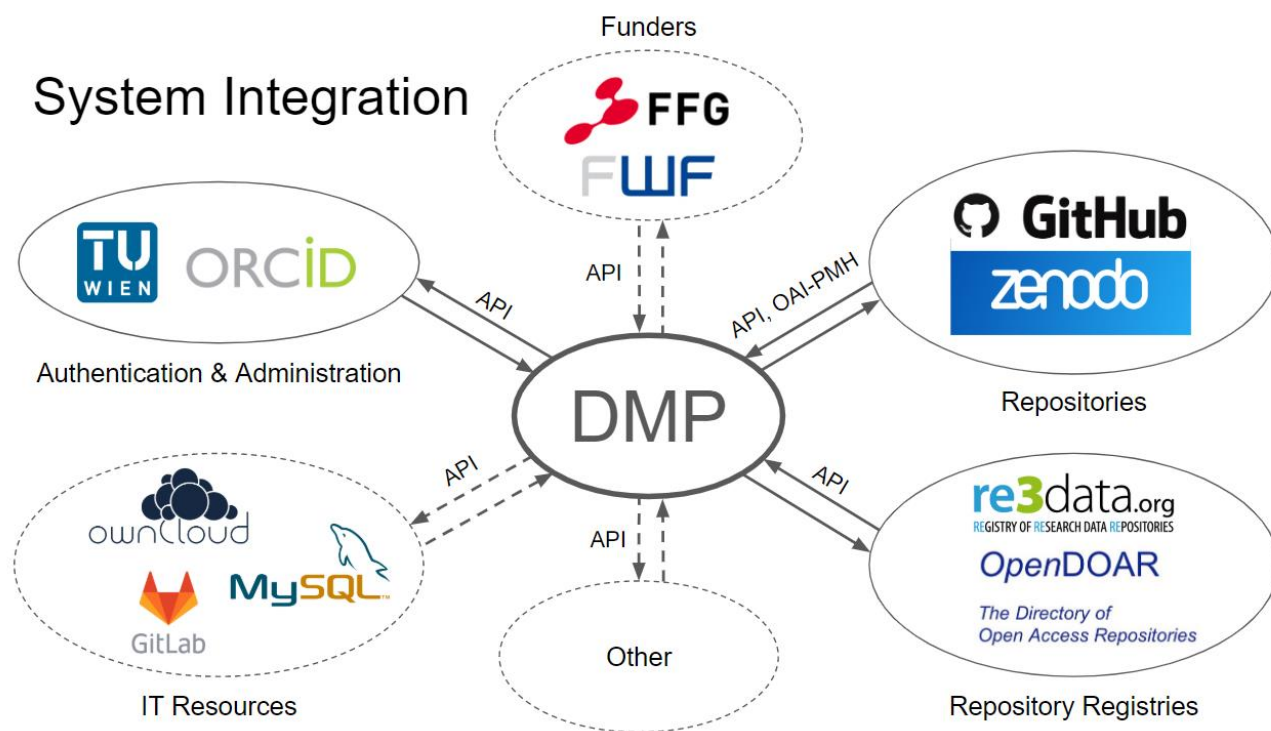
NOT a questionnaire!  
NOT a template!

Most fields are optional!

<https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/blob/master/docs/index.md>

# RDM Infrastructure

- maDMPs are the 'glue' between different systems
  - Automate getting information **in** and **out**



# Adoptions (selected)

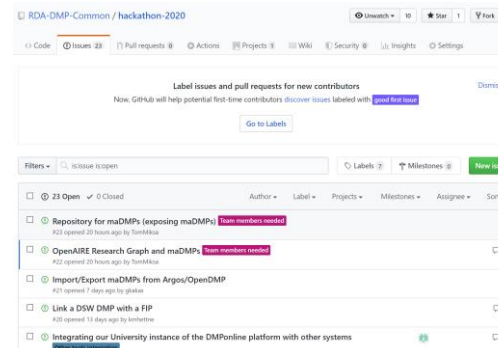
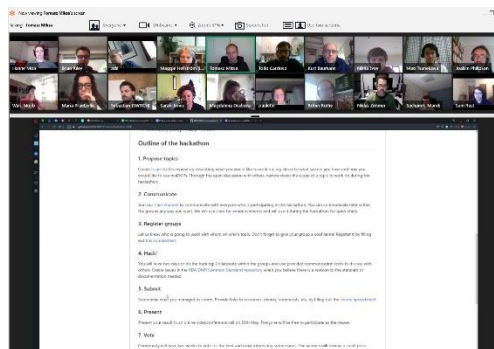


## ➤ Maintenance mode

## ➤ Activities

- Calls announced via [mailing list](#)
- [GitHub issues](#)
- [RDA Hackathon on maDMPs](#)
  - 71 participants, 12 teams, 21 countries
  - Integrations, mappings, etc.
  - [Results](#)

We have **240+** members!



- › Slides from all our sessions are in the repository
- › Today's presentations will also be there

<https://www.rd-alliance.org/node/56938/file-repository>

WG

DMP Common Standards WG

Taxonomy:

Posts

Wiki

Events

Repository

Outputs

Case Statements

Plenaries

Members

create new content

Group Status:

WGs Maintaining deliverables (maintenance group)

You are the group manager

›

status: Recognised & Endorsed

Chair (s): Paul Walk, Peter Neish, Tomasz Miksa

Group Email: dmp-common@rda-groups.org

Secretariat Liaison: enquiries[at]rd-alliance.org

File Repository

22 April 2021

VP17 Edinburgh

by Tomasz Miksa

Attachment	Size
2021-RDA-DMP-VP17.pdf	3.71 MB
1-Zeno-FairDataAustria-DMAP.pdf	1.05 MB
3-Elli-Argos.pdf	1.66 MB
4-Fajar-DCSOntology.pdf	1.82 MB

12 November 2020

VP16 Costa Rica Slides

by Tomasz Miksa

Slides from the plenary session at the VP16: \* 2020-RDA-DMP-VP16 - main deck of slides 1 - Claire Austin - maDMPs in a government context 2 - Maria Praetzellis - DMPHub 3 - Lucas Berent, Alexandre

Attachment	Size
1-madmps-government.pdf	962.26 KB
2-dmphub.pdf	1.34 MB
3-madmps-exposing.pdf	1.87 MB
4-madmps-repositories.pdf	794.44 KB
5-argos-knowledge-graph.pdf	2.09 MB
6-ro-crates-and-madpms.pdf	1.16 MB
2020-RDA-DMP-VP16.pdf	2.78 MB



# Papers published!

- Describes the full story of developing the recommendation
- Example of a minimal maDMP
- Presents adoptions
  - Haplo
  - Open Research Publishing Platforms
  - DMP Tool
  - DMPonline
  - DMP OPIDoR
  - Data Stewardship Wizard
  - NSD DMP
  - Argos
  - Research infrastructure at TU Wien
  - Easy DMP



**DATA SCIENCE JOURNAL**

Reading: Application Profile for Machine-Actionable Data Management Plans

Share: [f](#) [t](#) [g](#) [in](#)

Special Collection: Research Data Alliance Results

**Research Papers**

Application Profile for Machine-Actionable Data Management Plans

**Authors:** Tomasz Miksa, Paul Walk, Peter Neish, Simon Oblasser, Hollydawn Murray, Tom Renner, Marie-Christine Jacquemot-Perbal, João Cardoso, Trond Kvamme, Maria Praetzelis, Marek Suchánek, Rob Hooft, Benjamin Faure, Hanne Moa, Adil Hasan, Sarah Jones

**Abstract**

This paper presents the application profile for machine-actionable data management plans that allows information from traditional data management plans to be expressed in a machine-actionable way. We describe the methodology and research conducted to define the application profile. We also discuss design decisions made during its development and present systems which have adopted it. The application profile was developed in an open and consensus-driven manner within the DMP Common Standards Working Group of the Research Data Alliance and is its official recommendation.

**Keywords:** application profile, maDMPs, common standard, machine actionable, RDA

**How to Cite:** Miksa, T., Walk, P., Neish, P., Oblasser, S., Murray, H., Renner, T., Jacquemot-Perbal, M.-C., Cardoso, J., Kvamme, T., Praetzelis, M., Suchánek, M., Hooft, R., Faure, B., Moa, H., Hasan, A. and Jones, S., 2021. Application Profile for Machine-Actionable Data Management Plans. *Data Science Journal*, 20(1), p.32. DOI: <http://doi.org/10.5334/dsj-2021-032>

455 Views	49 Downloads	28 Twitter
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Published on 26 Oct 2021

Peer Reviewed

CC BY 4.0

Accepted on 12 Oct 2021

Submitted on 14 Jul 2020

Eventually! 😊

<http://doi.org/10.5334/dsj-2021-032>



# Papers accepted!

## Practice Paper

### Interconnecting systems using machine-actionable Data Management Plans - hackathon report

João Cardoso<sup>1</sup>, Leyla J. Garcia<sup>2</sup>, Tomasz Miksa<sup>3</sup>  
<sup>1</sup>Universidade de Lisboa, Instituto Superior Técnico & INESC-ID, Lisboa, Portugal  
<sup>2</sup>ZB MED Information Centre for Life Sciences, Cologne, Germany  
<sup>3</sup>SBA Research & TU Wien, Vienna, Austria

Corresponding author, joao.m.f.cardoso@tecnico.ulisboa.pt

This paper presents outputs of the Research Data Alliance Hackathon on Machine-actionable Data Management Plans, where participants proposed a series of topics looking forward to using and improving aspects related to this subject. The hackathon served three main purposes: broadening the community, improving the core supporting machine-actionable plans and exposing a growing endorsement on the adoption of the RDA DMP Common Standard application profile in a wide range of settings to enable exchange of DMP specific information in a machine-actionable way.

**Keywords:** Data management plans, machine-actionable data management plans, semantic web, community practice, open science.

#### 1 Introduction

The Data Management Plan (DMP) was introduced to document and publish both data management practices and policies that are applied to data throughout its lifecycle. This implies describing the techniques, methods and policies on how data is to be created, collected, documented, processed, accessed, preserved, disseminated as well as the roles and responsibilities of associated actors (Michener, 2015).

The premise behind the concept of a machine-actionable DMP (maDMP) is that information contained within a DMP can be enacted both by humans and automated systems, thus addressing some of the limitations associated with traditional DMP documents. To that effect, data management workflows should integrate maDMPs and data management policies should take into account not only human agents but also machines. maDMPs should support both human and machine-processable representations so they act as an interchange format for dissemination and public access of the maDMP (Simms et al., 2017). In order to provide a machine-actionable representation of a maDMP, it becomes necessary to establish a standardised representation of the maDMP. The Research Data Alliance (RDA) (RDA, 2020) DMP Common Standards (DCS) working group (Miksa, Cardoso, and Borbinha, 2018; Miksa, Neish, et al., 2018; Miksa, Walk, and Neish, 2019) developed an application profile making it easier to express information from traditional DMP documents in a machine-actionable way. The DCS maDMP application profile allows for automatic exchange, integration, and validation of information provided in DMP documents. Thus, facilitating the exchange of information between systems acting on behalf of stakeholders involved in the research life cycle, such as researchers, funding bodies, repository managers, ICT providers, librarians, etc.

This paper reports on a hackathon organised by the DCS working group, which had as main motivation to promote the adoption of the maDMP concept by the research community, and, in particular, the usage of the DCS application profile for interchange of maDMPs. To that effect four main areas were identified: (1) serialisation, to encourage community development of serialisations of the DCS application profile; (2)

## Contains:

- Summary of results from hackathon

DATA SCIENCE JOURNAL

### Automating Research Data Management Using Machine-actionable Data Management Plans

TOMASZ MIKSA, TU Wien & SBA Research, Austria  
SIMON OBLASSER, TU Wien, Austria  
ANDREAS RAUBER, TU Wien, Austria

Many research funders mandate researchers to create and maintain Data Management Plans (DMPs) for research projects that describe how research data is managed to ensure its reusability. A DMP being a static textual document is difficult to act upon and can quickly become obsolete and impractical to maintain. A new generation of machine-actionable DMPs was therefore proposed by the Research Data Alliance to enable automated integration of information and updates. Machine-actionable DMPs open up a variety of use cases enabling interoperability of research systems and automation of data management tasks.

In this paper we describe a system for machine-actionable data management planning in an institutional context. We identify common use cases within research that can be automated to benefit from machine-actionability of DMPs. We propose a reference architecture of a machine-actionable DMP support system that can be embedded into an institutional research data management infrastructure. The system semi-automates creation and maintenance of DMPs, and thus eases the burden for the stakeholders responsible for various DMP elements. We evaluate the proposed system in a case study conducted at the largest technical university in Austria and quantify to what extent the DMP templates provided by the European Commission and a national funding body can be pre-filled. The proof-of-concept implementation shows that machine-actionable DMP workflows can be semi-automated, thus workload on involved parties can be reduced and quality of information increased. The results are especially relevant to decision makers and infrastructure operators who want to design information systems in a systematic way that can utilise the full potential of machine-actionable DMPs.

**CCS Concepts:** • **Applied computing** → **Enterprise data management; Business process management; IT architectures;** • **Information systems** → **Digital libraries and archives;** • **Social and professional topics** → **Automation.**

**Additional Key Words and Phrases:** data management plan, machine-actionable, business processes, enterprise architecture, funder template, requirements engineering, automation, RDM, RDA, FAIR

#### ACM Reference Format:

Tomasz Miksa, Simon Oblasser, and Andreas Rauber. 2021. Automating Research Data Management Using Machine-actionable Data Management Plans. *ACM Trans. Manag. Inform. Syst.* 1, 1, Article 1 (January 2021), 22 pages. <https://doi.org/10.1145/3490396>

#### 1 INTRODUCTION

The data revolution continues to transform every sector of science, industry, and government [AS19]. The economic and societal benefits and increased effectiveness of research funding by ensuring that data generated and (pre-) processed as part of research remains available for re-use,

*Authors' addresses:* Tomasz Miksa, tmiksa@sba-research.org, TU Wien & SBA Research, Vienna, Austria; Simon Oblasser, simon.oblasser@stud.tuwien.ac.at, TU Wien, Vienna, Austria; Andreas Rauber, rauber@ifs.tuwien.ac.at, TU Wien, Vienna, Austria.

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2158-656X/2021/1-ART1  
<https://doi.org/10.1145/3490396>

ACM Trans. Manag. Inform. Syst., Vol. 1, No. 1, Article 1. Publication date: January 2021.

ACM Transactions on Management Information Systems

1

## Contains:

- Enterprise Architecture that uses maDMPs
- Examples of tasks automation at institutions using maDMPs

# Adoptions and new use cases for maDMPs

## Part 2

# Adoptions and new use cases for maDMPs

## ➤ Rules

- 10 minutes per presentation
- 5 minutes for questions directly after each presentation
  - Ask questions in the zoom chat during the presentation or speak up after the presentation

## ➤ Talks

1. *Now that machine actionable DMPs are becoming available, what could we do with them?*

by Daniel Mietchen

2. *Update on maDMPs in a government context: Developing an RDA maDMP extension and logic model*

by Claire Austin

3. *Automating Evaluation of Machine-Actionable Data Management Plans with Semantic Web Technologies*

by Lea Brugger and Raffael Foidl

4. *maDMP4LS : integration of DMP OPIDoR in the French infrastructure landscape*

by Benjamin Faure and Konogan Bourhy

# Maintenance of the recommendation

## Part 3

➤ <https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/issues>


21


# List of pending adoptions

➤ Please add yours to the list

➤ <https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/issues/44>

## List of pending adoptions #44

 Open TomMiksa opened this issue on Jun 26, 2020 · 1 comment




TomMiksa commented on Jun 26, 2020

Member

Include on the landing page a link to the regularly updated list of adoptions and pending adoptions.

To begin with:

- DMP Online by Digital Curation Centre (DCC) in the UK
- DMP Tool by California Digital Library (CDL) in the US
- DMP OPIDoR by Centre national de la recherche scientifique (CNRS) in France
- RDMO by Leibniz-Institut für Astrophysik Potsdam in Germany
- Data Stewardship Wizzard by Elixir research infrastructure in the EU
- Argos - OpenDMP by OpenAIRE and EUDAT research infrastructures in the EU
- F1000Research open research publisher in the UK
- Norwegian Open Research Data Infrastructure in Norway
- Haplo repository in the UK
- TU Wien, TU Graz, Uni Wien via FAIR Data Austria project



jomtov commented on Dec 3, 2020

- Stockholm University SU-maDMP project (using DMP Online API v0 for output source)

# Mapping to funder templates (pending tasks)

➤ Based on outputs from the hackathon

➤ Methodology

➤ Templates analysed

- EC Horizon 2020
- Science Europe
- NIH DMP for 2023
- NSF Generic Template
- US Geological Survey

➤ Based on this analysis we defined

- Proposal for changes in the standard
- Proposal for *funder-extension*

Mapping Spreadsheet 2021																																										
File Edit View Insert Format Data Tools Add-ons Help																																										
Last edit was on March 24																																										
100% 1234 11 123456789101112131415161718192021222324252627282930313233343536373839404142434445464748495051525354555657585960616263646566676869707172737475767778798081828384858687888990919293949596979899100																																										
National Institutes of Health (NIH) Core Requirements for DMPs Questions																																										
A		B		C		D		E		F		G		H		I		J																								
National Institutes of Health (NIH) Core Requirements for DMPs Questions		Question answerable																		Comments from Maria																						
<a href="https://nrihs.nih.gov/grants/guidance/files/NIH-TO-D-21-014.html">https://nrihs.nih.gov/grants/guidance/files/NIH-TO-D-21-014.html</a>																																										
General information		Clarifying description																		completely partially not Corresponding maDMP fields Comments from Megan																						
Data Type	General Summary of Types and Amounts of the Data to be Generated or Used in the Research	Describe data in general terms that address the type and amount/size of scientific data expected to be collected and used in the project (e.g., 256-channel EEG data and fMRI images from ~50 research participants). Descriptors may indicate the data modality (e.g., imaging, genomic, molecule, survey), level of aggregation (e.g., individual, aggregated, summarized), and/or the degree of data processing that has occurred (e.g., how raw or processed the data will be).																		x	datasetdescription, datasetkeyword, datasettype, distributionformat, distributionby, size)																		I'm trying to map this data to the distribution section below. I had the same issue with distributionformat. Unless the researcher is using a repository that requires the development of a sub-record at the time of creation, etc.		Agree	
	Description of which scientific data from project will be preserved and shared	NIH does not anticipate that preservers will preserve and share all scientific data generated in a study. Researchers should decide which scientific data to preserve and share based on ethical, legal, and technical factors that may affect the extent to which scientific data are preserved and shared. Provide the rationale for these decisions.																		x	datasetpreservationstatement, distributiondata_access, distributionlicense)																				Agree	
	A brief listing of the metadata and any associated documentation that will be made accessible to facilitate interpretation of the scientific data	e.g., study protocols and data collection instruments.																		x	metadata/metadata_standard_id, metadatadescription, metadatalicense)																				Agree	
	Researcher tools, needed to:																																									

Many thanks to:  
Megan Potterbusch, Maria Praetzelis, Paulette Lieby

Please review [the documents](#) and comment them!

# Maintenance of the recommendation



- Anything you would like to report?
- Any improvements needed?



# Wrap-up and next steps

## Part 4

# Community of Practice?

## FORMAL REQUIREMENTS

- › Launched by a WG/IG that produced a recommendation
  - › Recommendation on maDMPs by the DMP Common Standards WG
- › Members from 10 countries and 3 continents
  - › Active DMPs IG: 380+ members...
  - › DMP Common Standards WG: 240+ members...
- › Letters of support from institutions
  - › Institutions that adopt maDMPs?
- › Review every 18 months
- › At least 3 co-chairs from at least 3 continents
  - › No problem, right?

## PROPOSAL

- › CoP on machine-actionable DMPs
  - › Focus on workflows, services, systems that use the recommendation
  - › Feedback from adopters and lessons learned
  - › Tackling new challenges
    - › E.g. Extensions, Controlled vocabularies, Serializations, etc.
  - › Supports in adoption
  - › Promotes success stories / lessons learned
  - › To formalize what we do and who we are anyway!
- › [DMP Common Standards WG](#) continues to maintain the recommendation
  - › Updates to the specification if needed
- › [Active DMPs IG](#)
  - › Place for discussion on all (other) topics related to DMPs

What do you think? Would you be interested? Can you help in establishing it?

- Join at [slido.com #288 176](https://slido.com/join/288176)
- Different number than before!



## Should we establish a community of practice (CoP) on maDMPs?

Yes, I am happy to join it once it's established.



Yes, that's an excellent idea and I can help setting it up.



Well, it's good as it is now. I don't see any need for the CoP.



No, it's a waste of time and pure bureaucracy.



# 2<sup>nd</sup> hackathon on maDMPs in 2022?

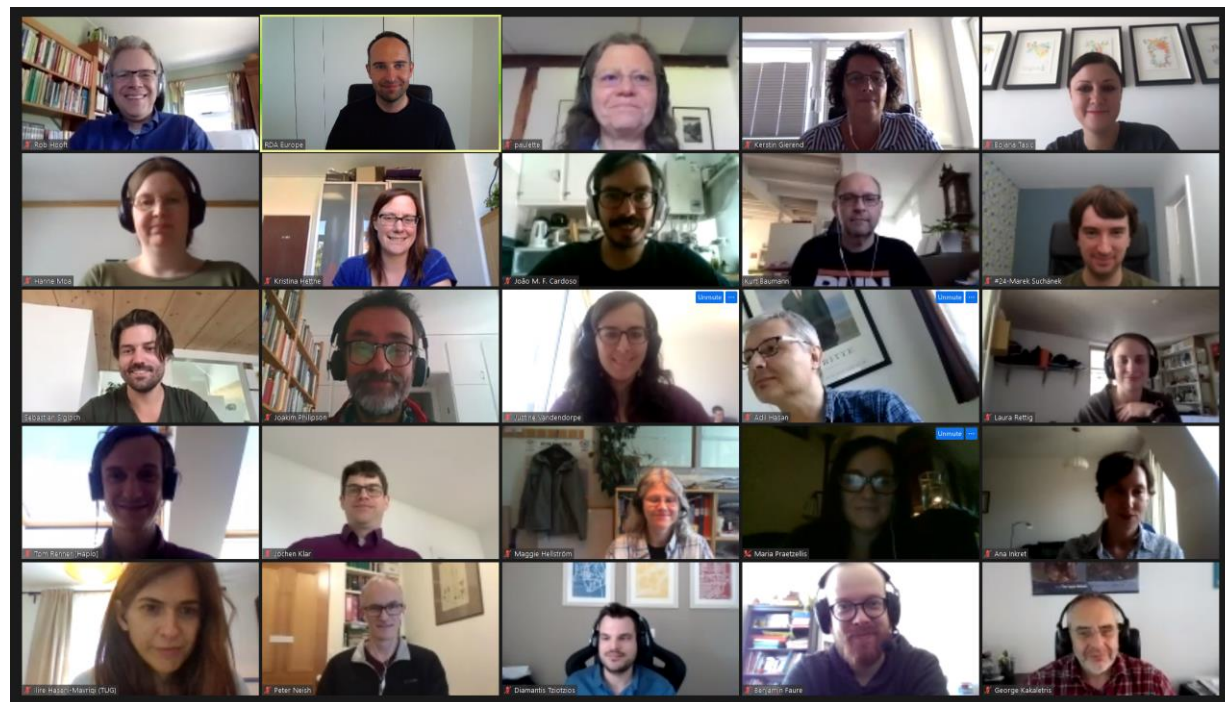
- Good chance to get together and get some work done?
- Possibility to test new ideas?
- Good for onboarding?

## Results of the hackathon

The recording of the Grand Finale session can be found [here](#). Each of the 12 teams participating in the hackathon has summarized the results. The recording also includes live demonstrations.

Table below presents a list of teams, topics they dealt with and links to the work completed during the hackathon

Team	Topic	Links
<a href="#">The Unaturals</a>	New version of the DCSO (DMP Common Standard Ontology)	<a href="#">DCSO Repository</a> , <a href="#">Issue Document</a> , <a href="#">slides</a>
<a href="#">maDMP Link</a>	Integrating a Converis CRIS/RIMS with DMPRoadmap and Export/Import maDMP from Figshare	<a href="#">results</a>
<a href="#">DSW</a>	Export/import of maDMPs from/to Data Stewardship Wizard	<a href="#">report</a> , <a href="#">slides</a>
<a href="#">The Datatypists</a>	Add data types and design support for datasets to make EasyDMP more compatible with RDA DMP Common Standard	<a href="#">report</a> , <a href="#">json to test imports</a>
<a href="#">InsTmaDMP</a>	Aligning institution RDM to maDMP Common Standard	<a href="#">results</a>
<a href="#">TigTag</a>	Mapping of maDMP standard to funder templates	<a href="#">report</a>
<a href="#">DMP Exchange</a>	Exchange DMPs between DMP Tools using the RDA Common Standard	<a href="#">report</a>
<a href="#">Something</a>	maDMP integration with project data management workflow	<a href="#">slides</a>
<a href="#">DMP InvenioRDM</a>	maDMP integration into InvenioRDM	<a href="#">results</a>
<a href="#">RDMO</a>	maDMP export from RDMO	<a href="#">slides</a>
<a href="#">DMP Ninjas</a>	Import/Export maDMPs from Argos/OpenDMP	<a href="#">results</a>
<a href="#">Fancycatmeme</a>	maDMP integration with Research Data Connectome Data Pipeline	<a href="#">article</a> , <a href="#">slides</a>



<https://github.com/RDA-DMP-Common/hackathon-2020>

## Should we organise the 2nd hackathon on maDMPs?

Yes, I participated in the first one and will definitely join again!



Yes, I will join for the first time!



Yes, only if it is virtual!



Maybe, depending on the topics!



Yes, only if it is in person!



No, I am not interested!



## What would you like to work on during the hackathon?

Extend what is considered as minimal

yes, extensions

Modeling more DMP information as extensions

## What can we do to support adoption of maDMPs? What are the interesting use cases?

Tools and use cases in practice that make life better for researchers.

Reuse by the funders

Better embed them in tools

use case: creating a DMP from several several DMPs; ie, modularity

Integration in the research workflow



# maDMPs – summary

## ➤ Recommendation

- <https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard>
- <http://doi.org/10.15497/rda00039>

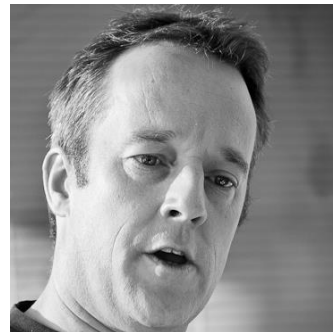
## ➤ Participate in recommendation adoption!

## ➤ Contact group chairs

- Questions
- Ideas
- Success stories



Tomasz Miksa



Paul Walk



Peter Neish

# Please cite the recommendation

## RDA DMP Common Standard for Machine-actionable Data Management Plans


Home » Data Management » RDA DMP Common Standard For Machine-Actionable Data Management Plans

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02 Dec 2019

### RDA DMP Common Standard for Machine-actionable Data Management Plans

By Daniel Bangert

 DMP Common Standards WG

**Group co-chairs:** Tomasz Miksa, Paul Walk, Peter Neish

**Recommendation Title:** RDA DMP Common Standard for Machine-actionable Data Management Plans

**Authors:** Tomasz Miksa, Paul Walk, Peter Neish

**Impact:** Allows representing Data Management Plans in a machine-actionable way, to enable exchange of information between systems acting on behalf of stakeholders involved in the research life cycle, such as, researchers, funders, repository managers, ICT operators, data stewards, etc. It also helps in automating typical data management tasks, thus contributes to a reduction of workload imposed on the stakeholders.

**Recommendation package DOI:** [10.15497/rda00039](https://doi.org/10.15497/rda00039)

**Citation:** Miksa, T., Walk, P., & Neish, P. (2019). RDA DMP Common Standard for Machine-actionable Data Management Plans. <https://doi.org/10.15497/rda00039>

### DMP Common Standards WG

**Status:** Recognised & Endorsed  
**Chair(s):** Paul Walk, Peter Neish, Tomasz Miksa  
**Group Email:** [dmp-common@rda-groups.org](mailto:dmp-common@rda-groups.org)  
**Secretariat Liaison:** [enquiries@rd-alliance.org](mailto:enquiries@rd-alliance.org)  
**TAB Liaison:** Isabelle Perseil

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TomMiksa Update CITATION.cff ✓ c6fb717 on Aug 5 271 commits

assets/css	Update style.scss	2 years ago
docs	Update FAQ.md	2 years ago
examples/JSON	Closes #32	12 months ago
ontologies	Add diagrams for validation shapes	
rda_dmp_common_stand...	updated docs to remove link to github pages	
.gitignore	Update .gitignore	
CITATION.cff	Update CITATION.cff	
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## RDA DMP Common Standard for machine-actionable Data Management Plans

**Contributors 9**

Miksa, T., Walk, P., & Neish, P. (2019). ***RDA DMP Common Standard for Machine-actionable Data Management Plans.***  
<https://doi.org/10.15497/rda00039>

34

# Publications about maDMPs

- › [Tomasz Miksa, Paul Walk, Peter Neish, Simon Oblasser, Hollydawn Murray, Tom Renner, Marie-Christine Jacquemot-Perbal, João Cardoso, Trond Kvamme, Maria Praetzellis, Marek Suchánek, Rob Hooft, Benjamin Faure, Hanne Moa, Adil Hasan, and Sarah Jones. \*\*Application profile for machine-actionable data management plans\*\*. CODATA Data Science Journal, 20\(1\):32, October 2021](#)
- › [Raffael Foidl, Lea Salome Brugger, and Tomasz Miksa. \*\*Automating Evaluation of Machine-Actionable Data Management Plans with Semantic Web Technologies\*\*. In DaMaLOS - 2nd Workshop on Data and Research Objects Management for Linked Open Science : Co-located at the International Semantic Web Conference ISWC 2021. PUBLISSO, November 2021.](#)
- › [Tomasz Miksa, Maroua Jaoua, and Ghaith Arfaoui. \*\*Research Object Crates and Machine-actionable Data Management Plans\*\*. In DaMaLOS - First Workshop on Data and Research Objects Management for Linked Open Science : Co-located at the International Semantic Web Conference ISWC 2020. PUBLISSO, November 2020.](#)
- › [João Cardoso, Leyla Jael Garcia Castro, Fajar Ekaputra, Marie-Christine Jacquemot-Perbal, Tomasz Miksa, and José Borbinha. \*\*Towards semantic representation of machine-actionable Data Management Plans\*\*. In DaMaLOS - First Workshop on Data and Research Objects Management for Linked Open Science : Co-located at the International Semantic Web Conference ISWC 2020. PUBLISSO, 2020.](#)
- › [Simon Oblasser, Tomasz Miksa, Asanobu Kitamoto: \*\*Finding a Repository with the Help of Machine-Actionable DMPs: Opportunities and Challenges\*\*. IDCC 2020](#)
- › [Tomasz Miksa, Stephanie Simms, Daniel Mietchen, Sarah Jones \(2019\) \*\*Ten principles for machine-actionable data management plans\*\*. PLOS Computational Biology 15\(3\): e1006750.](#)
- › [Tomasz Miksa, Peter Neish, Paul Walk, Andreas Rauber: \*\*Defining requirements for machine-actionable Data Management Plans\*\*. iPres 2018](#)
- › [Tomasz Miksa, João Cardoso, José Luis Borbinha: \*\*Framing the scope of the common data model for machine-actionable Data Management Plans\*\*. BigData 2018: 2733-2742](#)
- › [Asztrik Bakos, Tomasz Miksa, Andreas Rauber: \*\*Research Data Preservation Using Process Engines and Machine-Actionable Data Management Plans\*\*. TPD 2018: 69-80](#)