



# Machine-actionable DMPs - take them and use them!

*DMP Common Standards WG*

Tomasz Miksa, Paul Walk, Peter Neish

# Agenda

- Part 1 – Introduction for newcomers, status update, and meeting objectives
- Part 2 – Common standard for machine-actionable DMPs
  - Standard overview and refinements introduced since P13
- Part 3 – Ongoing and future pilot implementations
  - Simon Oblasser: integrating maDMPs with university infrastructure
  - Tom Renner: maDMPs and Haplo repository
  - João Cardoso: using ontologies and maDMPs
  - Tomasz Miksa:
    - maDMPs and RDM infrastructure
    - maDMPs and repositories
    - maDMPs and funder templates
    - maDMPs and existing DMP tools
    - maDMP schema validator
- Part 4 – Discussion
- Part 5 – Wrap up and next steps

# Introduction for newcomers

## Part 1

# DMPs currently

## › Shortcomings of existing DMPs

- › manually completed, vague, not updated, considered bureaucracy, completed last minute, ...

	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 ( <a href="#">FAIR</a> ) 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?

# Data Management Plans



How to discover these tools?

Which one do I need to use?

Why do I have to provide the same  
information again?



Why haven't they consulted us before?

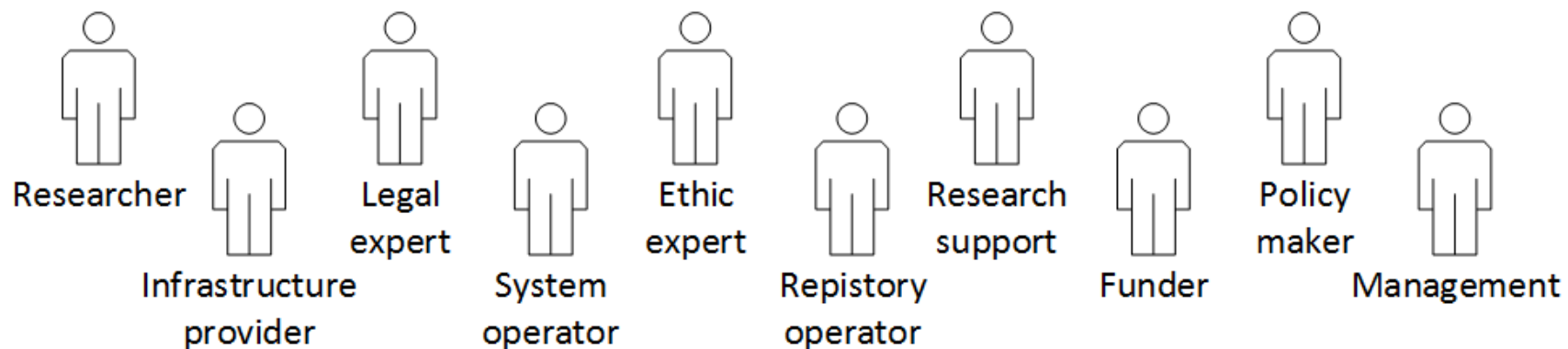
Who is going to pay for this?

We don't have enough people for that!

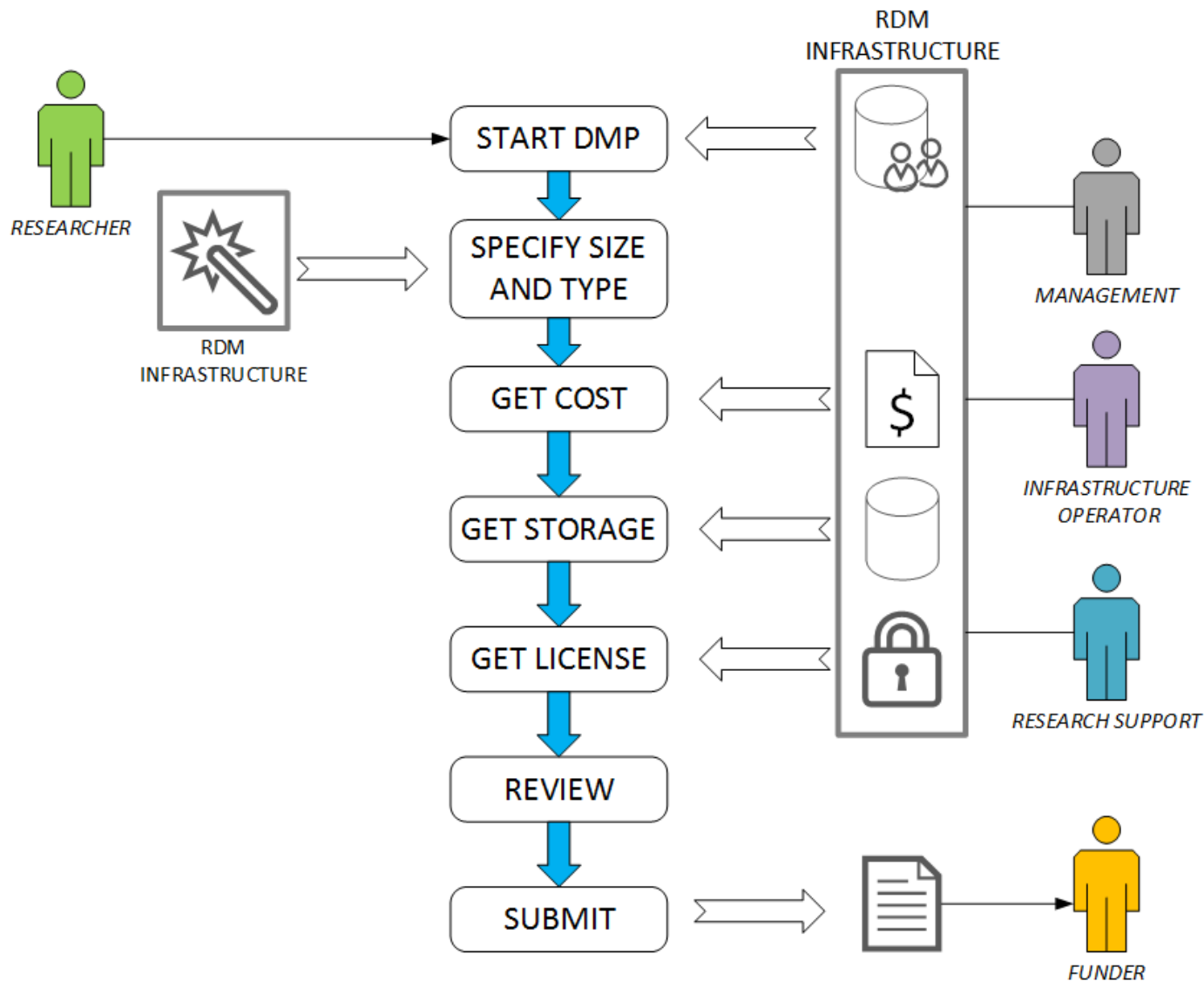


# Research data lifecycle

- Stakeholders involved in research data management
  - require information at certain stages
  - can provide information if requested at a proper stage
- Many problems can be avoided when
  - timing is right
  - information flow is ensured



# Automated Data Management Workflow



# Why do we need this WG?

- DMPs currently
  - manually completed, vague, not updated, ...
- 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 data model



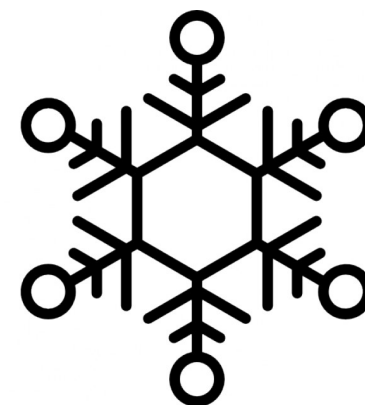
# DMP Common Standards - Outputs

## ➤ **Common standard for machine-actionable DMPs**

- to model information from standard DMPs
- NOT a template
- NOT a questionnaire
- modular design
  - core set of elements
  - domain specific extensions

## ➤ **Reference implementations**

- ready to use models
  - JSON, RDF, etc.



# Example

- Current DMPs – model questionnaires

<administrative\_data>

<question>Who will be the Principle Investigator?</question>

<answer>The PI will be John Smith from our university.</answer>

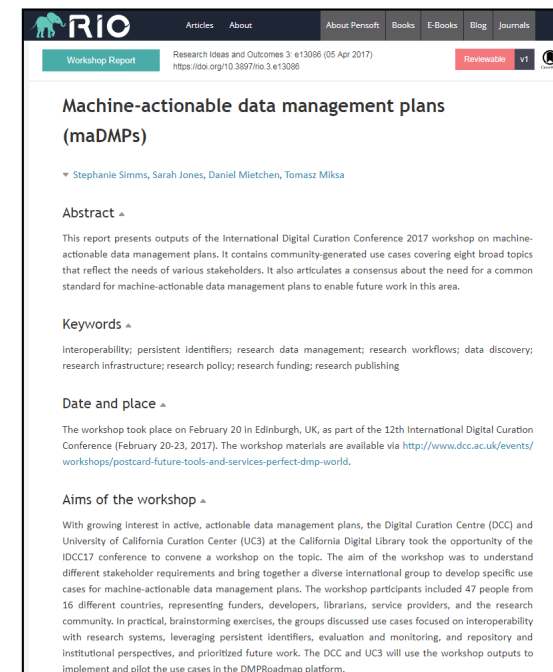
</administrative\_data>

- Machine-actionable DMPs – model information

```
"dc:creator":[ {  
  "foaf:name":"John Smith",  
  "@id":"orcid.org/0000-1111-2222-3333",  
  "foaf:mbox":"mailto:jsmith@tuwien.ac.at",  
  "madmp:institution":" AT-Vienna-University-of-Technology"  
}],
```

# DMP Common Standards WG

- Launched in October 2017
- Result of a consultation made by Active DMPs IG
- Focus on machine-actionable DMPs
- 100+ members from all continents
- DMP tool owners are part of it



<https://doi.org/10.3897/rio.3.e13086>

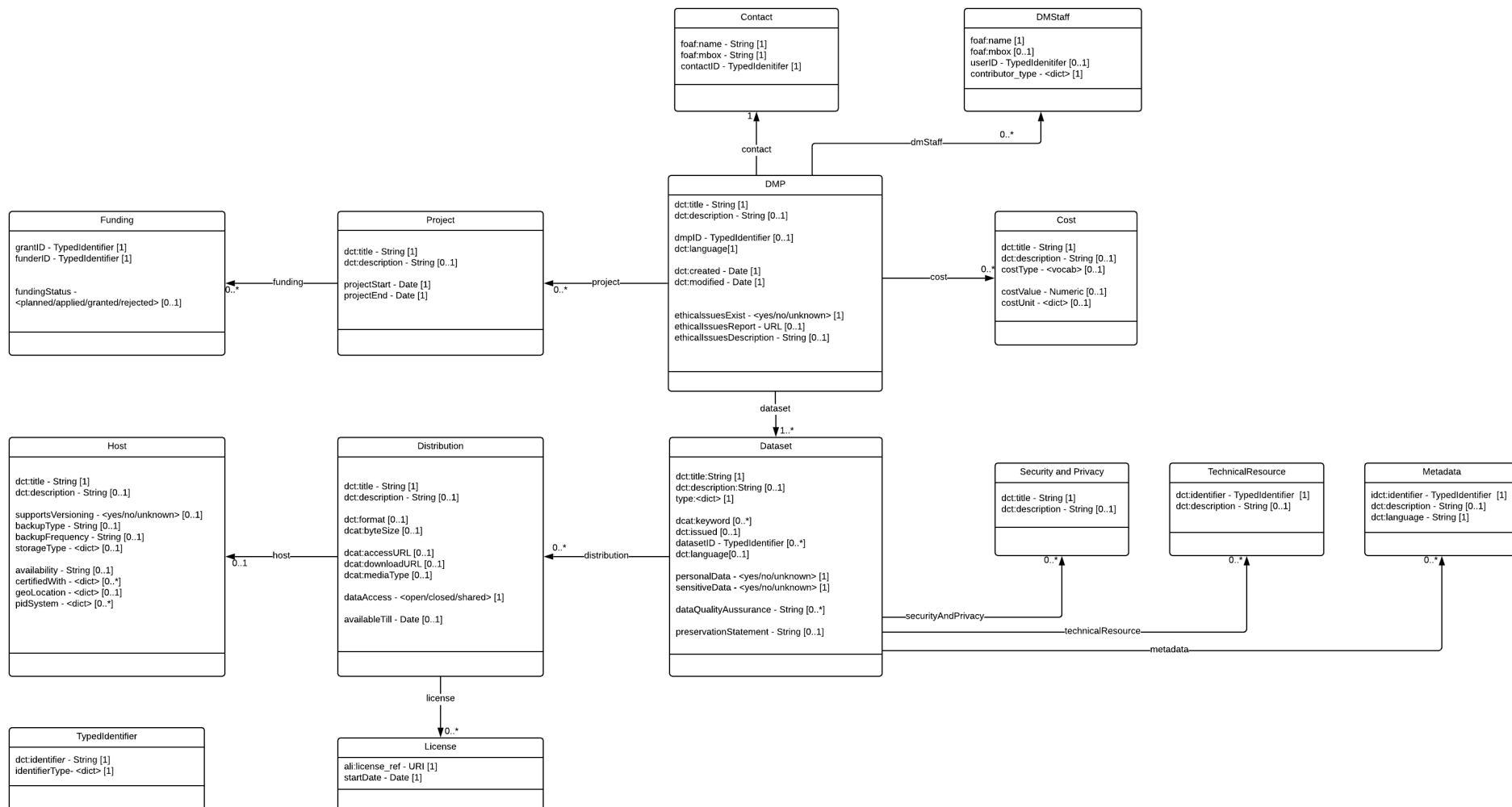
# Summary of actions till now

- 1<sup>st</sup> consultation (user stories) went broad
  - to define scope of maDMPs
- 2<sup>nd</sup> consultation went deep
  - to identify models for specific requirements
- Proof of concept tools
  - to demonstrate how model can be used to automate tasks
- BPMN processes
  - to identify systems and stakeholders involved
- Model development

# Common model for maDMPs

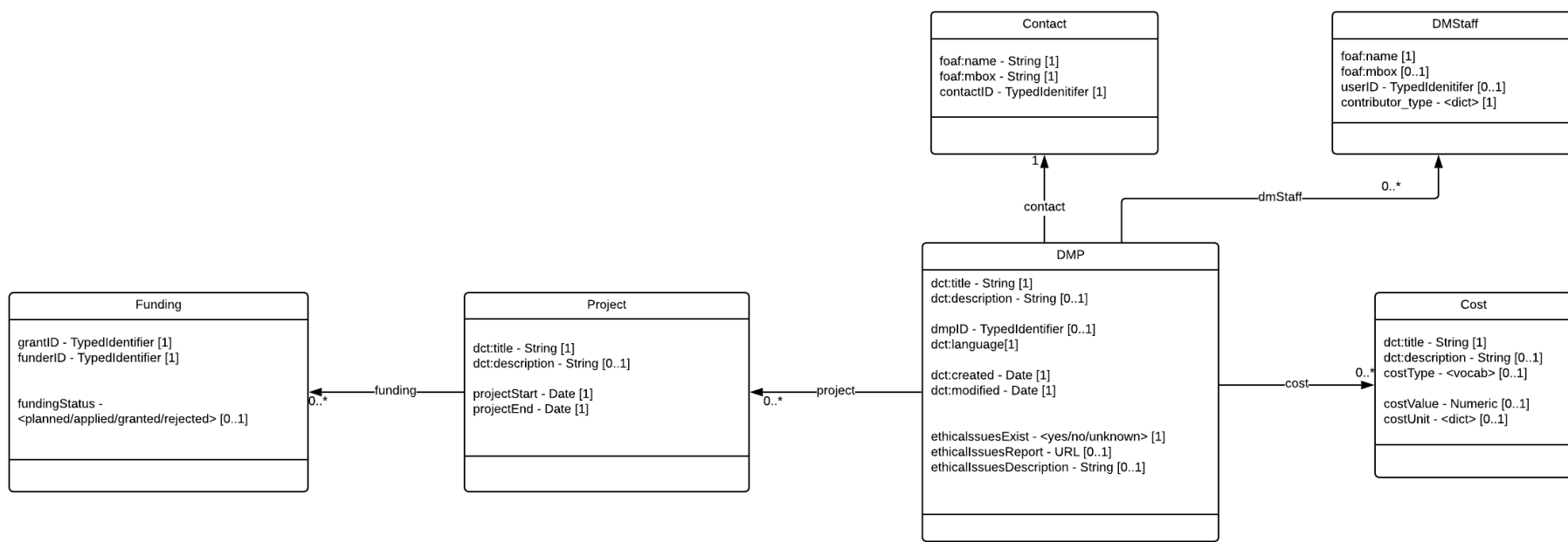
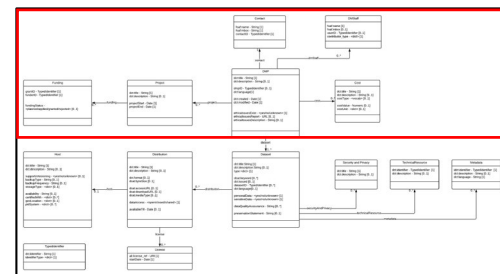
## Part 2

# Common model for maDMPs



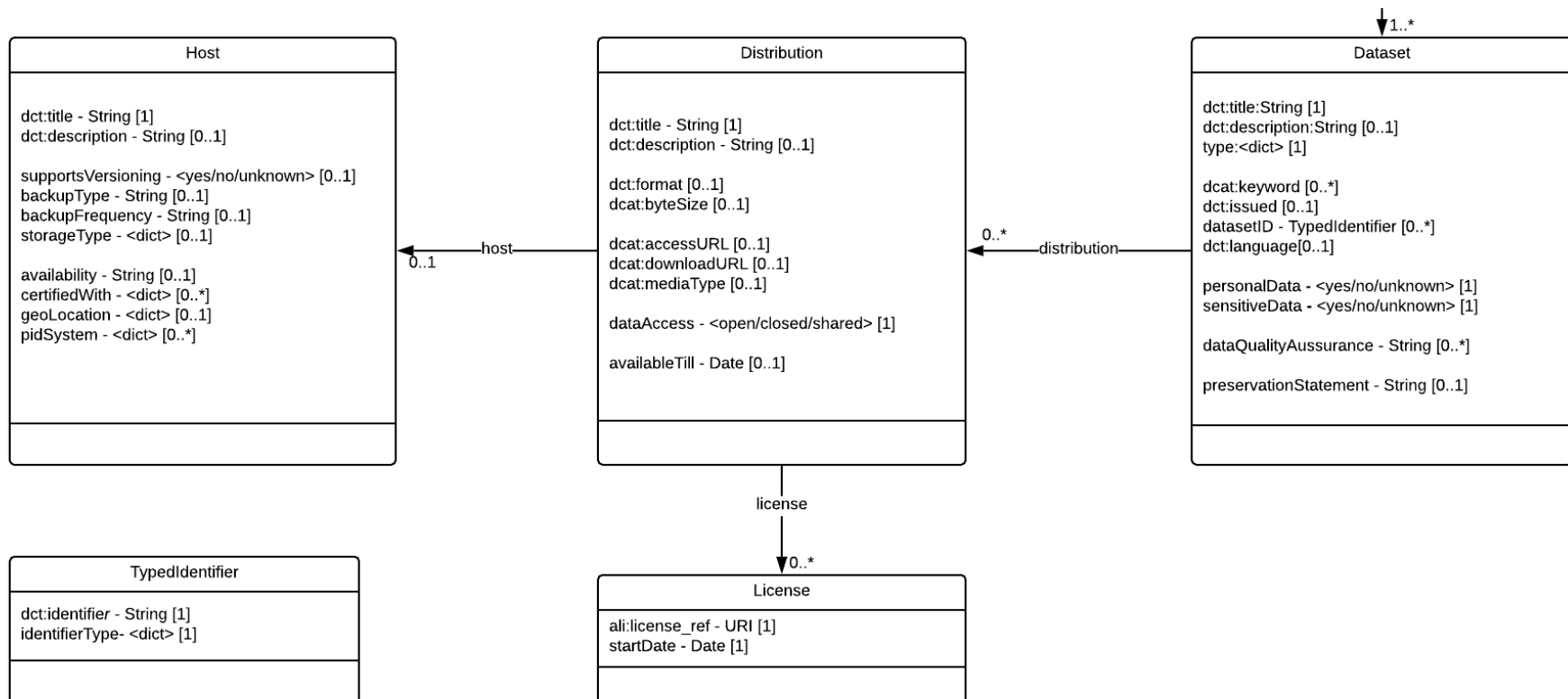
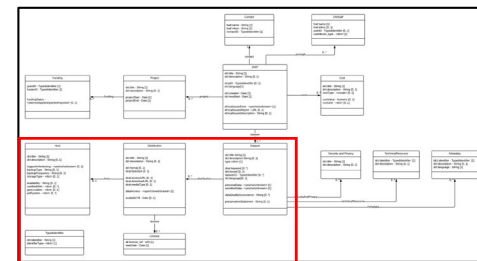
<https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/blob/master/docs/diagrams/RDA-DMP-Common-Model-Diagram-190325.pdf>

# Common model for maDMPs



<https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/blob/master/docs/diagrams/RDA-DMP-Common-Model-Diagram-190325.pdf>

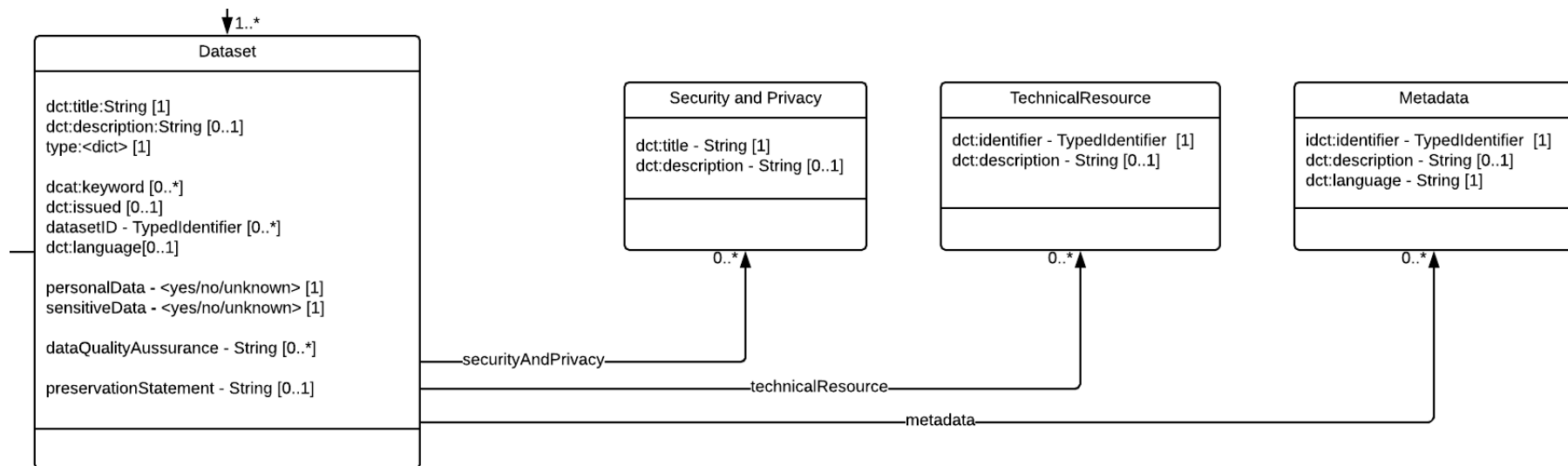
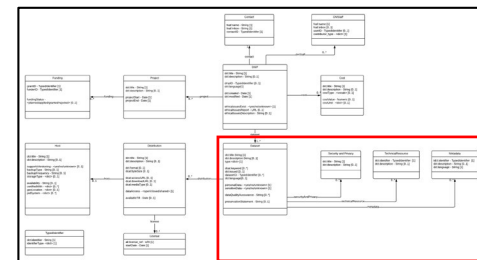
# Common model for maDMPs



<https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/blob/master/docs/diagrams/RDA-DMP-Common-Model-Diagram-190325.pdf>



# Common model for maDMPs



# Model - documentation

## Properties in 'contact'

Name	Description	Data Type	Cardinality	Example Value
<a href="#">contact_id</a>	Identifier for a contact person	String	Exactly One	<a href="http://orcid.org/0000-0000-0000-0000">http://orcid.org/0000-0000-0000-0000</a>
<a href="#">mail</a>	E-mail address	String	Exactly One	cc@example.com
<a href="#">name</a>	Name of the contact person	String	Exactly One	Charlie Chaplin

## Properties in 'cost'

Name	Description	Data Type	Cardinality	Example Value
<a href="#">currency_code</a>	Allowed values defined by ISO 4217.	Term from Controlled Vocabulary	Zero or One	EUR
<a href="#">description</a>	Description	String	Zero or One	Costs for maintaining....
<a href="#">title</a>	Title	String	Exactly One	Storage and backup
<a href="#">type</a>	Type	Term from Controlled Vocabulary	Zero or One	
<a href="#">value</a>	Value	Number	Zero or One	1000


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

# Model – FAQ




[RDA-DMP-Common](#) / [RDA-DMP-Common-Standard](#) Unwatch 3 Star 0 Fork 5

[Code](#) [Issues 1](#) [Pull requests 0](#) [Projects 0](#) [Wiki](#) [Insights](#) [Settings](#)

Branch: master [RDA-DMP-Common-Standard / docs / FAQ.md](#) Find file Copy path

 TomMiksa Update FAQ.md edd9820 21 hours ago

1 contributor

85 lines (54 sloc) | 8.34 KB Raw Blame History   

## Frequently Asked Questions

Index:

- [When to use the model?](#)
- [Do I need to populate all fields?](#)
- [What is the granularity of a Dataset?](#)
- [What is a difference between Dataset and a Distribution?](#)
- [How versioning works?](#)
- [How to express something is planned?](#)
- [How to indicate actions that were performed?](#)
- [How to model embargoes?](#)
- [Why Metadata is referenced from a Dataset?](#)
- [Are there any other serialisations planned different than JSON?](#)
- [Is there a JSON Schema?](#)
- [Is there a model validator?](#)

### When to use the model?

The model is meant for exchange of machine-actionable DMPs between systems. The model is independent of any internal

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

# Model – useful links

RDA-DMP-Common / RDA-DMP-Common-Standard

Unwatch 3 Star 0 Fork 5

Code Issues 1 Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master RDA-DMP-Common-Standard / docs / links.md Find file Copy path

TomMiksa Update links.md f846491 2 days ago

1 contributor

69 lines (45 sloc) 3.84 KB Raw Blame History

## Links

We have collected here links to all important resources created by the [RDA DMP Common Standards WG](#) (official website).

### 1st Consultation - scoping the maDMPs

Collection of user stories to identify scope of maDMPs.

- [Description of the consultation](#)
- [User stories organised on a project board](#)
- [Interactive visualisation of user stories](#)
- [Report from Vienna workshop for collecting user stories](#)
- [iPres conference paper summarising the consultation](#)

### 2nd Consultation - existing models

Collection of models that are relevant in view of requirements derived from the user stories

- [Description of the 2nd consultation \(includes further links\)](#)

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

# Model – JSON examples

RDA-DMP-Common / RDA-DMP-Common-Standard

Unwatch 3 Star 0 Fork 1

Code Issues 0 Pull requests 0 Projects 0 Wiki Insights Settings

Branch: master RDA-DMP-Common-Standard / examples / JSON / Create new file Upload files Find file History

TomMiksa missing , Latest commit ca8c7e6 12 days ago

..		
ex1-header-fundedProject.json	missing ,	12 days ago
ex2-dataset-planned.json	JSON examples	12 days ago
ex3-dataset-finished.json	JSON examples	12 days ago
ex4-dataset-embargo.json	JSON examples	12 days ago
ex5-dataset-planned-host.json	JSON examples	12 days ago
ex6-dataset-closed.json	JSON examples	12 days ago
ex7-dataset-many.json	JSON examples	12 days ago

<https://github.com/RDA-DMP-Common/RDA-DMP-Common-Standard/tree/master/examples/JSON>

# Example

## ➤ Example

- Source code will be issued on 2019-06-30 (planned) in 'some-repo'. There will be an embargo period till 2019-12-31. Later on the source code will be available on a CC-BY license.

```
"DMP": {  
  "modified": "2019-02-22T13:20:15.5"  
  "dataset": {  
    "title": "Source Code",  
    "issued": "2019-06-30",  
    "distribution": {  
      "accessURL": "http://some-repo...",  
      "license": {  
        "license_ref": "https://creativecommons.org/licenses/by/4.0/",  
        "startDate": "2019-12-31"  
      }  
    }  
  }  
}
```

# DMP Common Standard

- Models information from standard DMPs
  - NOT a template
  - NOT a questionnaire
- Applicable in different settings
  - relaxed constraints within the model
    - e.g. DMP can relate to a Project
  - constraints introduced at the ‘business level’
    - e.g. DMP must relate to a Project
- Used to exchange information between systems
  - no impact on tools/systems internal implementation

# Updates from P13

- Only minor changes based on feedback from pilots
  - Date format changed to ISO 8601
  - *Host*
    - Added identifier for a repository
  - *Distribution*
    - can contain many formats, not one only
  - *Format*
    - Mime-types recommended, but not required
  - *Typed Identifiers* not nested

<input type="checkbox"/>	0 Open ✓ 8 Closed	Author ▾	Labels ▾	Projects ▾	Milestones ▾	Assignee ▾	Sort ▾
<input type="checkbox"/>	🔒 <b>typos in the documentation</b> #12 by Zack-83 was closed 9 days ago						2
<input type="checkbox"/>	🔒 <b>Is there a plan to use an identifier for repository?</b> #11 by mariapraetzelis was closed 9 days ago						2
<input type="checkbox"/>	🔒 <b>Is there a defined list of institutions available?</b> #10 by rowlandm was closed on Aug 6						3
<input type="checkbox"/>	🔒 <b>Are there any plans to use real data to provide examples?</b> #9 by rowlandm was closed on Aug 23						3
<input type="checkbox"/>	🔒 <b>Question: on the linking between metadata and DataSet</b> #7 by cmzwoff was closed on Aug 5						1
<input type="checkbox"/>	🔒 <b>Definition of time and dates to be refined</b> #6 by cmzwoff was closed 3 minutes ago						1
<input type="checkbox"/>	🔒 <b>TechnicalResources, metadata, and Security <span>enhancement</span></b> #3 by NZR was closed on Mar 26						1
<input type="checkbox"/>	🔒 <b>Dealing with "shared" dataset <span>question</span></b> #2 by NZR was closed on Aug 23						1



# Ongoing and future pilot implementations

## Part 3

# Simon Oblasser

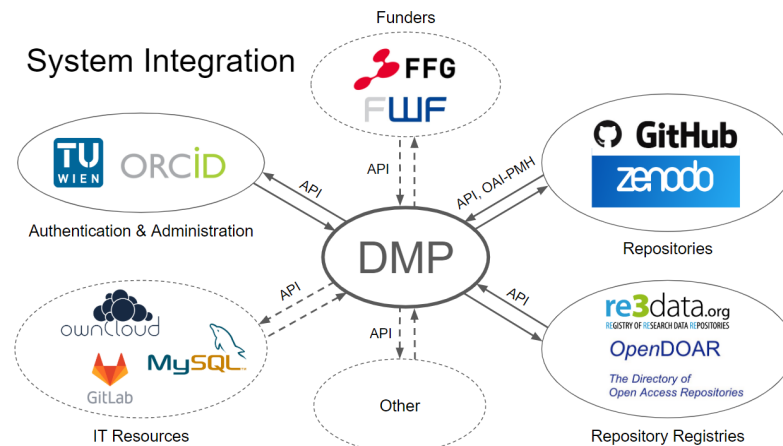
# Tom Renner

# Joao Cardoso

# Tomasz Miksa

# RDM Infrastructure @ TU Wien

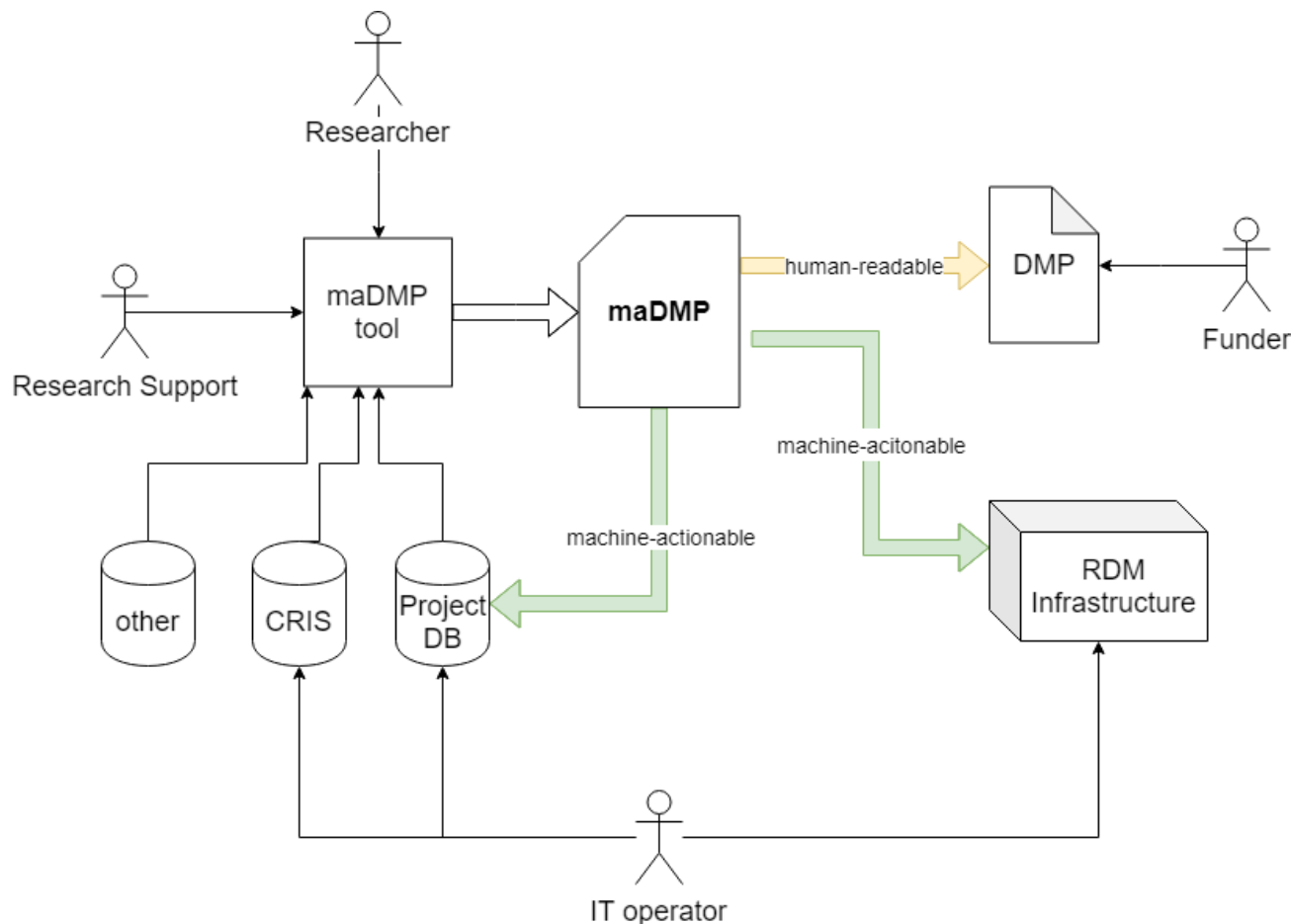
- DMPs are not for funders only
- DMPs must also create benefits for researchers
  - Less work
  - Automation of tasks
  - Reuse of information
- DMPs are the 'glue' between different systems
  - Automate
    - getting data in
    - getting data out
- Pilot project



# maDMPs and RDM infrastructure

## > **once-only** principle

- > do not ask researchers same questions in different places



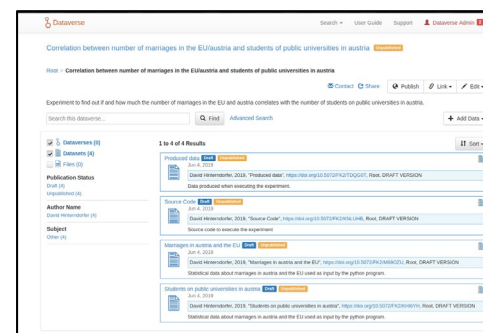
# maDMPs and repositories

- Simplify data upload
  - Pre-fill fields based on maDMP
    - E.g. license, embargo, contact person, etc.
- Simplify reporting
  - e.g. update a DMP when data was uploaded to a repository
- Prototype
  - maDMP used to automate upload of data into Dataverse
    - <https://hido1994.github.io/madmp/>

```

40 lines (34 sloc) | 825 Bytes
1 {
2   "DMP": {
3     "title": "Funded DMP",
4     "description": "Example of a DMP header for a funded project.",
5
6     "created": "2019-02-22T13:20:15.5",
7     "modified": "2019-02-22T15:10:56.9",
8     "contact": {
9       "name": "First Last",
10      "mbox": "test@test",
11      "contactID": {
12        "identifier": "https://orcid.org/0000-0002-4929-7875",
13        "identifierType": "HTTP-ORCID"
14      }
15    },
16    "ethicalIssuesExist": "false",

```





# maDMPs and repository integration

## ➤ Upload maDMP into Dataverse

Root > PLACEHOLDER

✓ Success! – This dataset has been created

Metrics

0 Downloads

Contact Share

Publish

Edit



PLACEHOLDER

Draft

Unpublished

Admin, Dataverse, 2019, "PLACEHOLDER", <https://doi.org/10.5072/FK2/L7YZWN>, Root, DRAFT VERSION

Cite Dataset

Learn about Data Citation Standards.

Description

PLACEHOLDER

Subject

Other

Files

Metadata

Terms

Versions

+ Upload Files

Edit Files

1 File





dmp.json

application/json - 5.5 KB - Jun 4, 2019 - 0 Downloads  
MD5: ab4b95f3eaa15bd6c29cbbb1e3778251

Download






# maDMPs and repository integration

## ➤ Datasets created and metadata set automatically


Search ▾ User Guide Support  Dataverse Admin 2 ▾

Correlation between number of marriages in the EU/austria and students of public universities in austria Unpublished

Root > Correlation between number of marriages in the EU/austria and students of public universities in austria

 Contact
  Share
  Publish
  Link ▾
  Edit ▾

Experiment to find out if and how much the number of marriages in the EU and austria correlates with the number of students on public universities in austria.

Find
Advanced Search
+ Add Data ▾

☒ **Dataverses (0)**  
☒ **Datasets (4)**  
☐ **Files (0)**  
**Publication Status**  
☐ Draft (4)  
☐ Unpublished (4)  
**Author Name**  
  
**Subject**

1 to 4 of 4 Results Sort ▾

**Produced data** Draft Unpublished

Jun 4, 2019

David Hinterndorfer, 2019, "Produced data", <https://doi.org/10.5072/FK2/TDQG0T>, Root, DRAFT VERSION

Data produced when executing the experiment.

**Source Code** Draft Unpublished

Jun 4, 2019

David Hinterndorfer, 2019, "Source Code", <https://doi.org/10.5072/FK2/KNLUHB>, Root, DRAFT VERSION

Source code to execute the experiment

**Marriages in austria and the EU** Draft Unpublished

Jun 4, 2019

David Hinterndorfer, 2019, "Marriages in austria and the EU", <https://doi.org/10.5072/FK2/M69OZU>, Root, DRAFT VERSION

Statistical data about marriages in austria and the EU used as input by the python program.

**Students on public universities in austria** Draft Unpublished



Jun 4, 2019

David Hinterndorfer, 2019, "Students on public universities in austria", <https://doi.org/10.5072/FK2/KHI6YH>, Root, DRAFT VERSION

Statistical data about marriages in austria and the EU used as input by the python program.






# maDMPs and repository integration


## ➤ User must upload data only



 Dataverse
 Search ▾ User Guide Support  Dataverse Admin 2 ▾


Correlation between number of marriages in the EU/austria and students of public universities in austria Unpublished


Root > Correlation between number of marriages in the EU/austria and students of public universities in austria > **Students on public universities in austria**


 Metrics 0 Downloads
  Contact  Share  Publish  Edit ▾

 **Students on public universities in austria** Draft Unpublished

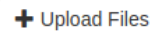
David Hinterndorfer, 2019, "Students on public universities in austria", <https://doi.org/10.5072/FK2/KHI6YH>, Root, DRAFT VERSION 
 Cite Dataset ▾
 [Learn about Data Citation Standards.](#)


**Description** 
 Statistical data about marriages in austria and the EU used as input by the python program.

**Subject** 
 Other


**Notes** 
 sensitive\_data=no, personal\_data=no


Files Metadata Terms Versions





 There are no files in this dataset.

# maDMPs and repository integration


Search User Guide Support Dataverse Admin

 **Success!** – The files for this dataset have been updated.

Metrics 0 Downloads
Contact Share Publish Edit


**Source Code** Draft Unpublished

David Hinterndorfer, 2019, "Source Code", <https://doi.org/10.5072/FK2/S2OBKC>, Root, DRAFT VERSION
 Cite Dataset
  
[Learn about Data Citation Standards.](#)



**Description** Source code to execute the experiment
   
**Subject** Other
   
**Notes** sensitive\_data=no, personal\_data=no

Files Metadata Terms Versions

Find
+ Upload Files

Filter by  
 File Type: All Access: All
 Sort

☐
**1 to 2 of 2 Files**
Edit Files Download

<input type="checkbox"/>	 <b>01_transform.py</b> text/x-python - 2.7 KB - Jun 4, 2019 - 0 Downloads MD5: 16caaea7d69de669f800e81ce29a8770	<span>Download</span>
<input type="checkbox"/>	 <b>02_visualize.py</b> text/x-python - 1.2 KB - Jun 4, 2019 - 0 Downloads MD5: a52a440803f25d9db504eb7d805bd91	<span>Download</span>

# maDMPs and funder templates

- > Funders still require traditional DMPs
- > Generate human-readable DMPs from maDMPs
  - > Edit and review
    - > No blank page syndrome
  - > Pre-filled with information
  - > Tailored for a specific funder
    - > Template, questions asked, etc

```

40 lines (34 sloc) | 825 Bytes
1  {
2      "DWP": {
3          "title": "Funded DWP",
4          "description": "Example of a DWP header for a funded project.",
5
6          "created": "2019-02-22T13:20:15.5",
7          "modified": "2019-02-22T15:10:56.9",
8          "contact": {
9              "name": "First Last",
10             "email": "test@test",
11             "contactID": {
12                 "identifier": "https://orcid.org/0000-0002-4929-7875",
13                 "identifierType": "HTTP-ORCID"
14             }
15         },
16         "ethicalIssuesExist": "false",

```

[illegible]

# maDMPs and funder templates

## › Prototypes

- › Developed by Data Stewardship students at TU Wien
- › Include mapping
  - › Horizon 2020
  - › FWF (Science Europe compliant)
- › Input
  - › maDMP as JSON
- › Output
  - › PDF
- › Code and (ma)DMP examples available on GitHub
  - › <https://github.com/datastewardstuw/DataStewards2>
  - › <https://github.com/MBAigner/Making-maDMPs-human-readable>
  - › <https://hasankhatib.github.io/maDMPTranslator/>

# Making maDMPs human readable

Making-maDMPs-human-readable

maDMP File:
an-readable/maDMPs/michael-horizon.json
Open maDMP

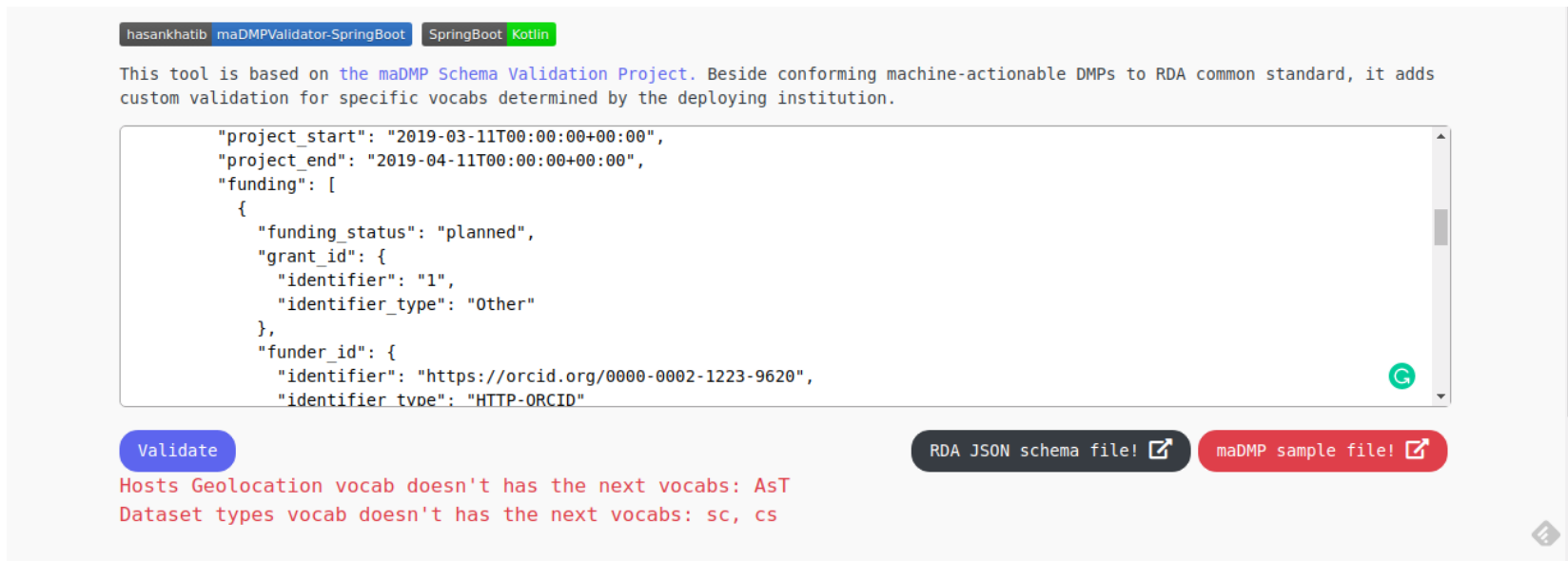
Template:
Horizon
Choose Template

<b>Abstract</b> <b>Title</b> A Data Management Plan created using DMPonline <b>Creator:</b> Affiliation: Template: European Commission (Horizon 2020)	<b>2.4 Increase data re-use (through clarifying licenses) [FAIR data]</b> Specify how the data will be licenced to permit the widest reuse possible Specify when the data will be made available for re-use. If applicable, specify why and for what period a data embargo is needed Specify whether the data produced and/or used in the project is useable
<b>1. Data Summary</b> State the purpose of the data collection/generation Explain the relation to the objectives of the project Specify the types and formats of data generated/collected Specify if existing data is being re-used (if any) Specify the origin of the data	<b>3. Allocation of resources</b> Estimate the costs for making your data FAIR. Describe how you intend to cover these costs Clearly identify responsibilities for data management in your project Describe costs and potential value of long term preservation
<b>2.1 Making data findable, including provisions for metadata [FAIR data]</b> Outline the discoverability of data (metadata provision) Outline the identifiability of data and refer to standard identification mechanism. Do you make use of persistent and unique identifiers such as Digital Object Identifiers? Outline naming conventions used	<b>4. Data security</b> Address data recovery as well as secure storage and transfer of sensitive data
<b>2.2 Making data openly accessible [FAIR data]</b> Specify which data will be made openly available? If some data is kept closed provide rationale for doing so Specify how the data will be made available Specify what methods or software tools are needed to access the data? Is documentation about the software needed to access the data included?	<b>5. Ethical aspects</b> To be covered in the context of the ethics review, ethics section of DMP and ethics deliverables. Include references and related technical aspects if not covered by the former
<b>2.3 Making data interoperable [FAIR data]</b> Assess the interoperability of your data. Specify what data and metadata vocabularies, standards or methodologies you will follow to facilitate interoperability. Specify whether you will be using standard vocabulary for all data types present in your data set, to allow inter-disciplinary interoperability	<b>6. Other</b> Refer to other national/funder/sectorial/departmental procedures for data management that you are using (if any)

Fill in DMP data
Save DMP

# maDMPs schema validation

- Validates JSON files against JSON Schema
- Additionally checks
  - Values in controlled vocabularies
  - Links accessibility
- Configurable schema and dictionaries



The screenshot shows the web interface of the maDMPValidator-SpringBoot application. At the top, there are tabs for 'hasankhatib', 'maDMPValidator-SpringBoot', 'SpringBoot', and 'Kotlin'. Below the tabs, a text block states: 'This tool is based on the [maDMP Schema Validation Project](#). Beside conforming machine-actionable DMPs to RDA common standard, it adds custom validation for specific vocabs determined by the deploying institution.' A large text area contains a JSON snippet: 

```
"project_start": "2019-03-11T00:00:00+00:00",
"project_end": "2019-04-11T00:00:00+00:00",
"funding": [
  {
    "funding_status": "planned",
    "grant_id": {
      "identifier": "1",
      "identifier_type": "Other"
    },
    "funder_id": {
      "identifier": "https://orcid.org/0000-0002-1223-9620",
      "identifier_type": "HTTP-ORCID"
    }
  }
]
```

 Below the text area is a green circular icon. At the bottom left, there is a blue 'Validate' button. To the right of the button are two links: 'RDA JSON schema file!' and 'maDMP sample file!'. Below these links, a red error message is displayed: 'Hosts Geolocation vocab doesn't has the next vocabs: AsT' and 'Dataset types vocab doesn't has the next vocabs: sc, cs'.

<https://github.com/HasanKhatib/maDMPValidator-SpringBoot>



# DMP Online and maDMPs

- Prototype
  - by Sam Rust (DCC – DMP Online)
  - exports a minimal maDMP
- See webinar and visit joint session this afternoon

## Implementing maDMPS in DMPonline

...

Sam Rust - Systems Developer, DCC  
31 July 2019

<https://www.rd-alliance.org/sites/default/files/Implementing%20maDMPS%20in%20DMPonline.pdf>

### HIGHLIGHTING SOLUTIONS PROPOSED BY RDA ACTIVE DMPS, EXPOSING DMPS AND DMP COMMON STANDARDS WORKING GROUPS



Daniel Bangert  
Göttingen State and  
University Library  
RDA Secretariat



Kathryn Unsworth  
Commonwealth Scientific and  
Industrial Research Organisation  
RDA Exposing DMPs WG



Peter Neish  
University of Melbourne  
RDA DMP Common  
Standards WG



Tomasz Miksa  
SBA Research  
RDA DMP Common  
Standards WG



Sam Rust  
Digital Curation Centre



WEBINAR SLIDES  
& RECORDINGS  
NOW AVAILABLE

<https://www.rd-alliance.org/rda-working-groups-solutions-dmp-recording-and-slides-webinar-now-available-0>

# DMP Roadmap export to maDMPs

## › Prototypes

› developed by Data Stewardship students at TU Wien

› <https://github.com/martinpichler/dmp-roadmap-parser>

› [https://github.com/lukasinschlag/maDMP\\_export\\_tool](https://github.com/lukasinschlag/maDMP_export_tool)

› export maDMPs from DMP Roadmap

› DMP Online, DMP Tool




## › Mappings

› Horizon 2020

› FWF

roadmap

### Available plans

#	Plan	Description	
11	Markus Test 1	Abstract -> description	 Download maDMP
12	Data stewardship: Climate and energy resources	This experiment is used to show the correlation between the yearly climate values and the used energy resources, in the years 1992-2016. The idea is that the climate has an impact on the amount of energy needed. The input data for this experiments is taken for the climate values from data.gv and for the energy resources from Statistik Austria.	 Download maDMP
13	Data stewardship: Climate and energy resources	This experiment is used to show the correlation between the yearly climate values and the used energy resources, in the years 1992-2016. The idea is that the climate has an impact on the amount of energy needed. The input data for this experiments is taken for the climate values from data.gv and for the energy resources from Statistik Austria.	 Download maDMP

# RDM Organizer

- Developed by Data Stewardship students at TU Wien
- Export maDMPs from RDM Organizer
- Mappings
  - Horizon 2020,
  - FWF (Science Europe compliant)
- Prototype
  - <https://helmuthb.github.io/dmp-tools-actionable/>
- Planned by the RDM Organizer team
  - maDMPs to be used in the internal data model
  - update from Robert Ulrich



# maDMPs at German Aerospace Center (DLR)

- maDMPs as one of the key elements in RDM
- Project funded and starting soon



# Discussion

# Wrap-up and next steps

## Part 4

# Next steps

- Standard is frozen
- Start the process for the official RDA Recommendation
- Two adoptions needed
  - What is the level of adoption at your organisation? (E.g., pilot, production, ...)
  - Do you plan to continue to use the Recommendation?
  - Did you need to modify the Recommendation for your use?
  - Can you give an estimate of how much time / effort you have spent on the adoption so far?
  - What's your overall experience? (E.g., Very Good, Good, Fair, Poor)
  - Would you do it again?
- Maintenance through this WG or Active DMPs IG – tbd.

# maDMPs – take them and use them!

- Standard specification

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

- Participate in model adoption!

- Contact group chairs

- Questions

- Ideas

- Success stories



Tomasz Miksa



Paul Walk



Peter Neish



# Visit our joint session

- More on machine-actionable DMPs
  - Today, after lunch
  
- **Towards FAIR Data Management Plans, from principles to practice**
  - [Active Data Management Plans IG](#)
  - [Exposing Data Management Plans WG](#)
  - [DMP Common Standards WG](#)

- [Tomasz Miksa, Peter Neish, Paul Walk, Andreas Rauber: Defining requirements for machine-actionable Data Management Plans. iPres 2018](#)
- [Tomasz Miksa, Stephanie Simms, Daniel Mietchen, Sarah Jones: Ten principles for machine-actionable data management plans. PLOS Computational Biology \(in press\)](#)
- [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. TPDL 2018: 69-80](#)