

ma-DMPs for Open Science

UCT Open Data Day 2019

Saturday, 2nd March 2019

Ya'qub Ebrahim

Data Curation Officer

<u>Digital Library Services</u>, UCT Libraries

University of Cape Town

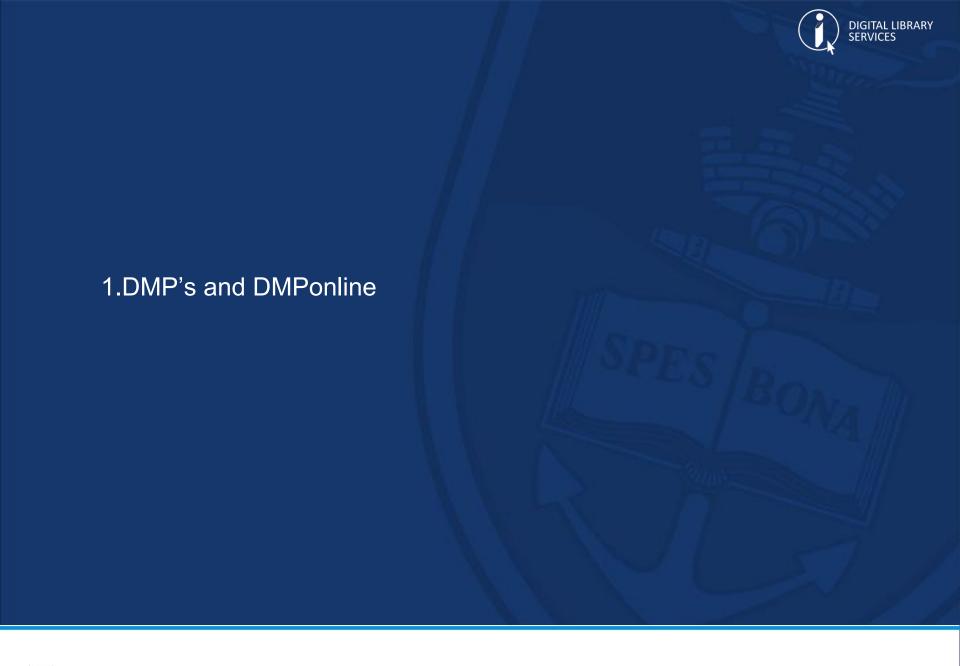






- 1. DMP's and DMPonline
- 2. Importance of DMP's for Open Science
- 3. Traditional DMP vs maDMP
- 4. Examples







What is a DMP?



 A data management plan (DMP) is a written document that describes the data you expect to acquire or generate during the course of a research project, how you will manage, describe, analyze, and store those data, and what mechanisms you will use at the end of your project to share and preserve your data.



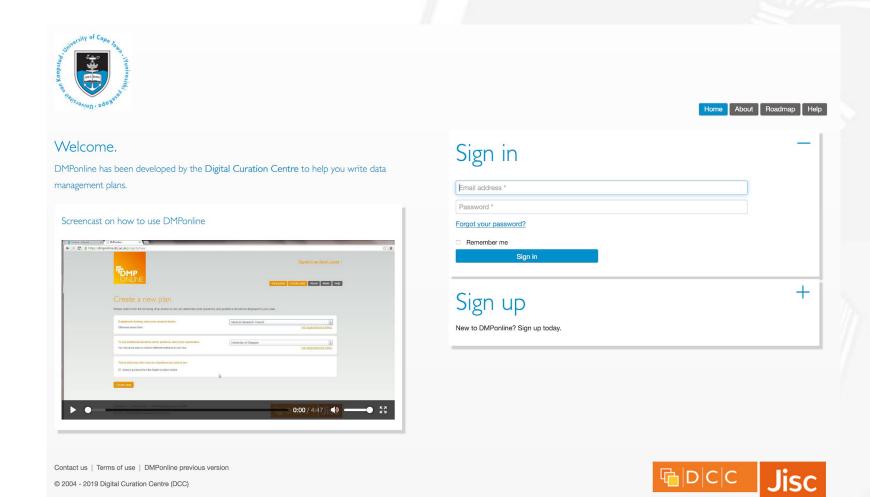


Why create a DMP?

- Comply with funder requirements
- Comply with institutional requirements
- Assists other researchers use your data if shared
- To make your research easier and cheaper
- To enhance your reputation Well documented, clean and organized data may lead to new collaboration and funding opportunities

DMPonline







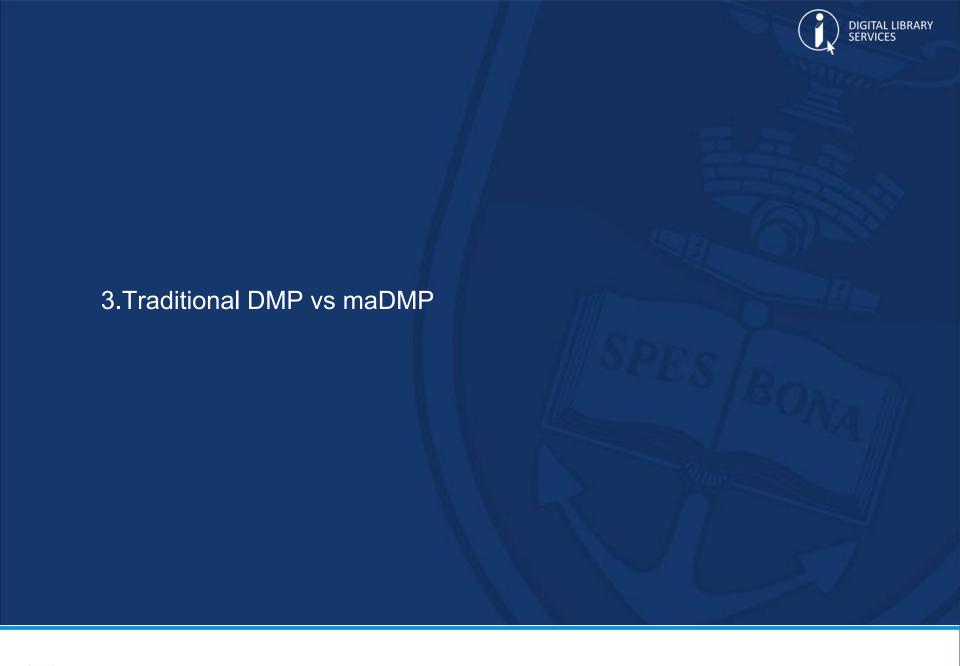




Why is it important for open science and what role does it play?



- DMP lays the foundation and is the beginning step for organizing your data
- Makes data publishing process smooth
- Allows you to decide at each step of your project how and what you want to do with your data ie. store, preserve, where to share etc.
- Platform can be used by entire world
- Open platform and allows for collaboration big step towards open science







Problem:

'Traditional' Data Management Plan (DMP)

- Results in a static, offline document.
- Seen as annoying administrative exercise.
- Not seen as an integral part of research practice.
- Manually completed, instead of automatically updated.
- Free-form text fields can result overly generic answers.
- Created at proposal stage, so limited in re-usable information.
- Does not allow for re-use of information.



DIGITAL LIBRAR SERVICES

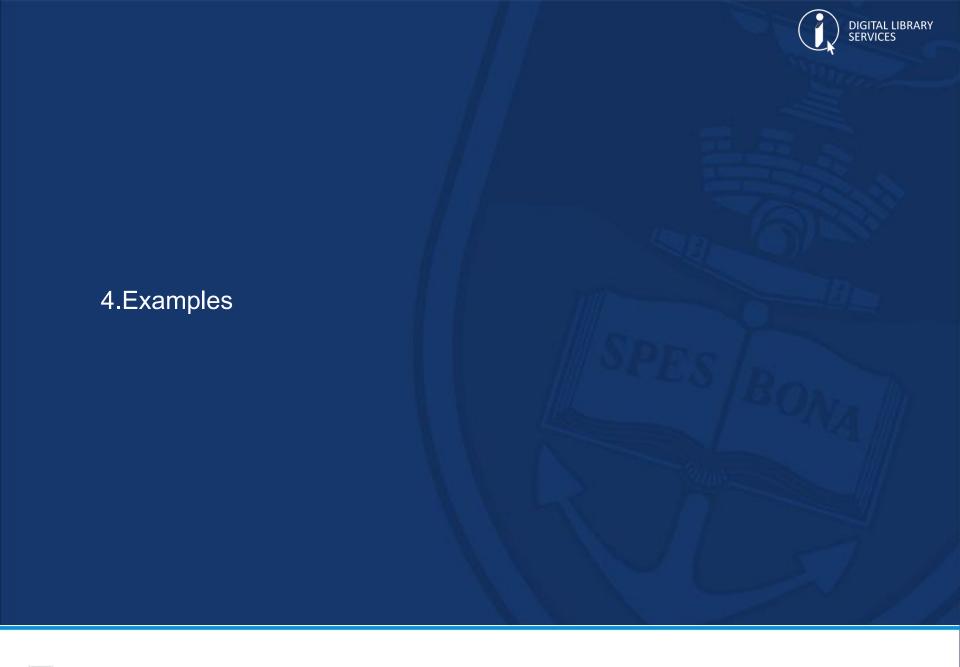
Solution:

Machine-actionable (ma-)DMP

- Comprises a 'living' document
- Automation of data management process model implemented to pull information from systems
- Information modelling

Source: Defining requirements for machine-actionable Data Management Plans. Available: http://ifs.tuwien.ac.at/~miksa/papers/2018-iPres-maDMPs.pdf

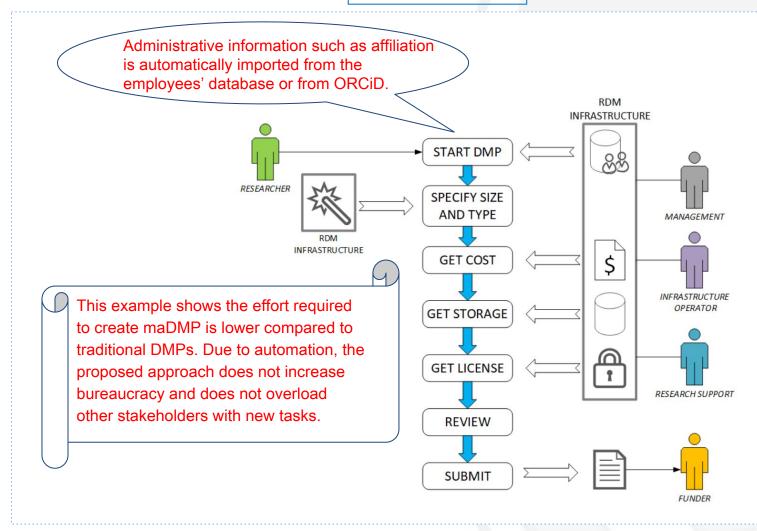






Use case 1



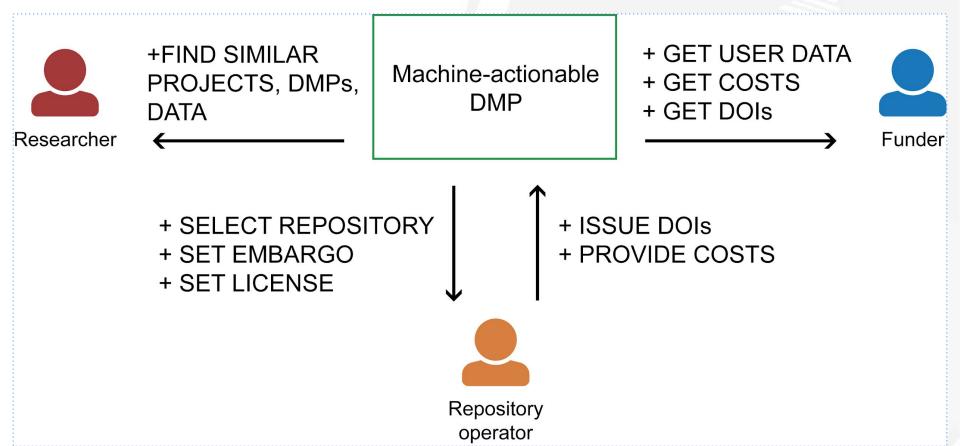


Source: Defining requirements for machine-actionable Data Management Plans. Available: http://ifs.tuwien.ac.at/~miksa/papers/2018-iPres-maDMPs.pdf





Use case 2



Source: Defining requirements for machine-actionable Data Management Plans. Available: http://ifs.tuwien.ac.at/~miksa/papers/2018-iPres-maDMPs.pdf





DMPonline migration to roadmap codebase

- DMPTool(University of California Curation Centre(UC3)) http://www.cdlib.org/services/uc3/ and DMPonline(Data Curation Centre) http://www.dcc.ac.uk/ have merged their infrastructure to a single codebase called Roadmap (DCC) coded the platform
- DMPonline(UCT instance) in process of upgrading to new infrastructure.
- Managed by DCC and UC3 with community input: https://github.com/DMPRoadmap









Sharing DMP's

Manage collaborators

Invite specific people to read, edit, or administer your plan. Invitees will receive an email notification that they have access to this plan.

Email address	Permissions	
jimmy.angelakos@ed.ac.uk	Editor ▼	Remove
s.jones@arts.gla.ac.uk	Owner	

Set plan visibility

Public or organisational visibility is intended for finished plans. You must answer at least 50% of the questions to enable these options. Note: test plans are set to private visibility by default.

- Private: visible to me, specified collaborators and administrators at my organisation
- Organisation: anyone at my organisation can view
- Public: anyone can view

Request expert feedback

Click below to give data management staff at your organisation access to read and comment on your plan.

You can continue to edit and download the plan in the interim.

Request feedback

Plans are private by default but can be made public or shared organizationally



Usage dashboard

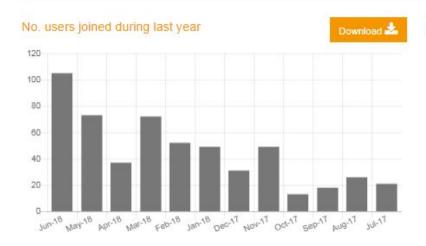
Usage statistics

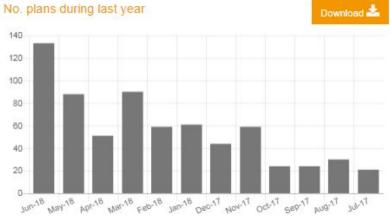
Use the filters to generate organisational usage statistics for a custom date range. The graphs display new users and plans for your organisation over the past year. You can download a CSV report for each graph.

Run your own filter

Topic Start date End date Organisation

Users ▼ dd/mm/yyyy dd/mm/yyyy London School of Economics and ▼

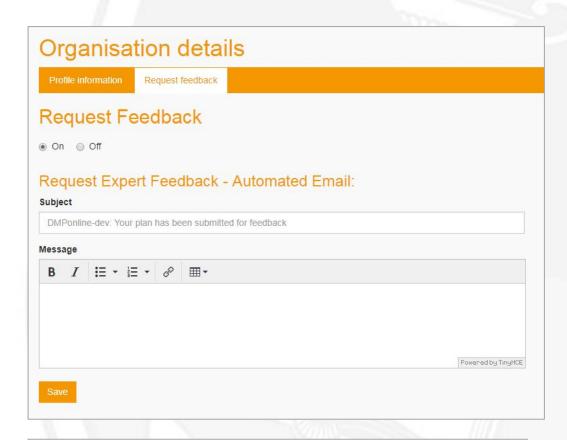




Feedback on plans

Organisations can choose to offer feedback on DMPs. If enabled, users get an option to submit plans for feedback.

Admins are alerted to requests and comments are left using the 'share note' field.









References | Reading

- Miksa,T, Neish, P, Walk,P, Rauber, A. Defining requirements for machine-actionable Data
 Management Plans, 2018, https://doi.org/10.5281/zenodo.1266211
- Simms, S, Jone, S, Mietchen, D, Miksa, T. Machine-actionable data management plans (maDMPs), 2017, https://doi.org/10.3897/rio.3.e13086
- Miksa, T, Simms, S, Mietchen, D, Jones, S. Ten simple rules for machine-actionable data management plans, 2018, https://doi.org/10.5281/zenodo.1172673





Thank You

