



The importance of data management planning (in Horizon Europe)

Kevin Ashley Director, Digital Curation Centre www.dcc.ac.uk @kevingashley Kevin.ashley@ed.ac.uk

With thanks to many DCC colleagues for reuse of images

DMPonline, DCC, and the associated logos are registered trademarks of the University of Edinburgh



DCC because good research needs good data



Topics today

- The value of data management & stewardship
- What goes into a DMP?
- The DMPonline service for researchers and organisations



My home – the DCC

- Consultancy
- Training
- Research
- Services
- Guidance
- Events





...and an organisational member of RDA, Datacite, Digital Preservation Coalition & COAR





Why does data matter?

- Moral and financial reasons:
 - Reusable data improves integrity, speed and cost of research
 - True even if reuse is only by the original creators
- Mandates by funders



- Sparc Europe/DCC briefing on value of open data to institutions: https://sparceurope.org/new-briefing-paper-value-open-data-research-institutions/
- Self-interest such as citation advantage
 Alter, Pienta, Lyle 240%, social sciences *
 Piwowar, Vision 9% (microarray data)†
 Henneken, Accomazzi 20% (astronomy) #

Edwin Henneken, Alberto Accomazzi, (2011) Linking to Data - Effect on Citation Rates in Astronomy. http://arxiv.org/abs/1111.3618

* Amy Pienta, George Alter, Jared Lyle, (2010) The Enduring Value of Social Science Research: The Use and Reuse of Primary Research Data. http://hdl.handle.net/2027.42/78307

⁺ Piwowar H, Vision TJ. (2013) Data reuse & the open data citation advantage. PeerJ PrePrints 1:e1v1 http://dx.doi.org/10.7287/peerj.preprints.1v1





Data management plans

- Decades-old discipline to aid with:
 - Making informed decisions that anticipate & avoid problems
 - >Avoiding duplication, data loss and security breaches
 - Providing guidelines for everyone working on the project
 - >Making it more likely that your data has future value
 - Give clarity about responsibilities and changes of custody

Helping you and colleagues make better use of your data, now and in the future





Evolving, actionable plans

- Plans that aid in documentin "... I hav responsibility ^{useless,}
- Plans that aid capacity plann providers

"... I have always found that plans are useless, but planning is essential" - Dwight D. Eisenhower

- Plans that become records of actions completed
- Plans that can interact with other administrative & infrastructure systems
- Use & recording of researcher, data, repository, grant, funder IDs and more





Common themes in DMPs

- 1. Description of data to be collected / created (i.e. content, type, format, volume...)
- 2. Standards / methodologies for data collection & management
- 3. Ethics and Intellectual Property (highlight any restrictions on data sharing e.g. embargoes, confidentiality)
- 4. Plans for data sharing and access (i.e. how, when, to whom)
- 5. Strategy for long-term preservation



DCC

One structure for a plan

- Introduction & context
- Legal, rights & ethical issues
- Access, data sharing & re-use
- Data collection / development methods
- Data standards
- Short-term data storage & data management
- Deposit & long-term preservation
- Resourcing
- Compliance & review
- Agreement/ratification by stakeholders

For some areas of research, or at some stages of the project, some of these areas will be empty or irrelevant – that doesn't matter

2021-10-25



Tips on writing DMPs

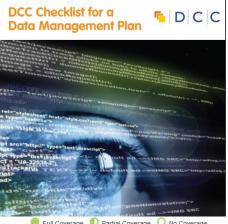
- Keep it simple, short and specific
- Seek advice consult and collaborate
- Base plans on available skills and support
- Make sure implementation is feasible
- Justify any resources or restrictions needed Don't overthink it

www.youtube.com/watch?v=7OJtiA53-Fk



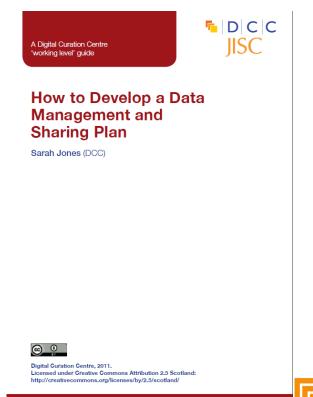
The DMPonline service

- Launched in 2010 initially aimed at (UK) researchers •
- Built on previous work by DCC providing guidance on • DMPs & analysing funder requirements

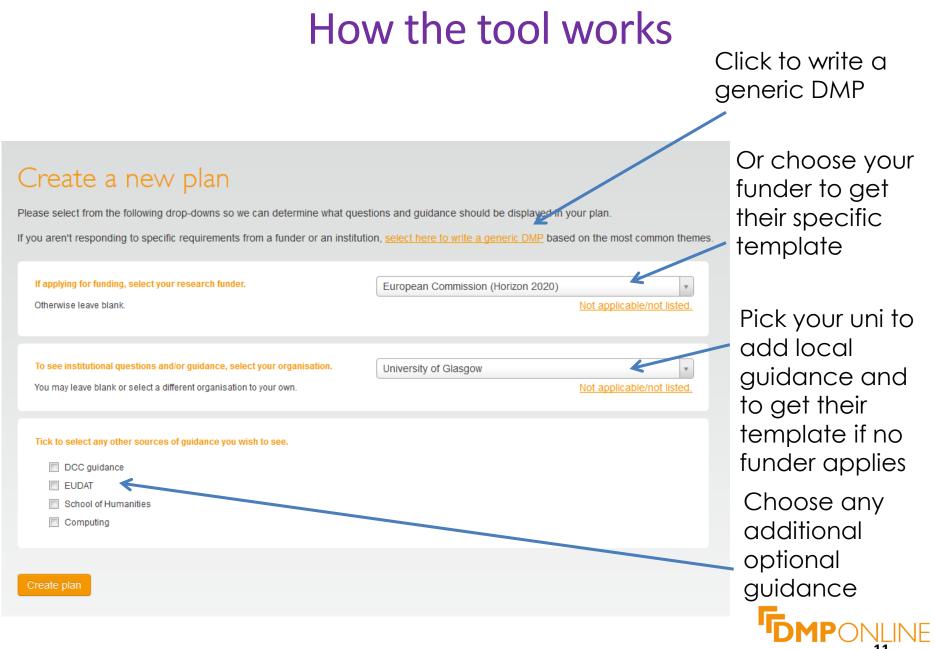


Full Coverage 🏾 🕕 Partial Coverage 🛛 No Coverage

	Policy Coverage		Policy Stipulations					Support Provided					
Research Funders	Published outputs	Data	Time limits	Data plan	Access/ sharing	Long-term curation	Monitoring	Guidance	Repository	Data centre	Costs		
AHRC	٠	٠	•	٠	•	D	0	•	0	O	O		
BBSRC	•	•	•	•	•	•	•	•	•	O	•		
CRUK	•	•	•	•	•	•	•	D	•	0	0		
EPSRC	•		•	•		•	•	D	0	0	•		
ESRC	٠		٠	٠	•		•		•	•	•		
MRC	۲		•	٠	•	•	0	O	•	0			
NERC	۲		•	٠	•	•	•	•	•	•			
STFC	٠				•		•		•				
Wellcome Trust	•		•		•	•	•	•	•	O	•		









Service evolution

- Generic & funder template questions, with DCC guidance associated with each
- Features aimed at organisations and funders
 - Administrative users
 - Customisable guidance, templates, appearance
 - Statistics
 - SSO
 - API
- Multiple-phase plans
- Collaborative features co-writing, review
- Integration with other services
- Multi-lingual support
- Increasing use of PIDs (people, organisations, services,...)





Service now

- Free to researchers and will continue to be
- Without institutional subscription:
 - No local guidance
 - No local templates
 - Generic DCC branding
 - No ability to ask for review
 - No single sign-on
 - No visibility to you
 - No statistics
 - No access to data via API
 - No integration with local or funder systems

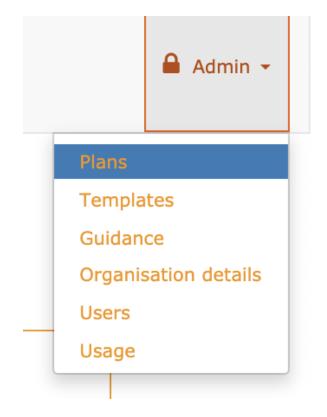




As an administrator...

Admin menu from the home page:

- Plans provides access to all institutional Data Management Plans. You can view individual plans and download metadata on them all.
- **Templates** allows you to create your own templates and customise funder templates
- Guidance allows you to create themed guidance to apply across all templates in the tool
- Organisational details allows you to edit your profile by adding logos and links, and enable the DMP feedback / review option
- Users allows you to see details for all users in your organisation
- Usage provides statistics on the number of users and plans created per month by users in your organisation



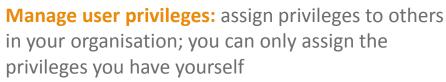




X

Multiple admins & roles per organisation

You can select individual organisational users from the 'Users' option to manage privileges



Manage templates: create new organisational templates, edit existing ones, and customise funder templates

Manage guidance: create and edit guidance Use API: allows your colleague through their profile to get API token and grants rights to harvest info from the tool

Manage organisation details: edit organisational details (name, URLs, contact email, logo) Review plans: allow your colleagues to provide feedback on the plans through the comment section

Editing privileges for Magdalena Drafiova

Organisational admin privileges

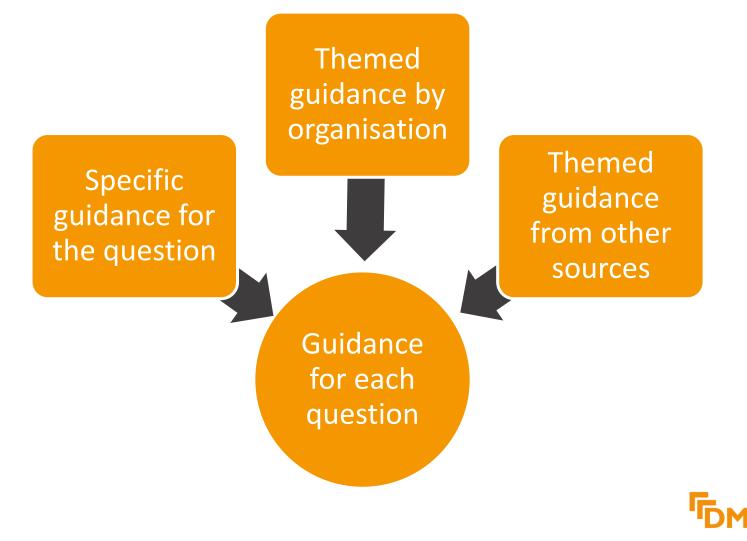
- □ Manage user privileges
- Manage templates
- □ Manage guidance
- 🗆 Use API
- Manage organisation details
- \Box Review plans

Save Cancel





Add local guidance using themes



DMPonline - UKRO workshop (c) Kevin Ashley; CC-BY

2021-10-25



Feedback and review of plans

- Customisable option when enabled, users can ask for feedback
- Customisable message for users when this is used (we suggest including timescale for response)
- Notification sent to a customisable address
- Dashboard showing status of current & completed requests

DMPonline - Tutorials Plans

Notifications

Plan	Requestor	Туре	Actions
DMPonline Tutorials first plan from Louisa	Louisa Test	Feedback requested	Complete
test	Magdalena Drafiova	Feedback requested	Complete
test	Magdalena Drafiova	Feedback requested	Complete



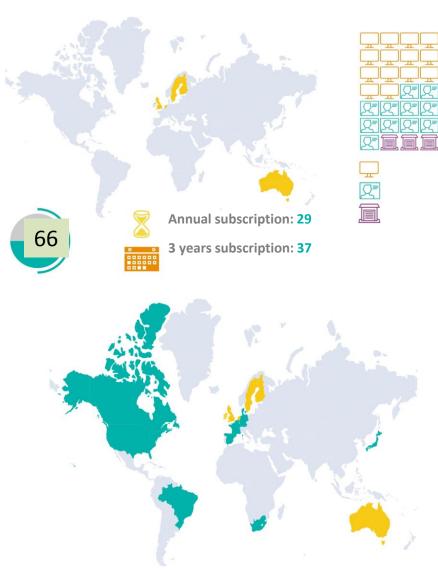
Information on usage

- Access to statistics on users and plans
- Over time, by funder,...
- Via web interface and API

C dmponline.	dcc.ac.uk/usage				0-7 (२ ☆	* 4	E
Statistics on your Use	ers						-	
The graphs display new o	users and plans for you	ır organisation ov	er the past year. Yo	ou can download a C	SV repo	rt for ead	:h	
raph. ⁶ Move the mouse pointe	er over the bars of a ch	art to see numbe	rs. Click on the bar	to see the list of th	ese liser	s/nlans t	•	
interrogate statistics in n			ist eller of the but	to see the list of th	000 0001	of plans c		
No. users joined durin	g last year	Download 🚣	No. plans during	g last year		Downlo	ad 🕹	
50			50					
45			45					
40			40					
30			30					
25			25					
15			15					
10			10					
Feb-20 Mar-20 Apr-20 May-20 JU	19-20 JU1-20 AUG-20 Gep-20 Oct-	20 NOV-20 Dec-20	Feb-20 Mar-20 Apr-20	May-20 Jun-20 Jul-20 pup?	500-20 OF	1-20 NOV-20	080-20	
								de la
								'

DMPonline in numbers

- DMPonline is in 83 countries 60,000 registered users at 300 organisations
- The service (DMPonline) is paid for by research organisations and funding bodies – 66 so far
- The code (DMPRoadmap) is still open-source
- It's still free to use for researchers, whether or not their organisation or funder subscribes
- The development and service team continues to grow





What's involved?

- Charges range from £700 to £12,000/year for UK organisations
- 1-year & 3-year subscriptions available
- Standard contract & service agreements for basic or enhanced service
- User group, training, help desk and support all included
- Contact dmponline@dcc.ac.uk to learn more





DMPonline and Horizon Europe

- Ensures your users are using valid templates & seeing guidance appropriate to Commission requirements
- Supports H2020 & HE multi-stage plans
- Allows you to provide customised guidance to users
- Allows you to review & comment on plans
- Supports collaborative authorship
- Integrates with services such as re3data
- Recognised by the Commission & listed in EOSC services portal
- Reduces burden on you and your researchers

