Stephanie Simms is the DMPTool Service Manager and a Research Data Specialist at the California Digital Library (CDL). The CDL is part of the University of California system and is tasked with supporting digital curation activities at all 10 UC campuses. Prior to joining the CDL she was a CLIR Postdoctoral Fellow at the UCLA Library where she worked on various research data management and geospatial data initiatives. She has 10 years of experience conducting archaeological field research in Mexico and Guatemala focused on reconstructing ancient menus and food practices. Stephanie earned her Ph.D. in Archaeology from Boston University and a B.A. in Classical Civilization from UCLA.

Introduction to the DMPTool

Stephanie Simms | California Digital Library | stephanie.simms@ucop.edu

Transportation Librarians Roundtable | 28 July 2016

Roadmap

DMPs: a brief history

What is the DMPTool?

DMPTool resources

Using the DOT template

Customizing the template

DMP evaluation rubric

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Roadmap

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VERY brief history (in 3 slides) to set the stage for why the CDL identified the need for the DMPTool

What is a data management plan?

A document that describes what you will do with your data

during your research

and after you complete your project

FAIR principles – FORCE11

This is the generally agreed-upon definition, one that speaks to the goal of a DMP, which is to enable data to be findable, accessible, interoperable, reusable (FAIR principles from FORCE11) – includes persistent identifiers, rich metadata, clear/open licenses, etc.

-International group, philosophical position – data are a public good, part of a knowledge commons
-I'm a proponent of the idea that good data management is just a part of good research practice, another dimension of research methods that maybe won't be treated as a separate thing; but this gets into culture change, slow, uneven across/within disciplines and stakeholders, will be some time before we get there

For researchers & funders:

A short plan submitted alongside grant applications

Icon by Madebyoliver at www.flaticon.com

Reality of DMPs is that most researchers and funders in the U.S. perceive them to be an annoying paper-pushing exercise

Multiple reasons for this – a big one is that few of the stakeholders have the experience and technical expertise required to manage digital data well, much less describe their data management practices in a clear narrative format

DMPs and Sharing Mandates

OSTP memo 2013 is the most significant event depicted in this slide, likely the reason for this data mgmt webinar series – terrific goal, launched everyone into unknown territory

Did already have public access policies from NIH and NSF in 2011

More recently policies being issued by publishers to make data underlying published articles available > transparency, reproducibility, good research

-unfortunately, many researchers still perceive these as sticks – confused and frustrated – we all need forums like this one to learn from each other, rapidly evolving landscape

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2011 DMPTool v.1 was developed by CDL and founding partners from U.S. institutions and libraries as well as the Digital Curation Centre in the UK (UVA, UIUC, UCSD, UCLA, Smithsonian, DataONE, DCC)

-need for a central clearinghouse of information about NSF and NIH policies, reduce duplication of effort, educate researchers about best practices

-successful, got a grant from Sloan Foundation to build v.2, released in 2014 – additional features, esp. admin features, more templates

The DMPTool is an online wizard that:

- Helps users create ready-to-use DMPs for specific funding agencies
- Provides step-by-step instructions and guidance for how to manage data
- Connects researchers with information and resources at their institution/organization

-Free resource actively developed and maintained by the CDL – primarily to support US-based researchers
-As policies spread throughout the world, our future plans are to merge with UK counterpart DMPonline, just starting now, aim to release new version sometime next year based on their codebase – internationalized, flexible guidance, reflects true nature of research

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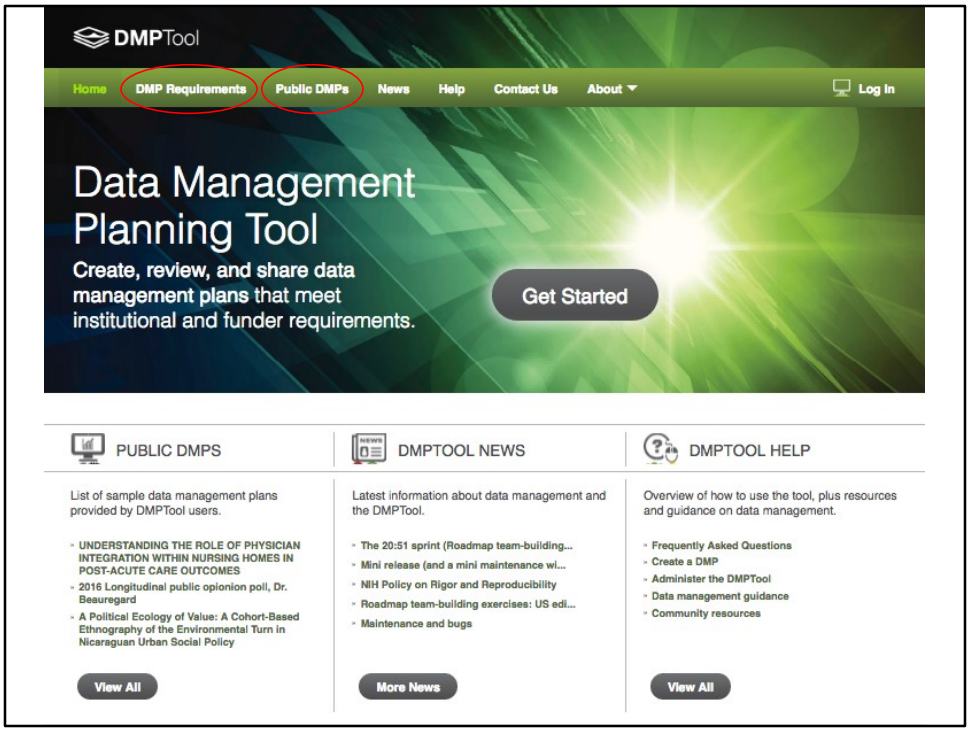
The most popular features are educational resources: I'll give you a quick tour of those

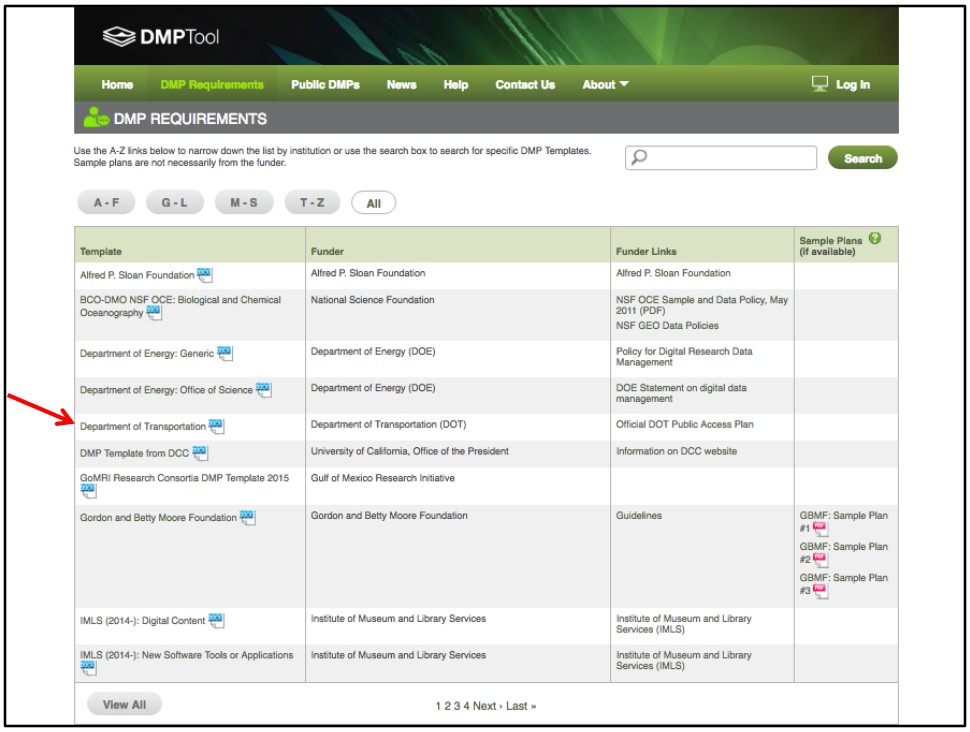
Not everyone wants to click through the wizard to write their plan, but many come to the tool to find info and guidance, always looking for ways to make this more useful/usable to improve quality of DMPs so that they can actually be implemented



Top two resources are accessible from the homepage, do not require creating an account and logging in

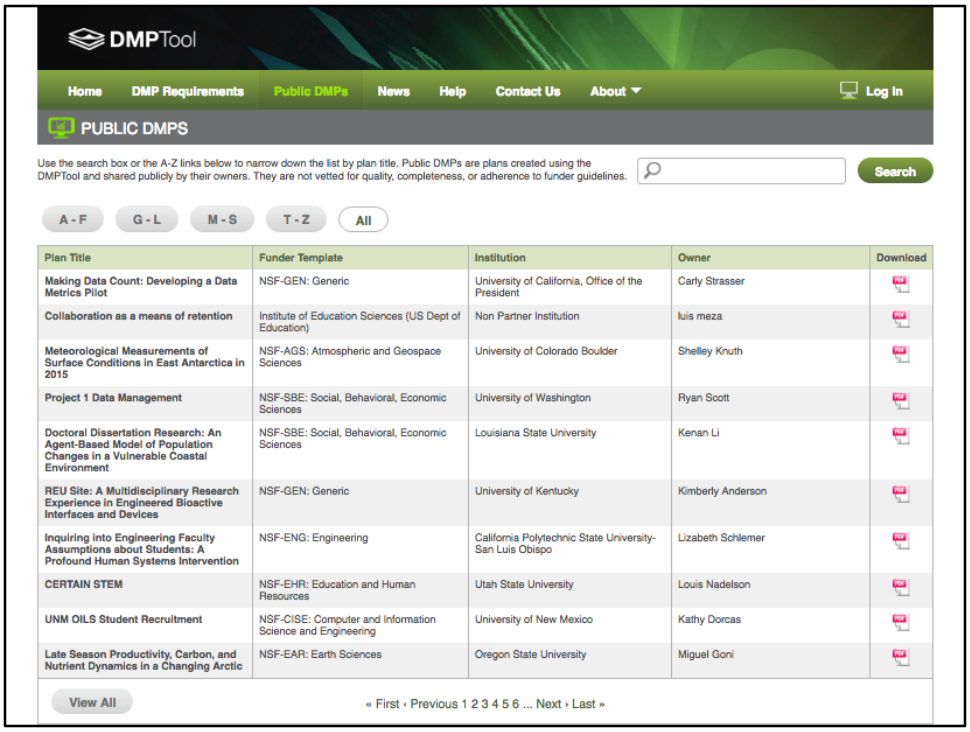
DMP Requirements links directly to funder policies and guidance

Public DMPs list of actual plans created by DMPTool users, elected to share publicly



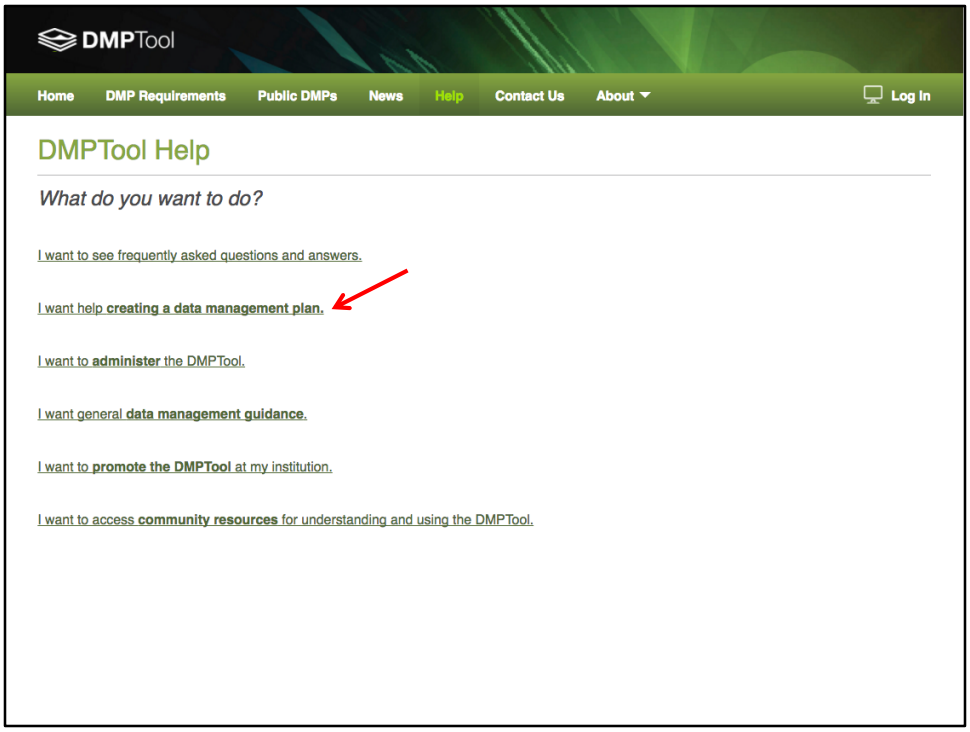
-This is where I make the disclaimer that no federal agencies have officially endorsed the DMPTool
-I promised the DOT lawyers I would say this, gave permission to provide a public template – created and maintained by Sherry Lake and CDL, crowdsourced effort to track policies
-can export template as Word doc and customize it or use it to write a DMP directly in Word
-31 public templates currently, 13 are NSF
-23 federal agencies now require a DMP

Generic templates: DMP Template from DCC, or NSF Generic

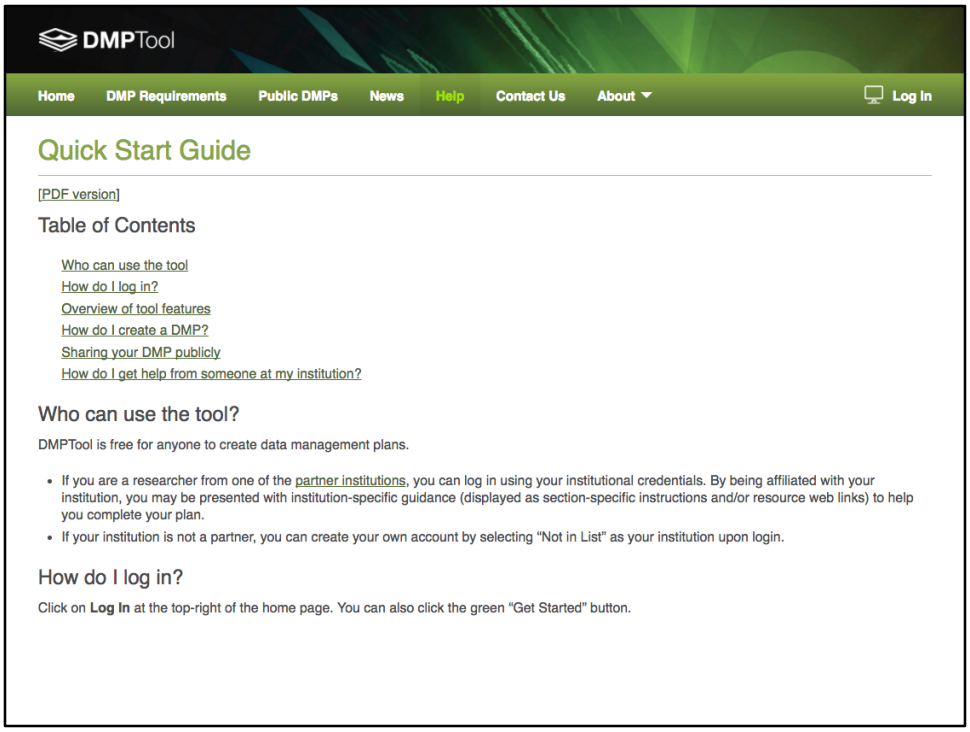


Public DMPs list: can download PDF of actual plans

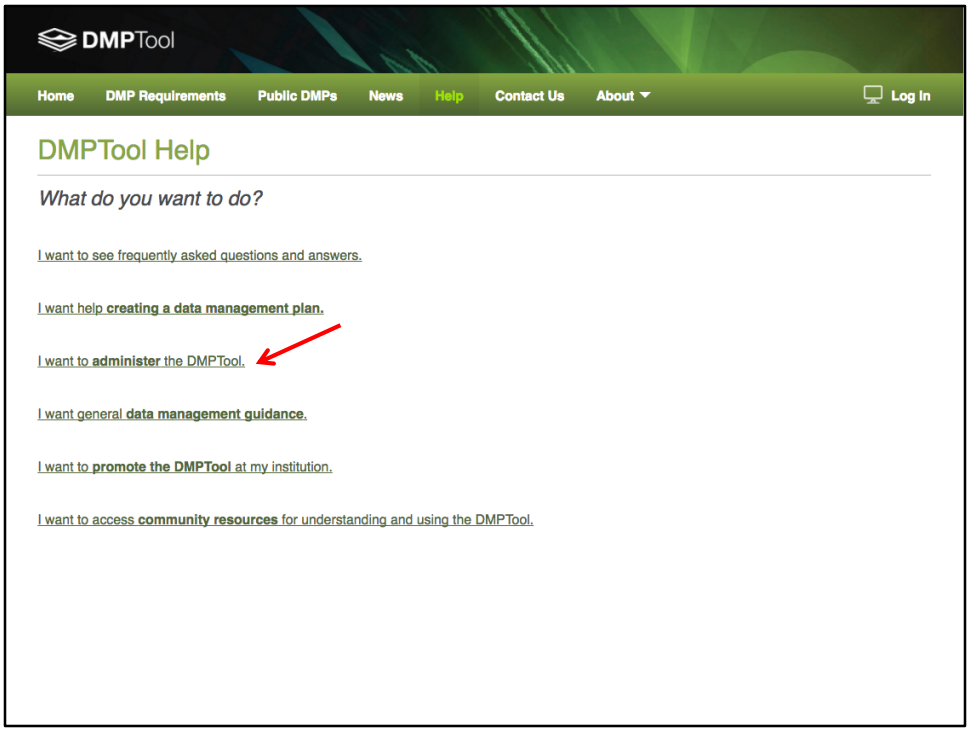
Participating institutions – optional, enables local administration/customization, branding, Shib authentication alleviates need for users to create accounts
Non-partner institution – create an account, upon login select Not in list, access to all public resources that we maintain



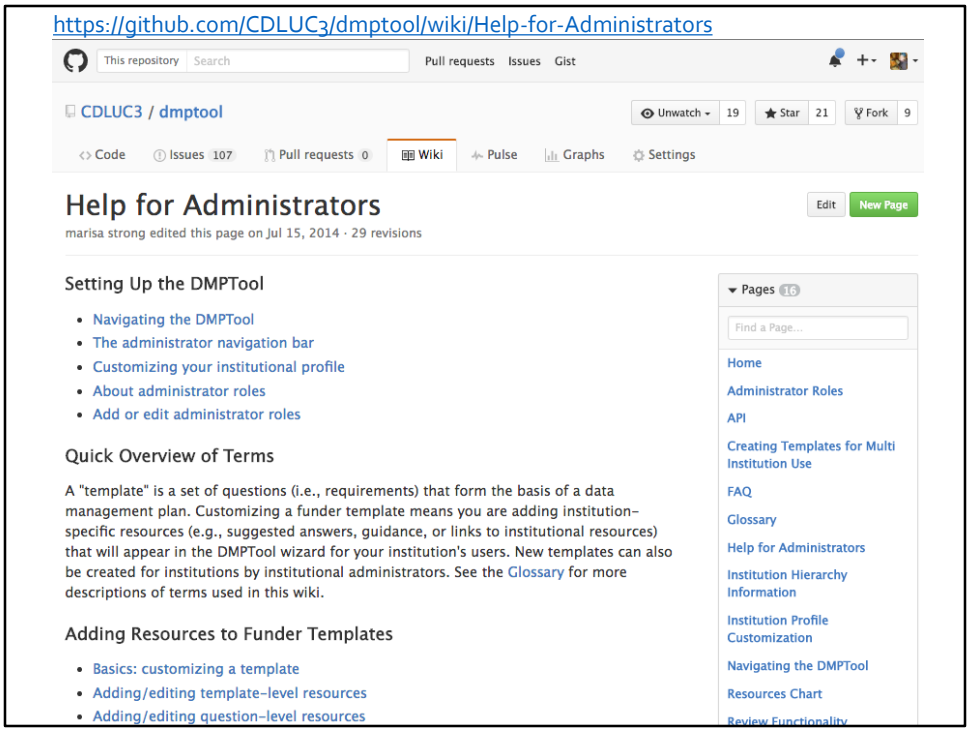
FAQ
Quick Start Guide
help for admins
Data mgmt best practices
promo materials including basic slide decks if you want to give your own DMPTool workshop (CC-0 licenses)
community resources includes links to training materials, LibGuides, repository info, etc



Quick Start guide (PDF version): for the 90% of researchers who will contact you the day before their proposal is due, help! What is a DMP? How do I write one? Scroll down to see screenshots and instructions for all of these actions

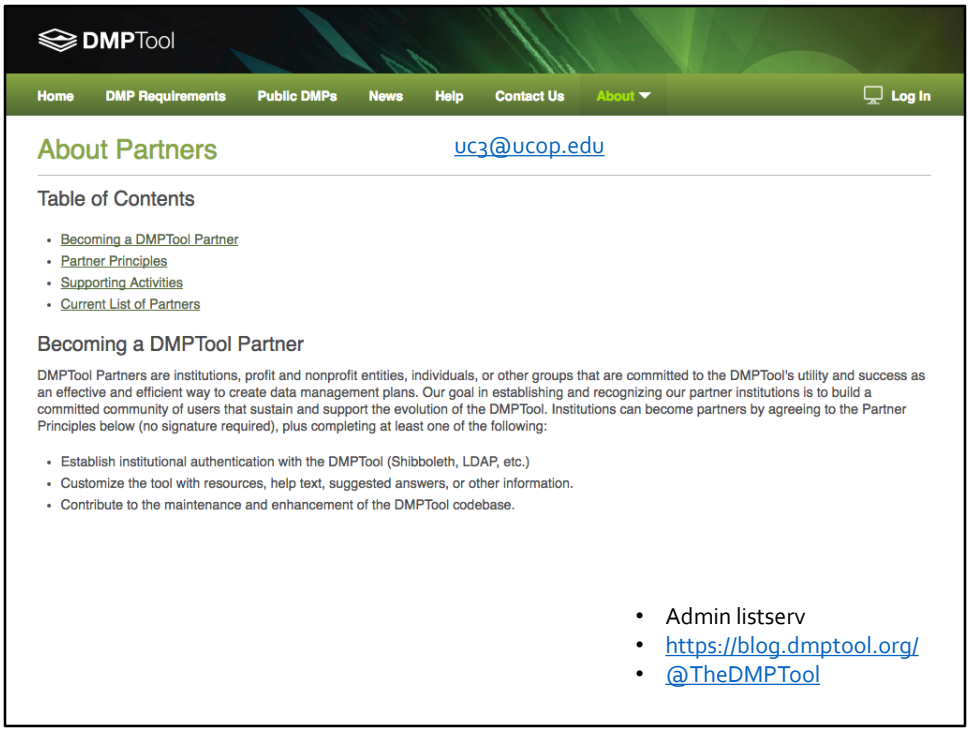


Quick Start Guide



Don’t need a Github account to access these pages, can search here, extensive documentation for all admin functions

Can submit issues, bugs, enhancement requests – does require you to create an account, easy process



Communication channels
Email us to become a partner using the Contact Us form, directly uc3@ucop.edu

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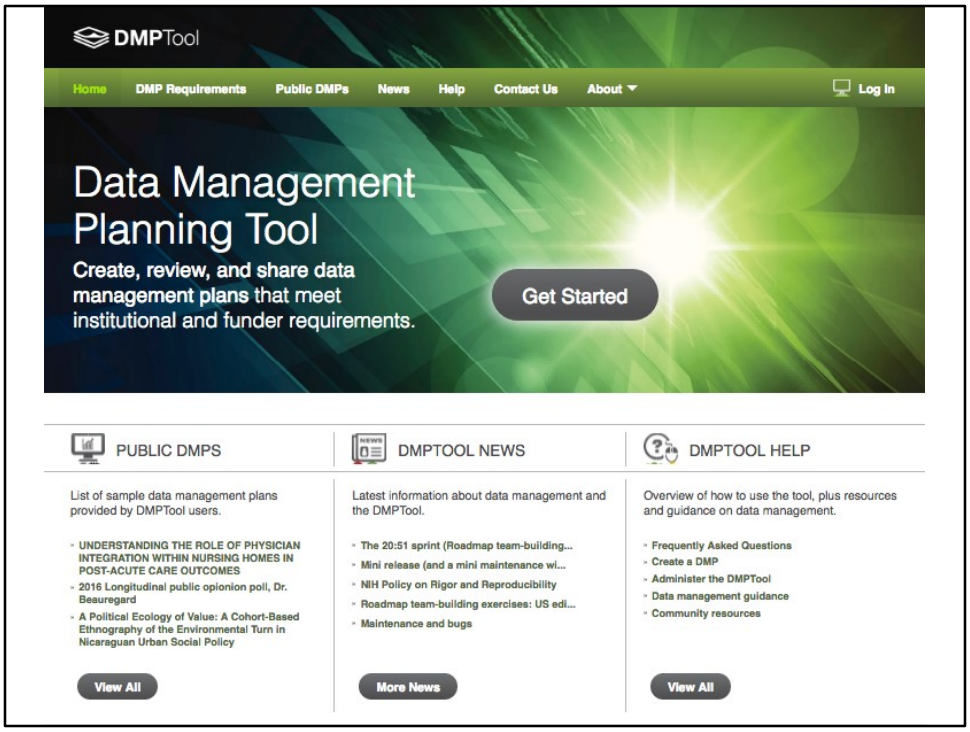
DMPTool
Home
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Public DMPs
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Help
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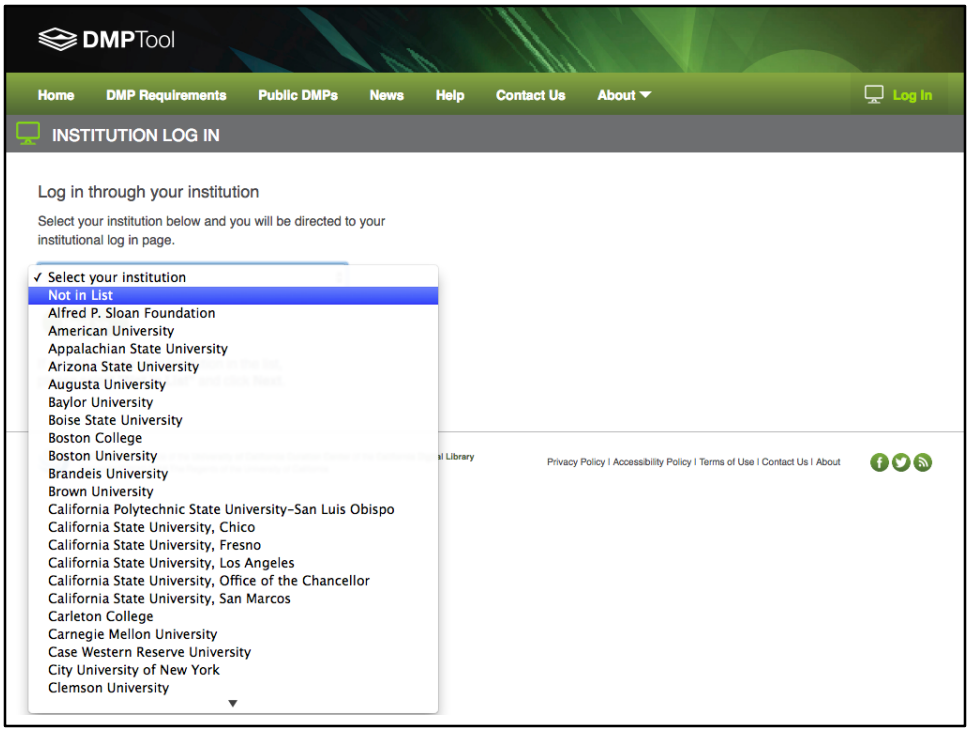
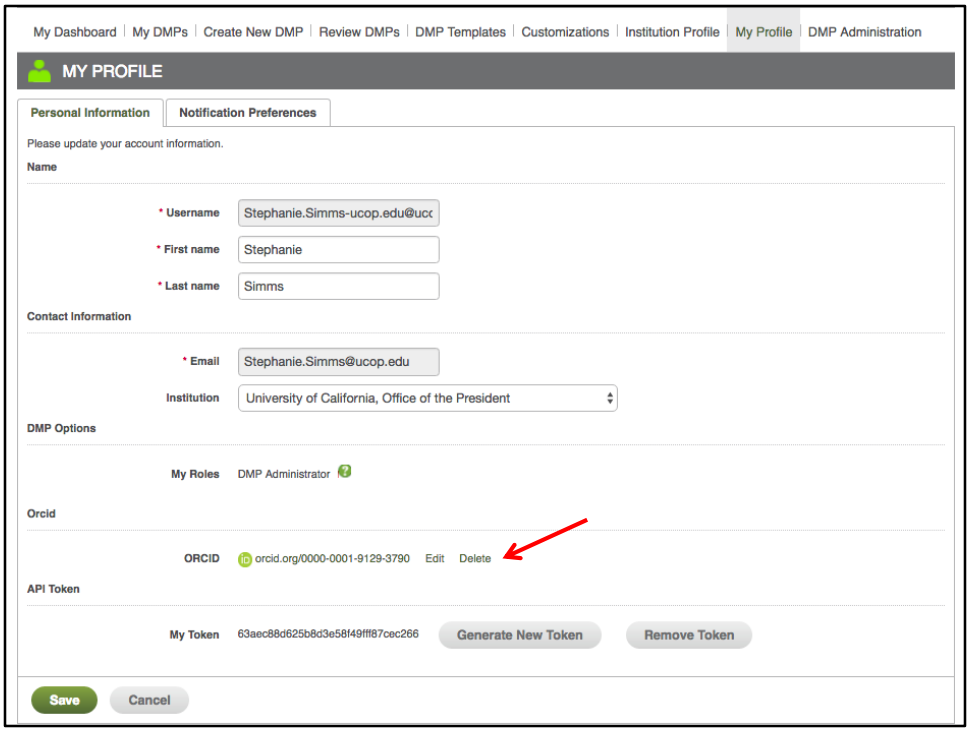
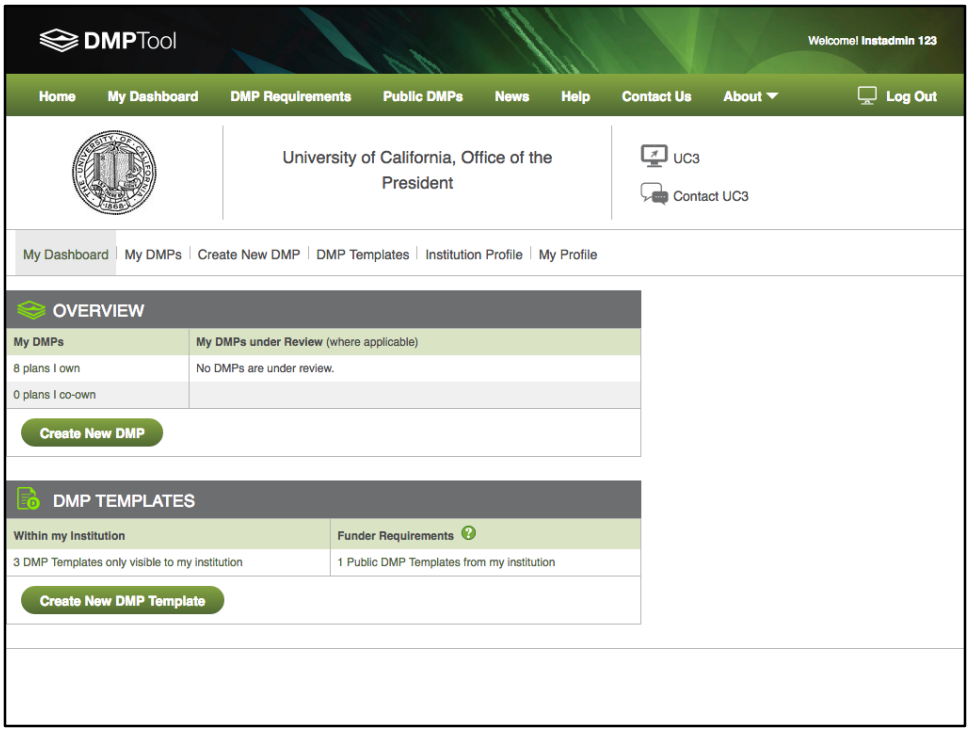
About
Log In
Data Management Planning Tool
Create, review, and share data management plans that meet institutional and funder requirements.
Get Started
PUBLIC DMPS
List of sample data management plans provided by DMPTool users.
UNDERSTANDING THE ROLE OF PHYSICIAN INTEGRATION WITHIN NURSING HOMES IN POST-ACUTE CARE OUTCOMES
2016 Longitudinal public opionion poll, Dr. Beauregard
A Political Ecology of Value: A Cohort-Based Ethnography of the Environmental Turn in Nicaraguan Urban Social Policy
View All
DMPTOOL NEWS
Latest information about data management and the DMPTool.
The 20:51 sprint (Roadmap team-building...
Mini release (and a mini maintenance wi...
NIH Policy on Rigor and Reproducibility
Roadmap team-building exercises: US edi...
Maintenance and bugs
More News
DMPTOOL HELP
Overview of how to use the tool, plus resources and guidance on data management.
Frequently Asked Questions
Create a DMP
Administer the DMPTool
Data management guidance
Community resources
View All

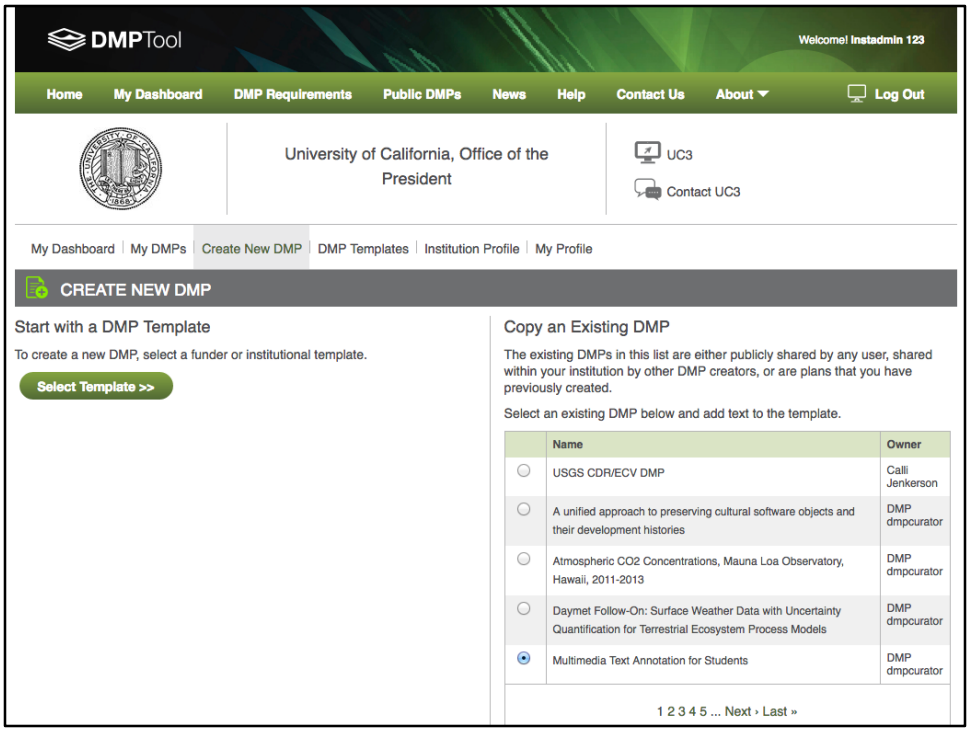


188 participating institutions now – implementing a search box because the list has gotten unwieldy


My Dashboard | My DMPs | Create New DMP | Review DMPs | DMP Templates | Customizations | Institution Profile | My Profile | DMP Administration
MY PROFILE
Personal Information
Notification Preferences
Please update your account information.
Name
* Username
Stephanie.Simms-ucop.edu@ucc
* First name
Stephanie
* Last name
Simms
Contact Information
* Email
Stephanie.Simms@ucop.edu
Institution
University of California, Office of the President
DMP Options
My Roles
DMP Administrator
Orcid
ORCID
orcid.org/0000-0001-9129-3790
Edit
Delete
API Token
My Token
63aec88d625b8d3e58f49fff87cec266
Generate New Token
Remove Token
Save
Cancel



Point to UCOP branding, logo, contact info


DMPTool
Welcome! Instadmin 123
Home
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DMP Requirements
Public DMPs
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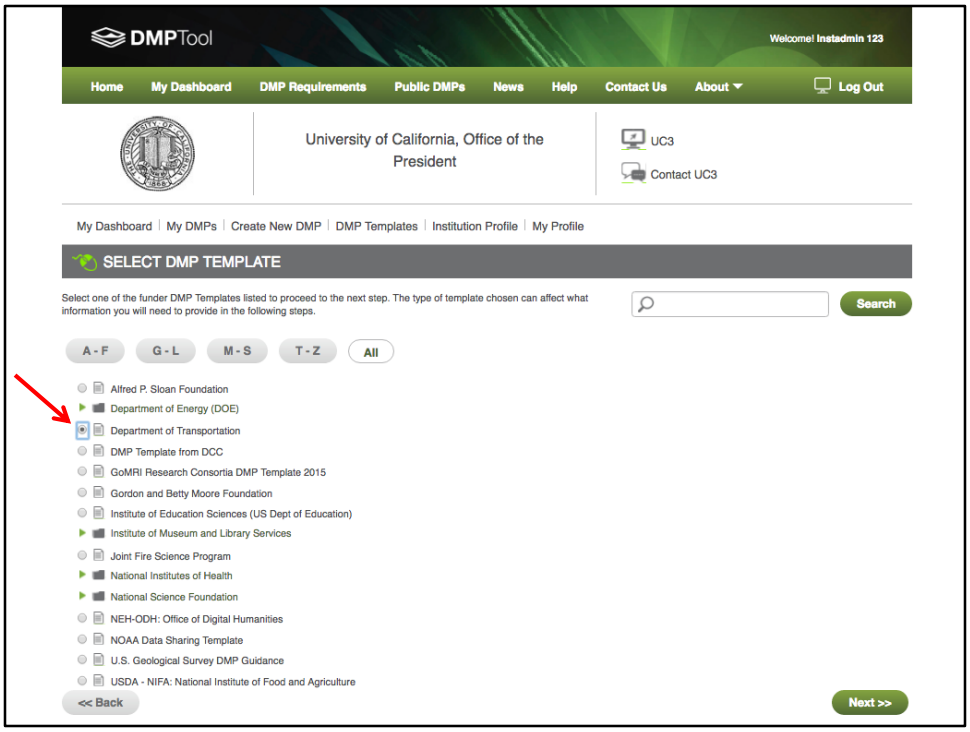
Contact Us
About
Log Out
University of California, Office of the President
UC3
Contact UC3
My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
CREATE NEW DMP
Start with a DMP Template
To create a new DMP, select a funder or institutional template.
Select Template >>
Copy an Existing DMP
The existing DMPs in this list are either publicly shared by any user, shared within your institution by other DMP creators, or are plans that you have previously created.
Select an existing DMP below and add text to the template.
Name
Owner
USGS CDR/ECV DMP
Calli Jenkerson
A unified approach to preserving cultural software objects and their development histories
DMP dmpcurator
Atmospheric CO2 Concentrations, Mauna Loa Observatory, Hawaii, 2011-2013
DMP dmpcurator
Daymet Follow-On: Surface Weather Data with Uncertainty Quantification for Terrestrial Ecosystem Process Models
DMP dmpcurator
Multimedia Text Annotation for Students
DMP dmpcurator
1 2 3 4 5 ... Next › Last »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About
Log Out
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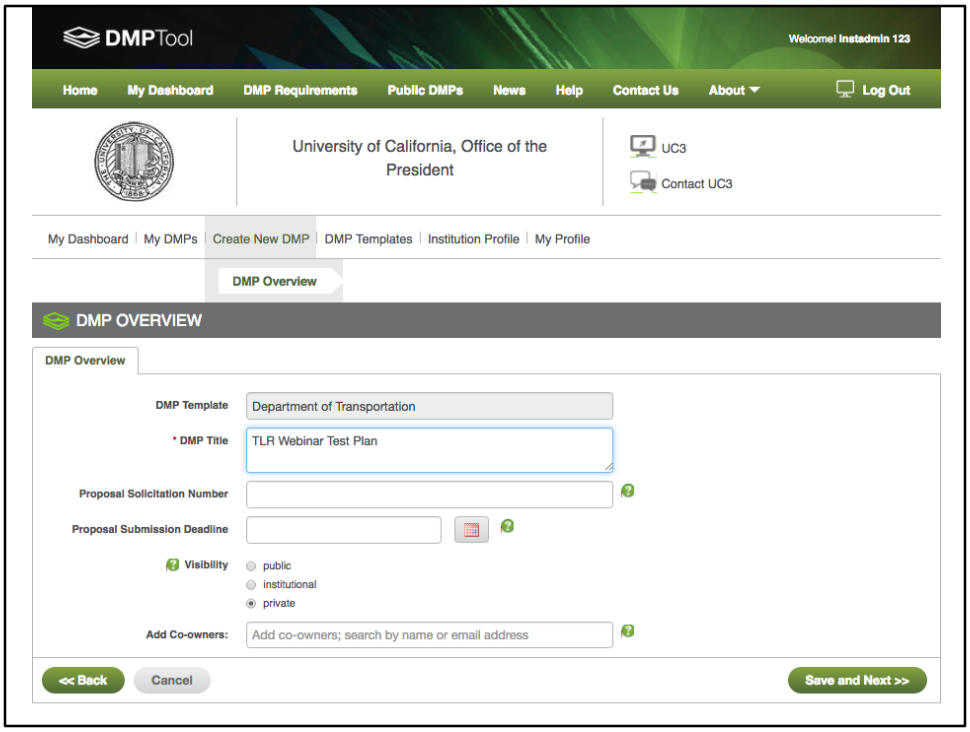
My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
SELECT DMP TEMPLATE
Select one of the funder DMP Templates listed to proceed to the next step. The type of template chosen can affect what information you will need to provide in the following steps.
Search
A - F
G - L
M - S
T - Z
All
Alfred P. Sloan Foundation
Department of Energy (DOE)
Department of Transportation
DMP Template from DCC
GoMRI Research Consortia DMP Template 2015
Gordon and Betty Moore Foundation
Institute of Education Sciences (US Dept of Education)
Institute of Museum and Library Services
Joint Fire Science Program
National Institutes of Health
National Science Foundation
NEH-ODH: Office of Digital Humanities
NOAA Data Sharing Template
U.S. Geological Survey DMP Guidance
USDA - NIFA: National Institute of Food and Agriculture
<< Back
Next >>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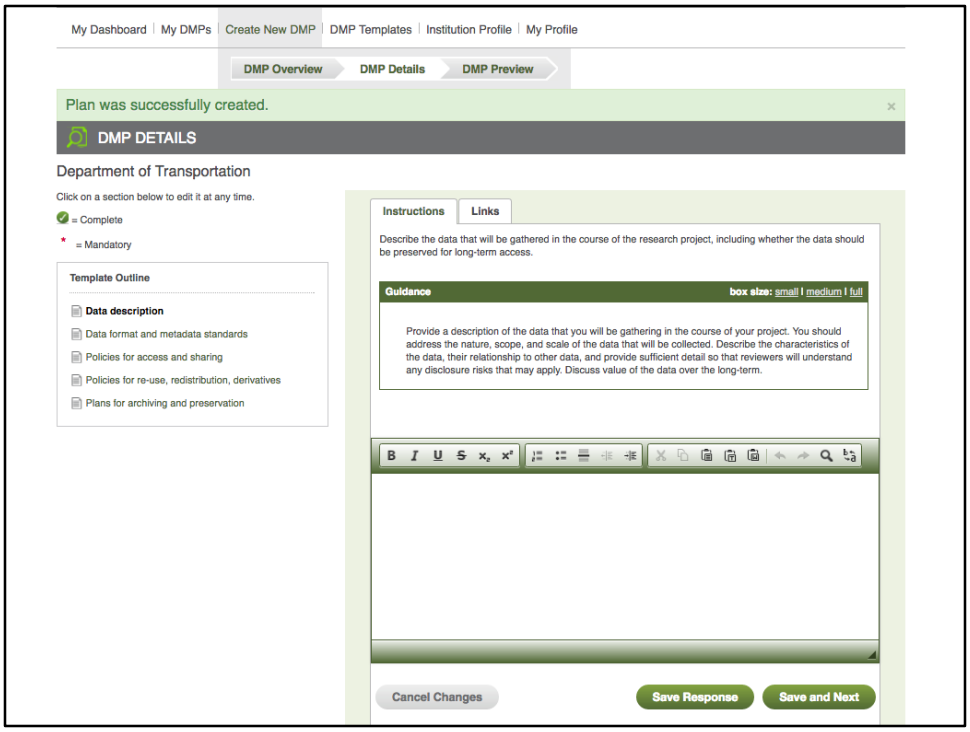
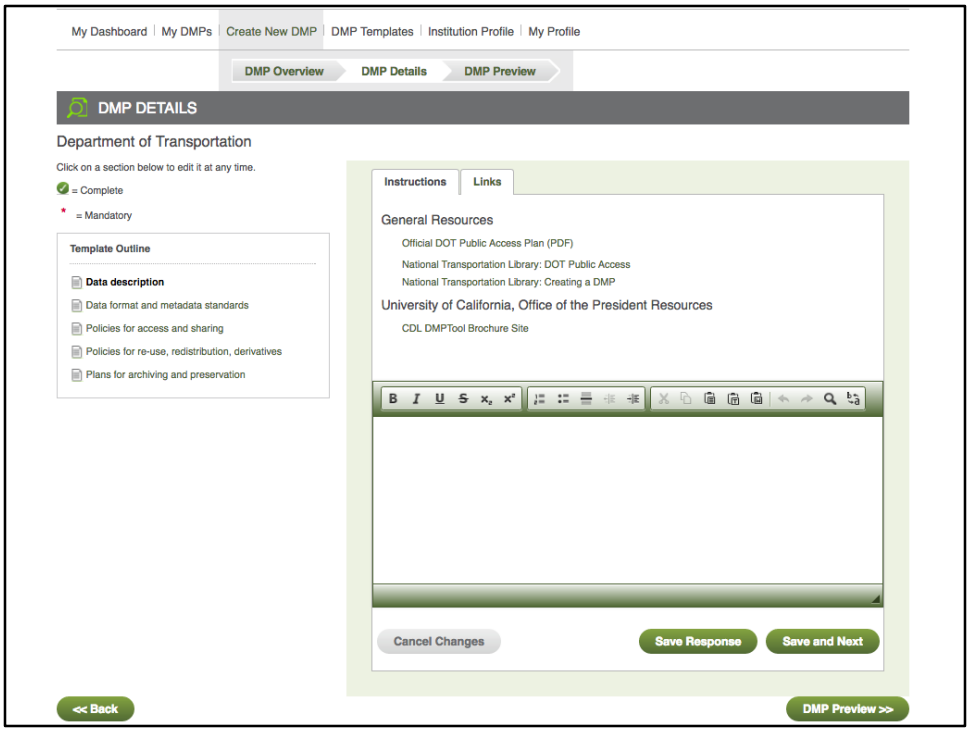
My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
DMP Overview
DMP OVERVIEW
DMP Overview
DMP Template
Department of Transportation
* DMP Title
TLR Webinar Test Plan
Proposal Solicitation Number
Proposal Submission Deadline
Visibility
public
institutional
private
Add Co-owners:
Add co-owners; search by name or email address
<< Back
Cancel
Save and Next >>


My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
DMP Overview
DMP Details
DMP Preview
Plan was successfully created.
DMP DETAILS
Department of Transportation
Click on a section below to edit it at any time.
= Complete
* = Mandatory
Template Outline
Data description
Data format and metadata standards
Policies for access and sharing
Policies for re-use, redistribution, derivatives
Plans for archiving and preservation
Instructions
Links
Describe the data that will be gathered in the course of the research project, including whether the data should be preserved for long-term access.
Guidance
box size: small | medium | full
Provide a description of the data that you will be gathering in the course of your project. You should address the nature, scope, and scale of the data that will be collected. Describe the characteristics of the data, their relationship to other data, and provide sufficient detail so that reviewers will understand any disclosure risks that may apply. Discuss value of the data over the long-term.
Cancel Changes
Save Response
Save and Next


My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
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DMP Details
DMP Preview
DMP DETAILS
Department of Transportation
Click on a section below to edit it at any time.
= Complete
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Template Outline
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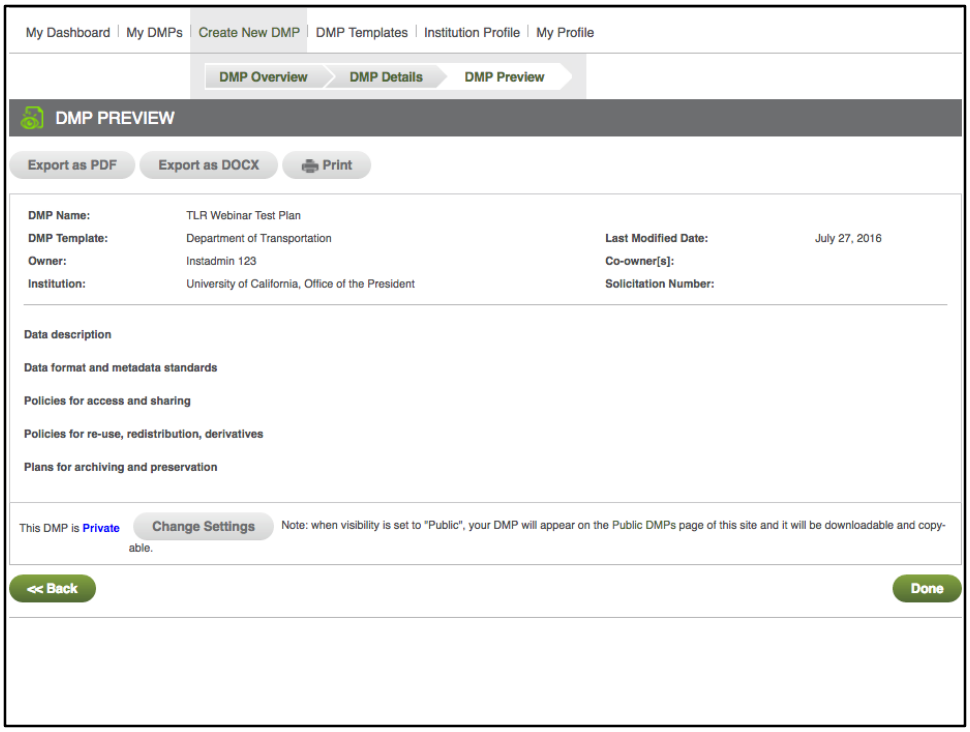
Policies for access and sharing
Policies for re-use, redistribution, derivatives
Plans for archiving and preservation
Instructions
Links
General Resources
Official DOT Public Access Plan (PDF)
National Transportation Library: DOT Public Access
National Transportation Library: Creating a DMP
University of California, Office of the President Resources
CDL DMPTool Brochure Site
Cancel Changes
Save Response
Save and Next
<< Back
DMP Preview >>


My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
DMP Overview
DMP Details
DMP Preview
DMP PREVIEW
Export as PDF
Export as DOCX
Print
DMP Name: TLR Webinar Test Plan
DMP Template: Department of Transportation
Owner: Instadmin 123
Institution: University of California, Office of the President
Last Modified Date: July 27, 2016
Co-owner[s]:
Solicitation Number:
Data description
Data format and metadata standards
Policies for access and sharing
Policies for re-use, redistribution, derivatives
Plans for archiving and preservation
This DMP is Private
Change Settings
Note: when visibility is set to "Public", your DMP will appear on the Public DMPs page of this site and it will be downloadable and copy-able.
<< Back
Done

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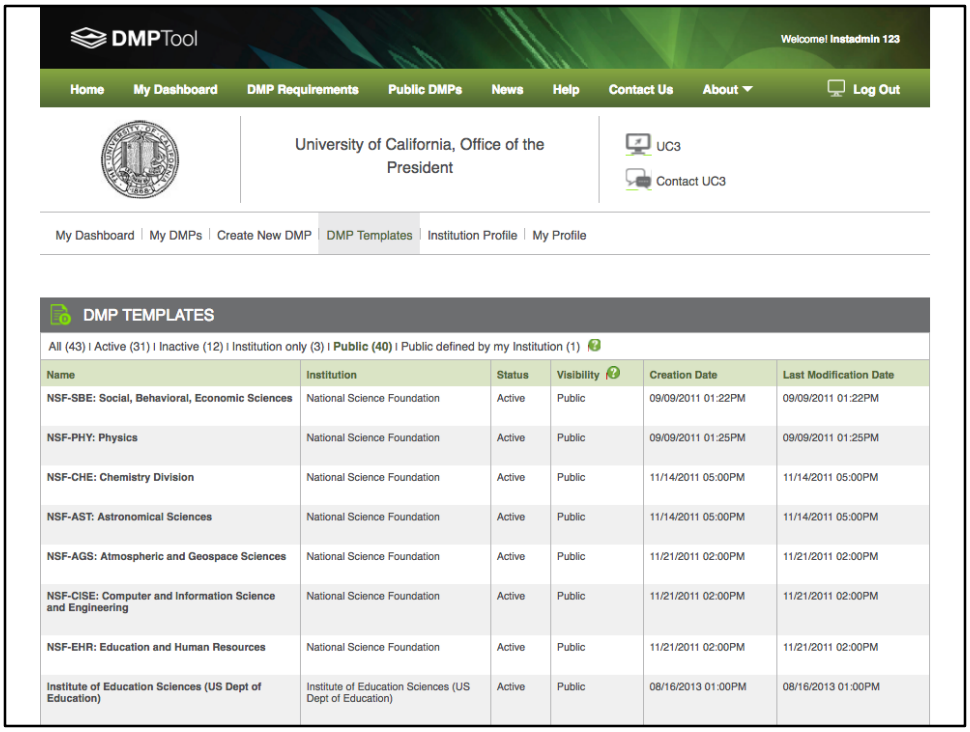
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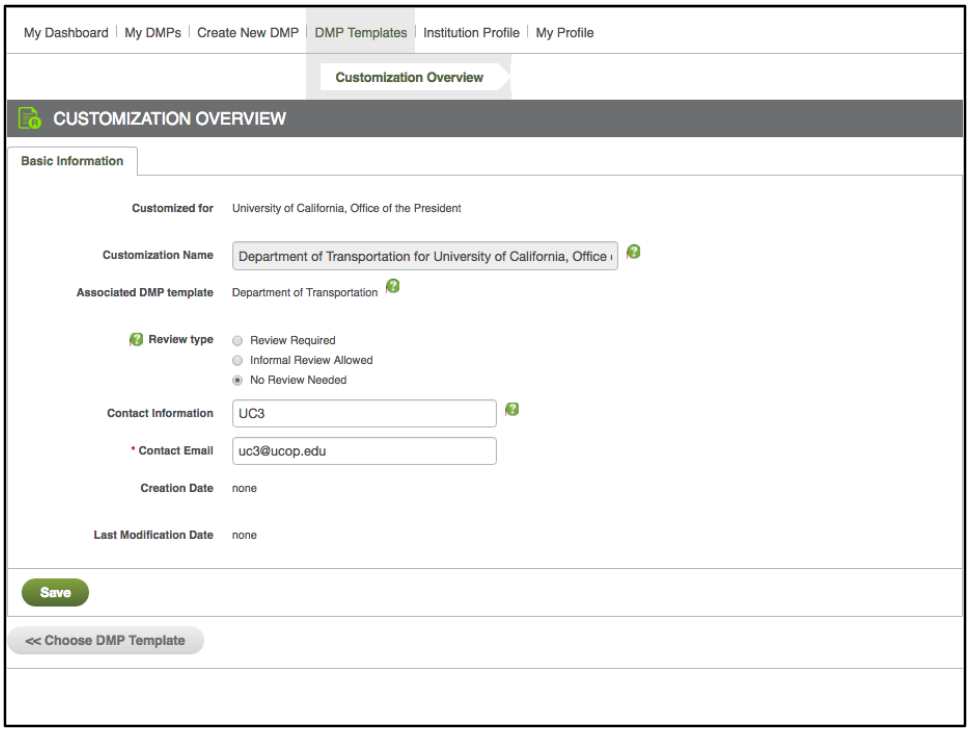
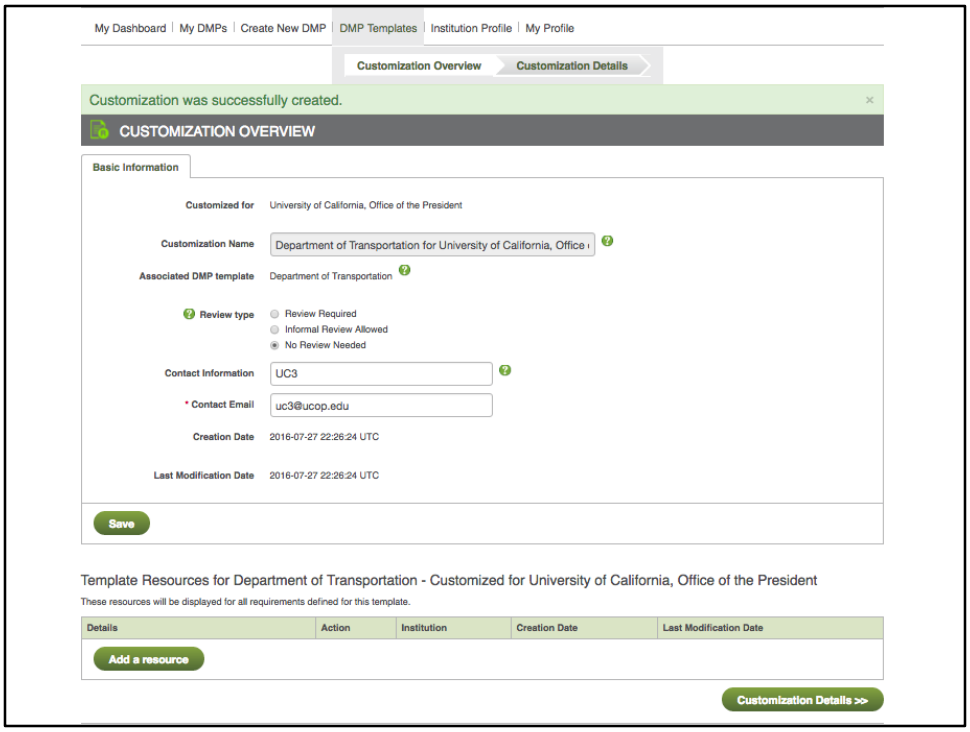
UC3
Contact UC3
My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
DMP TEMPLATES
All (43) | Active (31) | Inactive (12) | Institution only (3) | Public (40) | Public defined by my Institution (1)
Name
Institution
Status
Visibility
Creation Date
Last Modification Date
NSF-SBE: Social, Behavioral, Economic Sciences
National Science Foundation
Active
Public
09/09/2011 01:22PM
09/09/2011 01:22PM
NSF-PHY: Physics
National Science Foundation
Active
Public
09/09/2011 01:25PM
09/09/2011 01:25PM
NSF-CHE: Chemistry Division
National Science Foundation
Active
Public
11/14/2011 05:00PM
11/14/2011 05:00PM
NSF-AST: Astronomical Sciences
National Science Foundation
Active
Public
11/14/2011 05:00PM
11/14/2011 05:00PM
NSF-AGS: Atmospheric and Geospace Sciences
National Science Foundation
Active
Public
11/21/2011 02:00PM
11/21/2011 02:00PM
NSF-CISE: Computer and Information Science and Engineering
National Science Foundation
Active
Public
11/21/2011 02:00PM
11/21/2011 02:00PM
NSF-EHR: Education and Human Resources
National Science Foundation
Active
Public
11/21/2011 02:00PM
11/21/2011 02:00PM
Institute of Education Sciences (US Dept of Education)
Institute of Education Sciences (US Dept of Education)
Active
Public
08/16/2013 01:00PM
08/16/2013 01:00PM

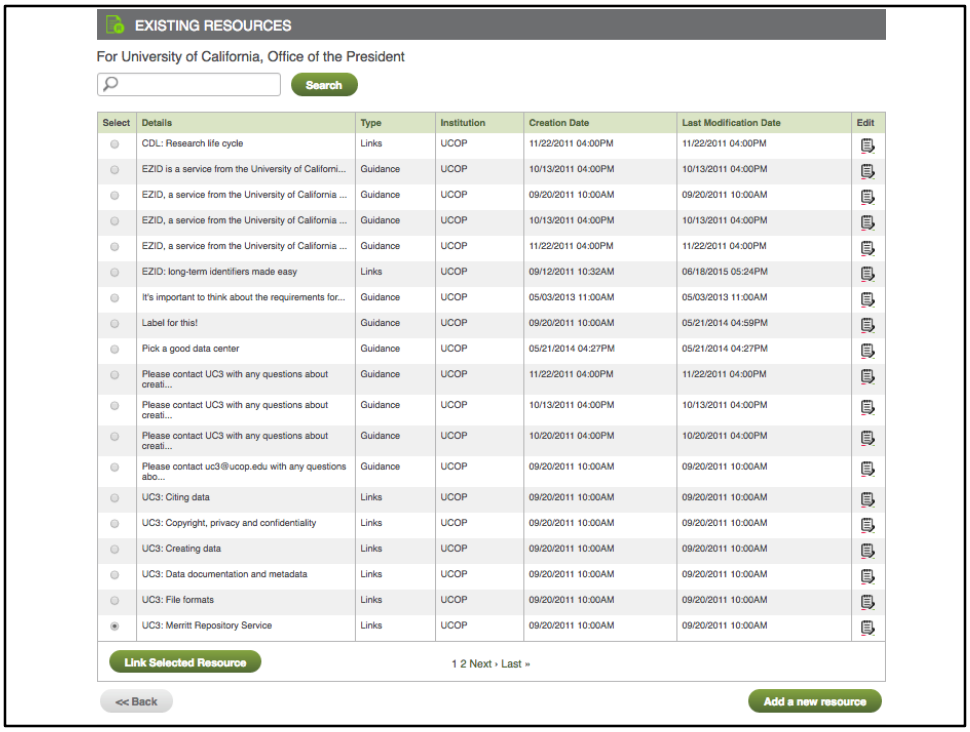
Department of Energy: Generic	Department of Energy (DOE)	Active	Public	09/24/2015 02:16PM	09/24/2015 03:21PM
Testilomake	University of Helsinki, Finland	Inactive	Public	10/08/2015 11:39AM	10/08/2015 11:42AM
NSF-BIO: Biological Sciences (2015-)	National Science Foundation	Active	Public	10/20/2015 06:15PM	10/26/2015 05:56PM
NSF-BIO: Biological Sciences (2013- 2015) OBSOLETE--USE MORE RECENT VERSION	Non Partner Institution	Inactive	Public	05/02/2013 04:00PM	10/26/2015 05:57PM
Copy of U.S. Geological Survey DMP Guidance	U.S. Geological Survey	Inactive	Public	11/24/2015 11:29PM	11/24/2015 11:37PM
NSF-GEN: Generic	National Science Foundation	Active	Public	08/01/2011 02:33PM	12/08/2015 10:28PM
NSF-DMR: Materials Research	National Science Foundation	Active	Public	09/09/2011 01:19PM	12/09/2015 10:05PM
NEH-ODH: Office of Digital Humanities	National Endowment for the Humanities	Active	Public	10/14/2011 09:09AM	01/15/2016 12:22AM
U.S. Geological Survey DMP Guidance	U.S. Geological Survey	Active	Public	06/19/2014 02:01PM	04/25/2016 02:26PM
Department of Transportation Customize	Department of Transportation (DOT)	Active	Public	12/07/2015 05:36PM	07/25/2016 07:08PM

View Less

Create New Template >>


My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
Customization Overview
CUSTOMIZATION OVERVIEW
Basic Information
Customized for
University of California, Office of the President
Customization Name
Department of Transportation for University of California, Office
Associated DMP template
Department of Transportation
Review type
Review Required
Informal Review Allowed
No Review Needed
Contact Information
UC3
* Contact Email
uc3@ucop.edu
Creation Date
none
Last Modification Date
none
Save
<< Choose DMP Template


My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
Customization Overview
Customization Details
Customization was successfully created.
CUSTOMIZATION OVERVIEW
Basic Information
Customized for
University of California, Office of the President
Customization Name
Department of Transportation for University of California, Office
Associated DMP template
Department of Transportation
Review type
Review Required
Informal Review Allowed
No Review Needed
Contact Information
UC3
* Contact Email
uc3@ucop.edu
Creation Date
2016-07-27 22:26:24 UTC
Last Modification Date
2016-07-27 22:26:24 UTC
Save
Template Resources for Department of Transportation - Customized for University of California, Office of the President
These resources will be displayed for all requirements defined for this template.
Details
Action
Institution
Creation Date
Last Modification Date
Add a resource
Customization Details >>


EXISTING RESOURCES
For University of California, Office of the President
Search
Select
Details
Type
Institution
Creation Date
Last Modification Date
Edit
CDL: Research life cycle
Links
UCOP
11/22/2011 04:00PM
11/22/2011 04:00PM
EZID is a service from the University of Californi...
Guidance
UCOP
10/13/2011 04:00PM
10/13/2011 04:00PM
EZID, a service from the University of California ...
Guidance
UCOP
09/20/2011 10:00AM
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EZID, a service from the University of California ...
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EZID, a service from the University of California ...
Guidance
UCOP
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11/22/2011 04:00PM
EZID: long-term identifiers made easy
Links
UCOP
09/12/2011 10:32AM
06/18/2015 05:24PM
It's important to think about the requirements for...
Guidance
UCOP
05/03/2013 11:00AM
05/03/2013 11:00AM
Label for this!
Guidance
UCOP
09/20/2011 10:00AM
05/21/2014 04:59PM
Pick a good data center
Guidance
UCOP
05/21/2014 04:27PM
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Please contact UC3 with any questions about creati...
Guidance
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Guidance
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UC3: Citing data
Links
UCOP
09/20/2011 10:00AM
09/20/2011 10:00AM
UC3: Copyright, privacy and confidentiality
Links
UCOP
09/20/2011 10:00AM
09/20/2011 10:00AM
UC3: Creating data
Links
UCOP
09/20/2011 10:00AM
09/20/2011 10:00AM
UC3: Data documentation and metadata
Links
UCOP
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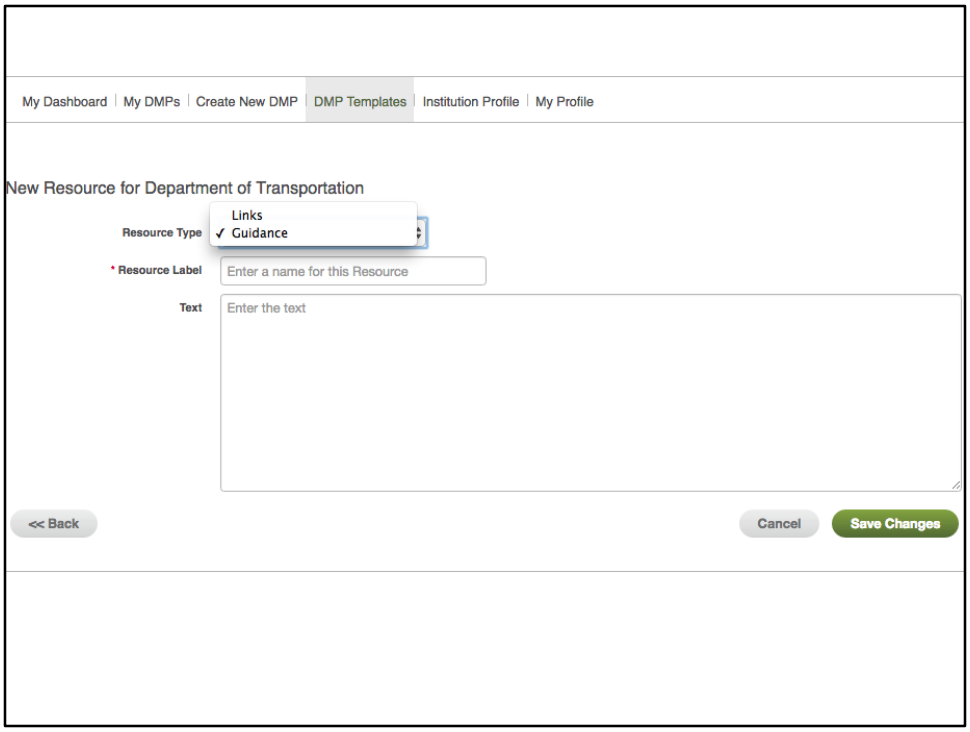
09/20/2011 10:00AM
UC3: File formats
Links
UCOP
09/20/2011 10:00AM
09/20/2011 10:00AM
UC3: Merritt Repository Service
Links
UCOP
09/20/2011 10:00AM
09/20/2011 10:00AM
Link Selected Resource
1 2 Next › Last »
<< Back
Add a new resource


My Dashboard | My DMPs | Create New DMP | DMP Templates | Institution Profile | My Profile
New Resource for Department of Transportation
Resource Type
Links
✓ Guidance
* Resource Label
Enter a name for this Resource
Text
Enter the text
<< Back
Cancel
Save Changes

Roadmap

DMPs: a brief history

What is the DMPTool?

DMPTool resources

Using the DOT template

Customizing the template

DMP evaluation rubric

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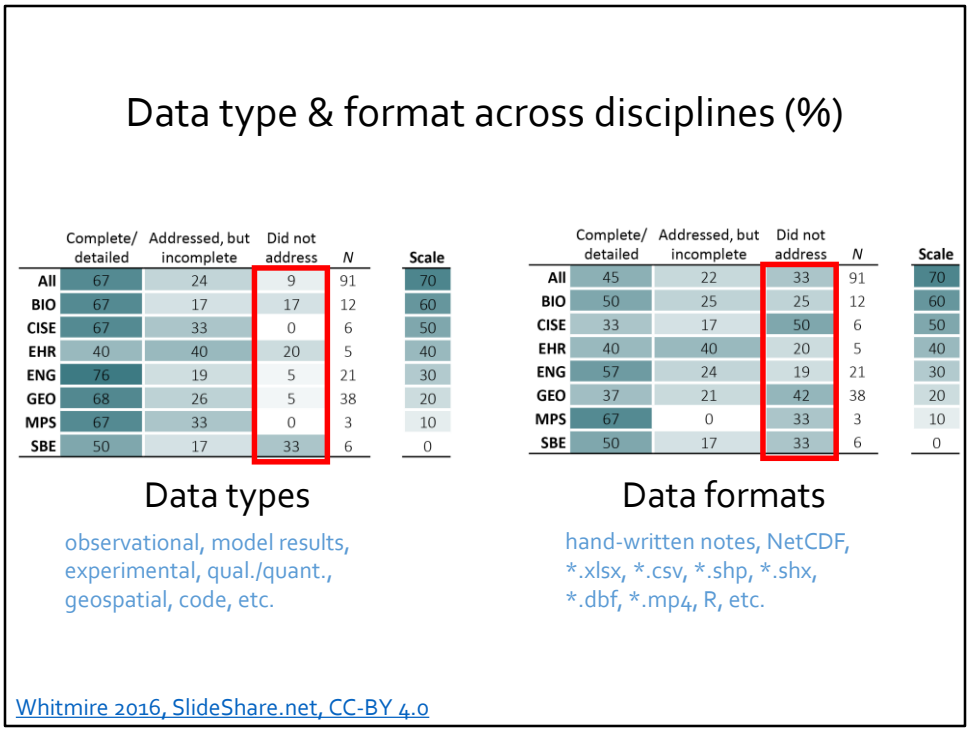
DART: Data Management Plans as a Research Tool

- Data librarians from 5 institutions analyzed 100 NSF DMPs each (n = 500)
- Study to inform research data services
- Analytic rubric to standardize review of DMPs
  - 1 – Complete/detailed
  - 2 – Addressed issue, but incomplete
  - 3 – Did not address the issue

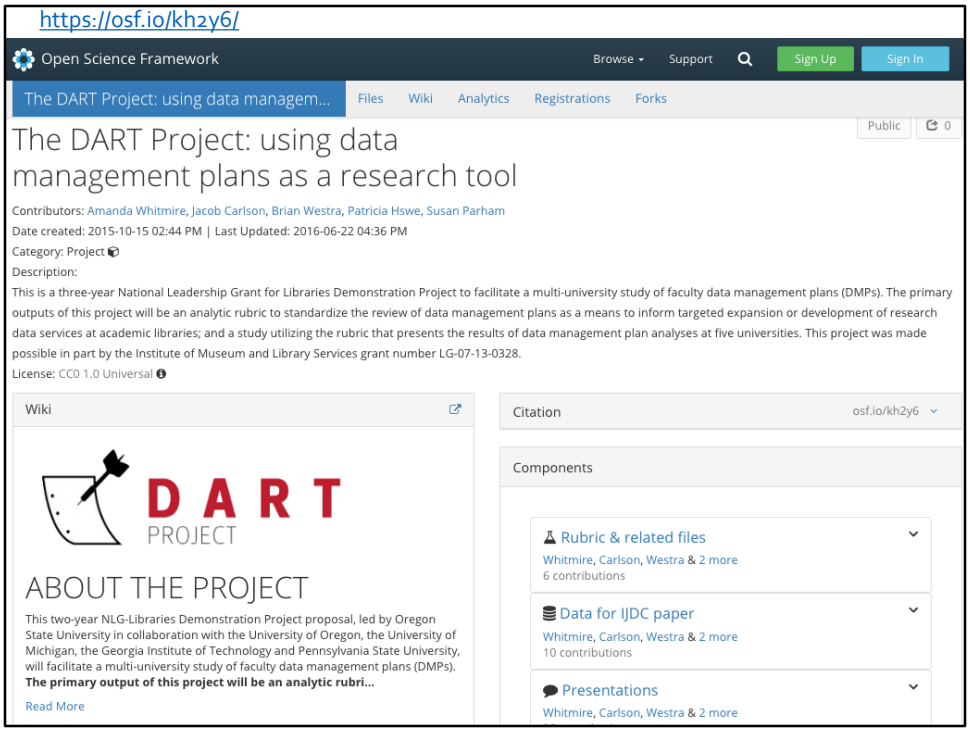
-DMPs are useful sources of info about researcher knowledge, capabilities, practices and needs
-issue of obtaining DMPs from Offices of Research at each institution > need to make DMPs OPEN and available for studies like this

Informed development of research data services at their institutions
Goal: a tool for consistent and robust analysis of DMPs



The difference between data type and data format is often misunderstood, or not recognized as being different. “Data type” is descriptive; it describes what the data is, how it was collected or created, etc. ”Data format” is how the data is encoded (mostly digitally, but format can be “handwritten”).

The most striking thing to me about the difference between how well researchers addressed describing data types vs. data formats is in the “did not address” column. In my experience reading through so many DMPs, my impression is that when researchers ignore an aspect of the DMP guidance, it’s because they don’t understand it. There’s no way for me to confirm that, but the things they they don’t address seem to be concepts that are newer to them: policies for reuse, metadata standards, etc. So this tells me that researchers don’t really know what “data format” is. How does this help inform data services? As curators, we know how important data formats are in improving chances for long-term accessibility, and this result tells me that data format is a topic that I may need to mention even if a researcher doesn’t ask.



Study materials, rubric, presentations available on the OSF
-used Qualtrics software to develop and conduct the survey; learn about their methods and other findings

Website	dmptool.org
Twitter	@TheDMPTool
Blog	blog.dmptool.org
Email	uc3@ucop.edu
Slides	slideshare.net/stephaniesimms

Trisha