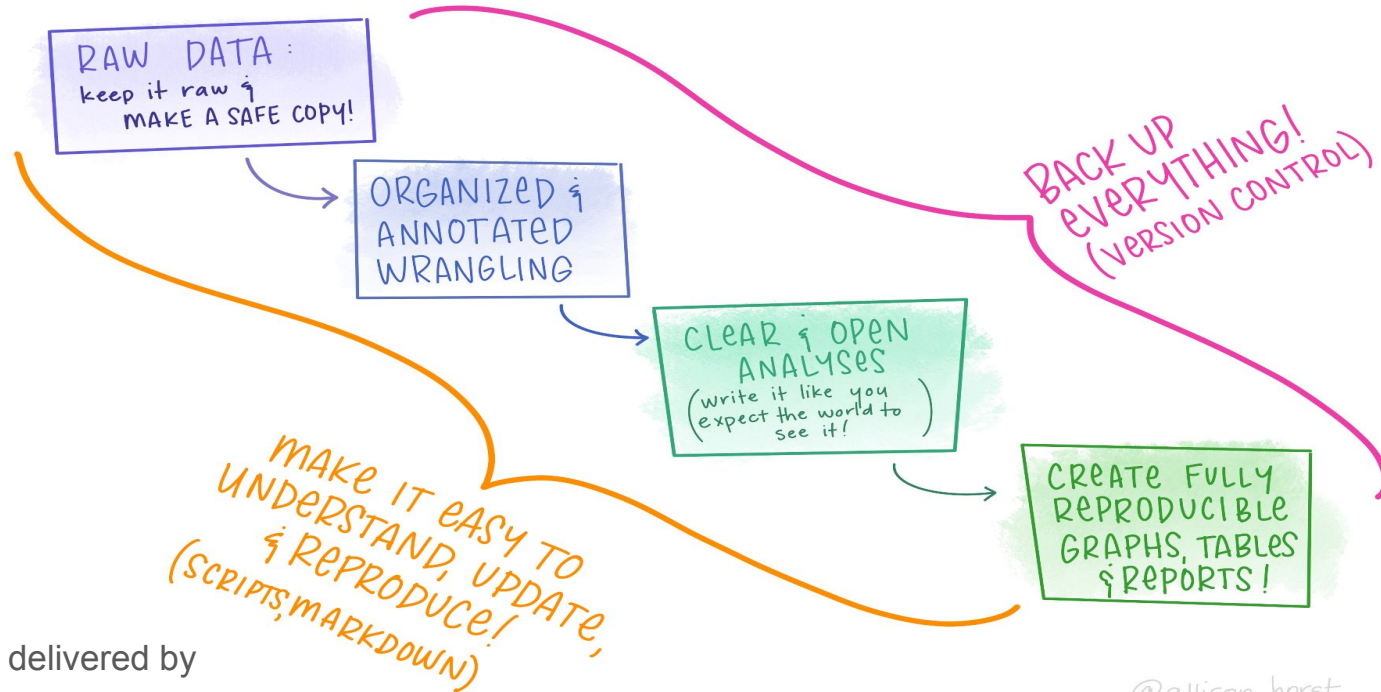


EPSCOR Fire & Ice 2023







State of the Data



Data governance goal, in short

1. Each PI should have a Research Workspace account setup
2. Each 'Collection Effort' should have a data management plan (one plan can name multiple efforts)
 - These DMPs should include expected timeframe
3. Within 6 months of identified field season, preliminary files are in the RW, and preliminary metadata are started
4. Within 12 months, datasets are finalized, metadata are finalized and imported to EPSCoR metadata catalog
 - This is a good time to identify particular data visualization products for the portal
5. Within 18 months of the end of field season, Data and Metadata and finalized post Axiom review, these data will be published to the portal, and archived with DataONE, where a DOI is minted
 - So that's a 18 month embargo

Jargon busting

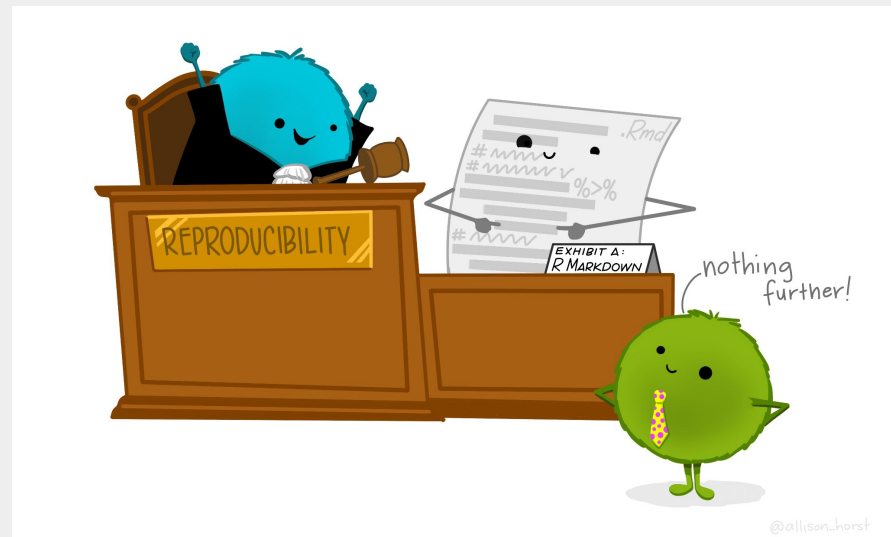
Portal 	A portal is an organized, searchable tool for finding data and metadata. Typically a portal allows users to perform in-portal data analysis and data visualization such as through a web browser. The portal includes a catalog and a map.
Published 	Any data that is available for download in the Fire & Ice portal is considered published data. These data files are assumed to have been reviewed for completeness and accuracy (QA/QC) by their contributor (e.g. project PI), authorized for publication through a written agreement, and described by an ISO-compliant metadata record. Note that metadata for data files that are currently under embargo may be displayed in the Fire & Ice data portal, though data files themselves will not be available for download until the embargo period ends.
Archived 	Final data and data products are stored in a data repository for long-term preservation. Versioning possible.
Metadata 	Metadata is the data about the data, and describes the data temporally, geographically, data collection and analytical methods, and data contributors in detail. The record in RW is a gray 4 box icon next to a folder name. 
Research Workspace (RW) 	A secure, web-based data management tool used to store and share Fire & Ice data and other associated information for exclusive access by Fire & Ice PIs and their designated collaborators.

[Full Data Governance Document Linked](#)

Status Report

“State of the data”

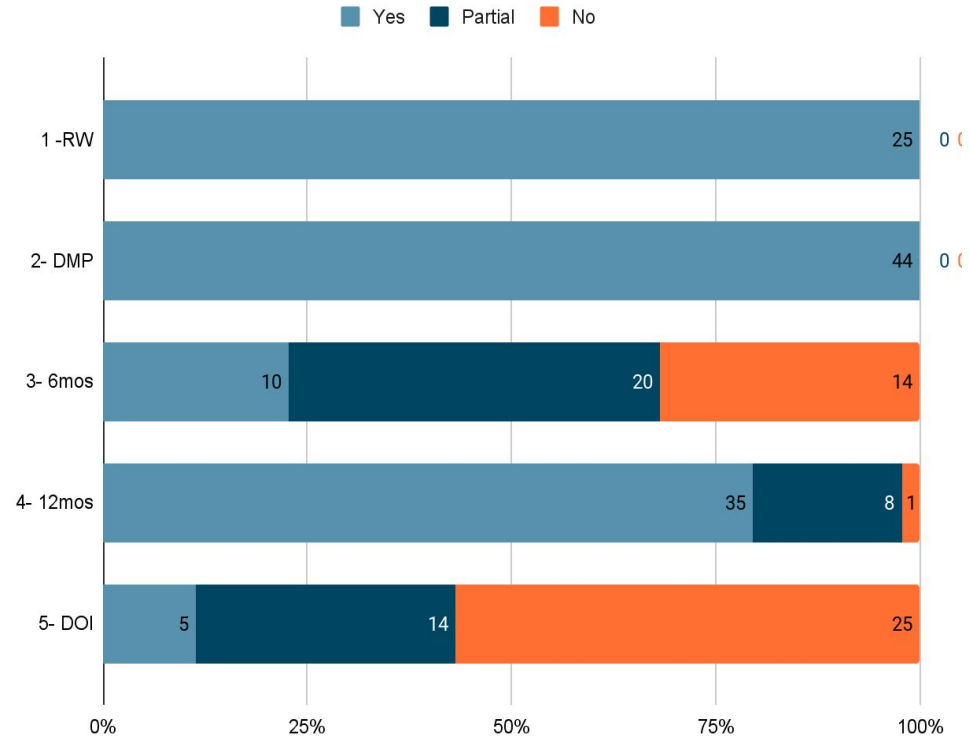
Updated January 2023



The 'rubric' - ideal state

1. A RW account for all EPSCoR PIs
2. A DMP for each data collection effort/project
3. Preliminary data and metadata uploaded within 6 months
4. Finalized data and metadata uploaded within 12 months
5. Data are archived with DOI minted

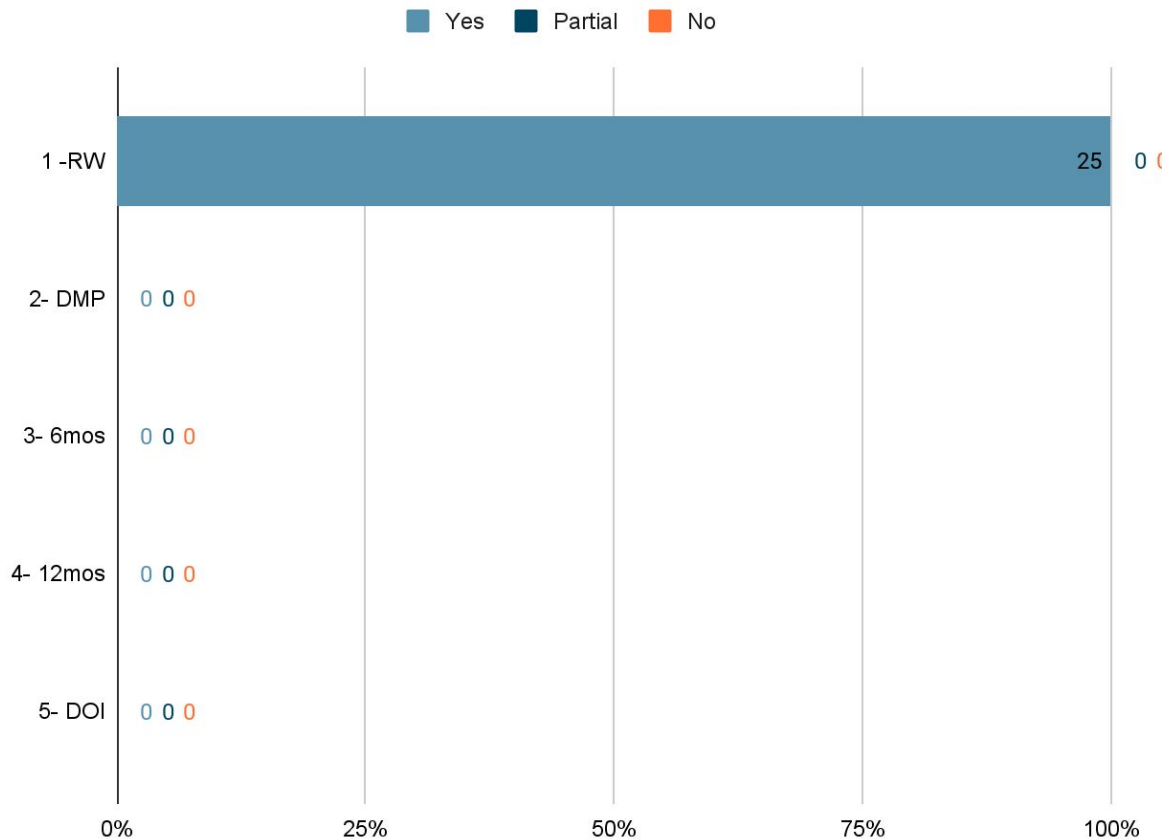
Ideal State of the Data February 2023



State of the Data Feb 2023

1. A RW account

As a best guess, let's go with +/- a few people. I also know there are new people, particularly students, joining frequently.

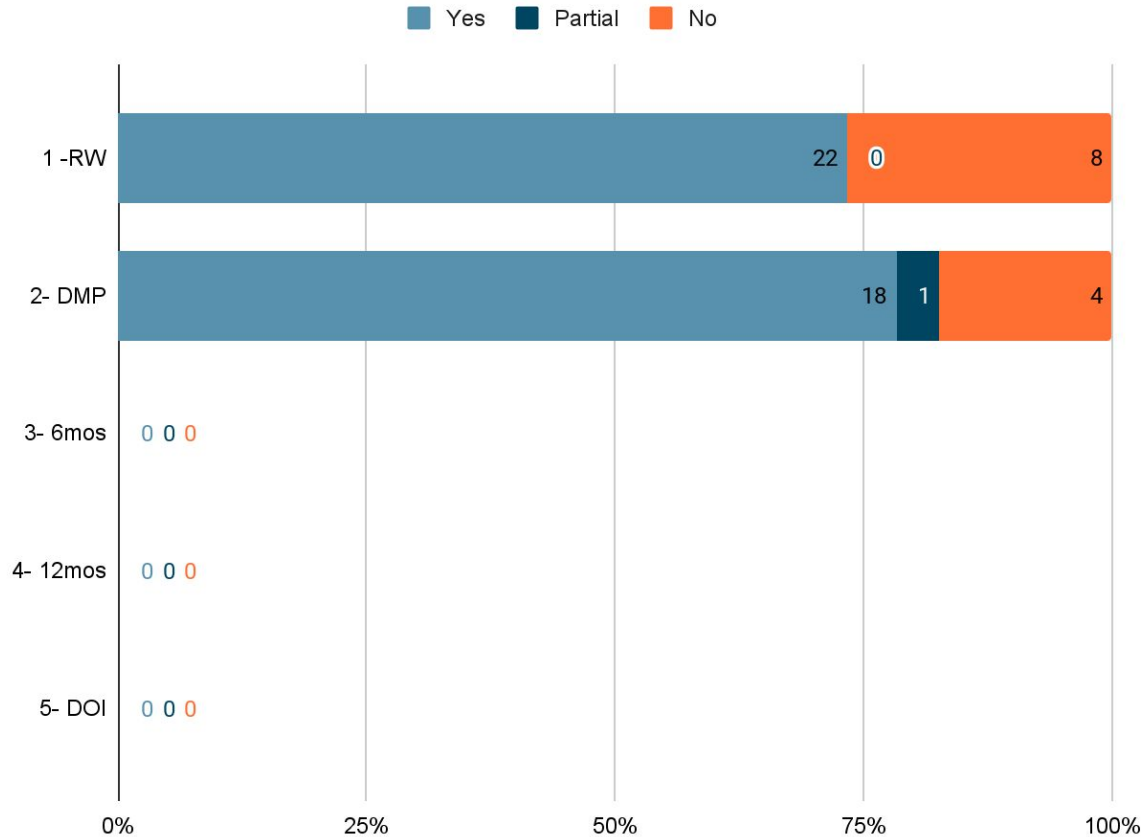


2. A DMP for each data collection effort

This does not include DEW projects, SEED Grant, which may or may not opt to create a DMP and archive data products with us.



State of the Data Feb 2023



3. Preliminary data available

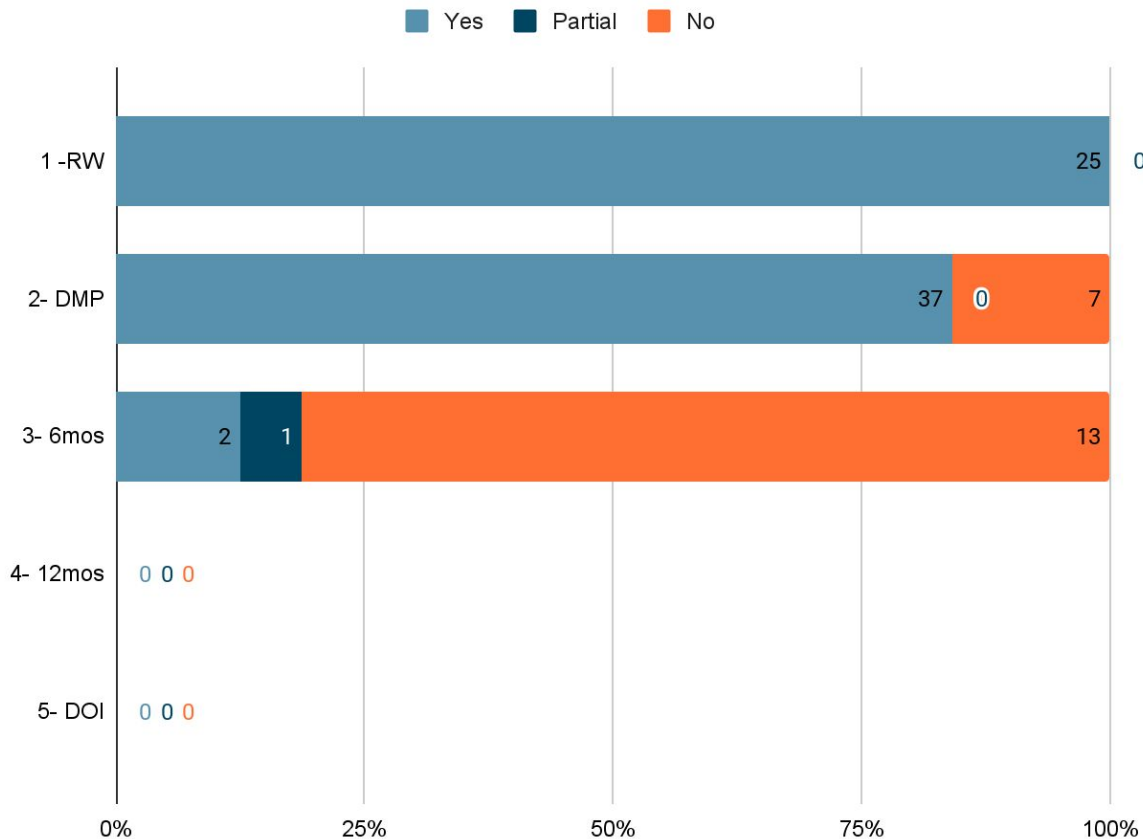
If the 6 months from field season has been met. For our 'yearly' kind of schedule, this essentially refers to 2020 data, more recent.

For a dataset with data but no metadata, this was counted as 'Partial'.

For a dataset that is expecting one data product, of 5 years data together, 'no' is given if there are not yearly uploads but they are expected/unknown.



State of the Data Feb 2023



4. Finalized data available

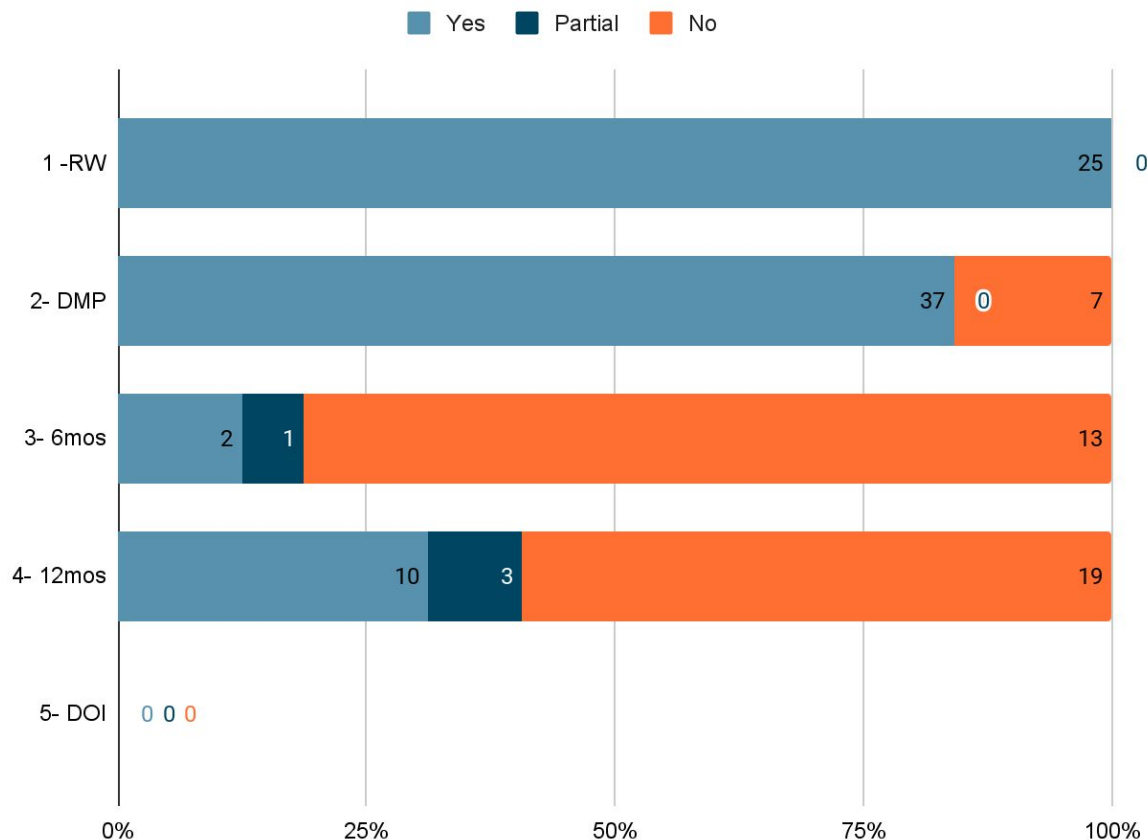
If the 12 months from field season has been met. For our 'yearly' kind of schedule, this essentially refers to 2019 data.

Projects with data but not metadata were 'Partial' credit.

These numbers do NOT exclude the most recently added datasets, that may not have met the 6 month requirements either. So there's a growth curve in number of datasets that need finalization. Therefore we expect this to be a more 'No' column.



State of the Data Feb 2023



5. Data archived with DOI minted

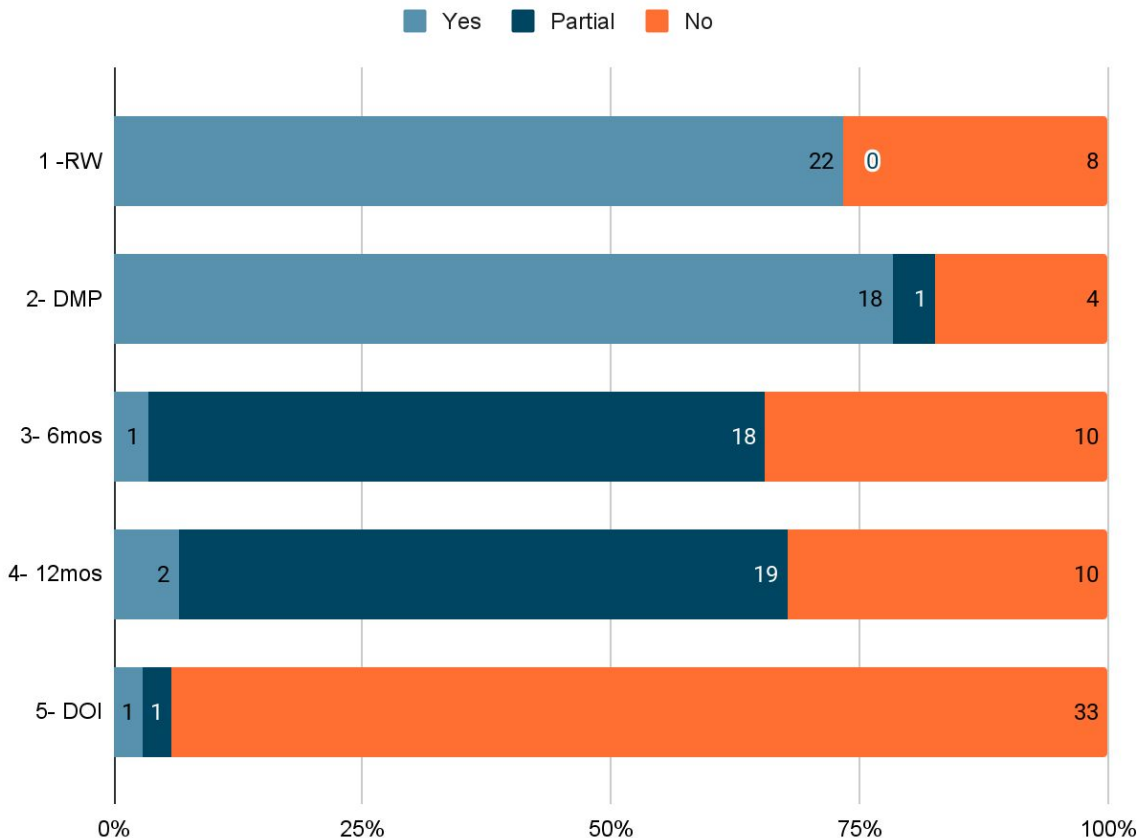
Again, the numbers compound.

So it's not unexpected to see a large 'No' percentage, because the 2019 and 2020 year datasets are not all going to be ready for release from embargo.

But the goal is to have any that have completed the 12 month check mark, count as 'Partial' in the DOI column.



State of the Data Feb 2023

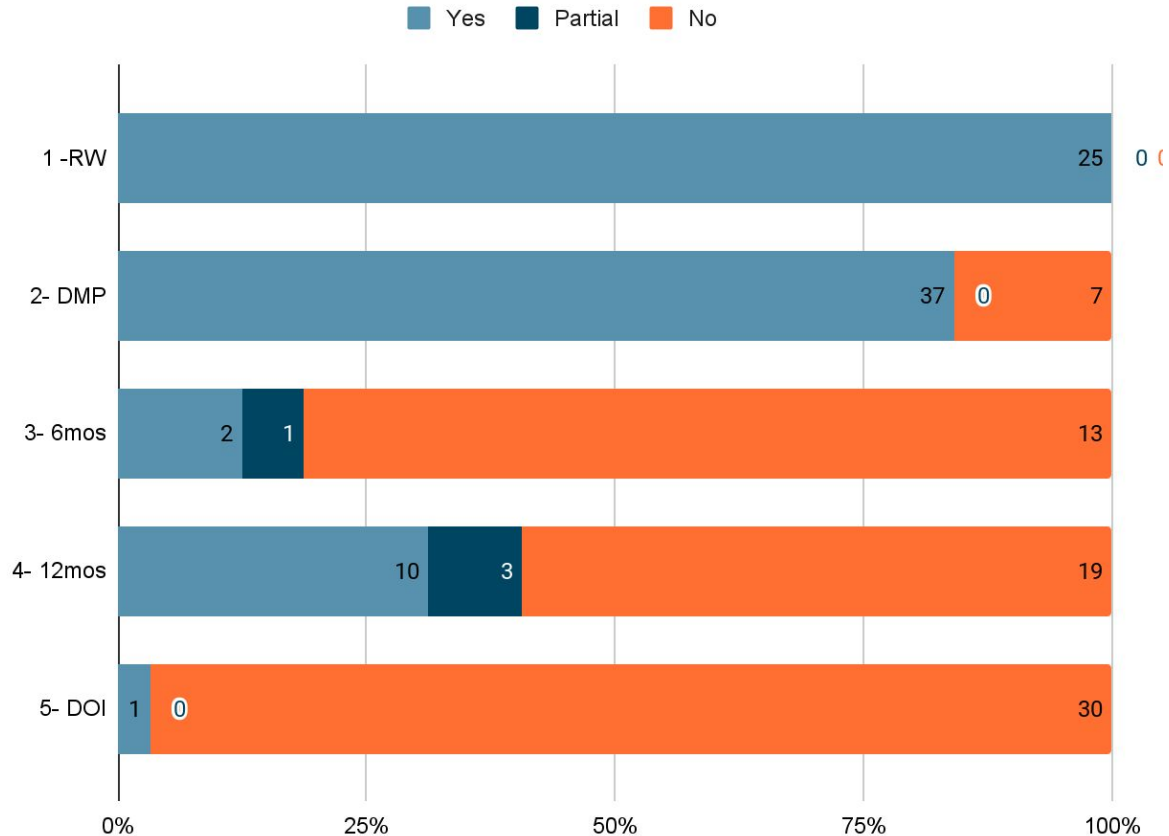


State of the Data Feb 2023

To summarize

We made great progress!

The 6 month and 12 month milestones are not helping us, it may be worth planning different milestones in future data governance frameworks.



A peak behind Adrienne's data coordinator curtain

The spreadsheet is looking way more full, hooray!

The 44 data collection efforts listed on the spreadsheet shared with PIs for data tracking is the base for these comparisons

EPSCoR F&I main data inventory 2019-2023

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	A	B	D	H	I	M	N	O	P	Q	R	S	T	U	Y	W	Z	AA
1	Collection effort	Coastal or Boreal	Workspace project link	DMP	2019 data in RW	2019 Metadata in RW	2020 data in RW	2020 Metadata in the RW	2021 data in RW	2021 Metadata in the RW	2022 data in RW	2022 Metadata in the RW	2023 data in RW	2023 Metadata in the RW	Data in the portal	DOI	Collection d	
6	Estuary color data	Coastal Margin	https://researchworkspace.com/projects/6615711/files	Y	N/A	N/A	N/A	N/A	unknown	N/A	unknown	N/A	unknown	N/A	N		after 2020 pr	
7	Curriculum Development	DEW	N/A data will not be shared	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
8	Indigenous Science Workshop	DEW	N/A data will not be shared	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
9	Science Identity Study	DEW	N/A data will not be shared	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
10	Science Identity Survey	DEW	N/A data will not be shared	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
11	Systems Thinking work	DEW	N/A data will not be shared	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
12	Emerging Anthropogenic Influences on the Southcentral Alaska Temperature and Precipitation Extremes related to fires in 2023	Boreal Fire	https://researchworkspace.com/projects/7260146/files	N	Y	Y	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Partially		completed w	
13	Student centered leadership for a newly established ocean science degree mentoring program in Cook Inlet, Alaska	Seed grant	https://researchworkspace.com/projects/754782/files	N	Y	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
14	The Emergence of Striped Whitefish Complexes	Seed grant	https://researchworkspace.com/projects/7580146/files	N	Y	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N			
15	Hyperspectral	Coastal Margin	https://researchworkspace.com/projects/7580146/files	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			
21	Bronze Creek LTER Imagery	Boreal Fire	https://researchworkspace.com/projects/7580146/files	Y	N	N	N	N	unknown	unknown	unknown	unknown	unknown	unknown	N		Aug 2019 - F	
16	Hyperspectral data to biomass, moisture content, fuel condition	Boreal Fire	https://researchworkspace.com/projects/7580146/files	Y	N	N	N	N	unknown	unknown	unknown	unknown	unknown	unknown	N		Sum 2019, S	
17	8-B essential geochemistry data	Coastal Margin	https://researchworkspace.com/projects/7580146/files	Y	Y	N	Partial	N	planned	planned	planned	planned	planned	N; embargoed			March 2019	
18	1-C essential geochemistry data	Coastal Margin	https://researchworkspace.com/projects/7580146/files	Y	Y	Y	Y	Y	planned	planned	planned	planned	planned	N; embargoed			2019 - 2022	
19	Drone for hyperspectral in McKinley & Montana	Boreal Fire	https://researchworkspace.com/projects/7580146/files	N	N	N	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
20	Season to season forecasts for the weather predictions	Boreal Fire	https://researchworkspace.com/projects/7580146/files	N	N	N	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
21	Fire Survey data	Boreal Fire	https://researchworkspace.com/projects/6333	N	N/A	N/A	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
22	Fuel treatment & ecosystem	Boreal Fire	https://researchworkspace.com/projects/6333	N	N	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A				
23	Ponds Treatment Management Data	Boreal Fire	https://researchworkspace.com/projects/6322	N	N/A	N/A	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown			n/a pre-exist	
24	Household survey data related to fire	Boreal Fire	https://researchworkspace.com/projects/651	N	N	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
25	Moose hunting and boreal fires	Boreal Fire	https://researchworkspace.com/projects/651	N	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
26	Public Wildfire Data	Boreal Fire	https://researchworkspace.com/projects/6333	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
27	Burn severity for Shovel and Nugget Creek fires	Boreal Fire	https://researchworkspace.com/projects/652	Y	Y	N	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				
28	Estuary microbial / algal community data	Coastal Margin	https://researchworkspace.com/projects/5353	Y	Y	Y	unknown	unknown	unknown	unknown	unknown	unknown	unknown	unknown				

summary data



So, what next? 2023 version

- Metadata
 - Start writing READMEs and metadata
 - Sign into research workspace and make the folder structure or uploads necessary
- If there are targeted publications, review their article/ data requirements
- Contact Adrienne (Data Coordinator)- E-mail: adrienne@axiomdatascience.com
- Contact Karina (Project Manager) - E-mail: karina@axiomdatascience.com



References and resources

- **EPSCoR Fire and Ice Data Governance Guidelines:**
https://docs.google.com/document/d/15atFkD_nszZ31aHretLdouqclmDQTGOF8X-0MmXdyAM/edit?usp=sharing
- YouTube playlist with short clips on the Research Workspace:
https://www.youtube.com/playlist?list=PLk6IIYH-l4WCLSqVbXhZkO_aUx7kwvndC
- Help docs for Research Workspace, including tutorials: <https://researchworkspace.com/help/>
- **Data Management Workshop 2021 Slidedeck:** <https://bit.ly/3ELGQFP>
- Introduction to Data Management Best Practices:
<https://www.axiomdatascience.com/best-practices/DataManagementBestPractices.html>
- Metadata Best Practices:
<https://www.axiomdatascience.com/best-practices/MetadataBestPractices.html#metadata-best-practices>
- UAF OGCA Data Management Plans and Data Sharing details:
<https://www.uaf.edu/ogca/lifecycle/3-develop/data-management-plans-and/>