

Water Resources Mission Area Integrated Data and Tools Catalog

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THE PROBLEM

The WMA does not have a formalized method to share and discover resources (datasets, tools, etc.) in use or in development by WMA projects. As a result, data management coordination between active projects is handled through ad-hoc means that requires a large investment of time. These ad-hoc approaches lead to redundancy and may be challenging to maintain in the long run.

WHAT IS THE CATALOG?

The catalog is a place to share and discover the data and tools that projects in WMA are developing or using as inputs to their project work. This information is stored in one cohesive information base that can be searched and filtered to serve a variety of data management and project planning needs.

The catalog is comprised of 3 resource types:



Datasets

observed and modeled data



Tools

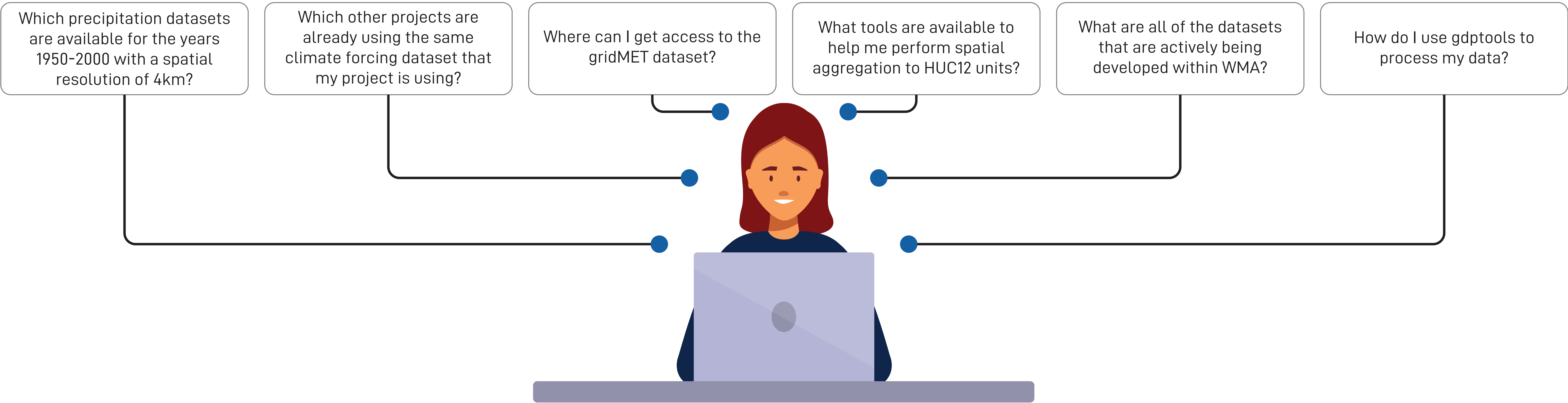
software and workflows



Use Cases

demos of datasets and tools

Some examples of the types of questions you could ask of the catalog (once fully operational) include:



WHAT ELSE CAN YOU DO WITH THE CATALOG?



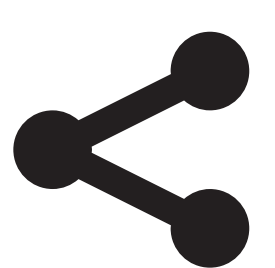
Discover new assets to be used for project work



Share new information products



Promote better data management



Increase coordination among WMA projects

THE APPROACH

The NHGF project have built just enough to test the need and functionality of the catalog. Usability studies and interviews have informed our

Concept of the catalog developed, static visual only

purpose: socialize idea

Simple web interface, collection of csvs

purpose: users could interact, projects contribute content as example, facilitate discussion as tool for planning

Web form, data validation and public endpoint

purpose: improve entry into catalog, realistic view of what the catalog could become, prototype to green light efforts to scale.

FY22

FY23

FY24

CURRENT STATE

7

Project's Sample Inventory

248

Datasets

35

Tools/Services

39

Use Cases

Internal end point: includes project information and in-dev products

Public end point: includes only released science products

No formal process or governance

FUTURE STATE

- Flexible content management system that real time updates and validates as entries into the catalog are made by users
- Just enough features developed to provide the right information to scientists and managers
- A lightweight process for entry and governance
- All project data/tools/etc described in the catalog



We want to hear from the larger community of modelers and managers about what functionality we should prioritize implementing in future versions. We welcome ideas to improve usability and integration of the site and its contents through the feedback.