

# Water Resources Mission Area Integrated Data and Tools Catalog

## THE PROBLEM

The WMA does not have an internal or public catalog of datasets, compatible tools, and example use cases to share and discover resources in use or in development by WMA projects. As a result, data management coordination between active projects, and public dissemination of data, tools, and workflow resources is handled through ad-hoc means that requires a large investment of time, includes redundancy and may be challenging to maintained 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

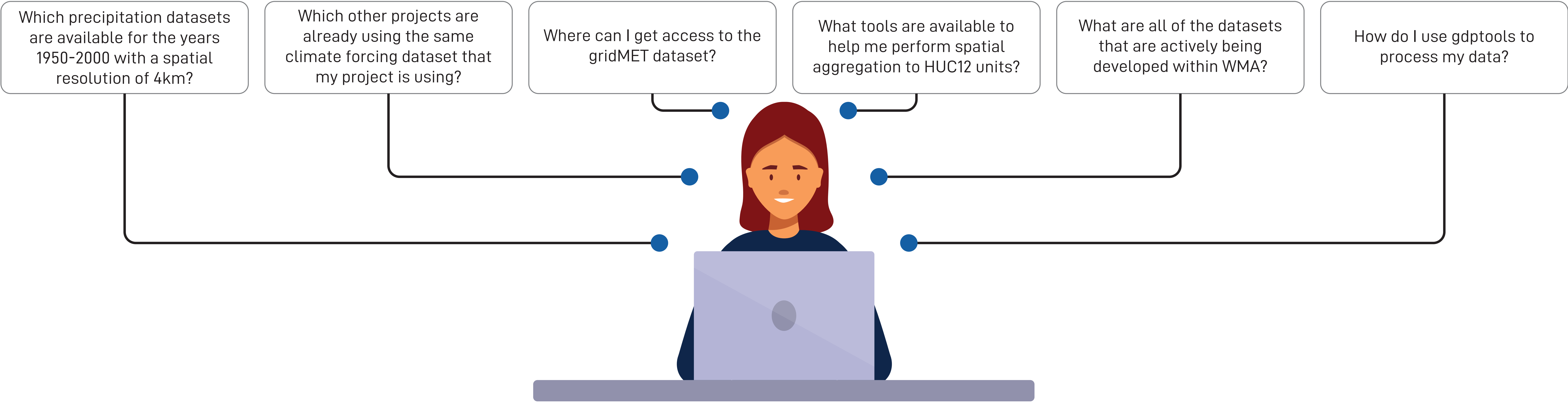
**Tools**

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?



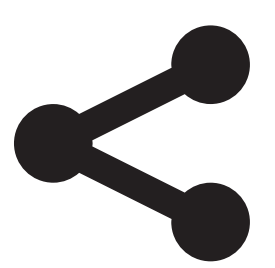
Discover new assets to be used for project work



Share new information products



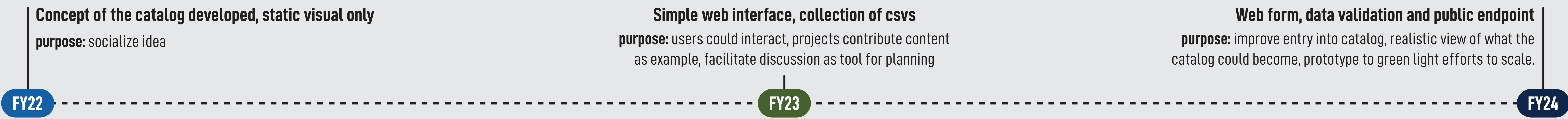
Promote better data management



Increase coordination among WMA projects

## THE APPROACH

We have built just enough to test the need and functionality of the catalog. Usability studies and interviews have informed our path forward.



## 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 exist in 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.