

CHESAPEAKE

DATA

Chesapeake Data Team

STAR Meeting June 29, 2023

Purpose of *ChesapeakeData*?



ChesapeakeData is designed to provide access to authoritative data, decision support tools and web applications of the Chesapeake Bay Program and its partners.

Why is it being developed?



- Updated technological approach for data sharing.
- Improve the documentation and discovery of resources.
- Address known shortcomings in our decision support tool portfolio.
- Develop a path forward for cross-organizational data and tool discovery.

User Research (2021/22) Findings



Lack of a **central location** for tools ranked highest in a list of issues ...

Stated desires for improvements included...

- Tools organized by outcomes or decisions
- Advanced search capabilities
- Partner tools included with CBP tools

Who is behind *ChesapeakeData*?



ChesapeakeData is a collaborative project of the Chesapeake Bay Program Office and Chesapeake Conservancy

- Data Center (Megan Thynge)
- GIS Team (John Wolf, Andy Fitch, David Strong, Angie Wei, Renee Thompson)
- Web Team (Catherine Krikstan)
- Chesapeake Conservancy (Katie Walker, Alicia Sabatino)

The initial site is being developed with planning and site design assistance of **Blue Raster** (Eric Ashcroft, Chigo Ibeh, Sarah Mandanas, Mandelson Fleurival)

How is *ChesapeakeData* being implemented?



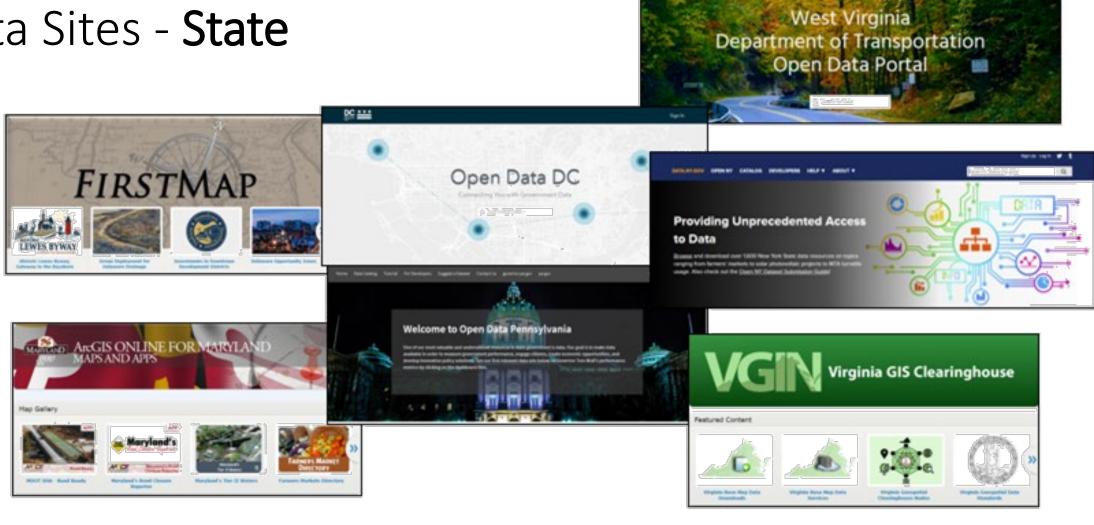
ChesapeakeData is an implementation of Esri's ArcGIS Hub software.

- It extends the capabilities and content of the CBP's existing Open Data Portal (https://data-chesbay.opendata.arcgis.com/).
- It leverages the same software and architecture that is used in existing sites of CBP Partner organizations.

Examples of Open Data Sites - Federal



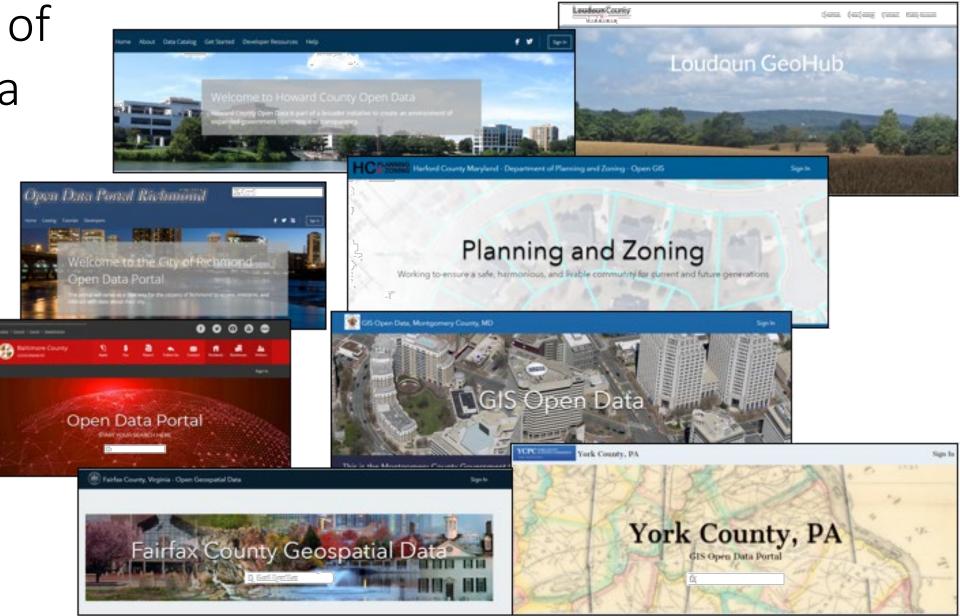
Examples of Open Data Sites - **State**



Examples of Open Data

Sites -

Local



How is *ChesapeakeData* related to other CBP websites?

- ChesapeakeData is envisioned as the third pillar of ChesapeakeStat – the umbrella site that currently houses
 - ChesapeakeProgress
 - ChesapeakeDecisions
 - ChesapeakeData



Managing Watershed Restoration

ChesapeakeStat improves information-sharing and decision-making at the Chesapeake Bay Program. As we work toward the goals of the Chesapeake Bay Watershed Agreement, we invite you to access reliable, results-oriented data and information about our progress and hold us accountable for our work.



PROGRESS

Our progress is measured by accurate, up-to-date and accessible data and information on environmental health, habitat restoration and funding.

Learn More



DECISIONS

Our work is guided by a decision-making framework that supports adaptive management: learning while doing and adjusting our efforts as needed.

Learn More



DATA

ided by a The Chesapeake Bay laking Program is built on a capture beyond those stories learning that are told by our g and indicators of environmental health and restoration.

Learn More

- 110

Track progress toward the TMDL and its Two-Year Milestones, learn about best management practice review panels or find out how we track healthy watersheds.

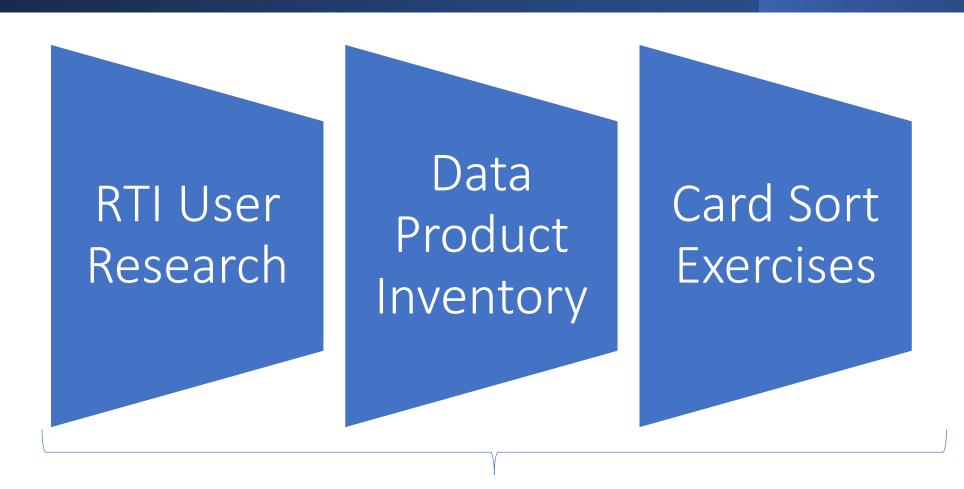
 ${\bf Learn\,more\,about\,the\,Watershed\,Agreement}$

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ChesapeakeData - Audience Input





Informed Site Architecture and Navigation

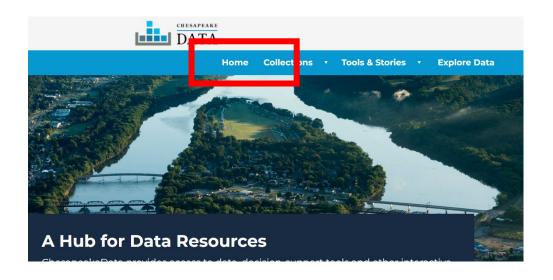


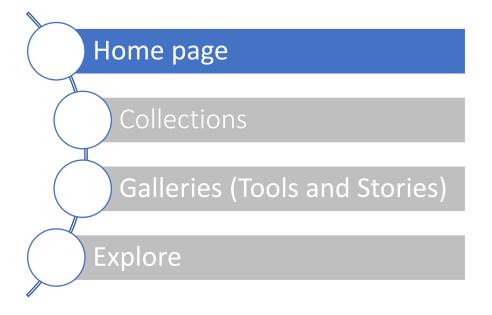


Home page Collections Galleries Explore



1. Home page describing major components of *ChesapeakeData*, featured application, and FAQs





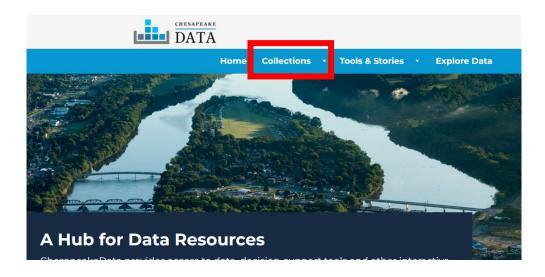


Home Collections **Tools & Stories Explore Data A Hub for Data Resources** ChesapeakeData provides access to data, decision-support tools and other interactive resources from the Chesapeake Bay Program and its partners. These resources reach beyond the program's indicators of environmental health, restoration, conservation, and stewardship to provide a wealth of information about the Chesapeake Bay and its watershed.

ChesapeakeData connects users with curated collections of resources that support



2. Detailed collections curated collections of resources that support different Chesapeake Bay Program priorities and projects







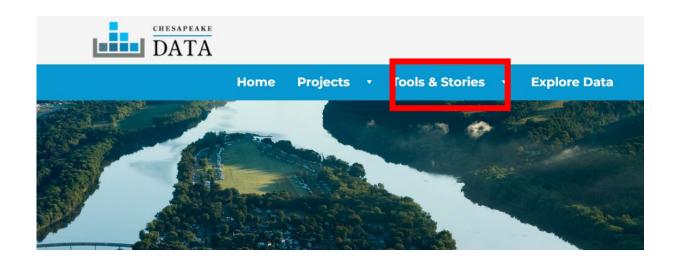
Initial collections under development and consideration:

- Protected Lands
- Healthy Watersheds
- Diversity, Equity and Inclusion
- Targeting Tools Portal

- Most Effective Basins
- Priority Agricultural Watersheds
- Chesapeake Conservation Atlas
- Watershed Data Dashboard



3. Curated galleries of tools and stories frequently used by CBP Partners





Curated Galleries



Decision Support Tools

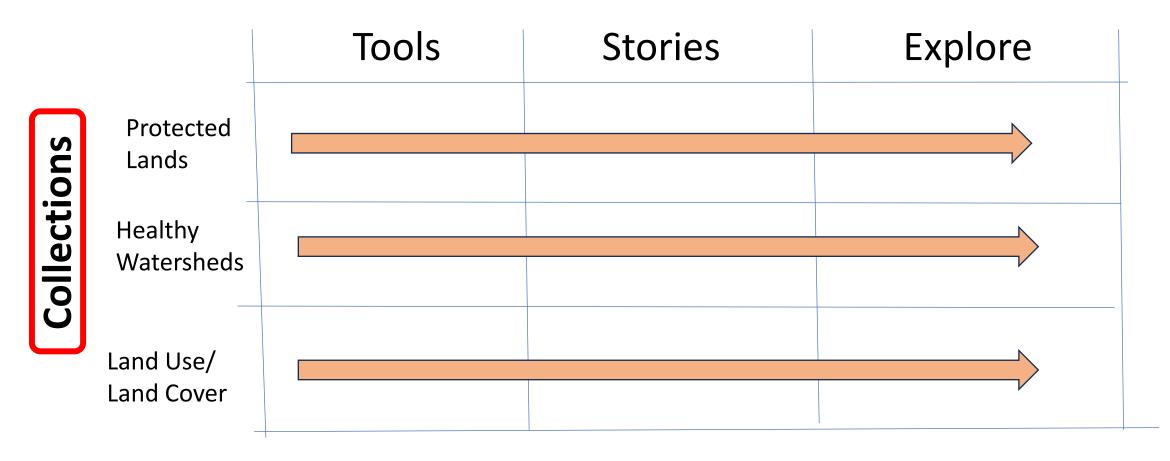
- Monitoring and Modeling
- Resource Targeting
- Environmental Equity and Stewardship
- Programmatic Planning
- Story maps
- Expands upon the Targeting Tools Portal launched last year



Chesapeake Data Example Architecture - Collections

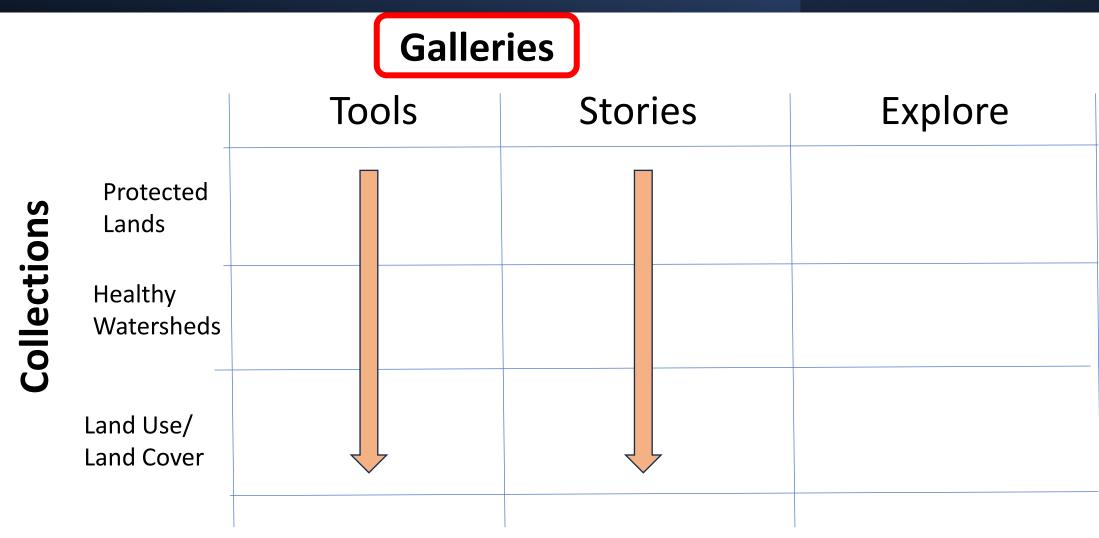






Chesapeake Data Example Architecture - Galleries

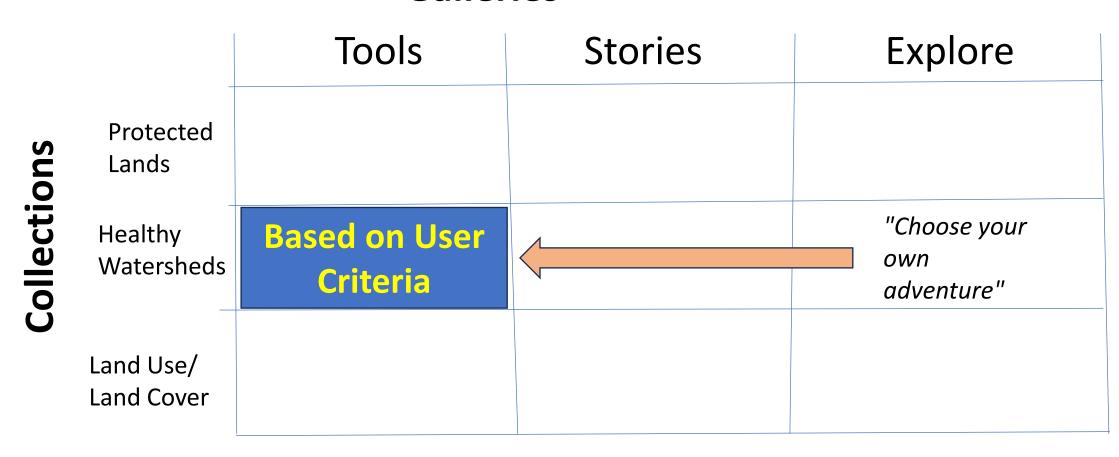




Chesapeake Data Example Architecture - Explore



Galleries



Card Sort Results

Data

Tools/Apps

Metadata

Dashboards/Depositories

Story Maps

Organization

Documentation

Communication

Decision Support

Data

GIT	
Outcome	
Watershed/Bay/Air	
Ecosystem/Human	
Data/Tool/Story/Report Repos	itory
Ag/Urban/Natural	

Water Quality
Habitat
Benefits to People
Land Use
Spatial Data
Conservation
Data Production

Coding Focus

Maps Focus

Data/Database Focus

Miscellaneous/Organizational

Reports Story Maps

Interpretive

Spatial Data

Applications

ChesapeakeData Discovery Options

- Primary (top) navigation
 - Gallery groupings
 - Search Categories
 - Search Keywords

Goal is to have content discoverable through one or more "channels"

Sample Gallery Display





Home

Collections •

Tools & Stories 🔻

Explore Data

Stories

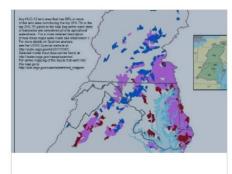
Interactive story maps/geonarratives describing programs and projects of the Chesapeake Bay Program partnership



Cross-GIT Mapping Project



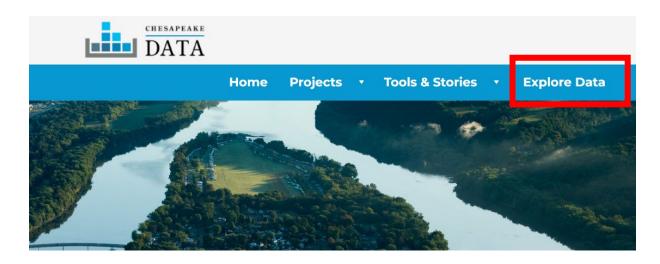
Chesapeake Conservation Atlas

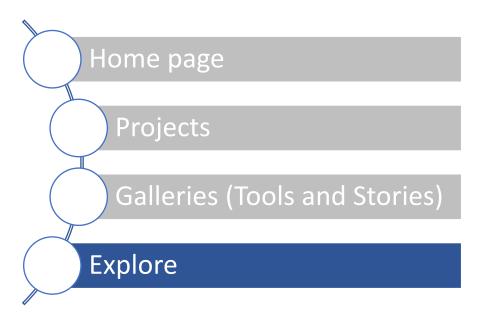


Priority Agricultural Watersheds



4. Searchable **inventory** of data, applications, and story maps developed by CBP and Partner organizations

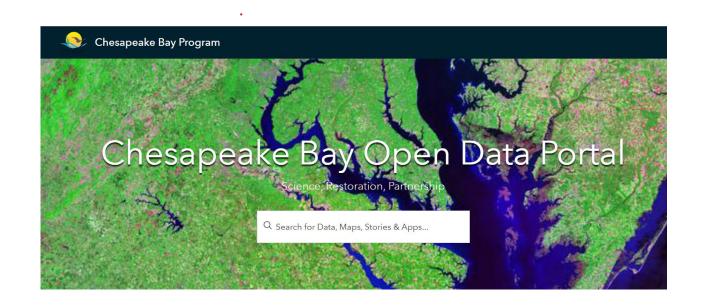


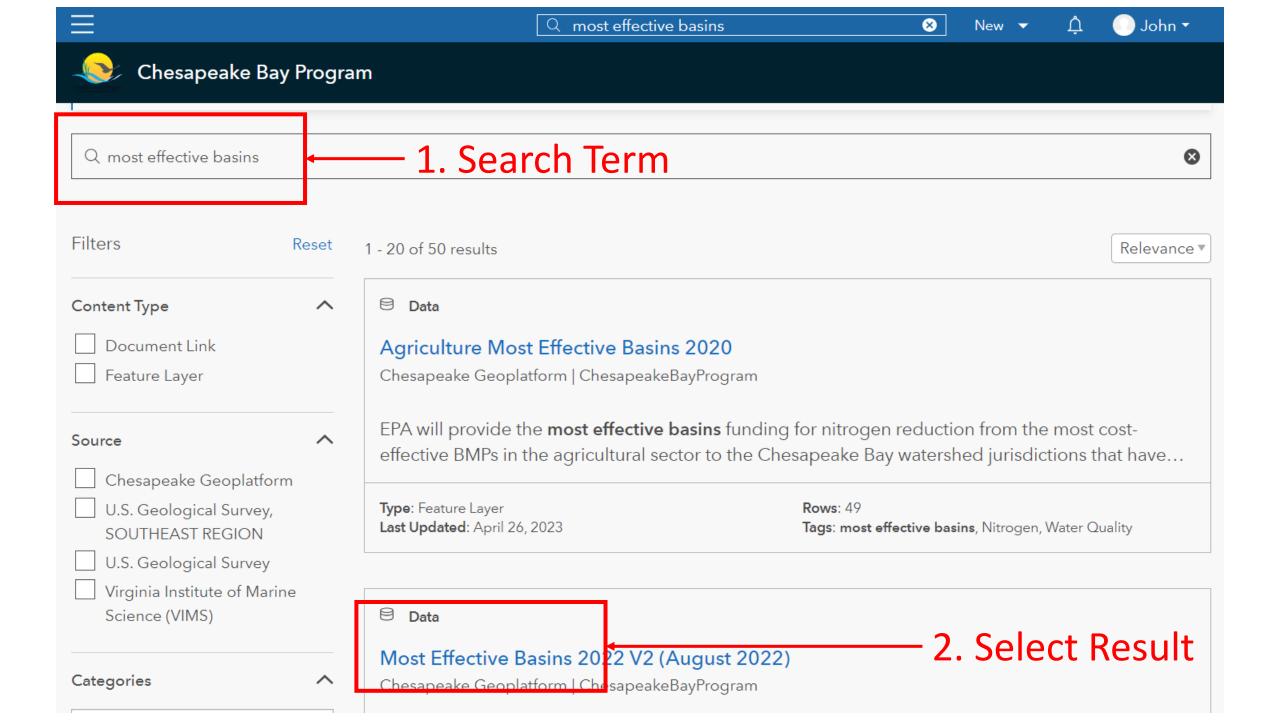


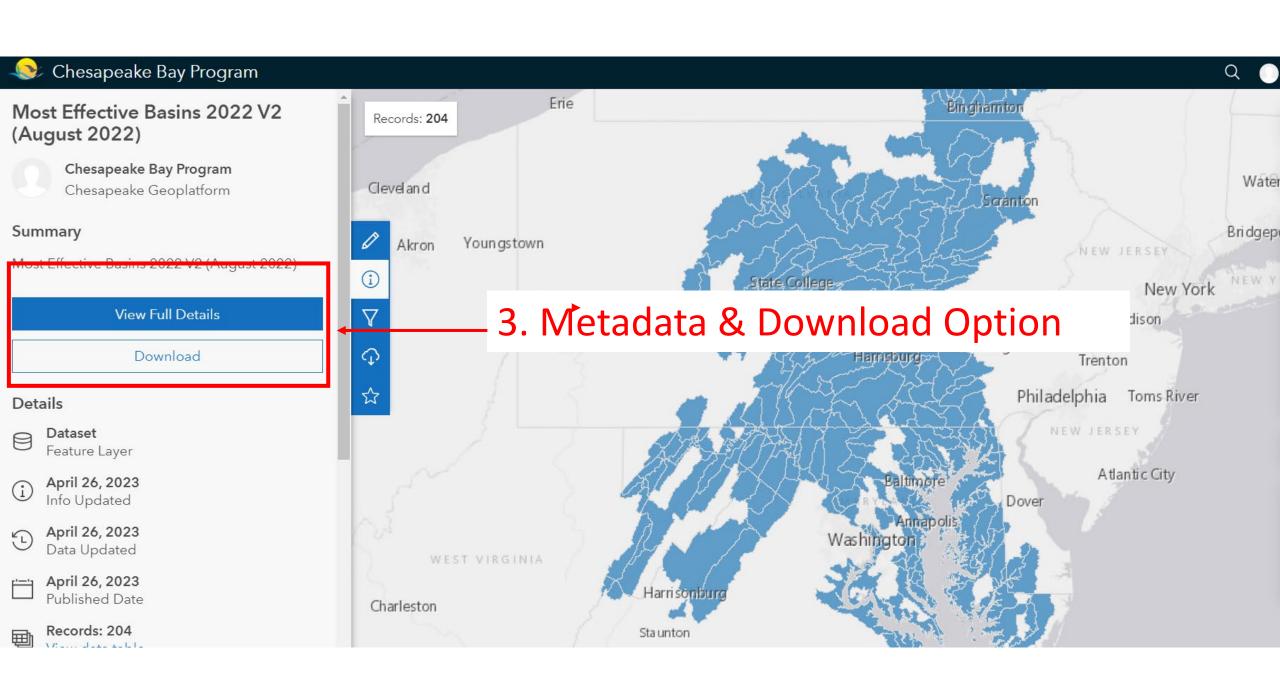
Searchable Inventory



- Extends the Chesapeake
 Open Data Portal
- Includes "categories" of content based on card sorting results
- Will eventually include partner sites











Chesapeake Bay Program



Most Effective Basins 2022 V2 (August 2022)



Chesapeake Bay Program

Chesapeake Geoplatform

View Map

Download

More **▼**

Summary

Most Effective Basins 2022 V2 (August 2022)

Most effective basins based on relative effectiveness (nitrogen) based on revised delineation including Virginia changes as of August 2022. This version was used to focus Infrastructure Investment and Jobs Act (IIJA) funding.

The Infrastructure Investment and Jobs Act (IIJA), signed into law on November 15, 2021, has authorized significant additional funding for Chesapeake Bay restoration. For Fiscal Year (FY) 2022 s.com/datasets/.../about

Details



Feature Layer

info Updated

April 26, 2023
Data Updated

<u>і-і</u> Аргіl 26, 2023

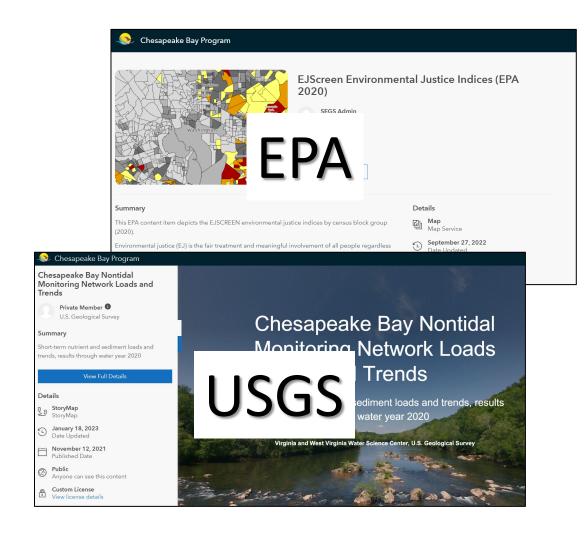
Searchable Inventory

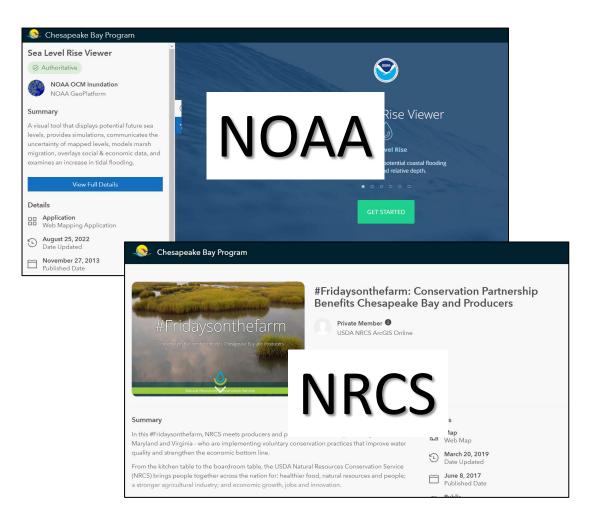


- Initially will feature CBPO and Chesapeake Conservancy content and decision support tools used by GITs and Workgroups
- Currently working to integrate relevant content from other organizations (e.g., USEPA, USGS)
- Future integrate content from jurisdictional partners

Discovering Curated Content from Partners (examples)







Next Steps



- Finalize architecture
- Assemble initial Federal Partner content
- Content development and clean up
 - Collection descriptions
 - Clarify process for adding content to "Explore" tab
 - Consistent tagging and metadata
- Review and testing by Communications and Web Team
- Launch tentatively planned for Fall 2023

Potential Upcoming Roles for STAR



- Establish ChesapeakeData content liaison(s) for STAR
- Nominate potential science Collections and identify subject matter experts
- Participate in user testing

Questions for GITs



- What audiences should this site reach?
- What are we missing in Phase 1? Are there ideas we should consider for future content and functionality?
- How would you like to be kept informed of the evolution of ChesapeakeData?
- What should be the role of STAR?
 - Nominate content?
 - Compose and curate Collection content?
 - Serve as liaison to identify Science content of other partners that should be included?