

From the Science side...

A LOT of new and updated science available

Monitoring & Trends

Non-tidal water quality

Tidal water quality

Tidal attainment

Submerged aquatic vegetation

Modeling Tools

Phase 6 Watershed Model

Geographic load distribution

Geographic influence on Bay

BMP progress reports

Synthesis Analyses

USGS Non-tidal Syntheses

-Regional Nitrogen, Phosphorus and

Sediment

-Groundwater

SAV Syntheses

Water Clarity Synthesis

Water Quality Synthesis

From the Management side...

New plans, new expectations, new requests

Phase III WIP expectations

Assess what's been working and what hasn't

Develop "local area goals" at finer resolution

Planning for urban growth and climate change

Managers/planners want to know:

Targeting restoration efforts

- Geographically
- By sector

Co-benefits of nutrient and sediment reduction

Identify remaining opportunities for BMPs

The WIP Data Dashboard

What is the Dashboard?

The purpose of the WIP Development Data Dashboard is to consolidate and provide accessibility to technical and scientific information in one cohesive location and to provide guidance on how and why the information should be used.

This information includes, but is not limited to:

- Tidal and watershed water quality monitoring trends
- SAV trends and their explanations
- Urban growth projections
- Information to help geographically target restoration efforts
- Information to help choose BMPs
- Current BMP implementation and opportunities

The WIP Data Dashboard

What can you do with it?

The Dashboard provides information that can inform planning efforts and help to:

- Understand status of local water quality and change over time
- Understand local pollution sources and drivers of water quality
- Target, focus or prioritize restoration efforts
- Identify co-benefits associated with management practices
- Identify effective and cost-effective practices
- Identify opportunities for implementing practices
- Plan for future growth and development

Some uses of this information include:

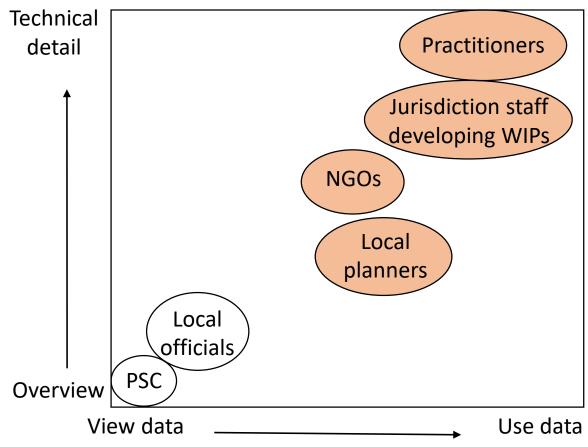
- Targeting restoration efforts geographically, by sector, or by practice
- Developing scenarios to run on the Chesapeake Assessment Scenario Tool (CAST)
- Outreach and communication of water quality information
- Building local stories

The WIP Data Dashboard

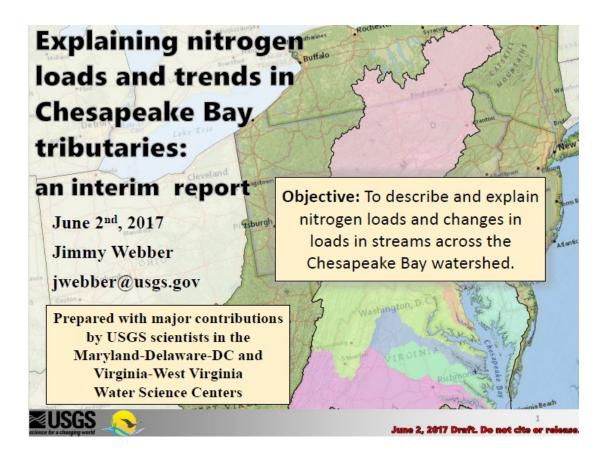
Who should use it?

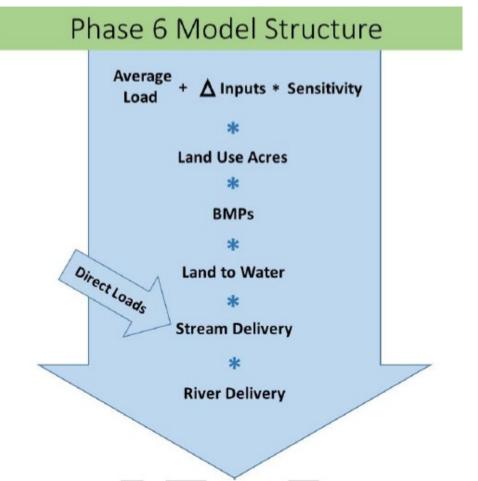
- Anyone seeking information that can aid in their planning process for water quality restoration
- Is meant for a range of users from less technical to technical, from state to local
- Possible users include:
 - State agency staff
 - NGO partners
 - Local planners (e.g. municipality level, soil conservation district level, county level, etc.)
 - Watershed organizations

Our typical WIP audiences (highlighted are targeted for dashboard)



1) Work with scientific community to determine essential scientific messages and data to back them up – E.g. "Synthesis" teams

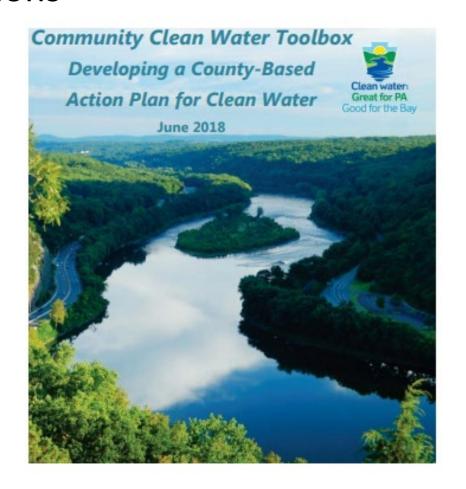




2) Solicit feedback from management community on essential information needed to make their decisions

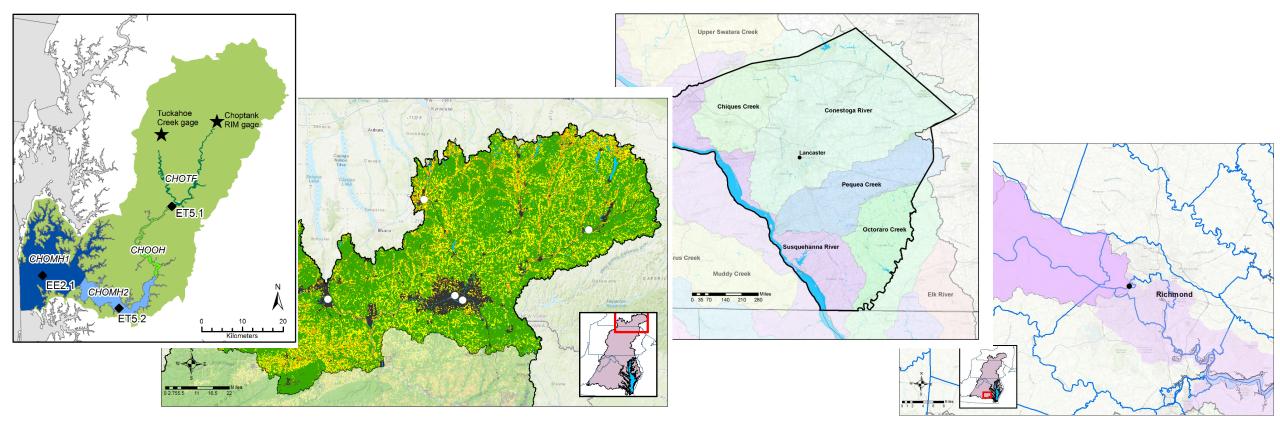
"Tell me my options, but don't tell me what to do..."

Water Quality Goal Implementation Team
Soil Conservation Districts
Phase III WIP Steering Committees
STAC Workshops
Local Government Advisory Committee



3) Determine a way to communicate data that resonates with managers

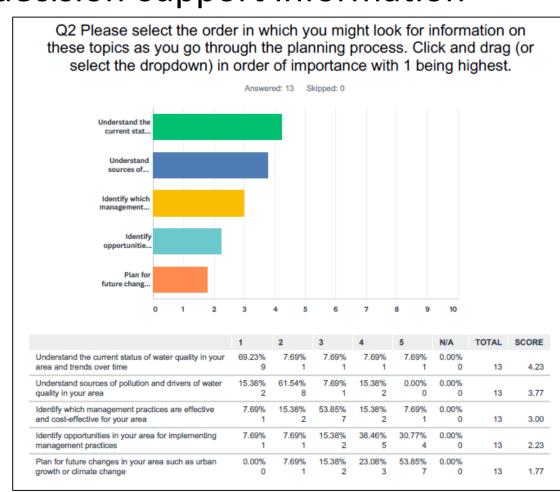
We found that using the data to tell local stories ("storylines") resonated best



4) Conduct preemptive user research to understand how, when and why users would want to access decision-support information

We wanted to know:

- What sort of information is important our users?
- How do they organize that information in their own minds?
- When in their planning process do they want to access that information? In what order makes sense?



5) Inventory current data visualization products & projects

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1	Inventory of Data Visualization Products for Midpont Assessment, Phase III WIP Development and Implementation												
				End Target Audience			Timeline (when						
2		Basic Description			•	Status	needed)	Action Needed	Review needed?	Priority	Location		_
	USGS Nontidal Website	Location where nontidal	USGS concentration	Jurisdictions, Localitie	MPA, Explaining Trends	Complete		Consolidation or	No	Low	https://cbrim.er.usgs.		
3		monitoring data is housed	data					distillation of			gov/		
4	USGS Interactive Map	Trends and loads	NTN loads 2014					information for					
			NTN trends in loads					other audiences					
5			('05-'14)					(like PSC)					
			NTN trends in loads										
7			('85-'14)										_
7			NTN yields (ave. '05-										_
		Display most recent trends	NTN trends in loads										
8		and loads info	('05-'14)										-
	Maps		NTN trends in loads										
9 10 11			('85-'14)										-
10			NTN loads 2014										-
11			NTN yields (ave. '05-										
			NTN combined yields										
12			trends ('05-'14)										-
4.5			NTN trends in loads										
13	Bar graphs		('05-'14)										-
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15		station-specific nontidal monitoring and trends info	'14)			by John Wolf		development,			u.com/profile/bryan.c hastain#!/vizhome/C		
13		morntoning and trends into	Flow-normalized					user experience, review,			BPNon-TidalV6/Non-		
16			annual loads ('85-'14)					consolidation or			TidalWaterQualityDa		
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17			('05-'14)					info for other			Silboaid		-
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6) Organize information in manageable chunks – "modules"

What is the status of water quality in my area?

Freshwater Rivers & Streams Water Quality

Tidal Water Quality & Living Resources

What are sources & drivers of pollution? Where geographically is most effective to focus?

Targeting Restoration Efforts

What are the most effective and cost effective BMPs? Where can I implement them?

Identifying
Implementation
Opportunities

How can I plan for growth and mitigate issues associated with it?

Planning for Urban Growth

7) Utilize user research and management input to provide significant guidance with data

