Strategic Science & Research Framework (SSRF) and Science Needs Database

Chesapeake Bay Program
Science. Restoration. Partnership.

August Goldfischer, STAR Staffer (CRC)

Management Board
8/10/2023

SSRF provides a strategic approach to:

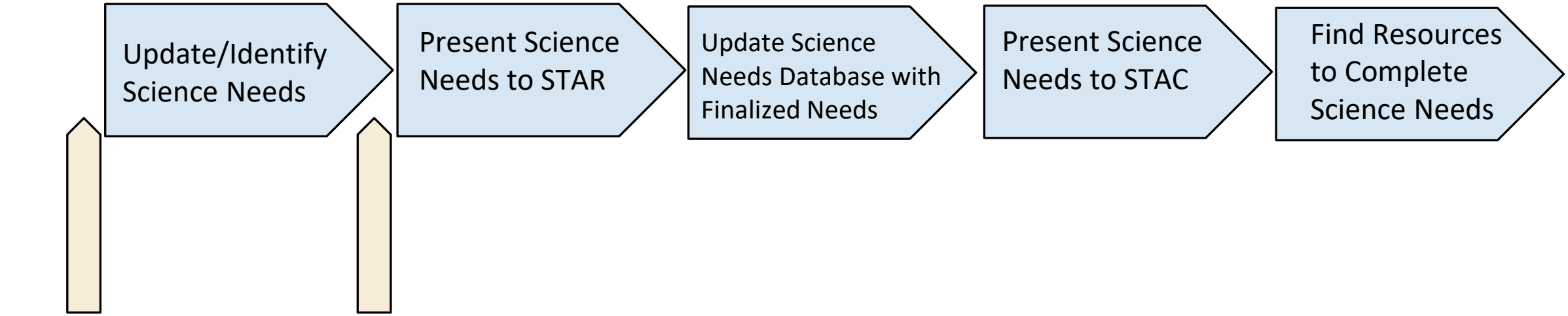
1.) **Gather, track, and maintain** science needs for each outcome

2.) Focus **existing resources** to help address the science needs

3.) Identify priorities for new resources

4). Expand CBP science capacity through more partnerships

Strategic Science and Research Framework (SSRF)



star.chesapeakebay.net/Need/ScientificNeeds

Science Needs Database

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Goals (?) Goal Filter

Primary Outcomes (?) Primary Outcome Filter

Categories (?) Category Filter

Need (?) Need

Search

Clear Filters

Goal	Primary Outcome	Category	Need	
All	All	Analysis, Data Gathering	Ecosystem services identification, quantifiation and valuation	Detail
Sustainable Fisheries	Fish Habitat	Analysis, Indicator	Regional Fish Habitat Assessment: 1. compile habitat and environmental, stressor, biological dataset; 2. analyze biological response data for relevance; 3. pilot fish habitat assessment; 4. conduct watershed regional assessment; 5. ID/develop spatial tools useful to partners	Detail
Sustainable Fisheries	Fish Habitat	Monitoring	Maintaining a telemetry network tracking fish movements at mouth of Chesapeake Bay	Detail
Sustainable Fisheries	Fish Habitat	Monitoring	Explore cost-effective methods/approaches to phytoplankton and zooplankton monitoring	Detail
Sustainable Fisheries	Fish Habitat	Monitoring, Indicator	Develop shallow water monitoring survey proposal for fishery and benthic invertebrate survey gaps	Detail
Sustainable Fisheries	Fish Habitat	Monitoring	Monitoring vertical water column habitat (DO volume and spatial extent for hypoxia)	Detail
Sustainable Fisheries	Oysters	Monitoring	Oyster restoration monitoring	Detail
Sustainable Fisheries	Forage Fish	Analysis	Shoreline threshold analysis	Detail
Sustainable Fisheries	Forage Fish	Data Gathering	Baywide inventory of shoreline condition/type	Detail
Sustainable Fisheries	Forage Fish	Analysis, Data Gathering, Indicator	Forage fish indicator	Detail

Filling the Gap

Water Quality Standards Attainment & Monitoring (WQSAM)	
Where Help is Needed	**MB Response Option Results**
1. Scientific support: Management Board members and their agencies use the Strategic Science and Research Framework (SSRF) AS APPROPRIATE to guide federal and jurisdictional grants, proposals, and strategic planning (e.g., NFWF).	1. Acknowledge that the MB is not committing to take specific action; express gratitude for the work and information. 2. Handle the outcome request. 3. Elevate to the PSC. 4. Refer to another team/workgroup.

Follow On Response
Decision 1: The Management Board is not committing to a specific action for all partners but appreciates the availability of the SSRF framework for use in guiding their decisions for grants, proposals and strategic planning. WQ GIT will make SRFF available to MB members for use as they feel appropriate.

Examples

Academia	Federal	State	Non-profit
UMBC ICARE: Investigate applicability of eDNA to brook trout.	USGS Science Strategy: Staff capacity focused on projects like the high resolution land use/land cover change data that inform many Outcome's science needs, some of with include Tree Canopy, Riparian Forest Buffers, and Healthy Watersheds	MDDNR: Assess the impact of living shoreline construction and placement on SAV/best practices for SAV restoration into designs.	CRC: PCB Story Map Update - 2022
VIMS: Baywide inventory of shoreline condition/type	EPA ROAR: Ecosystem services identification, quantification and valuation	Virginia: Examine differences in gear efficiency for blue crab between MD and VA, build a dataset for analysis	C-StREAM: Evaluation of science needs to implement blue carbon financing strategies

Questions?

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