

# Science Needs as Potential GIT Funding Projects

---

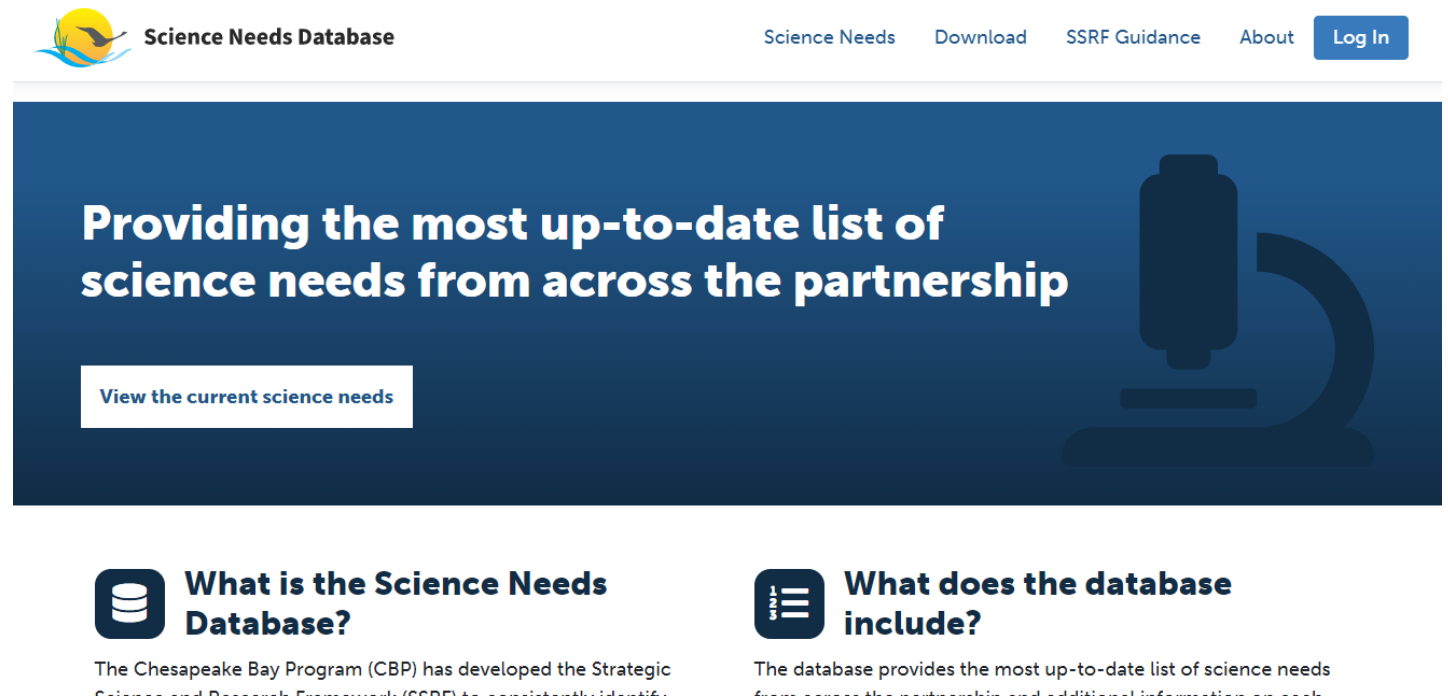
ALEX GUNNERSON, AMY GOLDFISCHER, AND BRECK SULLIVAN

STAR MEETING 7/28/22



# Goal

Review science needs identified in the CBP Science Needs Database that may fit within GIT Funding criteria.



The screenshot shows the homepage of the Science Needs Database. At the top, there is a navigation bar with the logo on the left and links for 'Science Needs', 'Download', 'SSRF Guidance', 'About', and a 'Log In' button. The main banner features a dark blue background with the text 'Providing the most up-to-date list of science needs from across the partnership' and a 'View the current science needs' button. To the right of the text is a silhouette of a microscope. Below the banner, there are two columns of content. The left column is titled 'What is the Science Needs Database?' and includes a database icon and a paragraph about the Chesapeake Bay Program (CBP) and the Strategic Science and Research Framework (SSRF). The right column is titled 'What does the database include?' and includes a list icon and a paragraph about the database providing the most up-to-date list of science needs.

**Science Needs Database**

[Science Needs](#) [Download](#) [SSRF Guidance](#) [About](#) [Log In](#)

**Providing the most up-to-date list of science needs from across the partnership**

[View the current science needs](#)

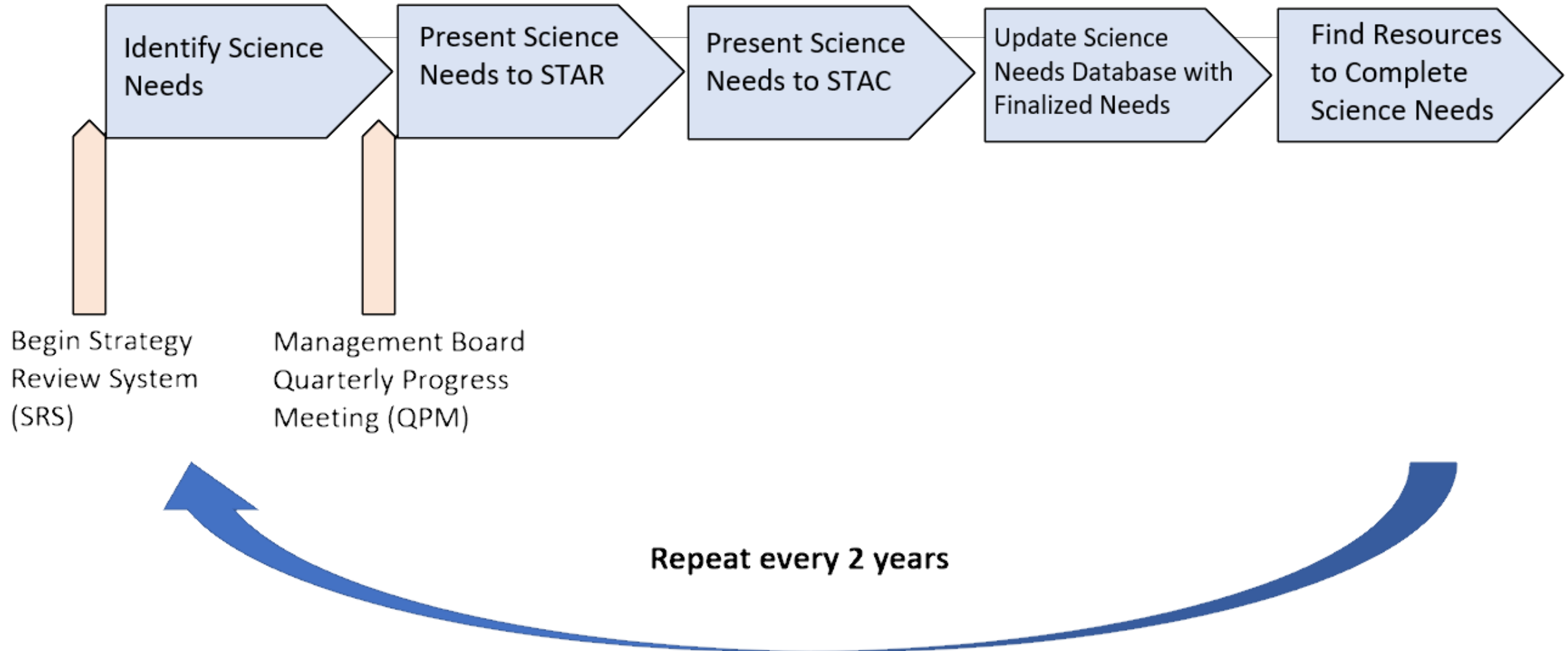
**What is the Science Needs Database?**

The Chesapeake Bay Program (CBP) has developed the Strategic Science and Research Framework (SSRF) to consistently identify

**What does the database include?**

The database provides the most up-to-date list of science needs from across the partnership and additional information on needs

## Strategic Science and Research Framework (SSRF)



# Objective

---

Are there any easy wins?

Previously, GIT Funding has been great as an opportunity to fund science needs.

Example:

15768	13	Chesapeake Bay Watershed Climate Data and Mapping Repository	Eastern Research Group, Inc.	\$29,720	3/1/2018	Completed 7/26/2019  <a href="#">View Final Report here.</a>  <a href="#">Climate Data and Mapping Repository</a>	Eastern Research Group (ERG) will apply its expertise in climate change indicators, data analysis, and GIS system development to build an inventory and repository of climate change data layers for the Chesapeake Bay Program. Through a collaborative process, they will establish bounds, identify available datasets, document and categorize data attributes, assess suitability of the data for inclusion, compile links, catalogue data, create metadata, and create new geospatial layers for priority indicators.	John Wolf
-------	----	--	------------------------------	----------	----------	---	---	-----------

# STAR Proposal

---

Need: Acquiring a contractor to help an outcome develop a monitoring plan.

- Comment: Based on the PSC Monitoring Report, many outcomes need to develop a monitoring plan. Since monitoring needs are also science needs, GIT Funding could be a good way to develop the capacity need to start monitoring.

# Types of Needs

To help catalogue the science needs, many have been assigned a category. There are currently 16 different categories in the Science Needs Database, but here are a few examples.

Category	Description
Modeling	Need requires some sort of modeling effort, either with CBP modeling team or outside support
Monitoring	Need is pertaining to monitoring efforts including new efforts, utilizing existing efforts, coordinating efforts, etc.
Research	Need requires to original research to address or generation of new data or new knowledge
Synthesis	Need requires synthesizing existing research or advancing science by pulling from multiple current lines of research
Analysis	Need requires new analysis be conducted on existing data or information
Data Gathering	Need requires identifying, finding, consolidating, etc. existing datasets or data layers
Coordination	Data, information or efforts exist or are ongoing, but coordination is needed between groups
Training/Outreach/Communication	Scientific need is met, but resources are necessary to disseminate information, data, product, etc.
GIS Analysis and Mapping	Items where the CBPO GIS team could provide support.
Other	Does not fit into the above categories; please feel free to assign your own.

# Black Duck Outcome

---

Need: Evaluate ABDU Decision Support Tool assumptions  
AND Update ABDU Decision Support Tool with updated  
SLAMM and Urban growth model data.

- Comment: It seems like there is a framework for action, but the main ingredient lacking is funding. Perhaps GIT funding is the fuel this effort needs?

# Wetlands Outcome

---

Needs: Identifying the amount of stream network incising in small to headwater streams. AND Identifying the amount of legacy sediment present along small to headwater streams.

- Comment: These needs may be similar enough where a GIT Funding project could address both of them. Perhaps GIT Funding could utilize some added technical skills here to address these needs?



# SAV Outcome

---

Need: Assess integrated impacts of shallow water uses (e.g. living shorelines, aquaculture, clamming, shoreline structures) on SAV habitat.

- Comment: There are no resources currently to address this need. It is a mapping exercise, and a pilot project could be beneficial with potential to expand after a pilot.

# Forest Buffer Outcome

---

Need: Exploring restoration systems, effectiveness, and plant species. What kinds of forests are we trying to create? Are we planting the right trees and shrubs to ensure the highest success rates?

- Comment: A literature review seems feasible for a GIT funded project. The need also referenced professional conversations so the project could build from the literature review with a roundtable discussion.

# Stream Health Outcome

---

Need: Establish guidelines and relationship between stream corridor restoration activities and functional lift including biological lift.

- Comment: The notes said that GIT Funding in 2019 was a potential resource. If it did not receive funding that year, there might still be interest in using GIT funding to address this need.

# Toxic Contaminants Research Outcome

---

*Synthesis*

Need: Synthesize and communicate information (on the influence of contaminants) to document fish health and wildlife conditions in the Bay watershed.

- Comment: It seems like the synthesis part has been done but not the communication and outreach.



Brainstorming  
Time

---

# Brainstorming Reminders

---

- Projects must be tied to an identified need in a management strategy, L&A plan or SRS quarterly meeting.
- STAR is eligible for funding for the climate outcomes and water quality monitoring outcome. GITs can only submit proposals for outcomes they are responsible for.
- There is an allowance of one project per outcome.

# GIT Funding Key Dates

---

- August 9 - Idea Sharing Meeting
- August 16 – Chesapeake Bay Trust (CBT) Online System Table 1 Training Video released + CBT Office Hours Announced (for Q&A)
- September 1 - Draft Table 1 entered into CBT online system – one project idea per outcome
- September 28 - Project Ideas Scoring Meeting
- *See email from Greg Allen on 7/27/2022 for more details.*  
[Program manual here.](#)

# Climate Consultants

---

- Given the cross-cutting nature of themes like climate change and their involvement in the Climate Resiliency Workgroup, **Amy and Alex have volunteered to be “climate consultants” for this GIT Funding award cycle.**
- Working with the CRWG coordinator and staffer, Alex and Amy can meet with a team seeking to earn the “addresses a climate change need” annual weighting factor to discuss how the proposal might build in climate resiliency.



# Questions?

---

Alex Gunnerson – [agunnerson@chesapeakebay.net](mailto:agunnerson@chesapeakebay.net)

Amy Goldfischer – [agoldfischer@chesapeakebay.net](mailto:agoldfischer@chesapeakebay.net)

Breck Sullivan – [bsullivan@chesapeakebay.net](mailto:bsullivan@chesapeakebay.net)