How We Got Here

- Strategy Review System MB meeting (August 2018)
- Too many science needs for climate resiliency; MB requested priorities
- Led to another MB request to understand science priorities from SRS reviews of all outcomes
  - Consolidate and analyze science needs to recommend prioritization for those requiring resources.
  - MB wanted to better understand all the science needs, so they can help prioritize resources.

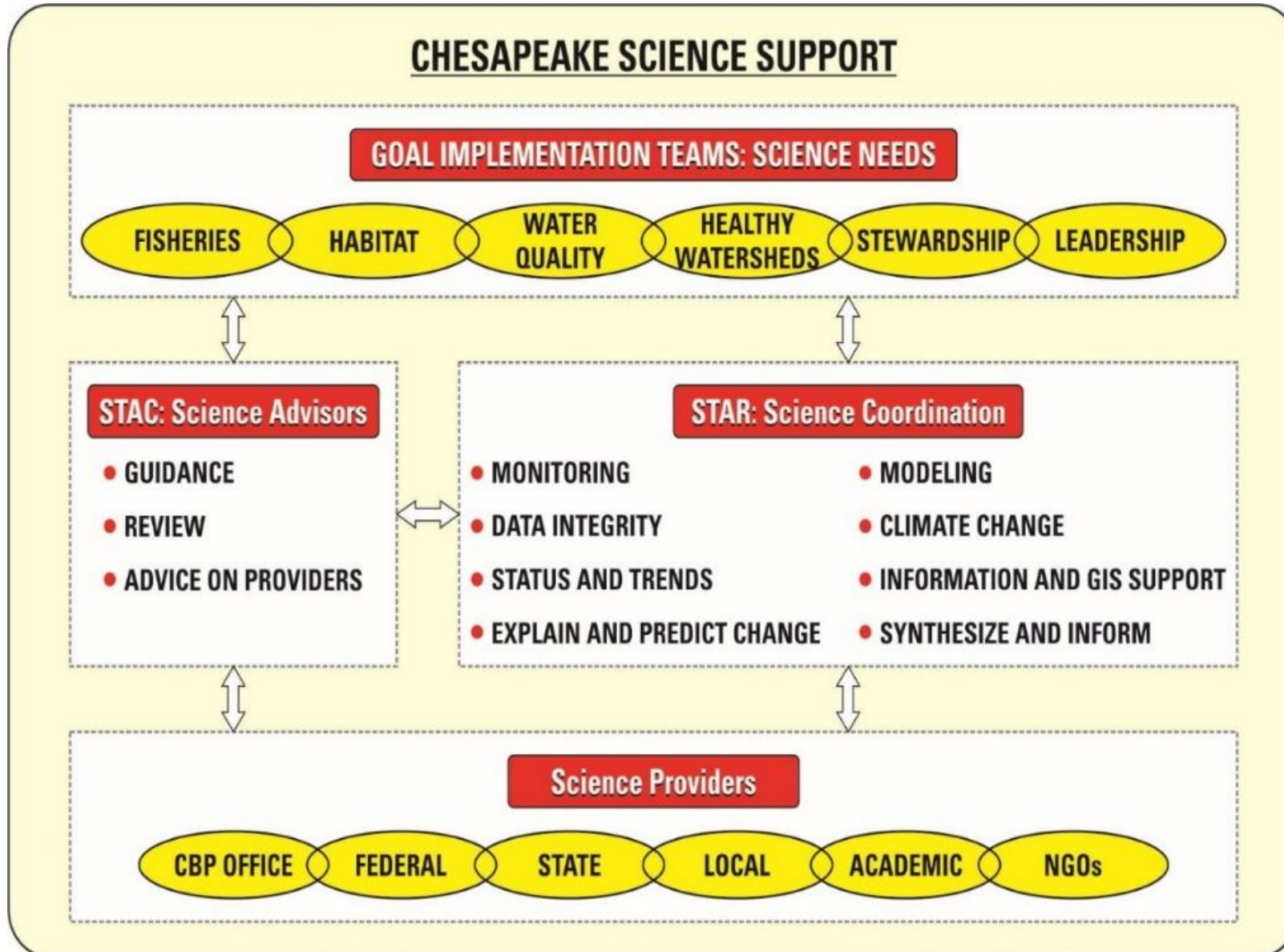# Request from Management Board

August 2018 Request from MB:

"The SRS small group will compile into a list the SRS data and science needs requests. This list will be shared with STAR and STAC leadership and the CBP associate directors for input. The Management Board will review the 2017-18 SRS requests to prioritize science and data needs. The Management Board will present their prioritization during the 2019 SRS Biennial meeting."

Progress to Date

- MB request discussed with STAR and SRS team (Sep '18)

- Solicited GIT-chairs feedback & requested science needs (Oct '18)

- Consolidated initial list of science needs from GITs (Oct-Nov '18)

- Solicited feedback on process from STAC, several members joined effort (Dec '18)

- STAR coordinated discussion on process and science needs list with GITs and STAC (Dec '18)

Reminder of Roles
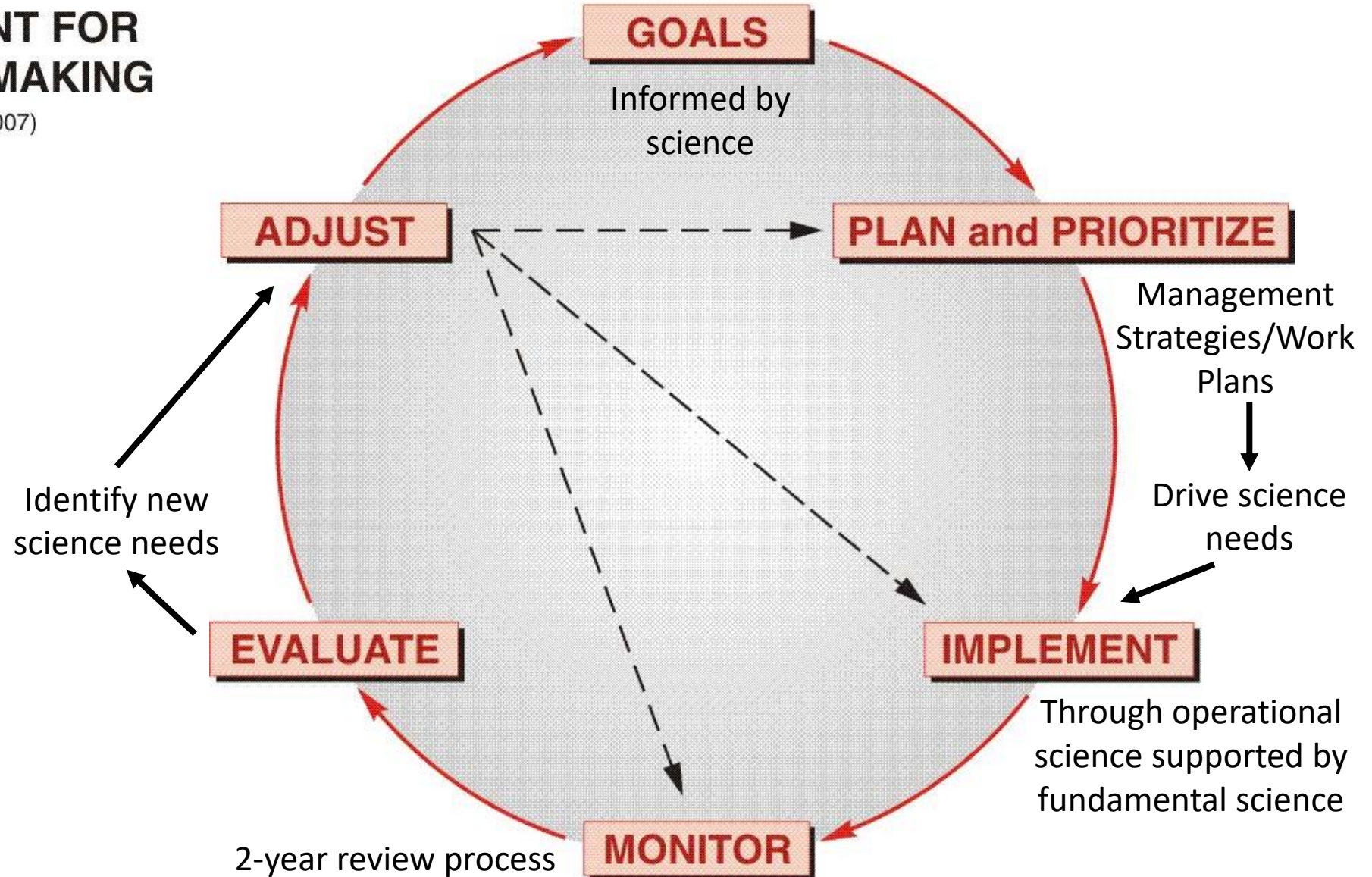
Feedback Received: STAC and Goal Teams

- The science needs and the strategy to address them should be connected to the decision framework and the SRS process
- We need to look strategically at the science needs on a regular basis – suggest developing a process repeatable every 2 years with SRS reviews (Strategic Science & Research Framework)
- Need to take into account operational vs. fundamental science
- Incorporate STAC workshop recommendations into the list
- Don't prioritize numerically like we do for cross-GIT funding
- Look holistically at whole list to see where there are common themes, where there are gaps in resources and opportunities to address
- MB can help identify opportunities to address gaps

Connection to Decision Framework and SRS

ADAPTIVE MANAGEMENT FOR ECOSYSTEM DECISION MAKING

[Modified from Williams and others (2007) and Levin and others (2009)]

GOALS

Informed by science

ADJUST

PLAN and PRIORITIZE

Management Strategies/Work Plans

Identify new science needs

Drive science needs

EVALUATE

IMPLEMENT

Through operational science supported by fundamental science

2-year review process

MONITOR

Proposed Approach:
Strategic Science and Research Framework

1) Update operational and fundamental science needs identified through SRS process, GIT input to STAR, STAC workshop recommendations, and STAC review

   Oct 2018 – Feb 2019

2) Conduct a resource assessment to identify current science providers and gaps in resources

   Feb – Mar 2019

3) Holistically assess gaps in resources for science needs and work with GITs, STAR and STAC to prioritize needs requiring resources

   Mar – May 2019

Proposed Approach:
Strategic Science and Research Framework

4) Develop a strategic science & research framework that supports the SRS process and periodically recommends to MB approaches for science providers to address priority science needs

May – Jul 2019

5) Present strategic science & research framework to MB for input

Jul 2019

6) Take actions to address primary gaps

Ongoing

7) Update science needs based on 2019-2020 SRS Process

2019-2020

MB & their agencies: MB can suggest how collective resources should evolve; agencies represented can identify their own resources to address needs

GITs: Can identify projects for GIT RFPs; can determine common needs; represented agencies can identify how to evolve efforts

CBP Office: Evolve EPA grants and contracts to address needs; evolve focus of CBP modeling, monitoring, research, GIS

STAR: Updates activities and workgroups to address science priorities to support GITs; evolve directions of CMC; identify science providers to address needs

STAC: inform STAC research priorities and selection of workshops; individual researchers can be providers

March 13-14 SRS Biennial Review

What we plan to have for the 2019 Biennial Review:

➢ Consolidated list of operational and fundamental science needs driven by the decision framework

➢ Initial resource assessment identifying gaps in resources for needs

➢ Initial holistic look across needs to identify common themes, short- vs. long-term needs

➢ Proposed ideas on process for prioritizing gaps in science needs

March 13-14 SRS Biennial Review

What we propose to do at the 2019 Biennial Review:

➢ Get feedback on the process and framework that STAR, STAC and the GITs have been developing together to adapt science needs

➢ Review and obtain input on the needs initially identified to have gaps in resources

➢ Discuss how we should work together to prioritize needs with gaps in resources

➢ Initial discussion on how to find and align resources for priority needs

Our Request Today for MB

Do you have feedback on the process STAR, STAC and the GITs have proposed?

We have 2 hours for this topic at the Biennial Meeting – are there things you want to make sure we discuss?

Thank you!

Scott Phillips, STAR Co-Chair
Kristin Saunders, Cross-GIT Coordinator
Emily Trentacoste, STAR Co-Coordinator

Management Board Meeting
February 14, 2019