STAR and collaboration with STAC

June 17, 2025

STAC Retreat

STAR Leadership

Chair: Ken Hyer

STAR Coordinator: Breck Sullivan

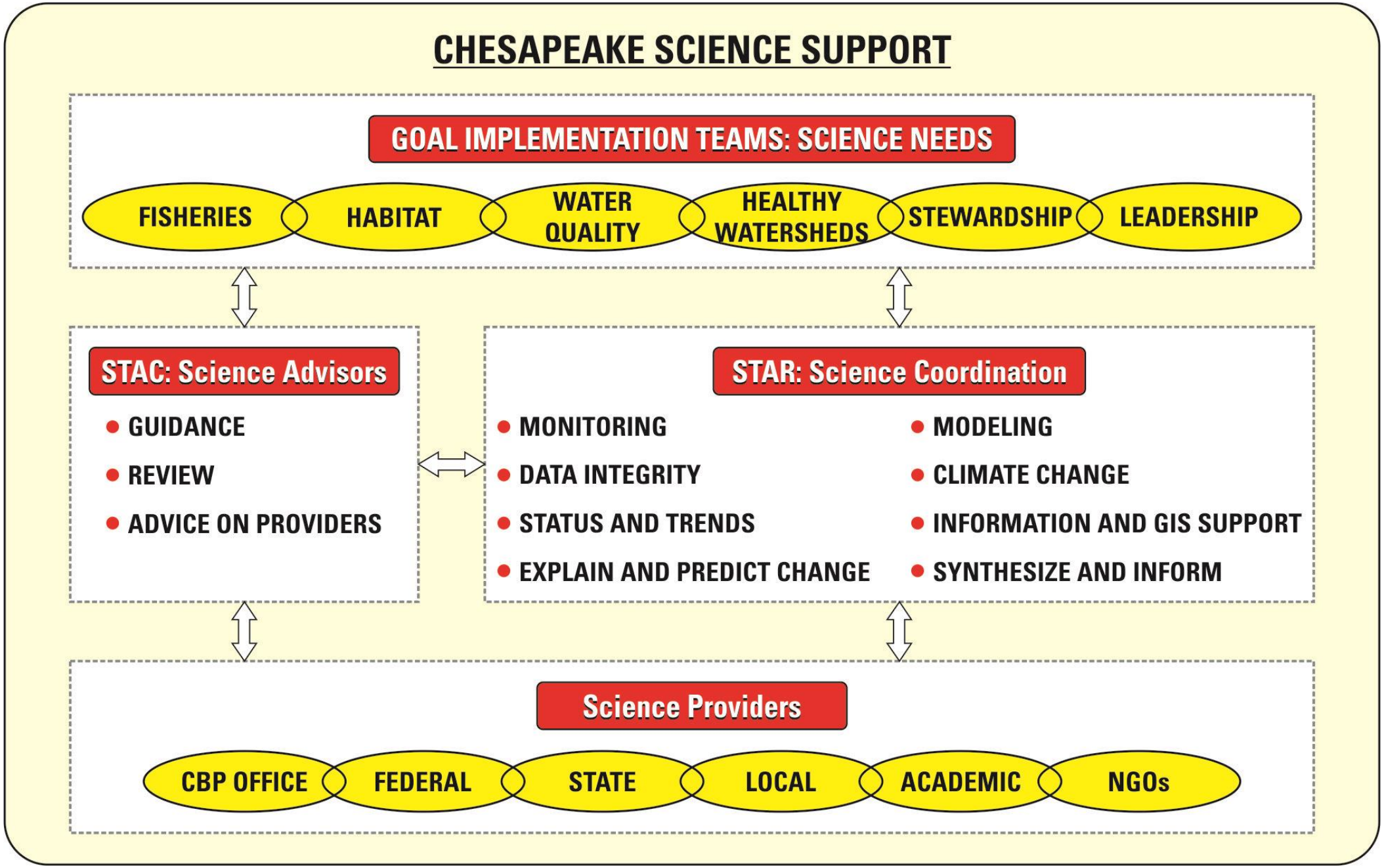
Monitoring Coordinator: Peter Tango

The purpose of STAR is:

- STAR team coordinates monitoring, modeling, and analysis across the partnership to help make progress on the Goals and Outcomes.
- Water Quality
- Ecosystem response
- Folds into the adaptive management process.

STAR Functions

- Manage and coordinate the Strategic Science and Research Framework (SSRF) to identify, track, and address CBP *science needs*.
- Interact with GITs to *coordinate science partnerships* and identify new opportunities to address science needs in SSRF.
- Manage CBP-funded *monitoring networks* and collaborate with monitoring organizations.
- Ensure *data comparability*, completeness, and integrity.
- Update and deliver the *status and trends (indicators) of ecosystem conditions.*
- Contribute to *explaining ecosystem condition and change*.
- Conduct *modeling* to improve water-quality decision-making and better understand and predict ecosystem response.
- Filling *relevant technical gaps*: B2025 topics, cross-GIT discussions, etc…


CHESAPEAKE SCIENCE SUPPORT
GOAL IMPLEMENTATION TEAMS: SCIENCE NEEDS
FISHERIES
HABITAT
WATER QUALITY
HEALTHY WATERSHEDS
STEWARDSHIP
LEADERSHIP
STAC: Science Advisors
GUIDANCE
REVIEW
ADVICE ON PROVIDERS
STAR: Science Coordination
MONITORING
DATA INTEGRITY
STATUS AND TRENDS
EXPLAIN AND PREDICT CHANGE
MODELING
CLIMATE CHANGE
INFORMATION AND GIS SUPPORT
SYNTHESIZE AND INFORM
Science Providers
CBP OFFICE
FEDERAL
STATE
LOCAL
ACADEMIC
NGOs

How we operate: STAR and STAC

STAR:

- Science Coordination
- Operational – day, weeks, months
- Increase science capacity
- Keep your head down...
- SRS and adaptive management
- Complement STAC

STAC:

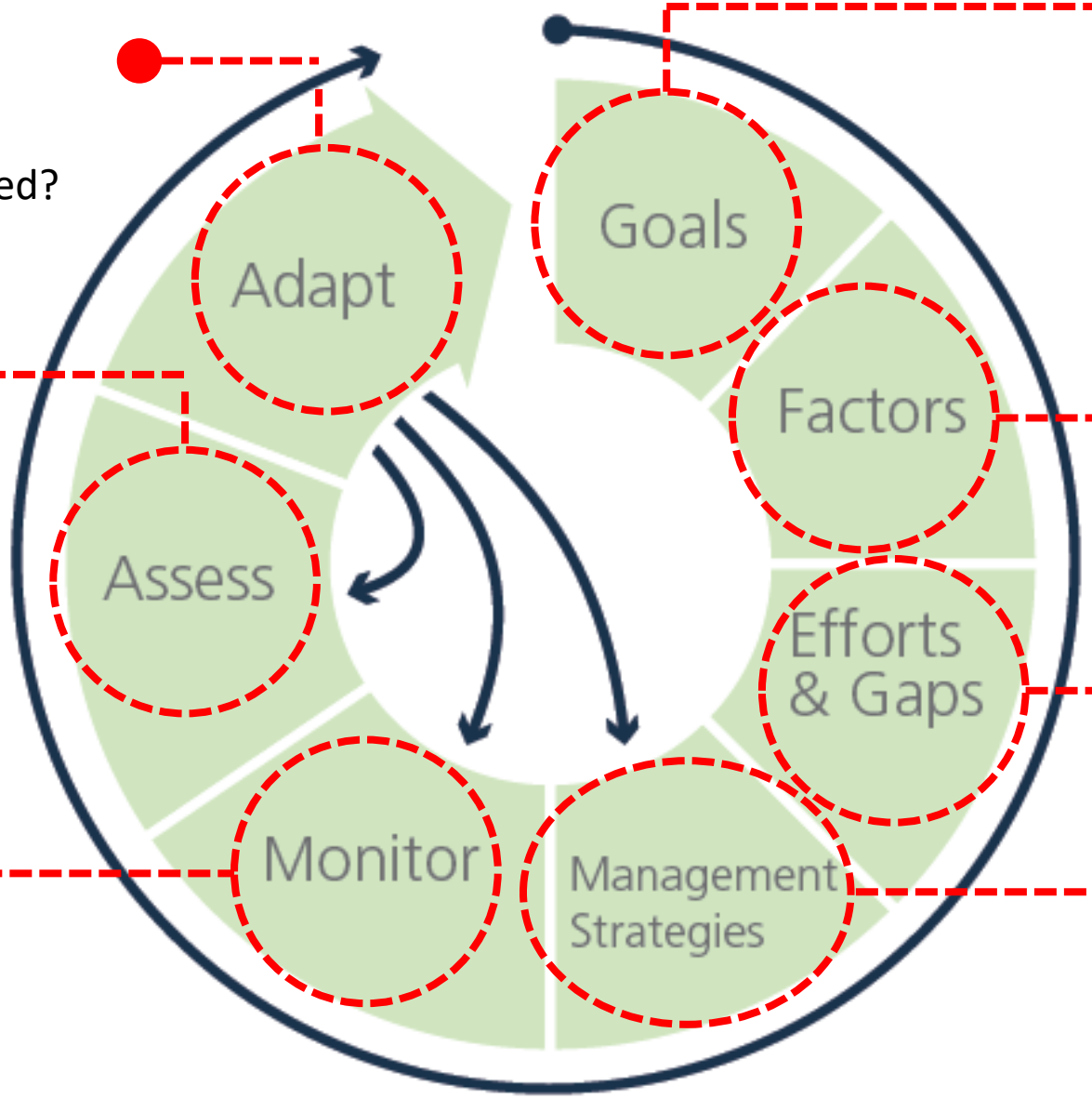
- Science Advising
- Independent Review and recommendations
- Synthesis, State of science
- Lift your heads up...
- SRS And adaptive management
- Complement STAR

Roles of STAR and STAC in CBP adaptive management:

STAC
What have we learned? What changes are needed?

STAC/STAR
Performance Assessment. Effectiveness of Management Actions.

STAR
Monitoring Network Design to Support Adaptive management.



STAC
What are the Current Conditions? Identify need for progress.

STAC/STAR
Identify the Impacts of stressors.

STAR
Identify science needs

STAR
How do we fill Monitoring, Research, and Assessment Gaps? Implementation.

From: L. Rubin et al.

Discussion