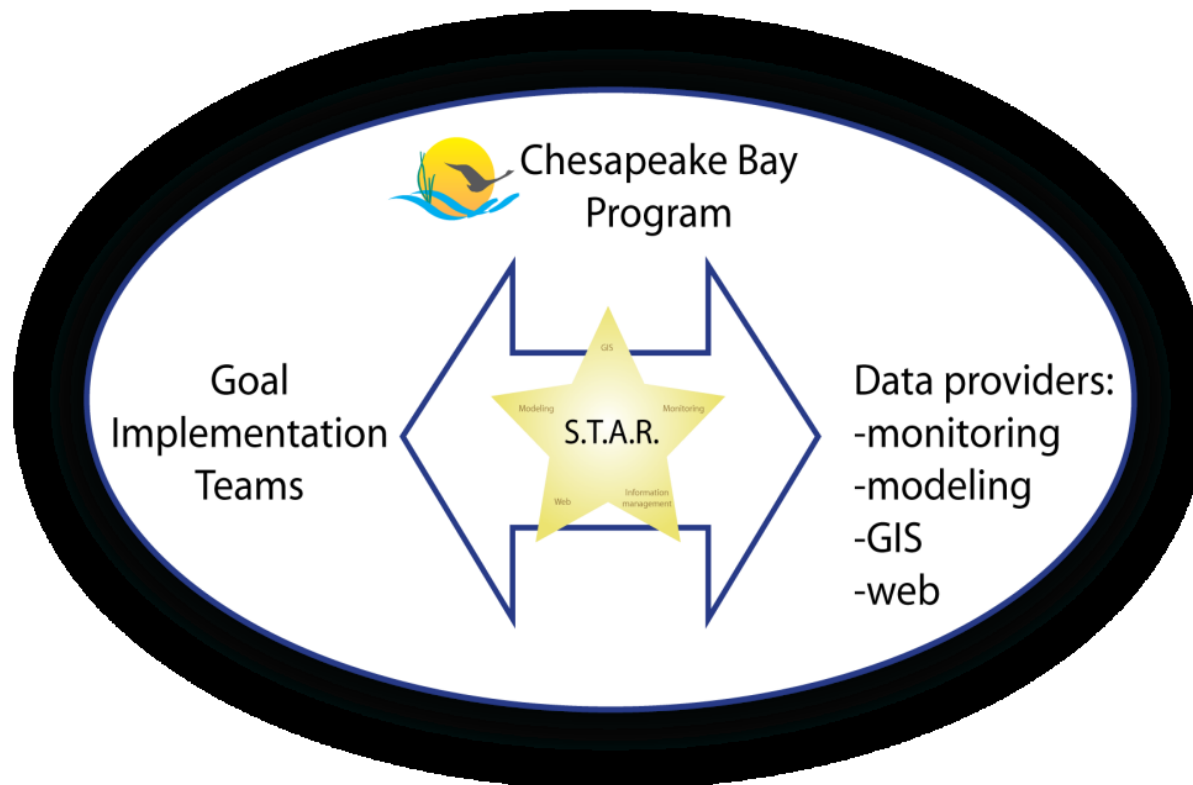


Evolving the Scientific, Technical Assessment, and Reporting (STAR) Team to Better Meet the Science Needs of the Chesapeake Bay Program

Scott Phillips, (USGS) and Mark Bennett (USGS)
On Behalf of the STAR Action Team,
March 1, 2011

Evolving STAR

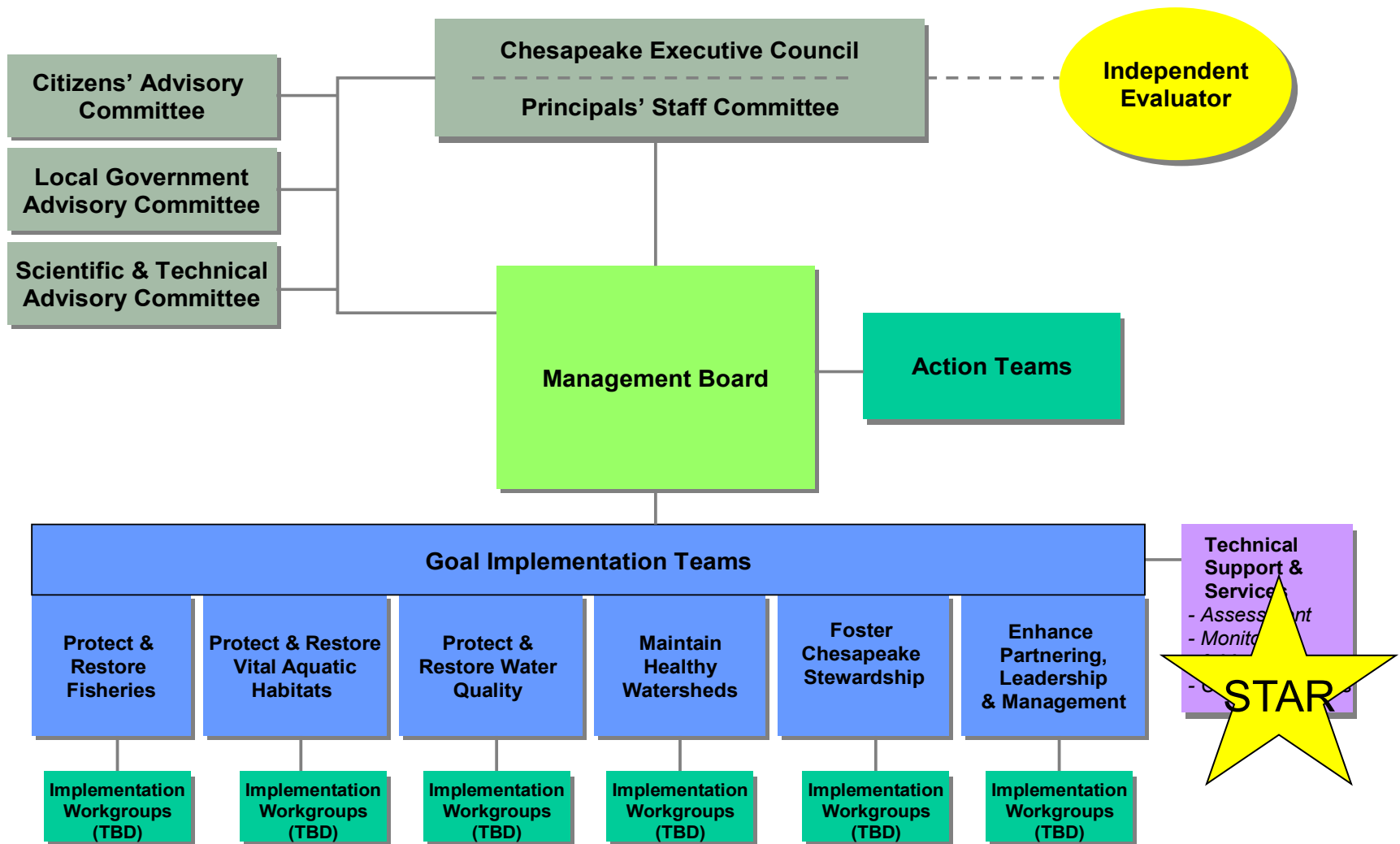
- **Goal and Need:** Increase science support to the CBP Goal Implementation Teams and partners



Action Team

- **Charge:** Identify ways to increase science capacity to address the needs of CBP Goal Implementation Teams and partners
- Refine priority science needs of Goal Teams
- Revise purpose and functions of STAR
- Opportunities to increase capacity
 - Executive Order Science activities
 - State and academic partners
- Recommendations and actions to evolve STAR
- Report completed Jan, 2011

Goal Team Science Needs





Chesapeake Bay
Program

Identified Priorities

Fisheries (I)

Target: Benthic characterization for oysters/fish

Monitor: Oysters and fisheries

Evaluate: valuation of ecological services

Habitat (II)

Target: wetlands, priority species, stream restoration

Monitor: species for fish passage, stream habitat, LIDAR or wetland change

Evaluate: Bird data, wetland extent, habitat/BMPs, brook trout and black duck indicators

Water Quality (III)

Target: BMPs on the landscape

Monitor: BMP implementation, H2O quality

Evaluate: Response to management actions

Healthy Watersheds (IV)

Target: Update land resource assessments

Monitor: landscape coverage

Evaluate: landscape change

Stewardship (V)

Target: Societal well being, land conservation

Monitor: Public access, livable communities

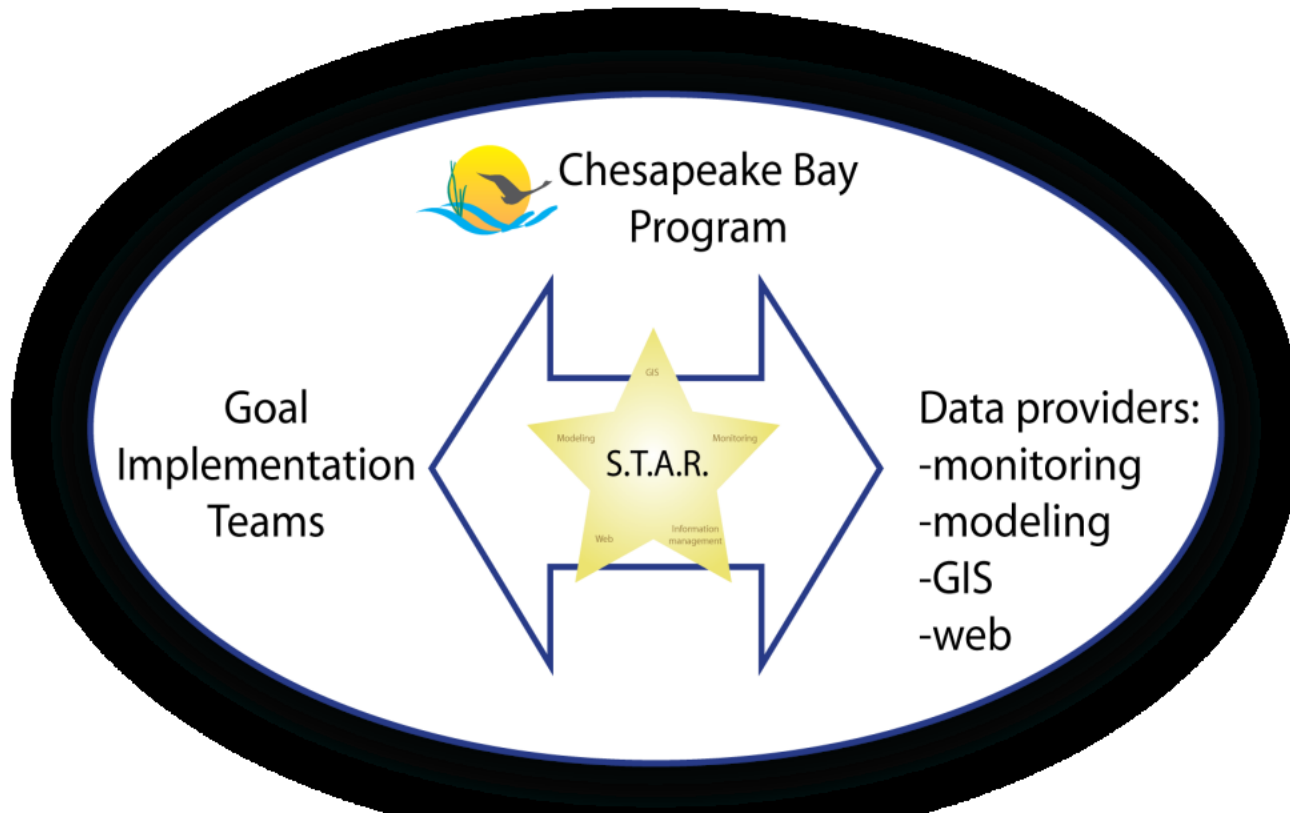
Evaluate: Watershed experience, citizen actions

Additional Findings-GITs

- Diverse technical needs
- Need clear goals and outcomes
 - Chesapeake 2000
 - Executive Order
- Varying science capacity
- Annual planning process for GITs and STAR
 - Management Board leadership
- Confusion about STAR vs. STAC

STAR-Revised Purpose

- Science providers for CBP
 - Serve the science needs of the GITs
 - Summarize and communicate information
- Facilitate with science providers to increase capacity



Revised Purpose

CHESAPEAKE SCIENCE SUPPORT

GOAL IMPLEMENTATION TEAMS

FISHERIES

HABITAT

WATER
QUALITY

HEALTHY
WATERSHEDS

STEWARDSHIP

LEADERSHIP

Scientific and Technical Analysis and Reporting (STAR)

- MODELING AND PRIORITIZATION TOOLS
- MONITORING, ASSESSMENT, INDICATORS
- EVALUATION
- COMMUNICATION
- DATA SHARING

CBP OFFICE

FEDERAL

STATE

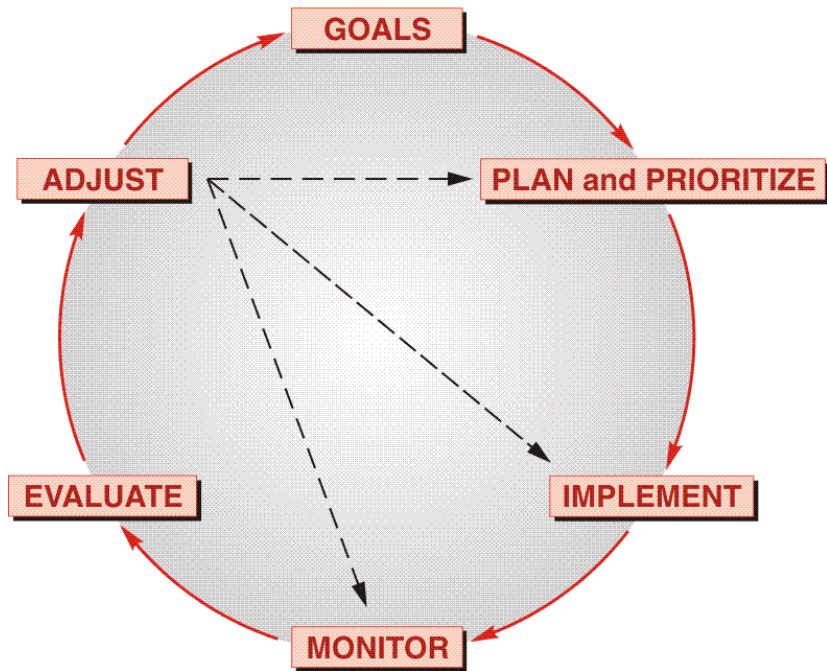
ACADEMIC

S
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Revised STAR Functions

ADAPTIVE MANAGEMENT FOR ECOSYSTEM DECISION MAKING

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

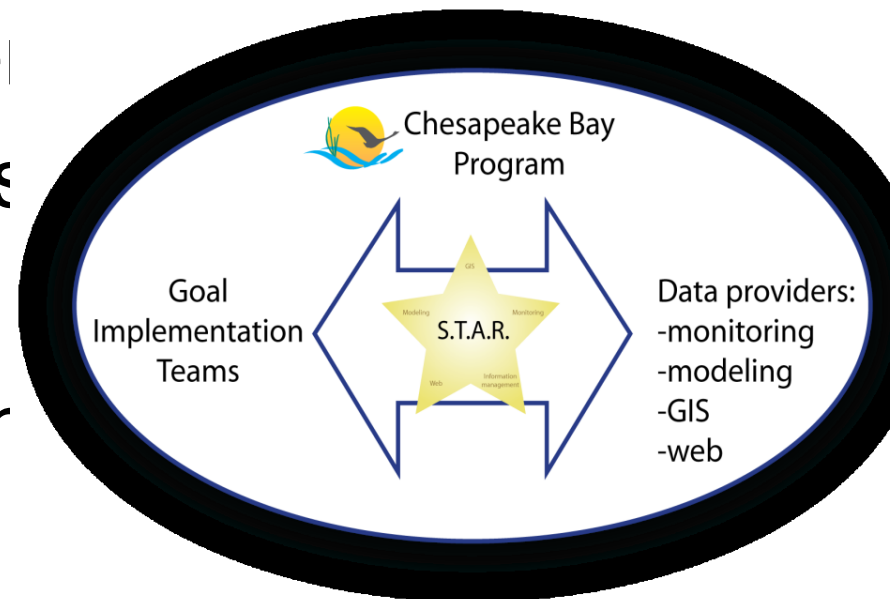


- Modeling and decision tools
- Monitoring, assessment and indicators
 - Monitoring Alliance
- Evaluation and synthesis
- Communicate results
 - Bay Barometer
 - ChesapeakeStat
- Information sharing and management
 - Data Enterprise
- Liaison to science providers

- Serve Goal Implementation Teams
 - Providers (STAR) vs. Advisors (STAC)
- STAC roles
 - Review of STAR approaches
 - Modeling
 - Monitoring and indicators
 - Evaluate
 - Identify new issues and research needs (such as climate change)
 - CBP bi-annual science meetings
 - Workshops (some joint with STAR)

Short-term actions

- Liaisons with each GIT
- Topical meetings
- Increase science provided
- Evolve STAR workgroups
- Interaction with STAC
- Prepare annual work plan



Next Steps

- Conduct Initial topical workshops
 - Integrated monitoring to assess progress toward TMDL and milestones
 - Stream restoration and protection
- Increase science providers
 - Federal Liaisons
 - Id Agency expertise and projects
 - Align with EO action plan and resources
 - States
 - Liaison to STAR and members on workgroups
 - Academic
 - CRC, Potential funds for synthesis

Management Board

- Suggestions for other actions
- ID Federal and State liaisons to STAR
- Issues for topical workshops
- Annual planning for Goal Teams and STAR
- Contacts:
 - Mark Bennett (STAR acting chair)
 - Peter Tango (STAR coordinator)
 - Scott Phillips (USGS, EO Science Coordination)