The Chesapeake Bay Partnership's "Strategy Review System": Developing an Adaptive Management System for Restoring the Chesapeake Bay

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Presentation Objectives:

1. **Background** – *why did we develop an Adaptive Management System?*
2. **Developing the Process** – *how did we develop the Adaptive Management System?*
3. **Lessons Learned** – *what would we do next time and what would we avoid?*

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Adaptive Management Charge: *"The Partnership will…"*

"Adaptively Manage at all levels of the Partnership to foster continuous improvement."
(pg. 2)

"…re-evaluate biennially and update strategies as necessary with attention to changing environmental and economic conditions."
(pg 15)

And Here is How It shall be done…

The "Decision Framework"!

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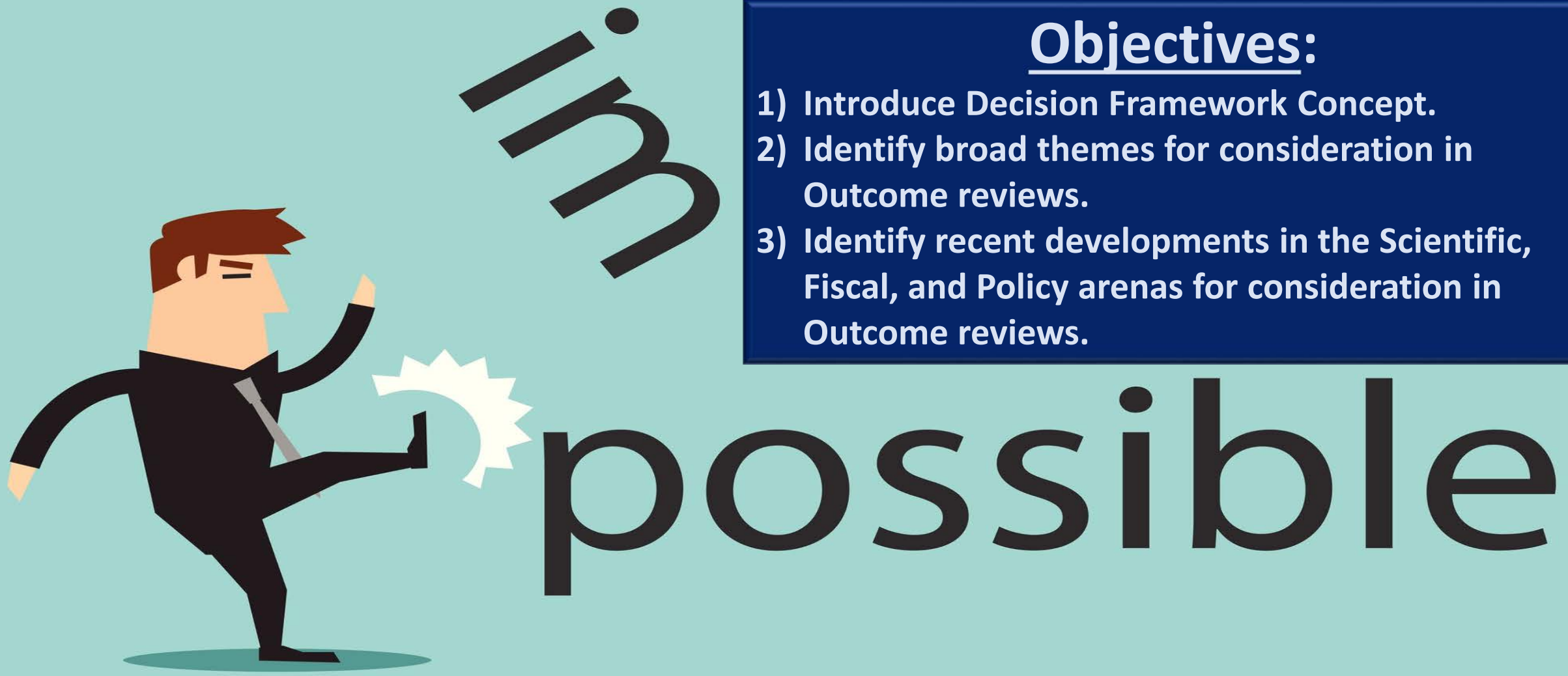
First: We formed a committee

12 Members

- Dedicated Coordinator and Staffer
- 8 Full-time CBP employees
- 3 "Partner" staff including 2 STAC representatives

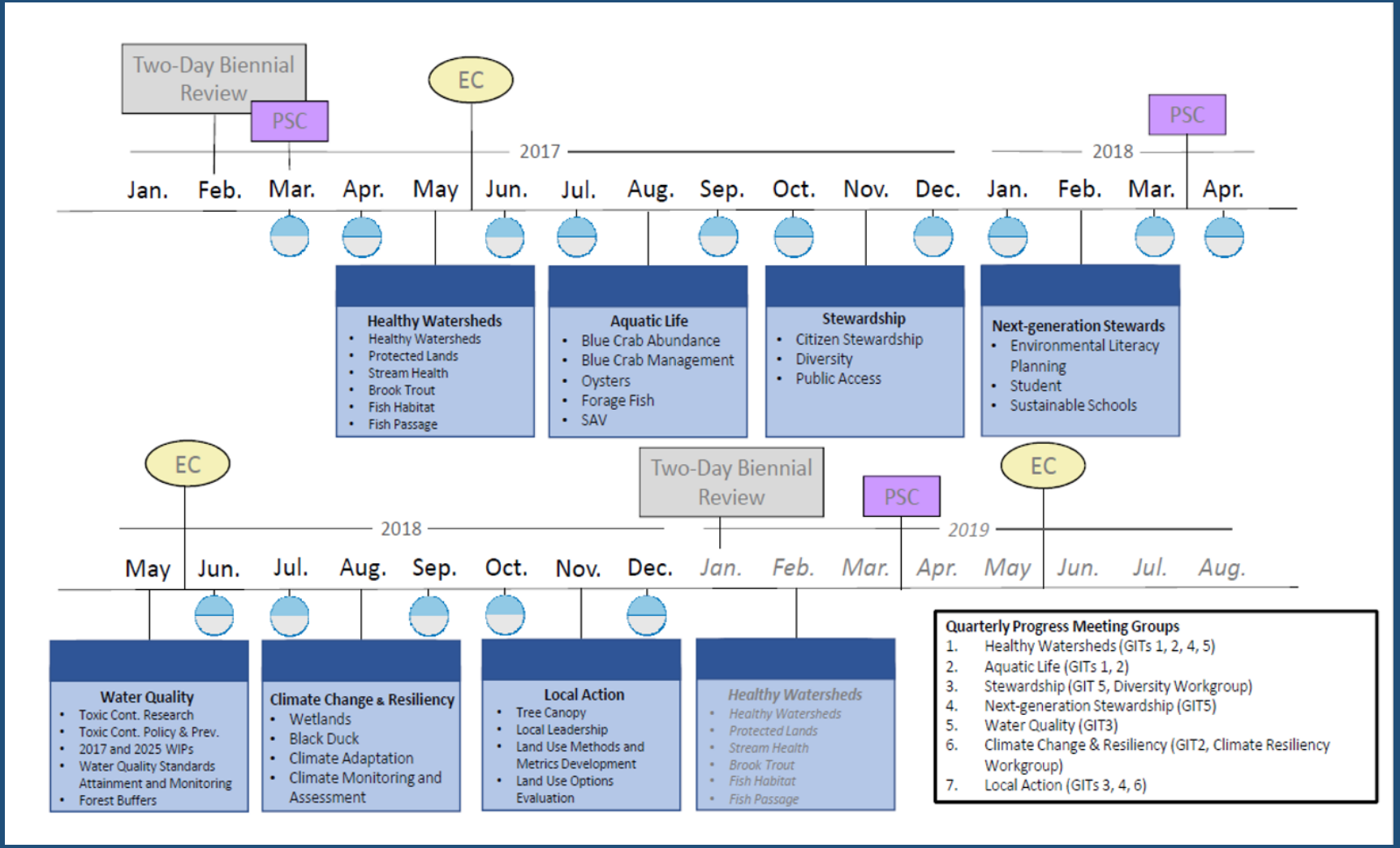
Second: We held a "Kickoff" meeting



Objectives:

1) Introduce Decision Framework Concept.
2) Identify broad themes for consideration in Outcome reviews.
3) Identify recent developments in the Scientific, Fiscal, and Policy arenas for consideration in Outcome reviews.

Third: We developed a schedule



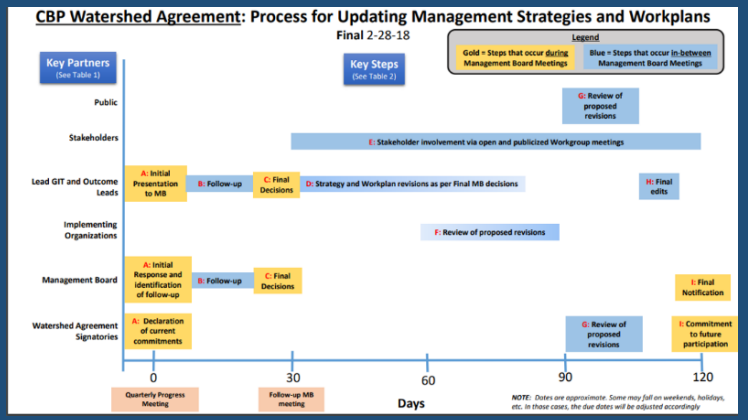
Fourth: We generated a lot of instructions

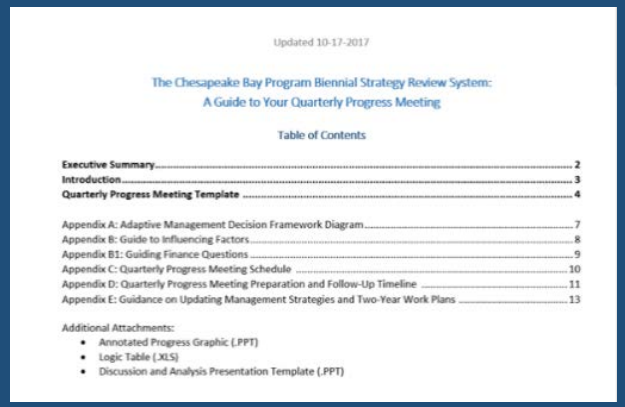
Biennial Strategy Review System (SRS)

The Chesapeake Bay Program's Biennial Strategy Review System (SRS) is the adaptive management-based review process by which the Partnership seeks to meet the following Chesapeake Bay Watershed Agreement commitment:

"Goal Implementation Teams will re-evaluate biennially and update strategies as necessary, with attention to changing environmental and economic conditions. Partners may identify policy changes to address these conditions and minimize obstacles to achieve the Outcomes."

Biennial SRS General Description (607.14 KB)
Biennial SRS Outcome Groupings and Schedule (with legend) (116.03 KB)
2018 SRS Meeting Calendar (106.18 KB)
Quarterly Progress Meeting Prep Schedule (July 2017-December 2018) (617.65 KB)
Quarterly Progress Meeting Guide (317.78 KB)
Quarterly Progress Meeting Logic Table and Work Plan (35.17 KB)
Quarterly Progress Meeting Logic Table and Work Plan EXAMPLE (42.26 KB)
Quarterly Progress Meeting Presentation Template (1.28 MB)
Quarterly Progress Meeting Presentation Optional Graphic (35.23 KB)
Management Strategy Review Guidance (675.17 KB)
Management Strategy and Workplan Update Schedule (with dates) (699.77 KB)
Process for Updating Watershed Agreement Strategies (April 2018) (384.2 KB)





Updated 10-17-2017

The Chesapeake Bay Program Biennial Strategy Review System:
A Guide to Your Quarterly Progress Meeting

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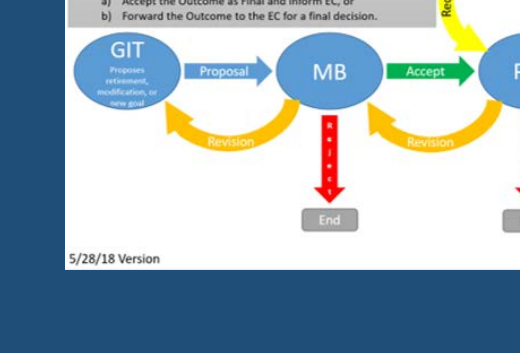
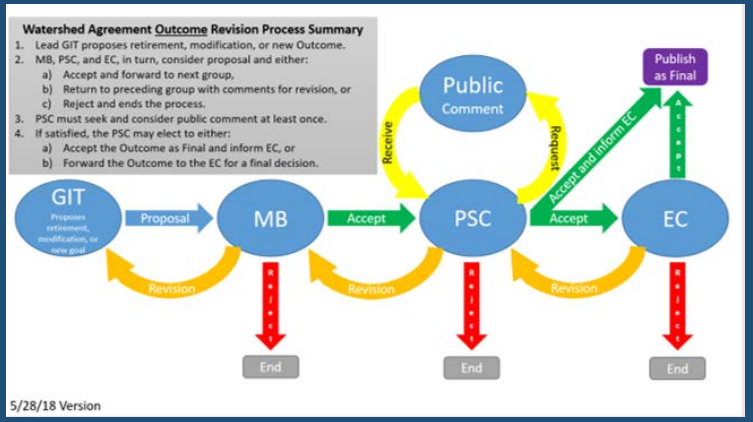
Additional Attachments:

- Annotated Progress Graphic (.PPT)
- Logic Table (.XLS)
- Discussion and Analysis Presentation Template (.PPT)





Fifth: We held a lot more meetings

2018 SRS Meeting Schedule

So what did we end up with? A 3-Step Process

Analyze

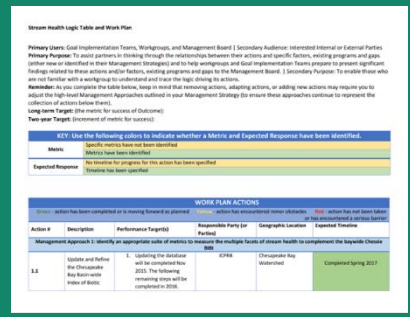
Outcome leads use Decision Framework to review current Workplan and progress, and identify recommended adjustments.

Adjust

Outcome leads and Management Board meet, discuss, and finalize decisions on adjustments.

Act

Partnership revises 2-Year Workplan, Strategy, and (if necessary) Outcome and Goal accordingly.


Stream Health Logic Table and Work Plan

Primary Users: Goal Implementation Teams, Workgroups, and Management Board | Secondary Audience: Interested Internal or External Parties

Primary Purpose: To assist partners in thinking through the relationships between their actions and specific factors, existing programs and gaps (either new or identified in their Management Strategies) and to help workgroups and Goal Implementation Teams prepare to present significant findings related to these actions and/or factors, existing programs and gaps to the Management Board. | Secondary Purpose: To enable those who are not familiar with a workgroup to understand and trace the logic driving its actions.

Reminder: As you complete the table below, keep in mind that removing actions, adapting actions, or adding new actions may require you to adjust the high-level Management Approaches outlined in your Management Strategy (to ensure these approaches continue to represent the collection of actions below them).

Long-term Target: (the metric for success of Outcome):

Two-year Target: (increment of metric for success):

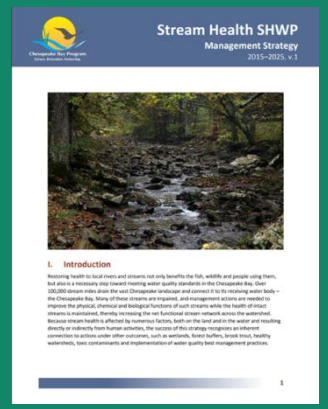
KEY: Use the following colors to indicate whether a Metric and Expected Response have been identified.

Metric	Specific metrics have not been identified
	Metrics have been identified
Expected Response	No timeline for progress for this action has been specified
	Timeline has been specified

WORK PLAN ACTIONS

Green: action has been completed or is moving forward as planned Yellow: action has encountered minor obstacles Red: action has not been taken or has encountered a serious barrier

Action #	Description	Performance Target(s)	Responsible Party (or Parties)	Geographic Location	Expected Timeline
Management Approach 1: Identify an appropriate suite of metrics to measure the multiple facets of stream health to complement the bayside Chessie BIBI					
1.1	Update and Refine the Chesapeake Bay Basin-wide Index of Biotic	1. Updating the database will be completed Nov 2015. The following remaining steps will be completed in 2016.	ICPRB	Chesapeake Bay Watershed	Completed Spring 2017


Stream Health SHWP

Management Strategy

2015–2025, v 1

I. Introduction

Restoring health to local rivers and streams not only benefits the fish, wildlife and people using them, but also is a necessary step toward meeting water quality standards in the Chesapeake Bay. Over 100,000 stream miles drain the vast Chesapeake landscape and connect it to its receiving water body – the Chesapeake Bay. Many of these streams are impaired, and management actions are needed to improve the physical, chemical and biological functions of such streams while the health of intact streams is maintained, thereby increasing the net functional stream network across the watershed. Because stream health is affected by numerous factors, both on the land and in the water and resulting directly or indirectly from human activities, the success of this strategy recognizes an inherent connection to actions under other outcomes, such as wetlands, forest buffers, brook trout, healthy watersheds, toxic contaminants and implementation of water quality best management practices.

MARYLAND DEPARTMENT OF NATURAL RESOURCES

"Developing the Process" Summary:

Adaptive Management is a lot of work, so you need:

#1) Dedicated staff.

#2) Involvement of all participants.

#3) Clear schedule and instructions of who does what when.

#4) Consistent process for all participants.

#5) Support for participants at all steps of the process.

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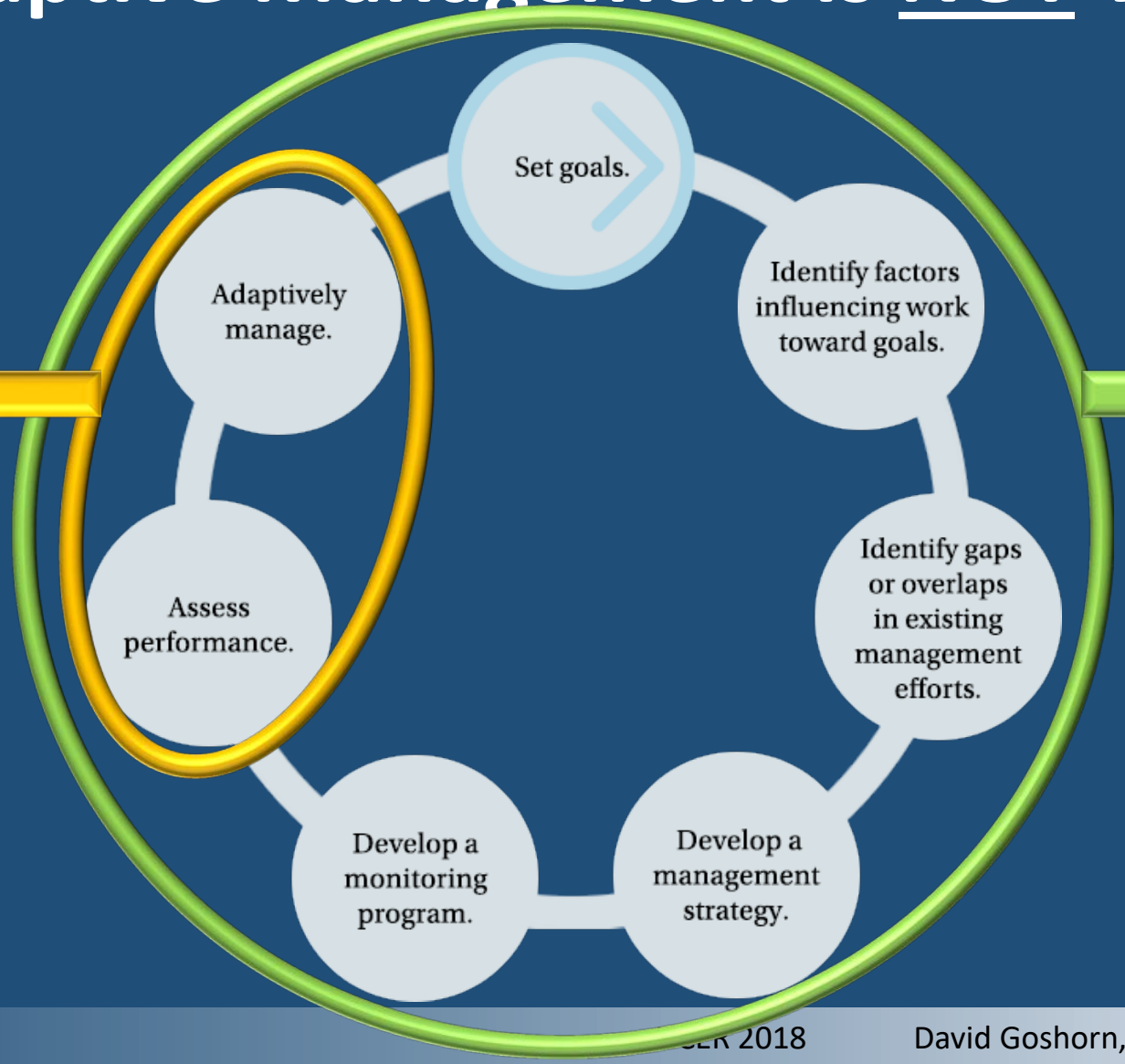
Lesson #1: Adaptive Management is NOT Trial & Error

NOT Adaptive Management

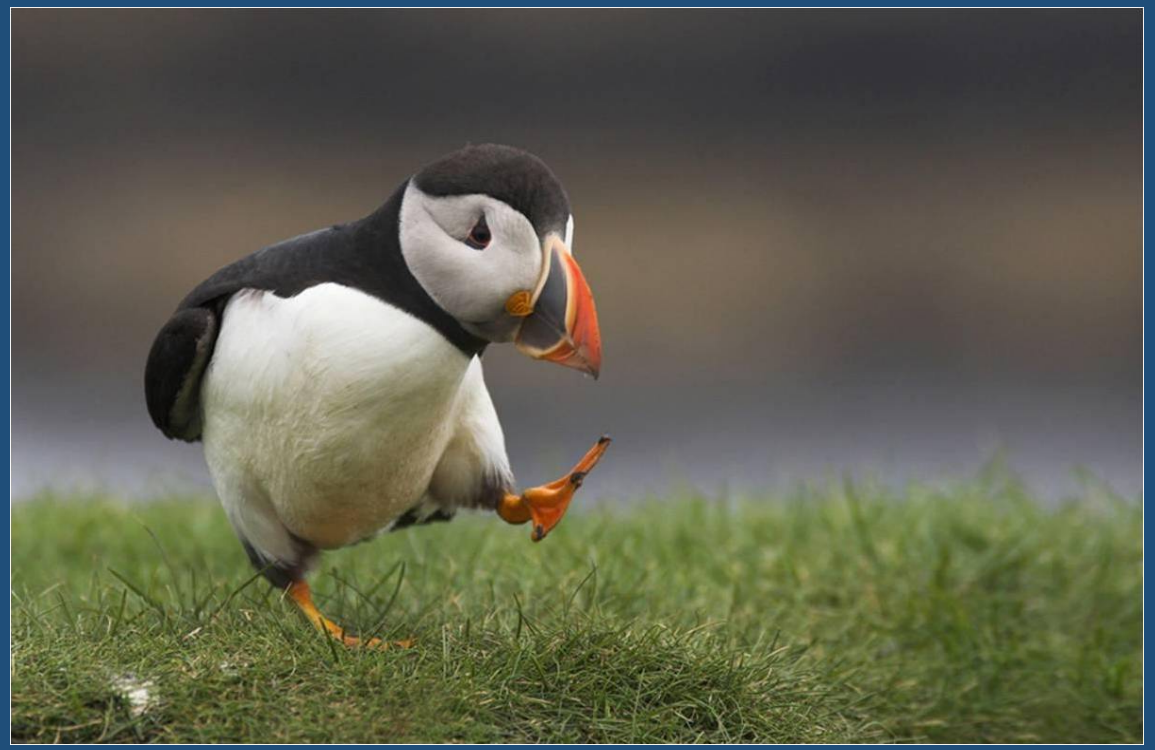


Adaptive Management

Lesson #2: Let the Adaptive Management Process be Adaptively Managed!

- Accept and be open with all that it won't be perfect from the beginning.
- Seek input from the participants and seriously consider their advice.
- Consider phasing in the Adaptive Management in manageable stages.

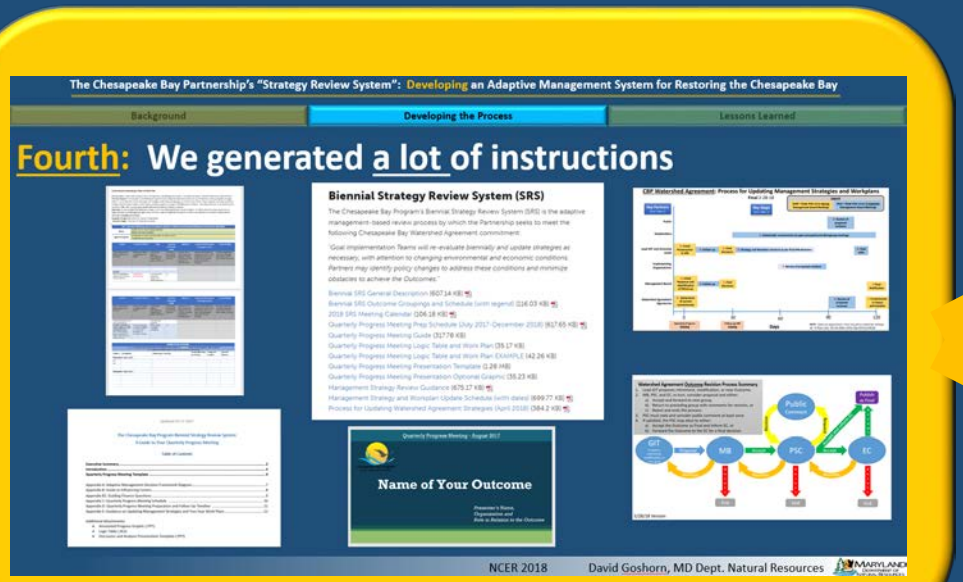
Lesson #3: Don't forget about the "Management" part of "Adaptive Management"!



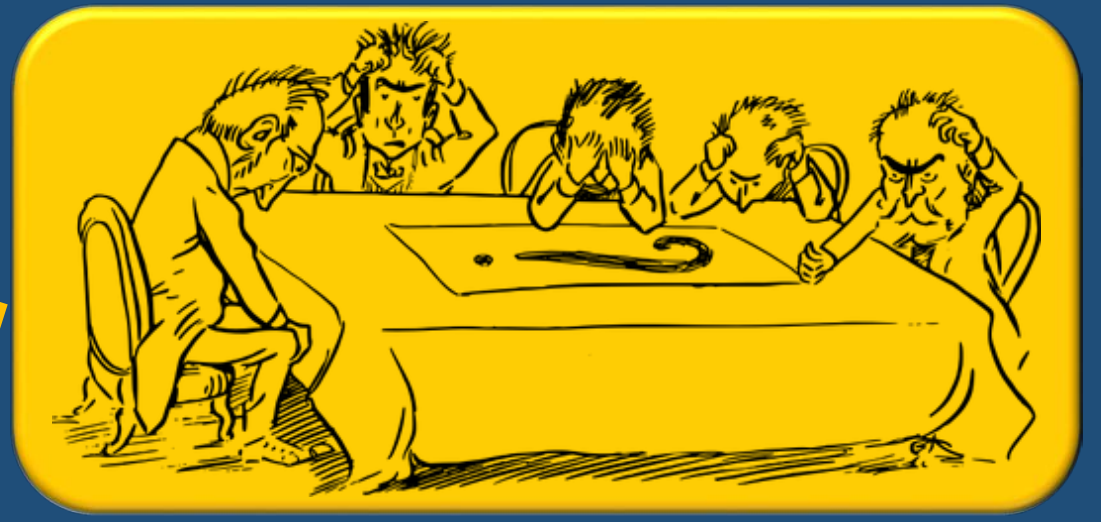
VS

Lesson #4: You must have dedicated support staff.

Lesson #5: Make it as clear and simple as possible.



OR?



Thank You

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