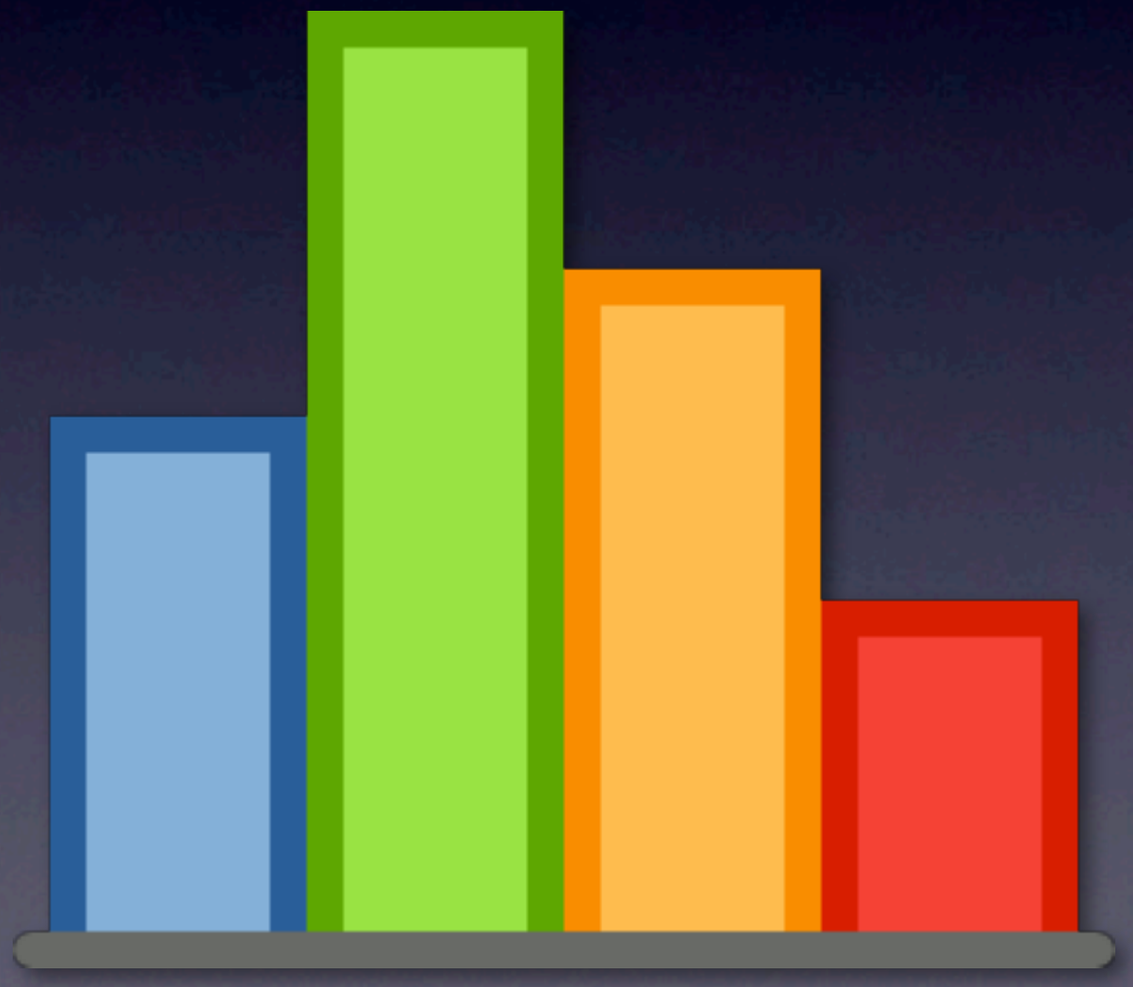
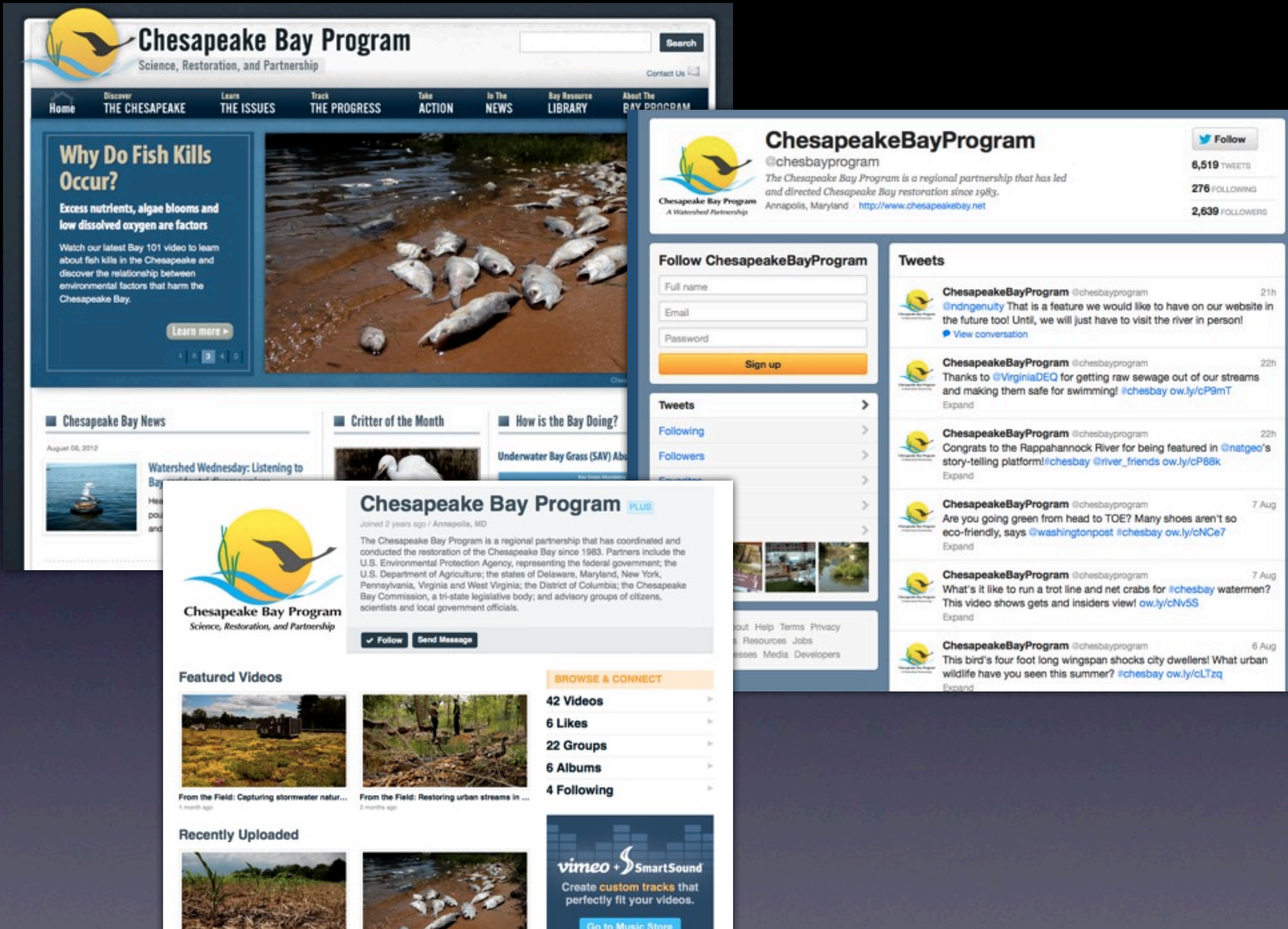
Indicators Evolution

Adapting with Adaptive Management



A State of Flux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Why Do Fish Kills Occur?
Excess nutrients, algae blooms and low dissolved oxygen are factors
Watch our latest Bay 101 video to learn about fish kills in the Chesapeake and discover the relationship between environmental factors that harm the Chesapeake Bay.
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The Chesapeake Bay Program is a regional partnership that has led and directed Chesapeake Bay restoration since 1983.
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@ndngenuity That is a feature we would like to have on our website in the future too! Until, we will just have to visit the river in person!
View conversation
ChesapeakeBayProgram @chesbayprogram 22h
Thanks to @VirginiaDEQ for getting raw sewage out of our streams and making them safe for swimming! #chesbay ow.ly/cP9mT
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Congrats to the Rappahannock River for being featured in @natgeo's story-telling platform! #chesbay @river_friends ow.ly/cP88k
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Are you going green from head to TOE? Many shoes aren't so eco-friendly, says @washingtonpost #chesbay ow.ly/cNCe7
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What's it like to run a trot line and net crabs for #chesbay watermen? This video shows gets and insiders view! ow.ly/cNv5S
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This bird's four foot long wingspan shocks city dwellers! What urban wildlife have you seen this summer? #chesbay ow.ly/cLTzq
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The Chesapeake Bay Program is a regional partnership that has coordinated and conducted the restoration of the Chesapeake Bay since 1983. Partners include the U.S. Environmental Protection Agency, representing the federal government; the U.S. Department of Agriculture; the states of Delaware, Maryland, New York, Pennsylvania, Virginia and West Virginia; the District of Columbia; the Chesapeake Bay Commission, a tri-state legislative body; and advisory groups of citizens, scientists and local government officials.
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Goal Definition Process

???

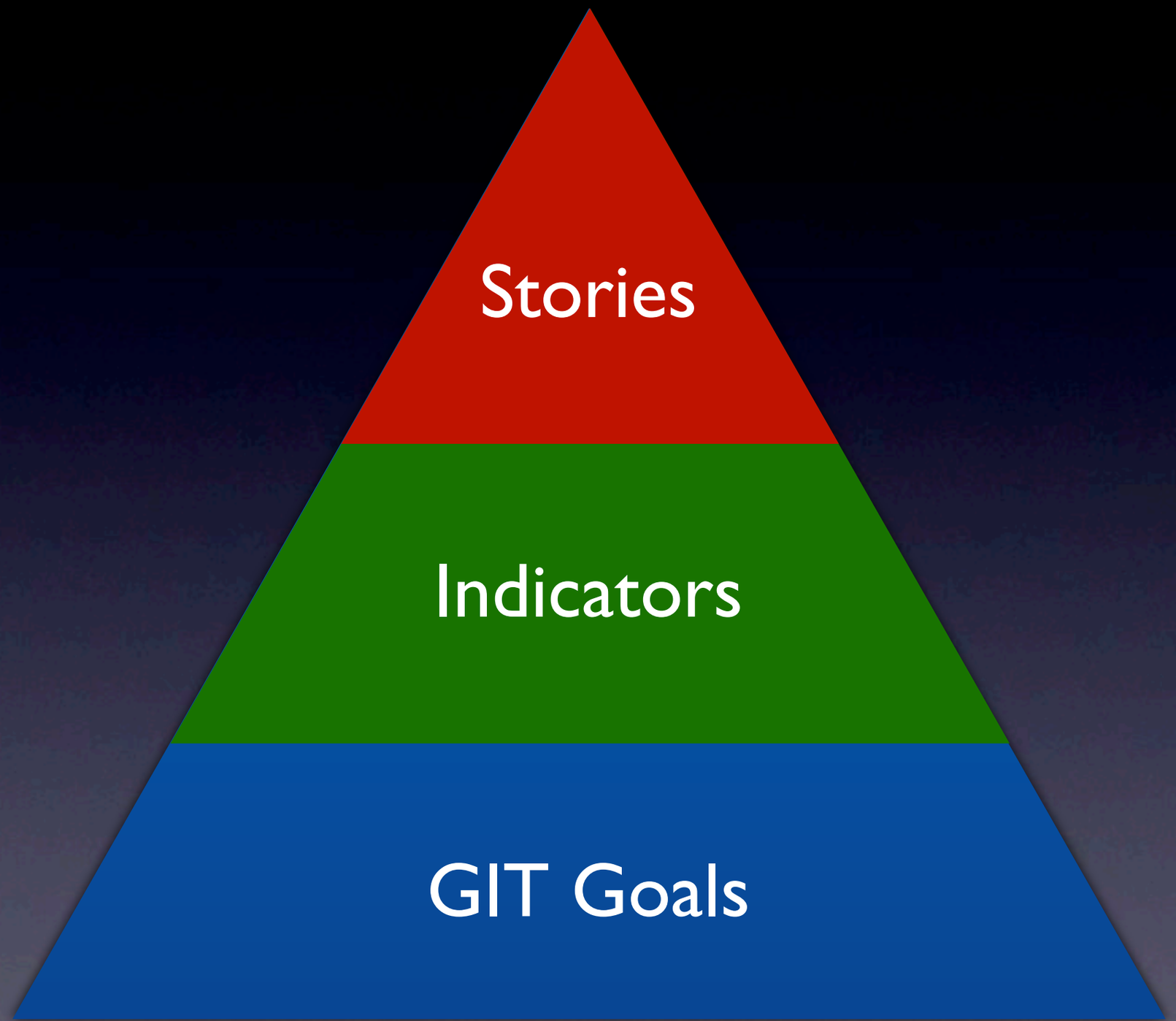
Goal Definition Process

GIT	Workgroup, Taskgroup, Committee	Preliminary GIT Goal Statement (italics = initial goal statement not yet fully developed. **Bold = goal statement developed through the decision framework**)	C2K/Executive Council Agreement Commitments	Executive
Sustainable Fisheries		1. Improve interjurisdictional management of fisheries resources that move across political and administrative jurisdictions.		
		2. Improve the connection between science and management to ensure decision making leads to productive and sustainable fisheries.		
		3. Promote coalition building, information sharing, and appropriate coordination of management decisions that can feed into broader fisheries commissions and councils (e.g., Atlantic States Marine Fisheries Commission [ASMFC] and the Mid Atlantic Fishery Management Council [MAFMC]).		
	Ches. Bay Stock Assessment Committee	4. Maintain sustainable blue crab interim rebuilding target of 200 million adults (1+ years old) in 2011 and develop a new population target for 2012 through 2025.	Maintain crab population of 200 million adults (1+ years old)	Maintain int million adul populati
			Striped Bass: Ecosystem Based Plans for targeted species created by 2005	
			Menhaden: Ecosystem Based Plans for targeted species created by 2005	
			Alosines: Tributary-specific populations targets established by 2002, revised FMPs by 2003	
	Oyster Metric Team	**5. Restore native oyster habitat and populations in 20 tributaries out of 35 to 40 candidate tributaries by 2025.**	2004 Adoption Statement: a ten fold increase in total population by 2010, including restoration of 20 tributaries	Restore native in 20 tributa tr
	Invasive Catfish Workgroup	6. Develop bay-wide policy agreement on blue catfish management.		Combat invas hab
	Invasive Catfish Task Force	7. Reduce the spread of invasive catfish and mitigate their negative impacts on native species.		Combat invas hab

GIT Goals

Indicators

GIT Goals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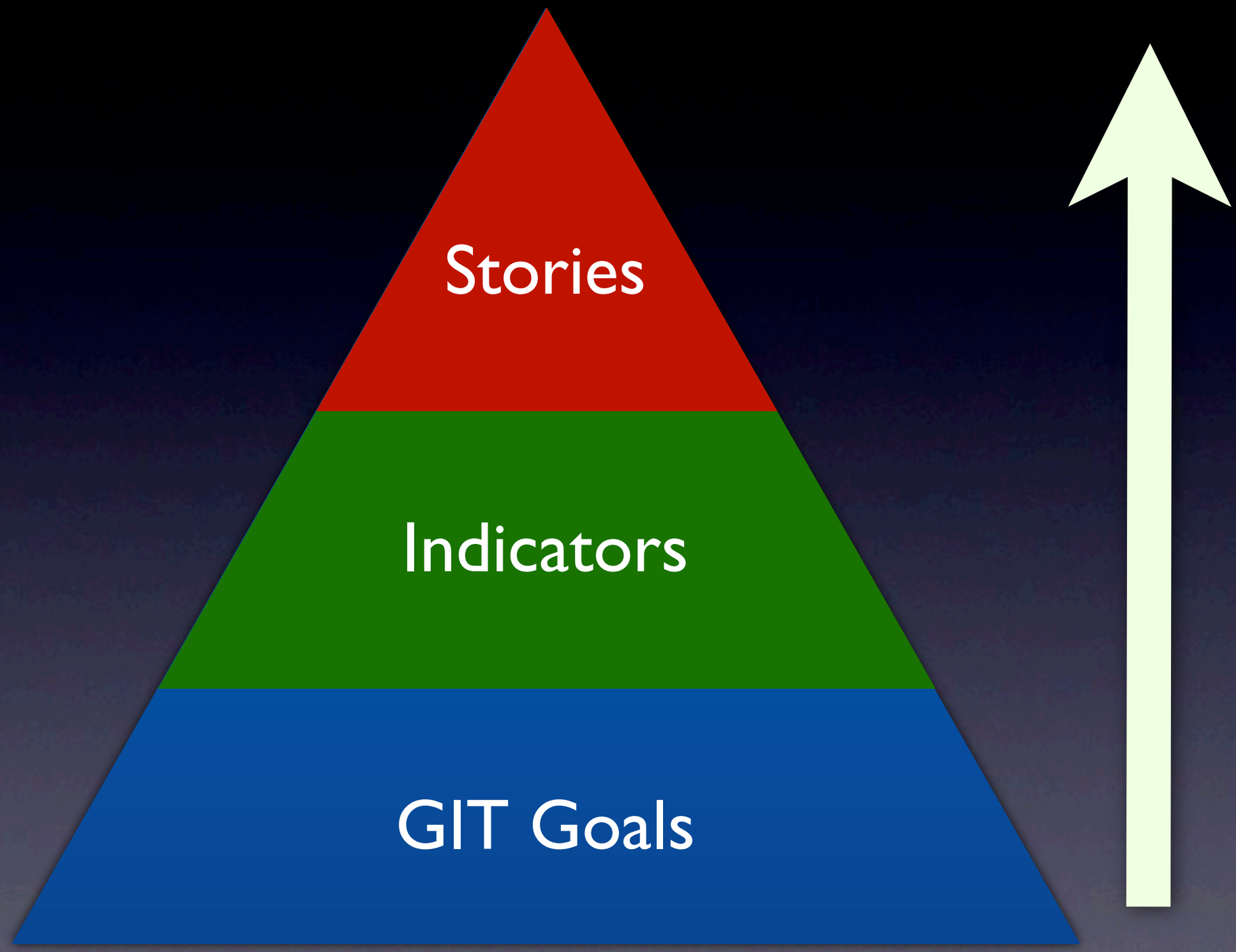
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What about the gaps?

Gaps

Striped Bass

Gaps

Menhaden

Gaps

American Shad

Others?

Is there an expectation that we communicate about these topics?

How do we communicate the addition / removal of indicators?

How will adaptive management affect communicating progress?

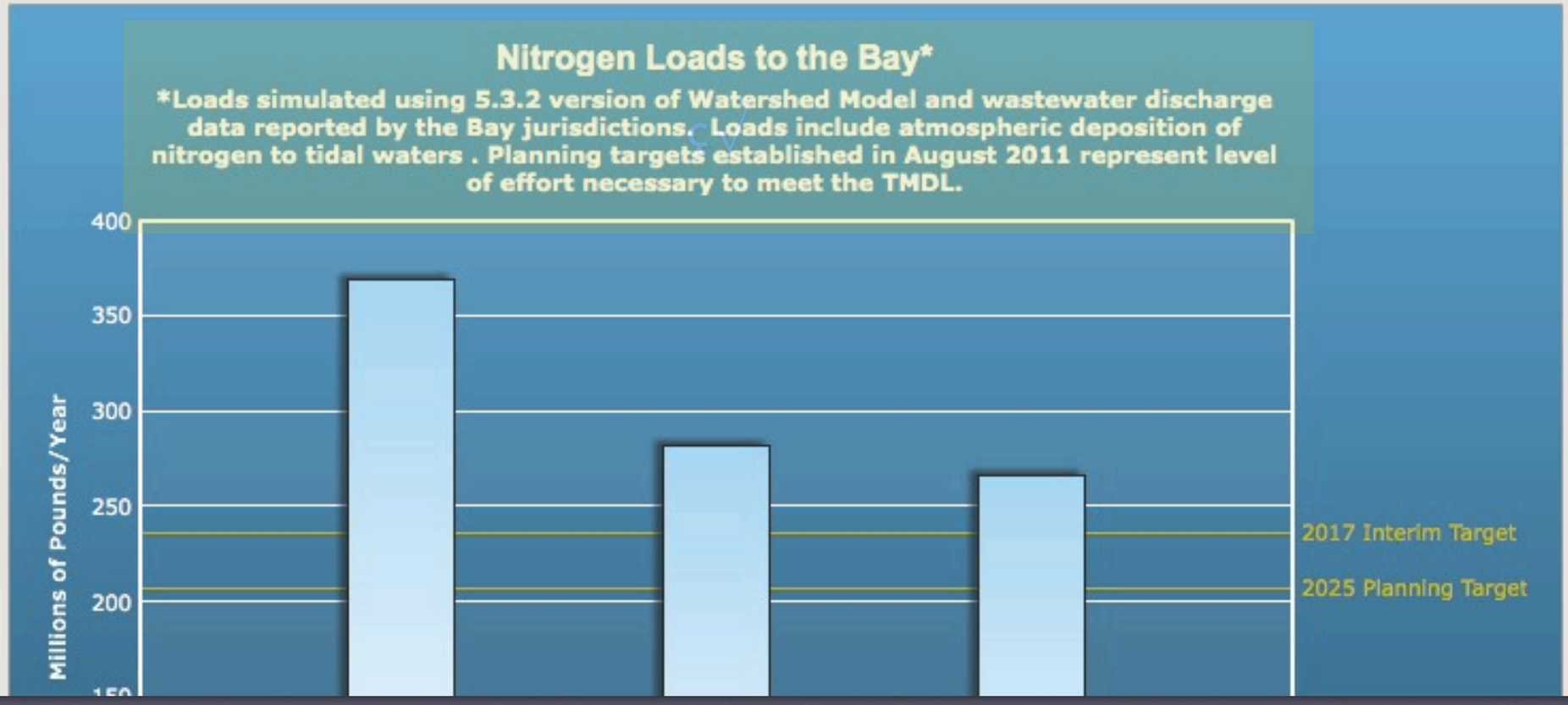
Can we clarify indicators?

Reducing Nitrogen Pollution

Computer simulations of pollution controls implemented between July 2009 and June 2011, calibrated using monitoring data, indicate that nitrogen loads to the Bay would have decreased 15.67 million pounds to 267million*.

* Loads simulated using 5.3.2 version of Watershed Model and wastewater discharge data reported by the Bay jurisdictions. The Chesapeake Bay Program Watershed Model uses actual wastewater discharge data, which is influenced by annual weather conditions, to estimate wastewater pollution. The Model estimates pollution from other sources such as agriculture or urban runoff using average weather conditions. Loads include atmospheric deposition of nitrogen to tidal waters and the portion of atmospheric deposition to the watershed that is EPA's responsibility to reduce under the Clean Air Act.

Annual | Videos



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