

Agenda Item D.2.a
Supplemental NMFS Powerpoint
September 2016



**NOAA
FISHERIES**

Headquarters

NOAA Fisheries Ecosystem Based Fishery Management Road Map

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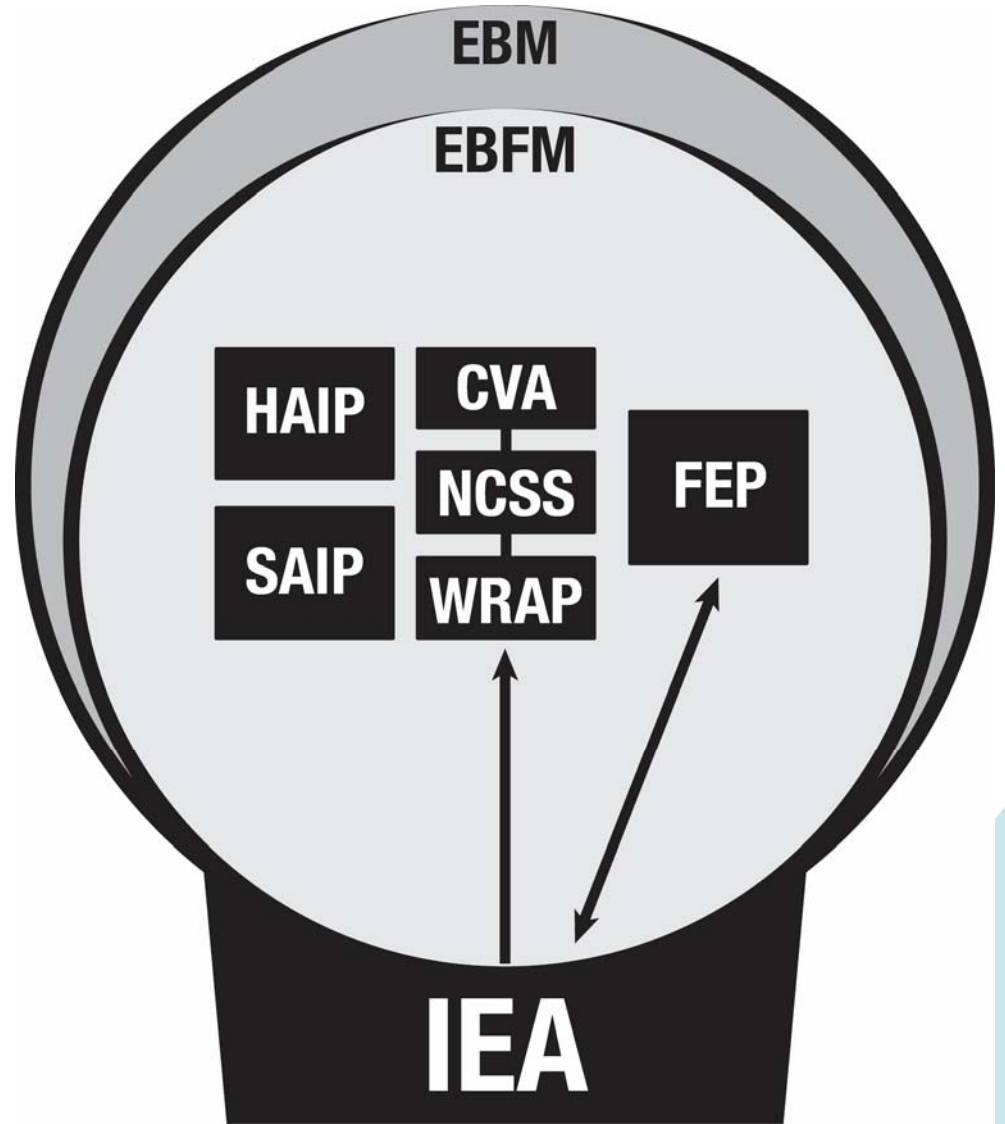
September 2016

Relation to ongoing ecosystem-related activities and context

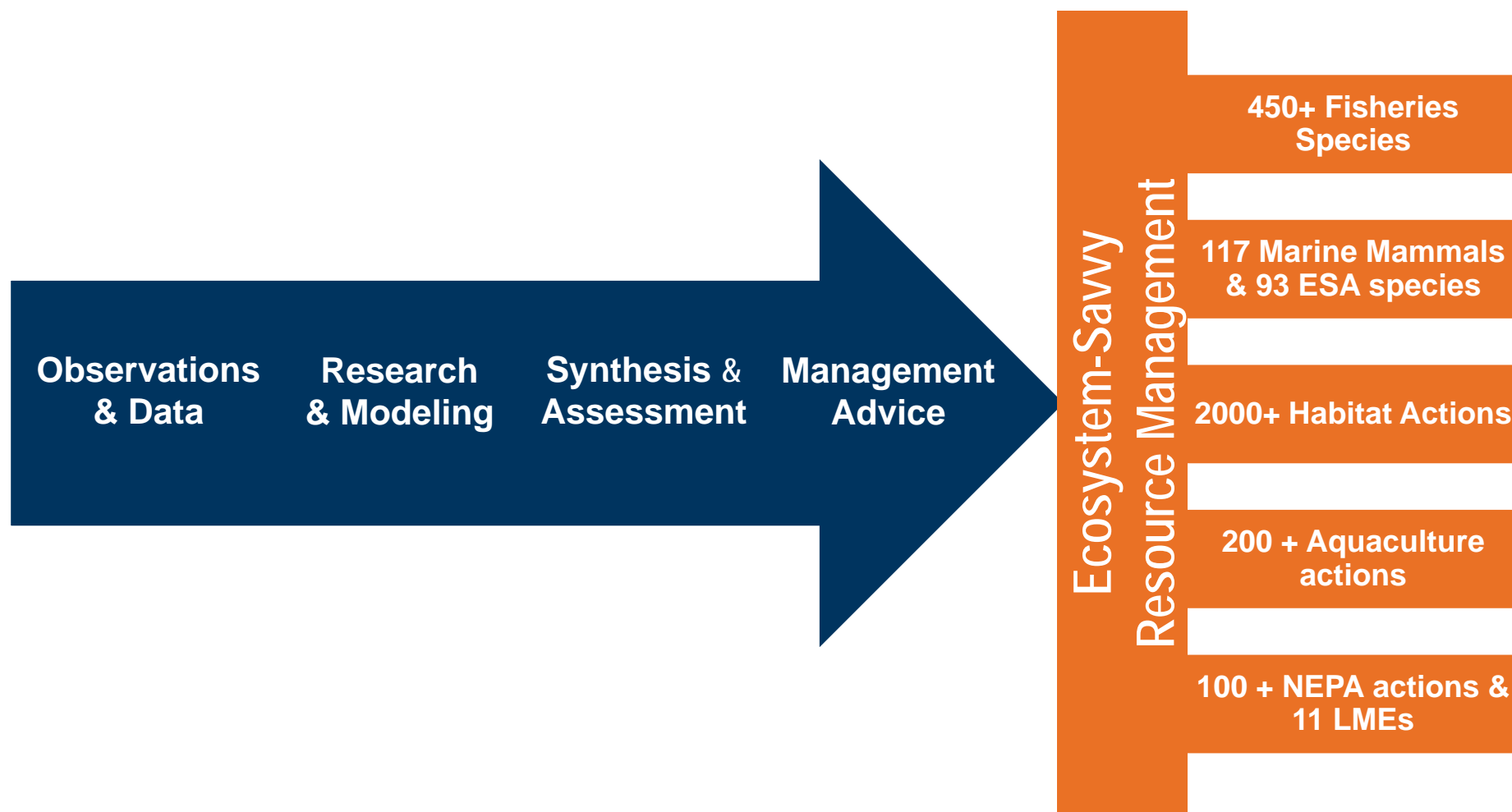


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Levels	Scientific Advice	Management Framework
EBM Ecosystem Based Management	Fisheries Development Energy Eco Tourism Oil & Gas	Regional Ocean Plans
	Conservation Marine Sanctuaries Aquaculture Etc	
EBFM Ecosystem Based Fisheries Management	Climate Habitat Predator	Fisheries Ecosystem Plan
EAFM Ecosystem Approach to Fisheries Management	Climate Habitat Predator	Fishery Management Plan
SS Single Species		Fishery Management Plan



Multiple Mandates, Multiple Opportunities



Key EBFM Road Map Questions



- What does successful EBFM look like?
- What do we need for successful implementation of EBFM?
- How do we measure completion and success of EBFM?



What is the Road Map?

- Guides implementation of EBFM
- Incorporates the menu of options for implementation and benchmarks for NMFS
- Recommends Actions to address each of the Policy's six Guiding Principles in near-term work
- We will review our progress and revise road map after 5 yrs



EBFM Guiding Principles

Outcome

6. Maintain Resilient Ecosystems

What is our advice?

5. Incorporate ecosystem considerations into management advice

What are our options?

4. Explore and address trade-offs within an ecosystem

What are our priorities?

3. Prioritize vulnerabilities and risks of ecosystems and their components

What is the foundational science we need?

2. Advance our understanding of ecosystem processes

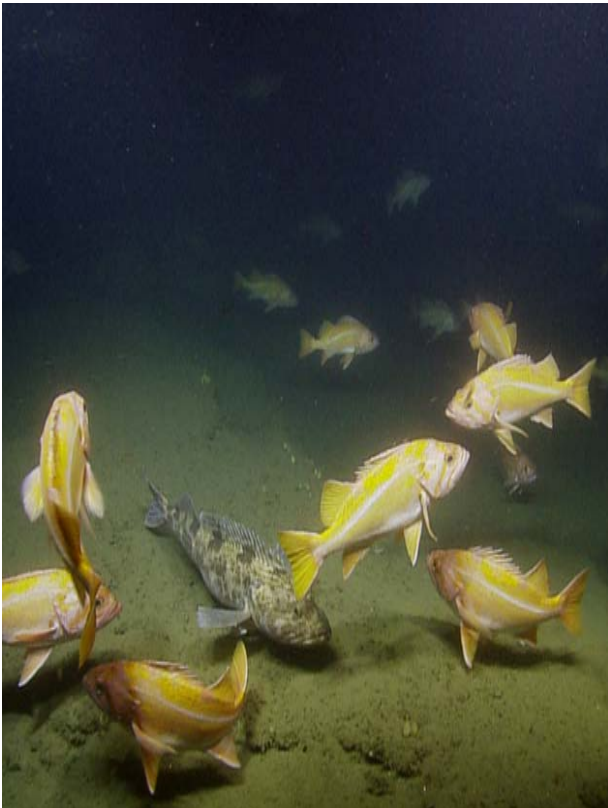
What are our objectives?

1. Implement ecosystem-level planning

6 Guiding Principles, with Core Components are:

1. **Implement ecosystem-level planning**
 - Engagement Strategy
 - Fishery Ecosystem Plans
2. **Advance our understanding of ecosystem processes**
 - Conduct Science to Understand Ecosystems
 - Ecosystem Status Reports
3. **Prioritize vulnerabilities and risks of ecosystems and their components**
 - Ecosystem-level Risk Assessment
 - Managed Species, Habitats & Communities Risk assessment
4. **Explore and address trade-offs within an ecosystem**
 - Modeling Capacity
 - Management Strategy Evaluations
5. **Incorporate ecosystem considerations into management advice**
 - Ecosystem-level Reference Points
 - Incorporate Ecosystem Considerations for Living Marine Resources
 - Systematic Advice for Other Management Considerations
6. **Maintain resilient ecosystems**
 - Evaluate Resilience

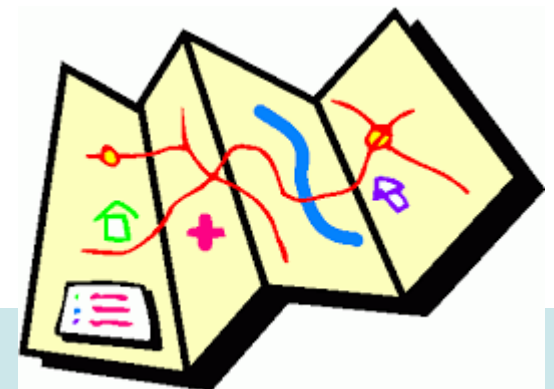
Council and Commission Comments



- Longer comment period
- Concerns about resources and workload
- Data Collection
- Recognition as partners and invited to biennial EBFM reviews
- Wording changes
- Support for effort or a particular action

Summary

- EBFM is needed, and NMFS is committed
- EBFM helps us meet our mission more effectively
- These efforts start to illustrate operational EBFM
- We, and our partners, are already doing ~20-30% of the EBFM elements
- Want ongoing dialogue with councils, commissions, and the public



Next Steps for Road Map

- Comments Due to Jason Link and Heather Sagar by October 15, 2016.
- Final document released in November/December 2016.



Questions?

<http://www.st.nmfs.noaa.gov/ecosystems/ebfm/index>