



BUILDING EFFECTIVE FISHERY ECOSYSTEM PLANS

A REPORT FROM THE LENFEST FISHERY
ECOSYSTEM TASK FORCE

@lenfestocean



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Main Findings and Recommendations

Operationalizing Ecosystem-Based Management requires a structured planning process that leads to action

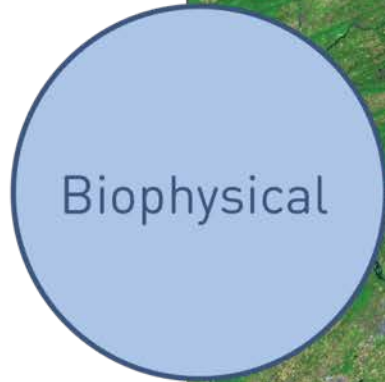
Fishery Ecosystem Plans use existing tools

Fishery Ecosystem Plans integrate social, economic, and ecological goals

Fishery Ecosystem Plans promote transparency in decision making and trade-offs

Ecosystem-Based Fisheries Management

- Climate
- Food Webs
- Habitats
- Vulnerable species



Biophysical

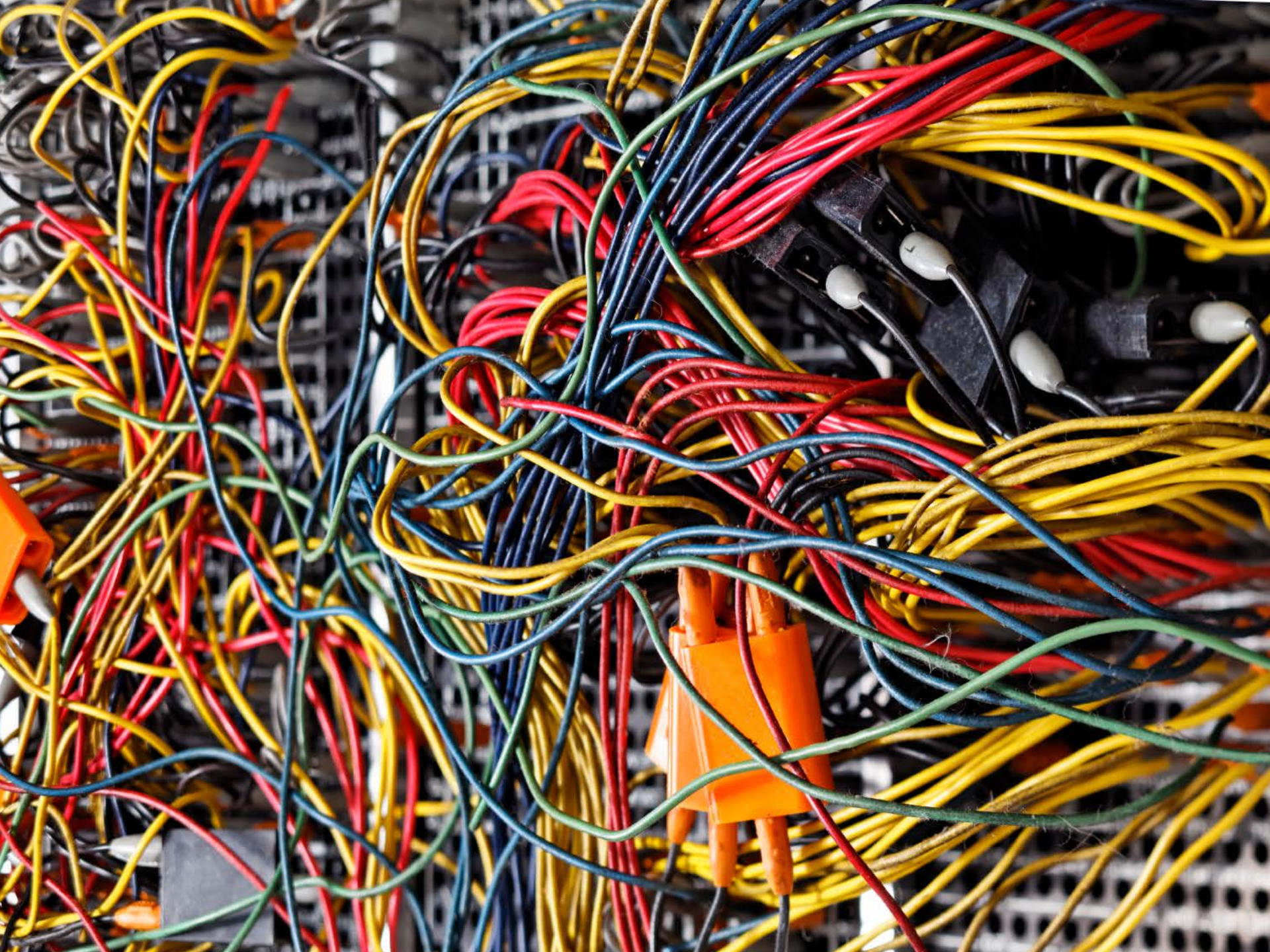
Governance

- MSFMCA
- ESA
- Council/FMP
- Tribal
- International
- States

- Fisheries
- Communities
- Processors
- Cultural values

Humans









1 WHERE ARE WE NOW?

- Develop a conceptual model
- Select and calculate indicators
- Inventory threats



2 WHERE ARE WE GOING?

- Articulate a strategic vision
- Develop strategic objectives
- Analyze risks to objectives

- Prioritize strategic objectives
- Develop operational objectives



3 HOW DO WE GET THERE?

- Develop performance measures
- Identify potential management strategies
- Evaluate alternative management actions
- Select management strategy



4 IMPLEMENT THE PLAN

- Work plan
- Resources

- Outputs
- Timeline



5 DID WE MAKE IT

- Compare monitoring data with predictions



1. WHERE ARE WE NOW?



2. WHERE ARE WE GOING?



3. HOW WILL WE GET THERE?



4. IMPLEMENT THE PLAN



5. DID WE MAKE IT?

LEARN
AND
ADJUST



Next Generation FEPs Overcome Challenges

CHALLENGE

FEP Solution

Complexity

Indicators
Prioritization

Uncertainty

Structured process
Adaptive management

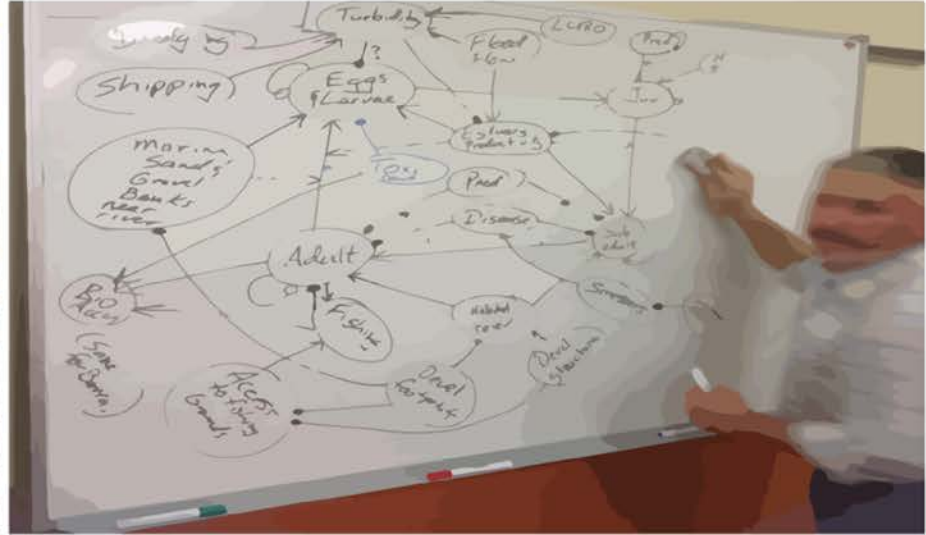
Cost

Streamline management

Clear Objectives

Objective setting

Stakeholder Participation is Crucial Throughout Loop



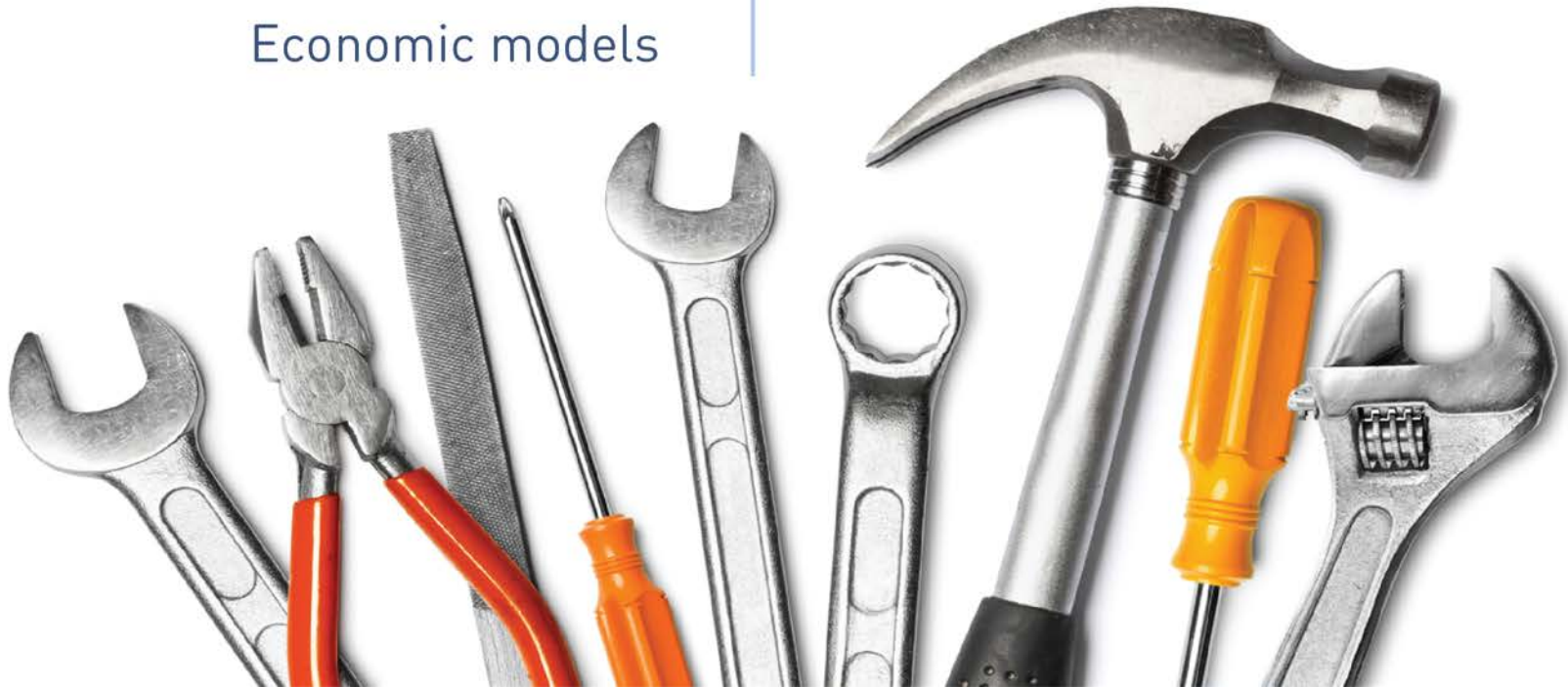
Science and Policy Tools Already Exist

SCIENCE TOOLS

Risk assessment
Scenario planning
Management strategy evaluation
Coupled multi-species models
Models with climate drivers
Economic models

POLICY TOOLS

Existing tools:
But in novel combinations
and calibrated differently to
reach ecosystem objectives



Case Studies



Case Study Findings

No case study did every step

Almost each step was done somewhere

Steps sometimes done out of order (time cost)

Explicit prioritization not found in these case studies

Why FEPs?

From principles to action

Can do

Triple Bottom Line

Choosing among trade-offs



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