



BUILDING EFFECTIVE FISHERY ECOSYSTEM PLANS

A REPORT FROM THE LENFEST FISHERY
ECOSYSTEM TASK FORCE

@lenfestocean

Tim Essington
University of Washington

Ecosystem-Based Fisheries Management is on its way

NMFSI 01-120-01 November 16, 2016

Department of Commerce · National Oceanic & Atmospheric Administration · National Marine Fisheries Service

NATIONAL MARINE FISHERIES SERVICE INSTRUCTION 01-120-01
November 17, 2016

Fisheries Management
Ecosystem-Based Fisheries Management Policy

NOAA FISHERIES ECOSYSTEM-BASED FISHERIES MANAGEMENT
ROAD MAP

NOTICE: This publication is available at:
<http://www.nmfs.noaa.gov/op/pds/index.html>

OPR: F (J. Link)
Type of Issuance: Initial

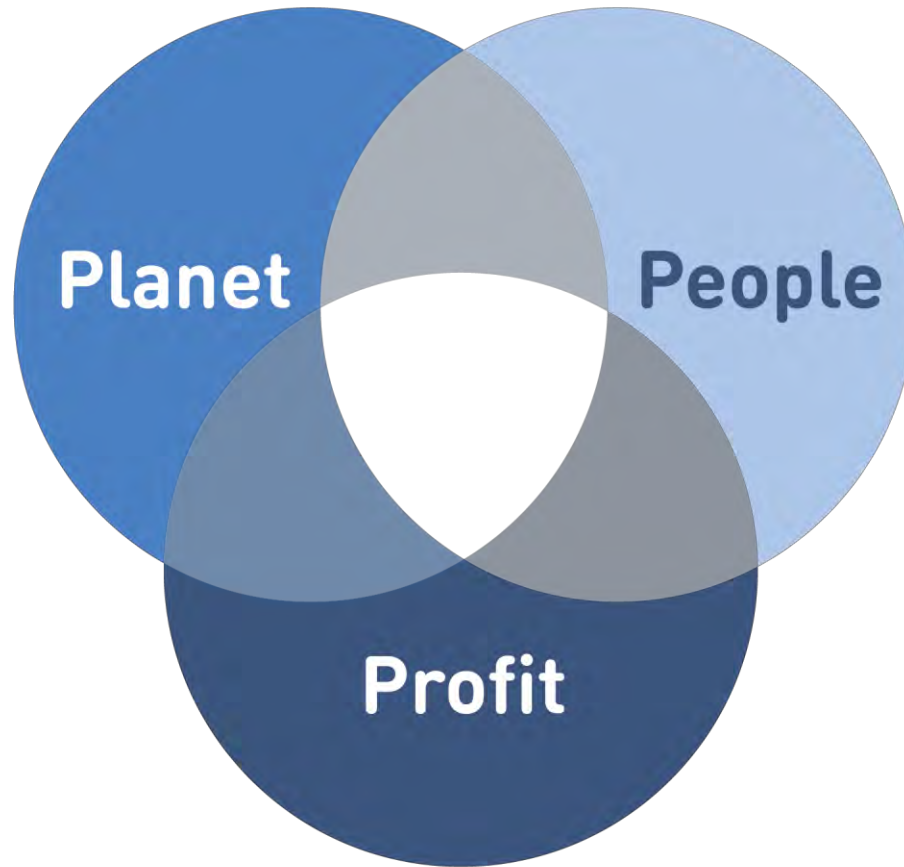
Certified by: F (J. Link)

SUMMARY OF REVISIONS:

Improved Coordination



Triple Bottom Line



Confronting Trade-Offs





Timothy Essington



Phillip Levin



Alida Bundy



Felicia Coleman



Lee Anderson



Christian Möllmann



Olaf Jensen



James Sanchirico



Edward Houde



Leah Gerber



Courtney Carothers



Tony Smith



Jonathan Grabowski



Kenneth Rose



Kristin Marshall



Laura Koehn

Main Findings and Recommendations

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

Fishery Ecosystem Plans use existing tools

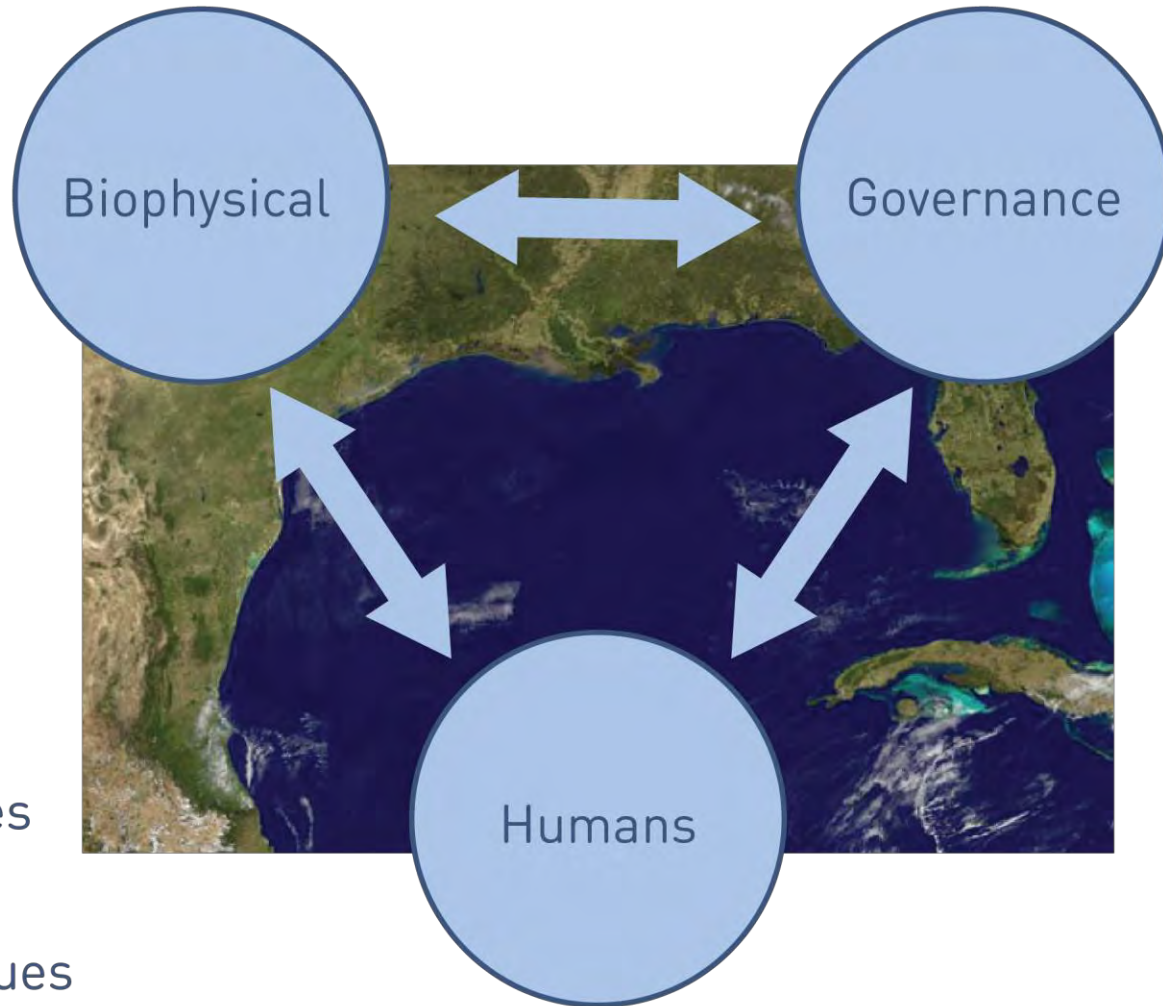
Fishery Ecosystem Plans integrate social, economic, and ecological goals

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

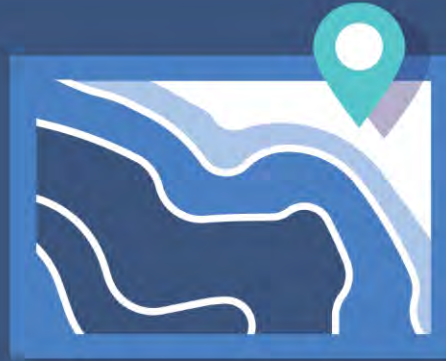
Ecosystem-Based Fisheries Management

- Climate
- Food Webs
- Habitats
- Vulnerable species

- Fisheries
- Communities
- Processors
- Cultural values



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



1 WHERE ARE
WE NOW?



2 WHERE ARE WE GOING?



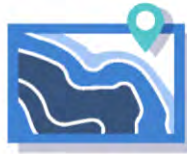
3 HOW DO WE GET THERE?



4 IMPLEMENT THE PLAN



5 DID WE
MAKE IT



1. WHERE ARE WE NOW?



2. WHERE ARE WE GOING?



3. HOW WILL WE GET THERE?

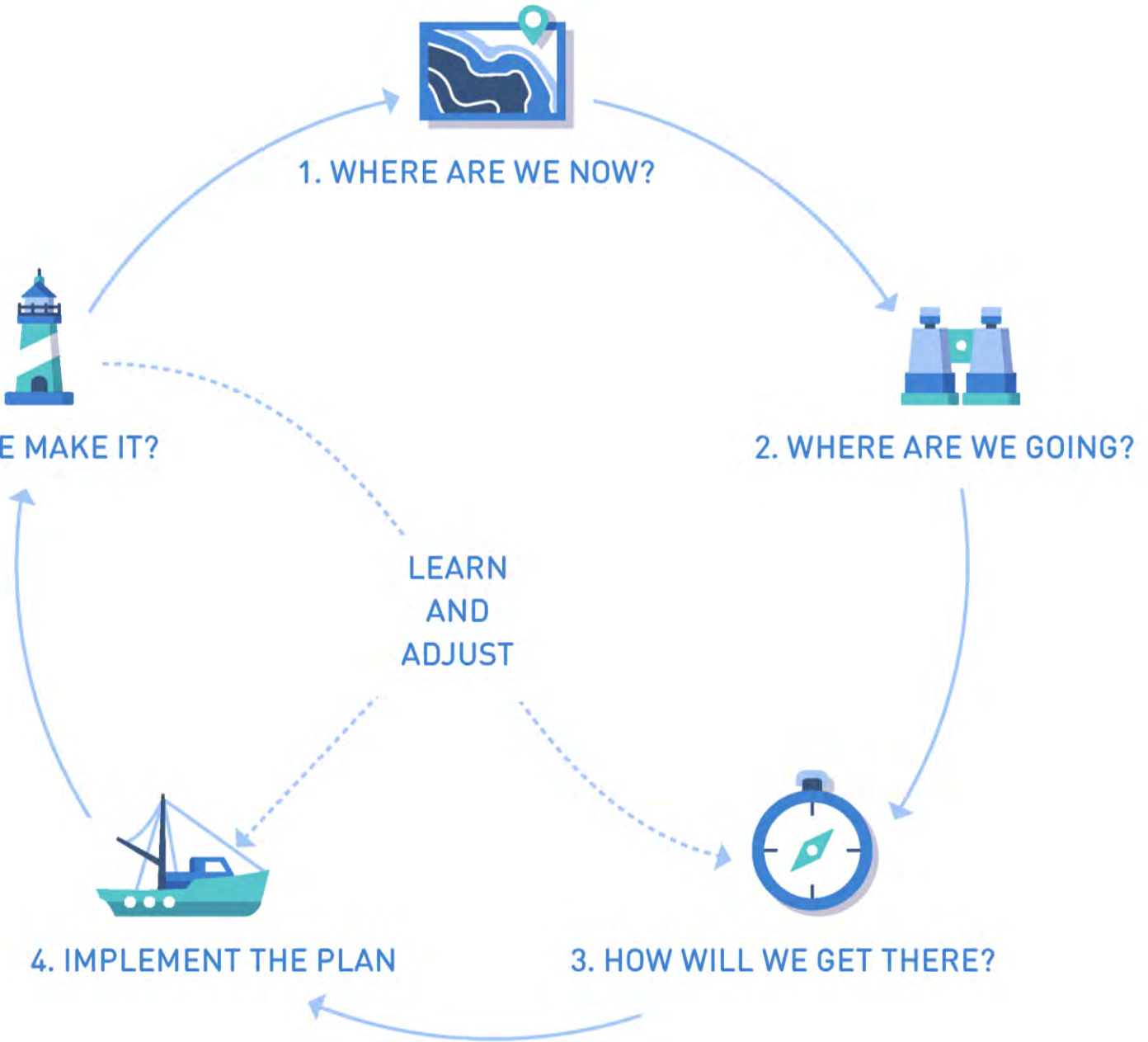


4. IMPLEMENT THE PLAN



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



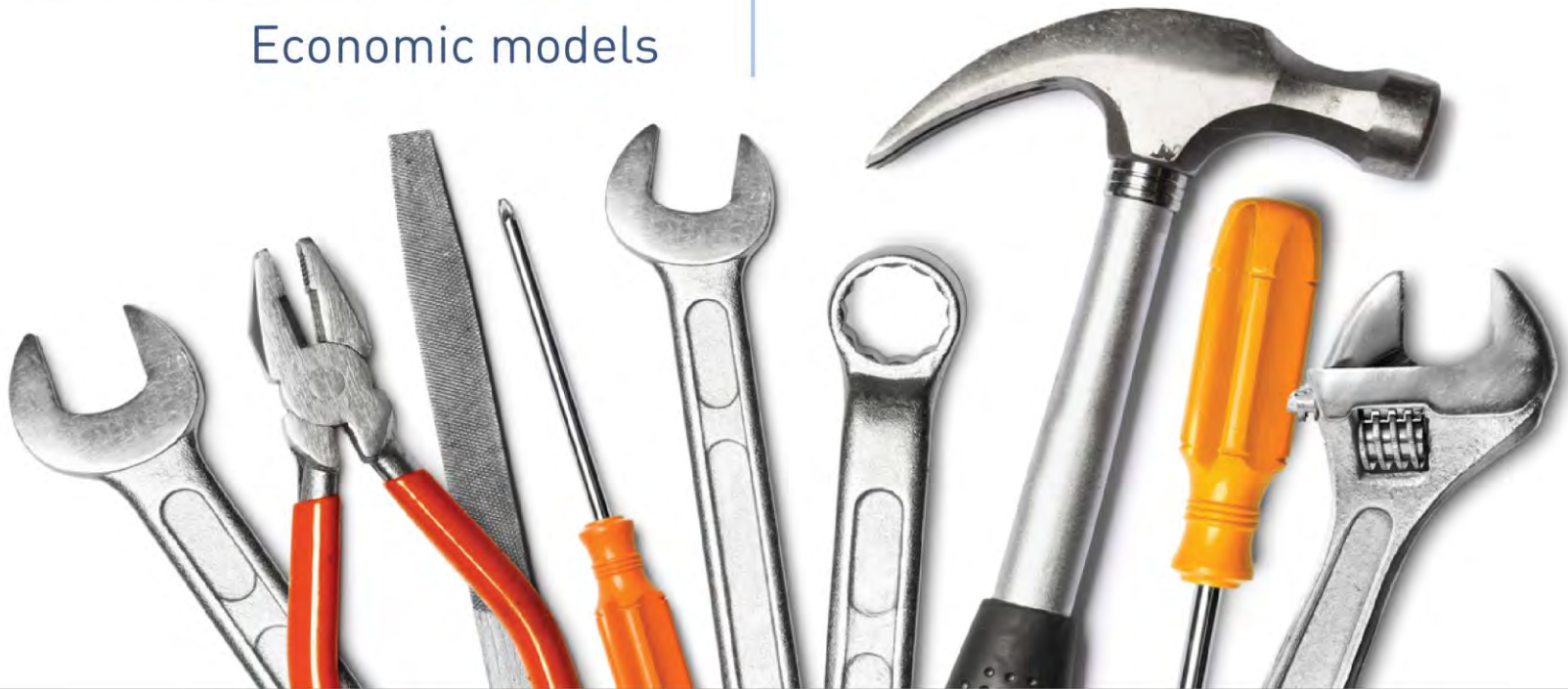
Science and Policy Tools Already Exist

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



Why FEPs?

From principles to action

Can do

Triple Bottom Line

Choosing among trade-offs



BUILDING EFFECTIVE FISHERY ECOSYSTEM PLANS

A REPORT FROM THE LENFEST FISHERY
ECOSYSTEM TASK FORCE

@lenfestocean