



**Climate, Ecosystems,  
& Fisheries Initiative**

# **CEFI Decision Support Teams for Climate Ready Fisheries**

**[\(info on the full CEFI System is available here\)](#)**

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IOOS Advisory Committee - June 28, 2023**

## Overview: What is CEFI?

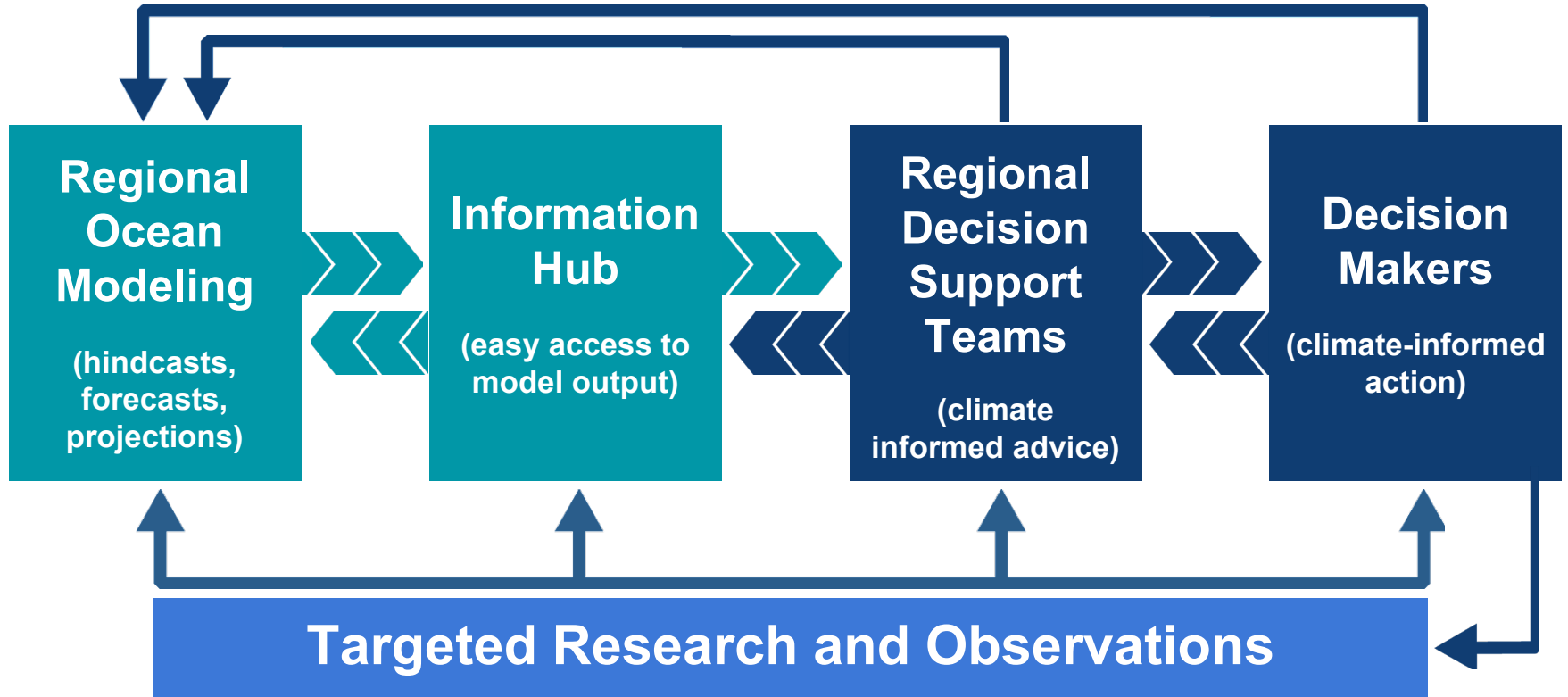
**A cross-NOAA effort to provide climate-informed advice** for marine resource management and community adaptation. Inflation Reduction Act: \$20M NMFS; \$16M OAR; \$4M NOS

**Builds on existing NOAA investments** in observations, research, modeling, and decision-making.

**An end-to-end decision support system** addressing four requirements:

1. **Reliable delivery** of robust ocean forecasts and projections
2. **Operational production** of climate-informed ecosystem projections, risk assessments and adaptation strategies
3. **Increased decision maker capacity** to use climate advice
4. **Targeted research & observations** for validation & innovation

# CEFI Decision Support System



# CEFI Regional Teams

## Regional Ocean Modeling Teams



HELP DESK



## Regional Decision Support Teams

## CEFI & Observations – Where Does IOOS Come In? (A West Coast Perspective)

- CEFI National Observations and Research Team (NORT) to identify priority observation requirements
- Non-stationarity and Fisheries/Protected Resources – Growing Importance of Seasonal Forecast Data for Indices
- Maintain Core Expertise in Physical and Chemical Observations –
  - data assimilation into models that will support CEFI Decision Support Teams in NMFS Science Centers (e.g. glider data for temperature anomalies, HFR data, satellite data)
  - model validation and verification

## CEFI & Observations – Where Does IOOS Come In? (A West Coast Perspective)

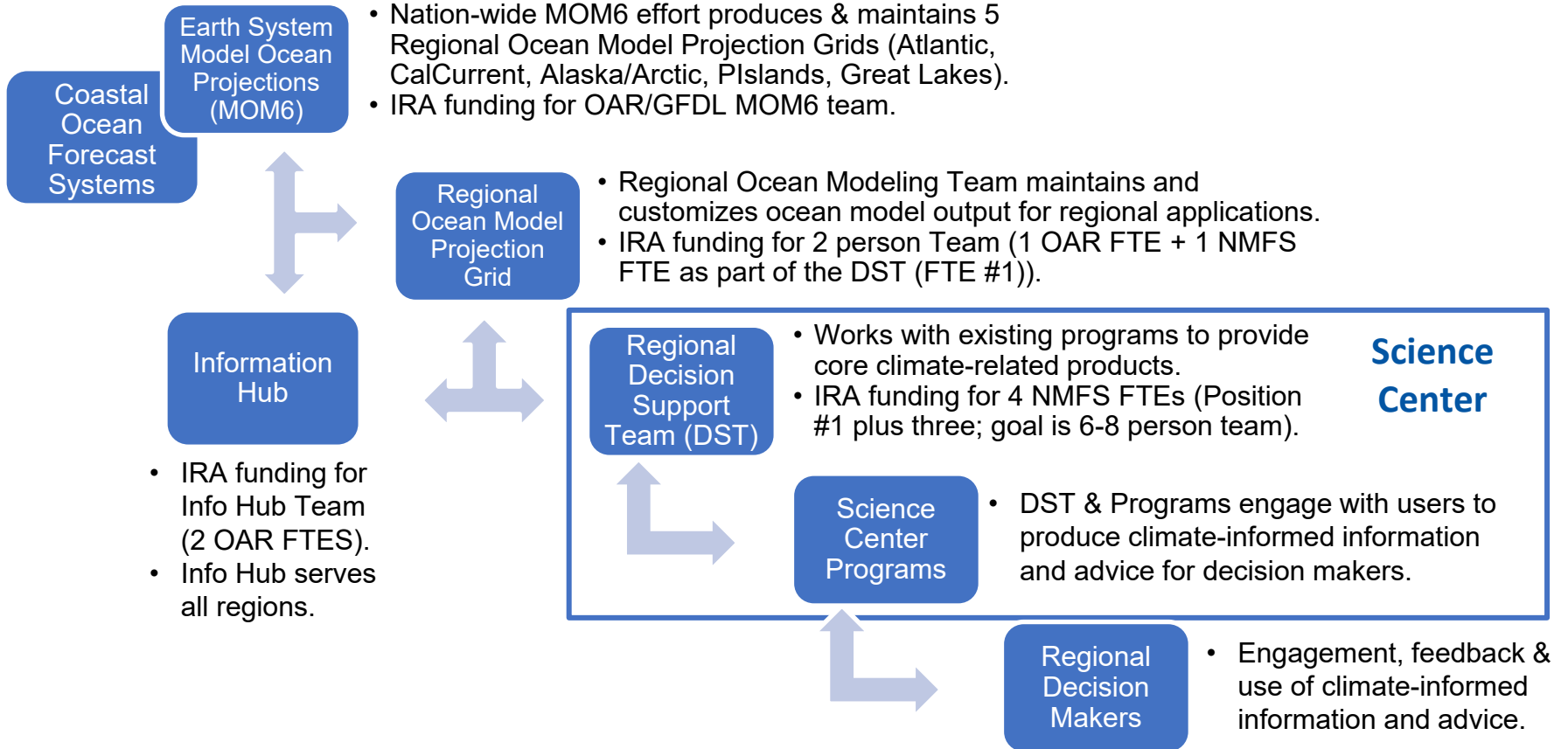
- Consider expanding in areas important to Living Marine Resources .) in conjunction with NMFS to support DSTs
  - animal tracking
  - expanded partnerships with fishing vessels?, etc
- Support growing needs of Fishery Management Councils through data used in Ecosystem Status Reports and new Environmental Indicators. Timescales of greatest interest: 1mo – 2 yrs

[pcouncil.org/documents/2023/02/h-1-a-cciea-team-report-1-electronic-only-2022-2023-california-current-ecosystem-status-report-and-appendices.pdf/](https://pcouncil.org/documents/2023/02/h-1-a-cciea-team-report-1-electronic-only-2022-2023-california-current-ecosystem-status-report-and-appendices.pdf/)

- NMFS Data Acquisition Plan (in draft)
  - Update of 1998 DAP
  - Strength in Diversifying our Platforms

# **Backup Slides**

# CEFI Regional Structure & IRA Funding





# Envisioned CEFI Decision Support Teams - Basic structure and operations

