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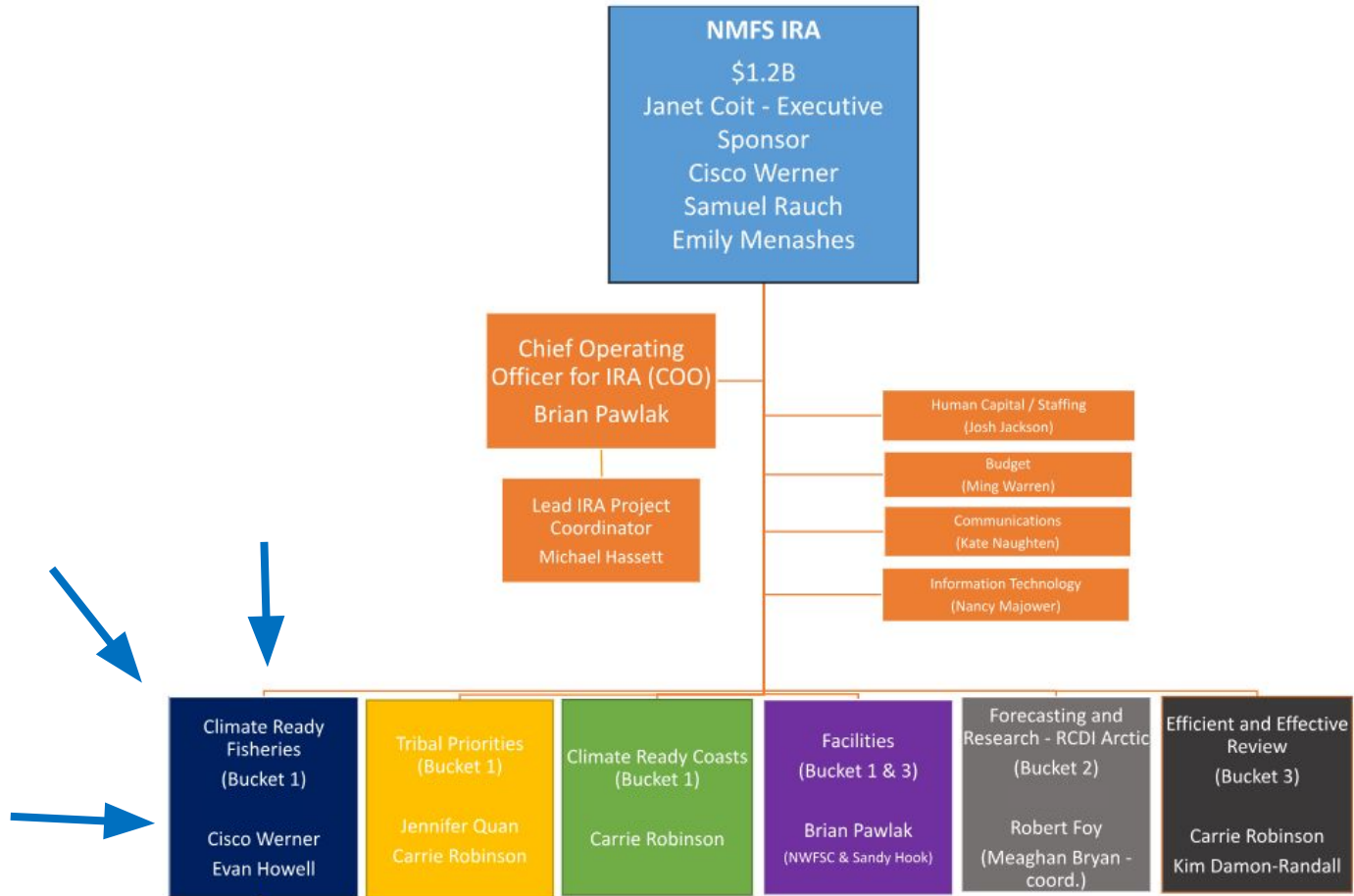
# **Inflation Reduction Act (IRA) Climate Ready Fisheries (CRF) Program Overview**

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**Office of Science and Technology, Director**

**Council Coordination Committee Meeting, May 22, 2024**

# Inflation Reduction Act (and Climate Ready Fisheries) Organizational Structure



# Oversight of over \$1.2B of NOAA's \$3.3B IRA funding

<i>Expand and Modernize Stock Assessments</i>	Data Acquisition and Management	\$145M
	Climate, Ecosystems, & Fisheries Initiative	\$40M
<i>Region-Specific Fisheries and Protected Resources</i>	Pacific Salmon	\$42M
	Regional Fisheries Management Councils	\$20M
	North Atlantic Right Whale	\$82M
	Red Snapper	\$20M
<i>Tribal Fish Hatcheries</i>	Mitchell Act Hatcheries	\$60M
	Non-Mitchell Act Hatcheries	\$240M
Habitat Restoration and Fish Passage		\$484M
Arctic Research		\$2.9M
Efficient Permitting		\$15.5M
Facilities		\$95M

Climate Ready Fisheries, \$349M

<https://www.fisheries.noaa.gov/national/climate/helping-america-prepare-and-respond-climate-change-under-inflation-reduction-act>



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# Essential Data Acquisition - \$107.5M

**Data Gap Mitigation (DGM):** Increase the efficiency of traditional platform data acquisition and mitigate the recent loss of at-sea survey capability

- NW/SW- Integrated West Coast Pelagics Survey
- AK/PI/NW/SW - Pacific protected species charters
- SE/NE - Research vessel purchase
- AK - Alaska fisheries charters
- AK/PI/SE - Territorial/tribal data acquisition
- OST - MRIP Fishing Effort Survey pilot



# Essential Data Acquisition - \$107.5M

- Advanced technologies, modern data systems, and infrastructure that expand and modernize stock assessments to account for climate change
- Cooperative partnerships with fishing industry, academia, state partners

**Advanced Technology (AT):** Modernize and transform NOAA Fisheries' advanced technology and social science capabilities through targeted Strategic Initiatives (SIs):

- 'Omics
- Active acoustics
- Passive acoustic monitoring
- Optics
- Remote sensing
- UxS (Uncrewed Systems)
- Social science

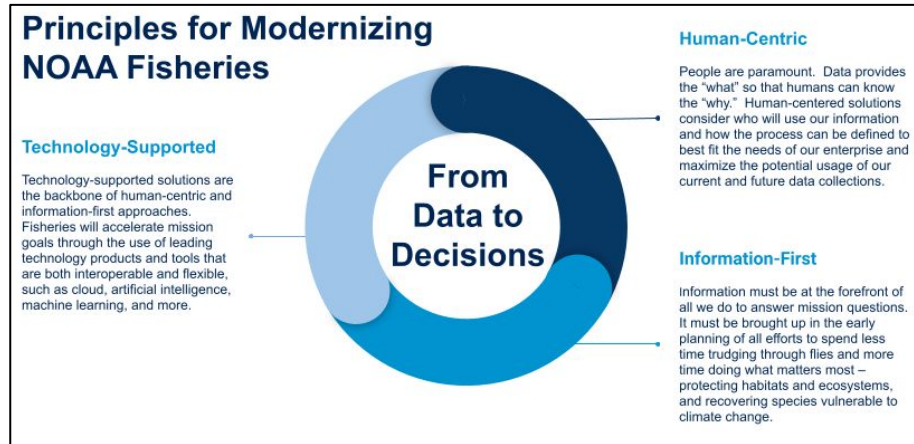


# Data Modernization - ~\$37.5 M

**Fisheries Dependent Data (FDD):** Transform FDD into a modern, agile data system in partnership with Coastal States and Fisheries Commissions.

- Strengthen and Enact Clear Data Standards and Accountability Metrics
- Scope and Implement Cloud-based Solutions
- Fully Enable Open Science
- Refine and Formalize the Operating Model for Modernization

**Protected Resources and Sustainable Fisheries Modernization:** Fund high priority, impactful projects with a science and management connection



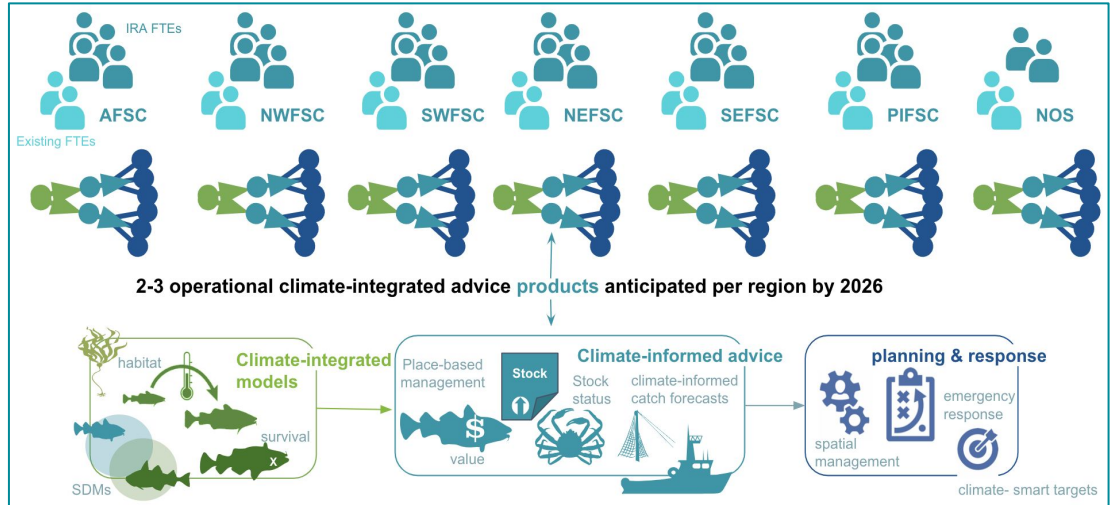
# Climate, Ecosystems, and Fisheries Initiative (CEFI) - \$40M

\$40M total for FY23-26:

- \$16 M (OAR) Regional Ocean Modeling + Information Hub and Data Portal
- **\$20 M (NOAA Fisheries) Regional Decision Support Teams**
- \$4 M (NOS) Decision Support Team support



Transform NOAA Fisheries' science enterprise into one that *operationally produces climate-informed advice* including risk assessments and best strategies for resilience and adaptation



# Pacific Salmon IRA Funding Overview - \$42 M

(\$15 M WCR, \$16.2 M NWFSC, \$10.8 M SWFSC)

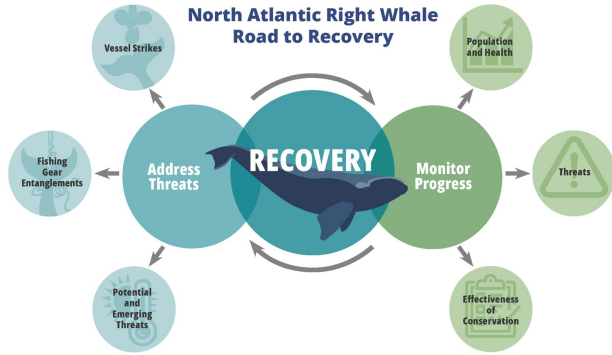
	Science Theme	Products and Outcomes
<b>Salmon Habitat Restoration (\$15M WCR)</b>	<b>Pacific Coastal Salmon Recovery Fund (PCSRF)</b>	Salmon habitat restoration and reconnection activities with State and Tribal partners
<b>West Coast Salmon Science and Research (\$16.2M NWFSC and \$10.8M SWFSC)</b>	<b>Integrated Model Development and Application</b>	Life cycle model development, generalized models, integrative modeling, recovery strategy evaluation
	<b>Restoration, Reintroduction, and Recovery Techniques</b>	Recovery strategy evaluation, reintroduction strategy analysis, adaptive capacity of salmonids
	<b>Habitat Stressors in Freshwater and Estuary Environments</b>	Urban stormwater effects, resilience under climate change, habitat stressors
	<b>Ocean and Nearshore Ecology</b>	Indicators of marine survival, predation rates, coastal ecology, lower trophic level energetics





# North Atlantic Right Whale - \$82 M

Developing/advancing technologies and new approaches for dynamic management based on more informed understanding of spatial/temporal distribution and enabling timely responses where whales are detected



North Atlantic Right Whale Inflation Reduction Act	
<b>Monitoring and Modeling</b>	Passive Acoustic Monitoring (PAM)
	Satellite Tagging
	Uncrewed Systems (UxS) Development
	Modeling Advancements
	Very High Resolution Satellite AI
<b>Vessel Strike Risk Reduction</b>	Vessel strike risk reduction technology and development, technology implementation, additional support
<b>On-Demand Fishing</b>	Developing interoperability standards, training for use of systems, additional support
<b>Enforcement</b>	Equipment and Operations

# Red Snapper IRA Funding Overview - \$20M

- NOAA Fisheries' efforts are focused on improving recreational catch, effort, and discard estimates from federal and state surveys, improving state-federal data exchange, and harnessing the power of advance technology and artificial intelligence to provide more timely scientific advice from video and acoustic surveys.
- Emphasis will be placed on partnerships with Gulf States Marine Fisheries Commission (GSMFC) and state agencies.



*Photo courtesy of Fish and Wildlife Research Institute*

# Regional Fisheries Management Councils IRA Funding - \$20 M

- Proposals **must** be focused on fishery management and governance topics.
- Actions funded under IRA will contribute to the following overarching goals:
  - Implementation of fishery management measures necessary to advance climate ready fisheries by improving climate resiliency and responsiveness to climate impacts
  - Development and advancement of climate-related fisheries management planning and implementation efforts in support of underserved communities.





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Questions?

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