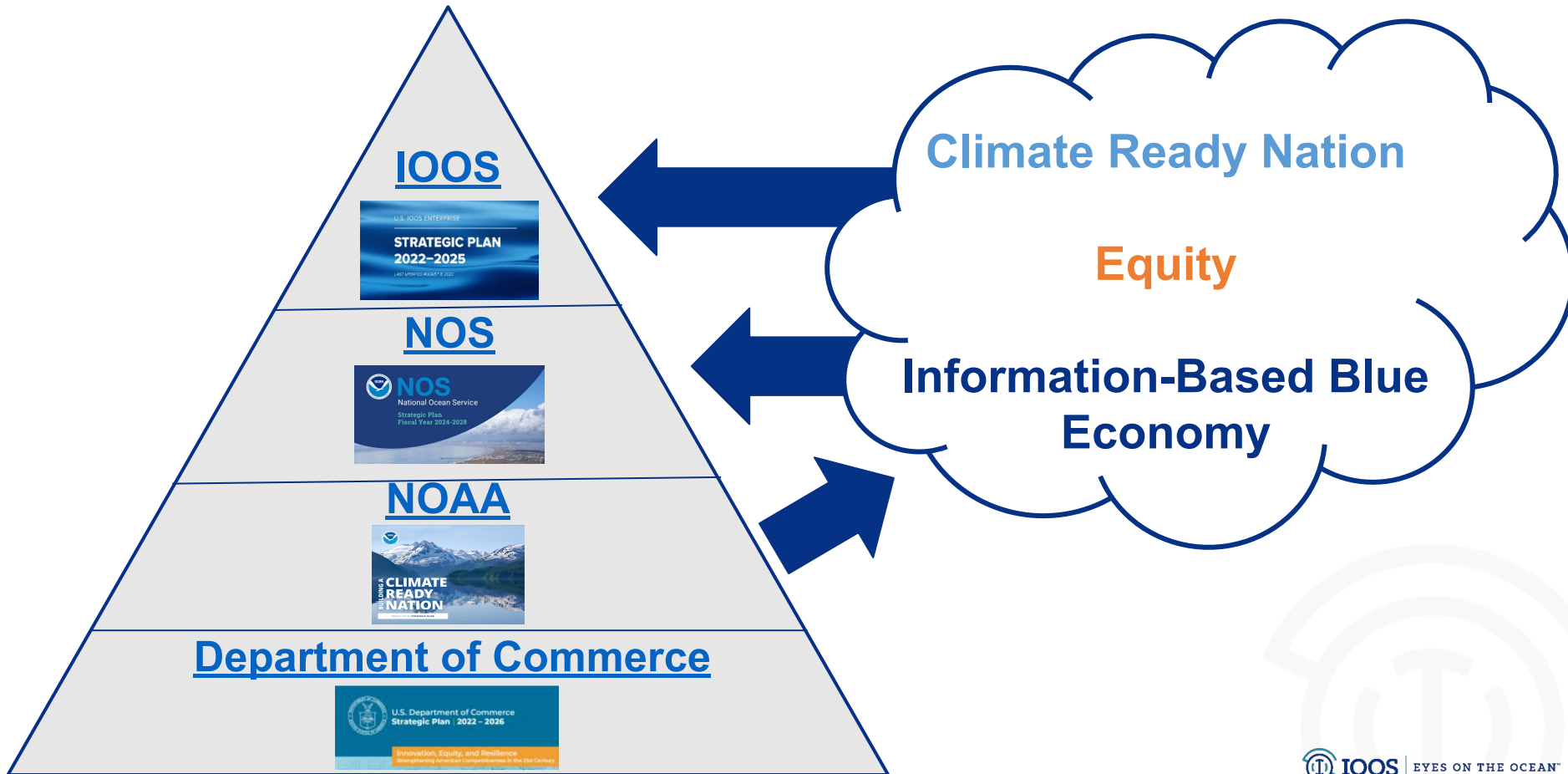


U.S. Integrated Ocean Observing System (IOOS)

Carl Gouldman, Director
December 4, 2023



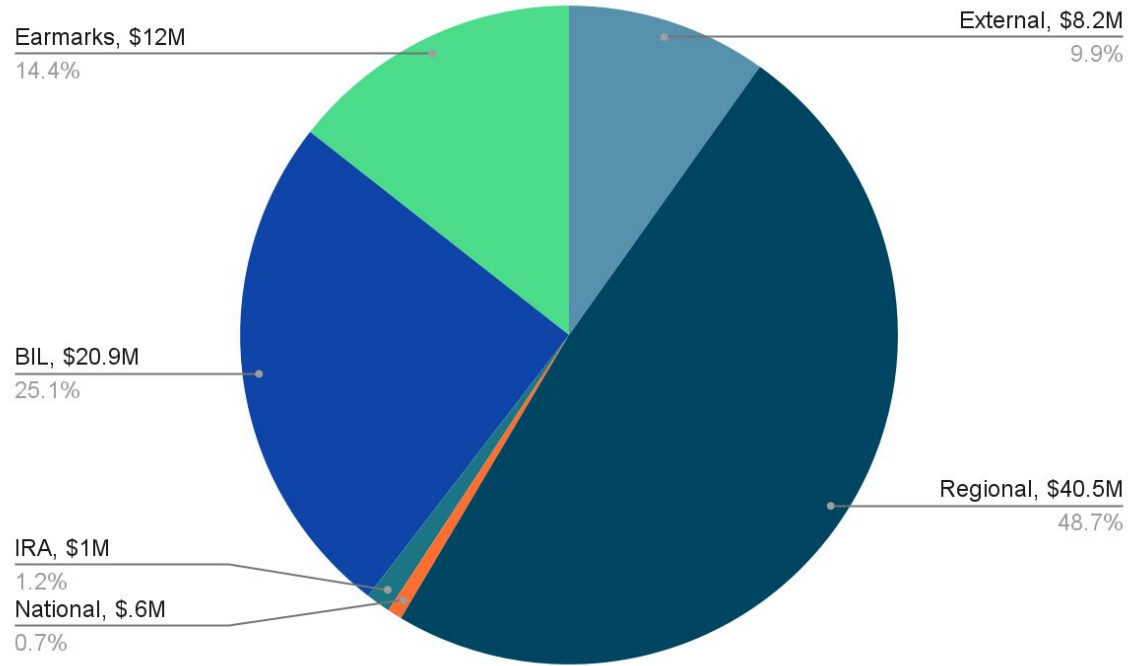
Strategic Plan Development (and Next Steps)



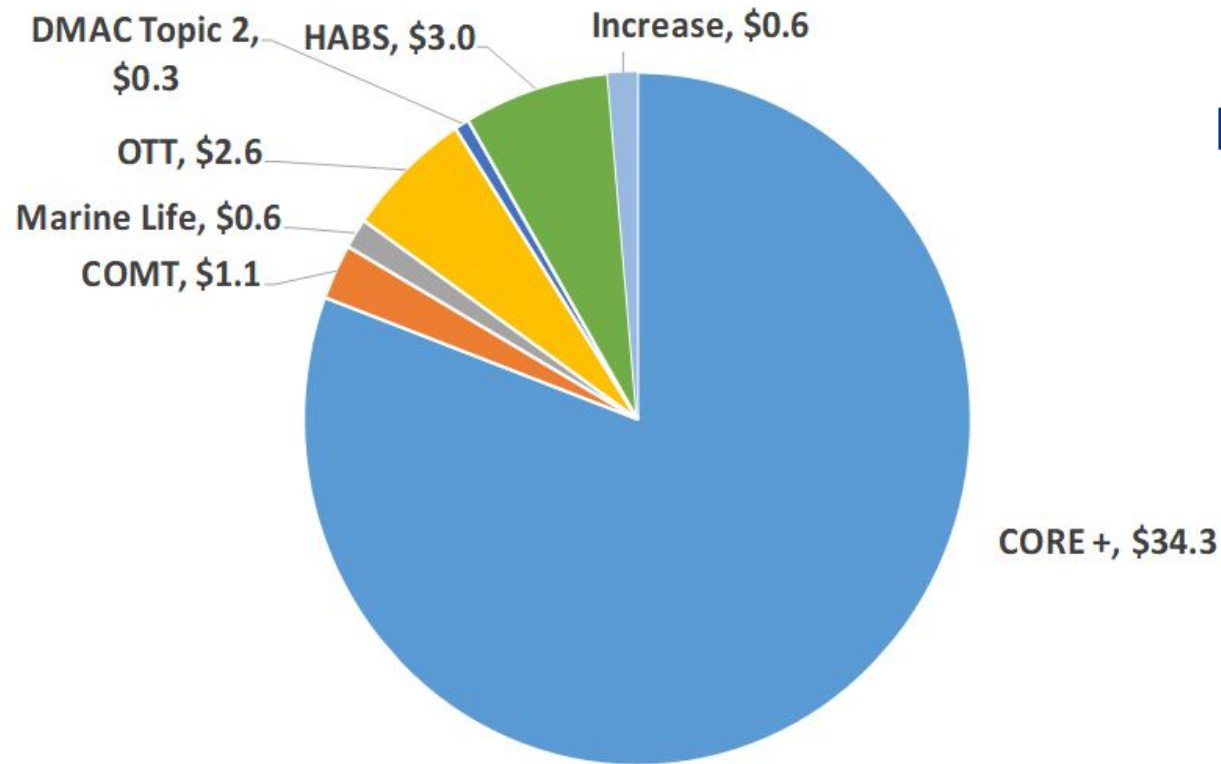
IOOS Grants Portfolio 2017-2023

Year	IOOS Total Existing Awards	IOOS New Awards	IOOS Total Amount
2017	17	5	\$32,820,943
2018	15	9	\$38,845,305
2019	22	9	\$45,744,078
2020	23	13	\$50,200,908
2021	12	17	\$46,075,769
2022	23	10	\$52,707,763
2023	37	27	\$83,274,817

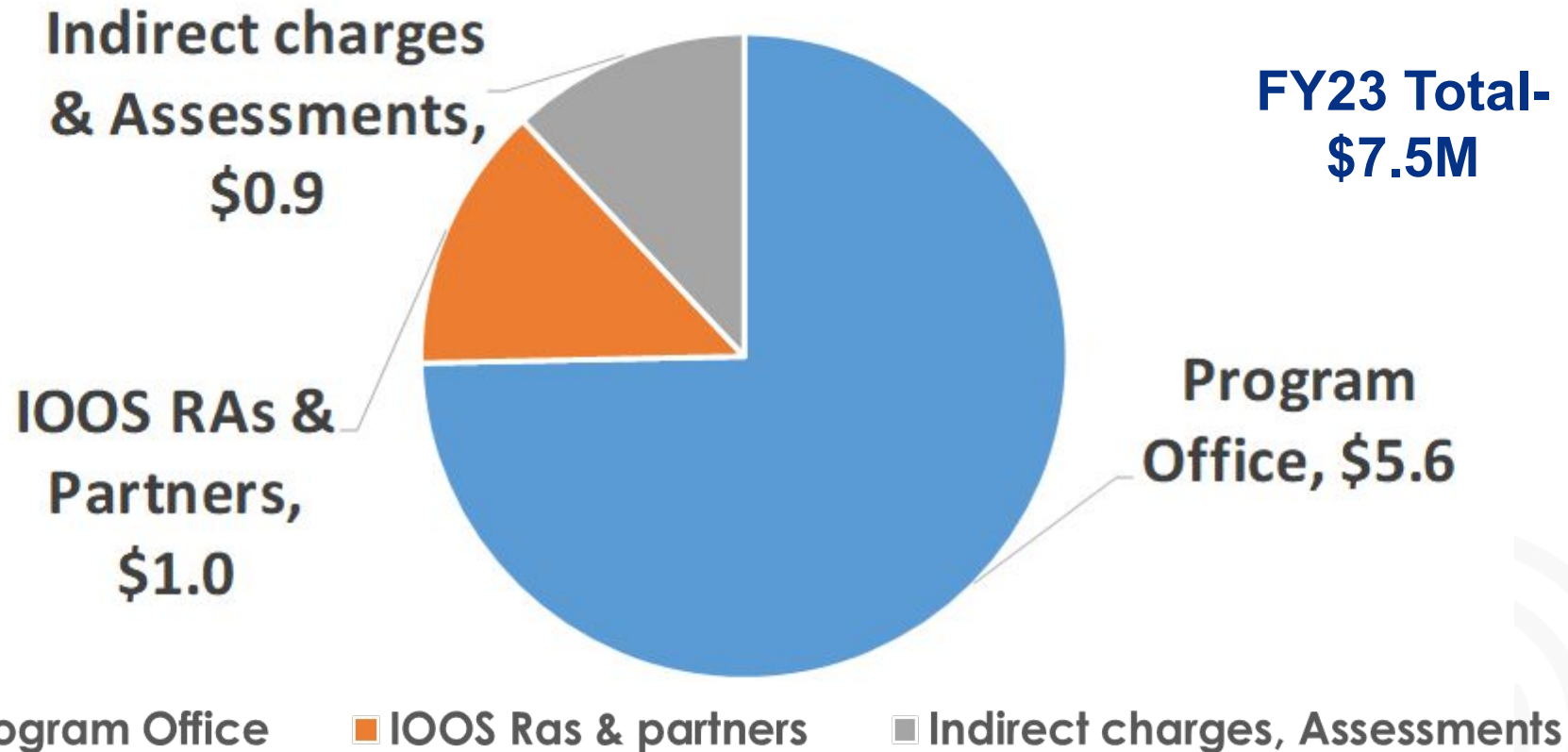
IOOS Grant Portfolio Funding Breakdown for FY 2023



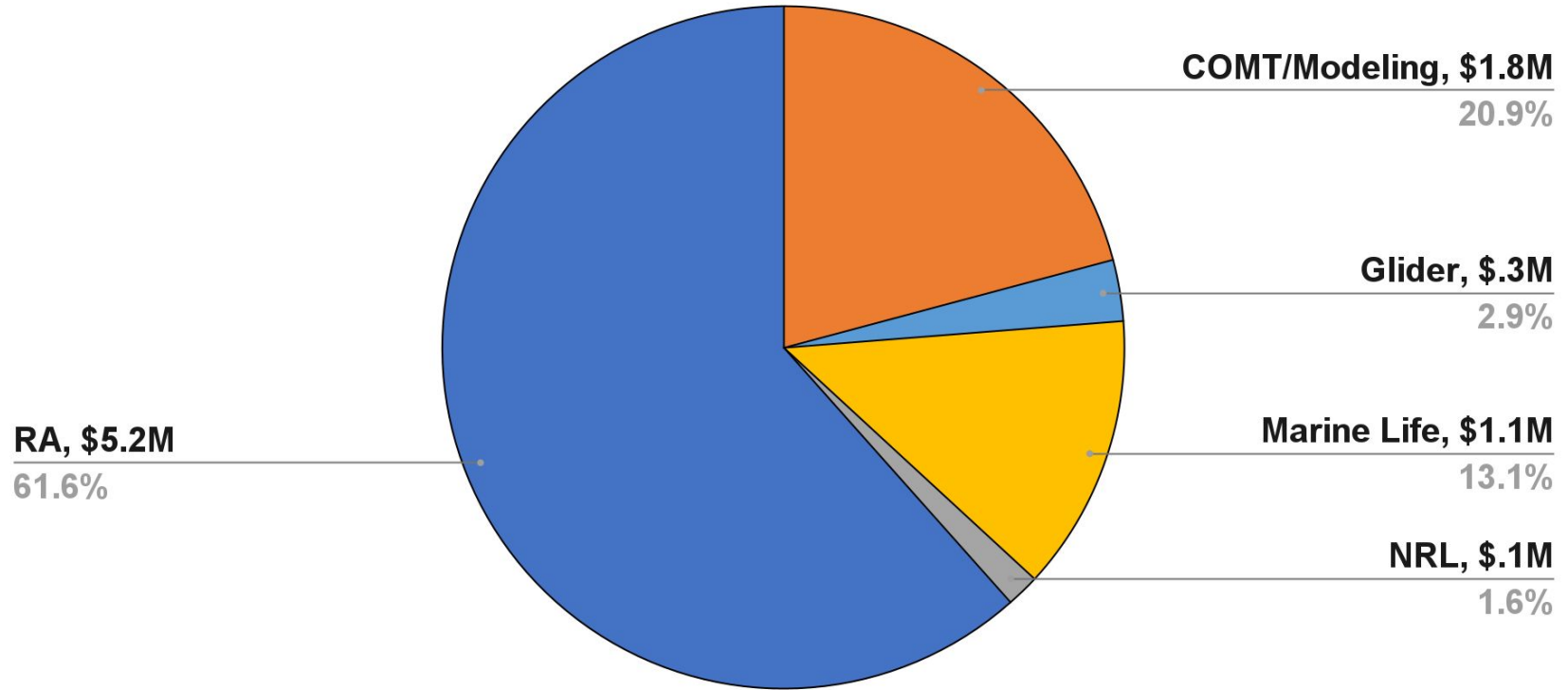
FY 23 - IOOS Regional



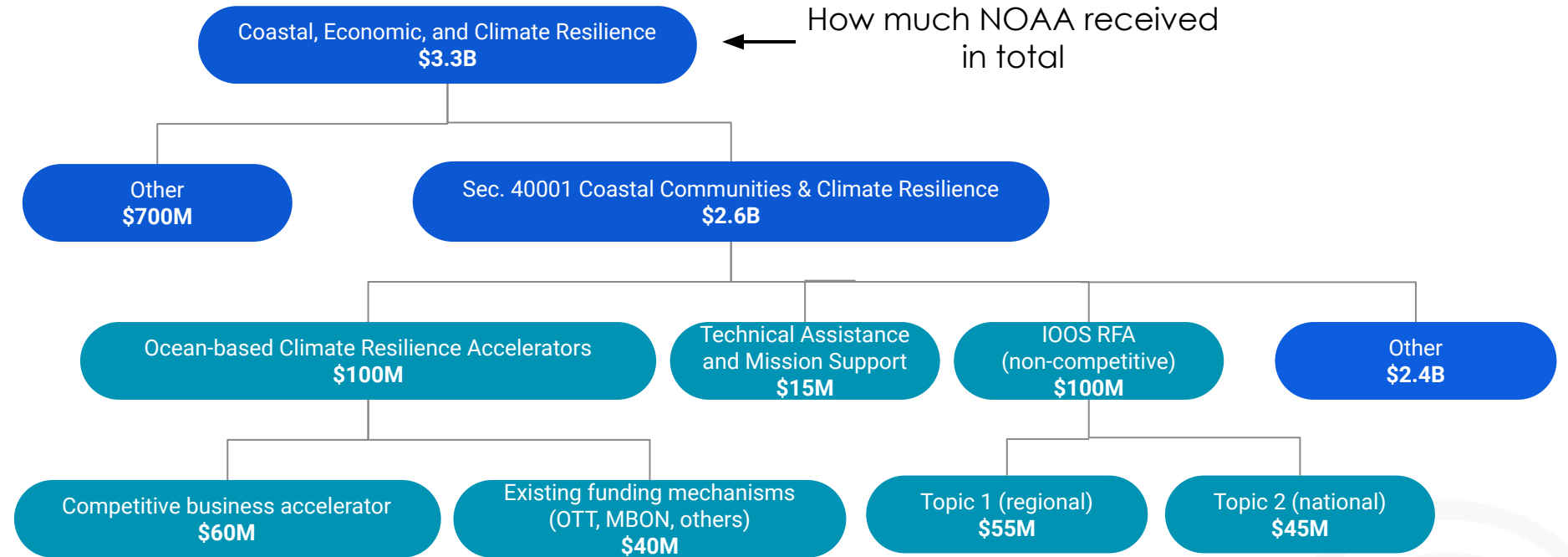
**FY23 Total-
\$42.5M**



FY23 External Funds Executed \$8.5M- By Portfolio/Program



IRA Funding Breakdown



IOOS Grants Calendar

Grant Title	2023				2024				2025				2026				2027				2028			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
COMT					COMT																			
Disaster Supplemental					Disaster Supplemental																			
DMAC					DMAC																			
RA 5yr Awards	RA 5yr Awards																							
BIL Prov 11/ Prov 11&12 Years 1& 2	BIL Prov 11/ Prov 11&12 Years 1& 2																							
BIL Prov 3 Yr 1&2 Awards	BIL Prov 3 Yr 1&2 Awards																							
IRA Ocean-based Climate Resilience Accelerators (OCRA) Phase 1 Applications			IRA Ocean-based Climate Resilience Accelerators (OCRA) Phase 1 Applications																					
IRA RFA Open			IRA RFA Open																					
BIL Prov 3 Yr 3-5 Applications					BIL Prov 3 Yr 3-5 Applications																			
BIL Prov11/ Prov 11&12 Yr 3-5 Applications					BIL Prov11/ Prov 11&12 Yr 3-5 Applications																			
IRA OTT Awards					IRA OTT Awards																			
IRA OCRA Phase 1 Awards					IRA OCRA Phase 1 Awards																			
IRA MBON Awards					IRA MBON Awards																			
IRA OCRA Phase 2 Applications					IRA OCRA Phase 2 Applications																			
IRA RFA Awards									IRA RFA Awards															
BIL Prov 3 Yr 3-5 Awards									BIL Prov 3 Yr 3-5 Awards															
BIL Prov11/ Prov 11&12 Yr 3-5 Awards									BIL Prov11/ Prov 11&12 Yr 3-5 Awards															
IRA OCRA Phase 2 Awards									IRA OCRA Phase 2 Awards															

FAC Recommendation Priority Areas



**Fostering Growth of the New
Blue Economy**

**Diversity, Equity, Inclusion,
and Accessibility**



**Climate Impacts at the
Oceans and Coast**



IOOS & NOAA's Ocean Enterprise / New Blue Economy



Currents / Water levels



Gliders



Buoys & Moorings



Marine Life & HABs



OTT



Modeling and Analysis

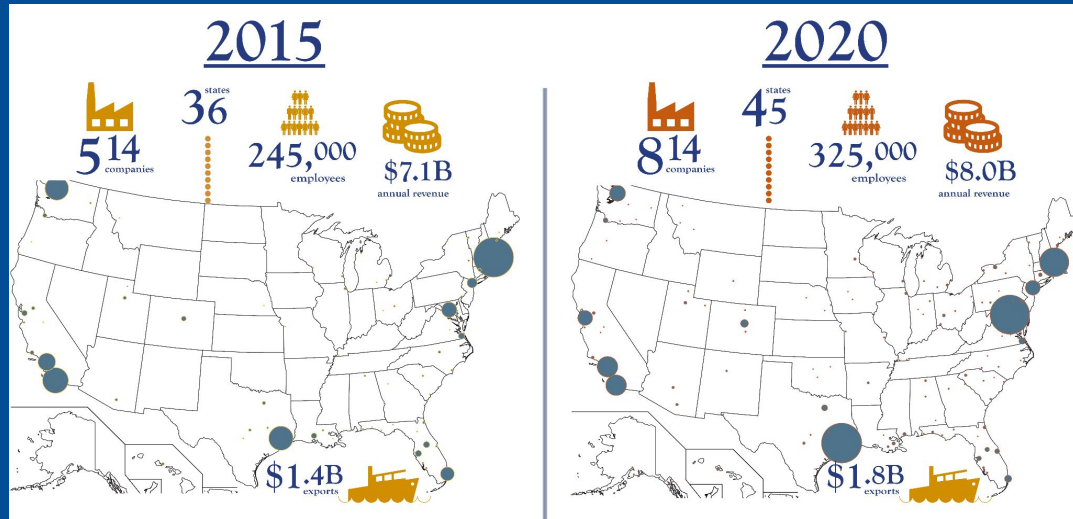


DMAC

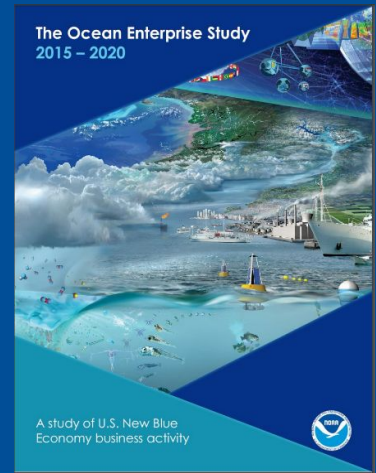
The Ocean Enterprise Study 2015–2020



Objective: Understand the scale and scope of U.S. New Blue Economy business activity and how this has changed since 2015.



Industry Dialogues (2.0) with MTS



The New Blue Economy is a knowledge-based economy, looking to the sea not just for extraction of material goods, but for data and information to **address societal challenges** and to **inspire their solutions.**

Go to ioos.noaa.gov/nbe/activities to learn more

Looking Forward



Questions?

Backup Slides

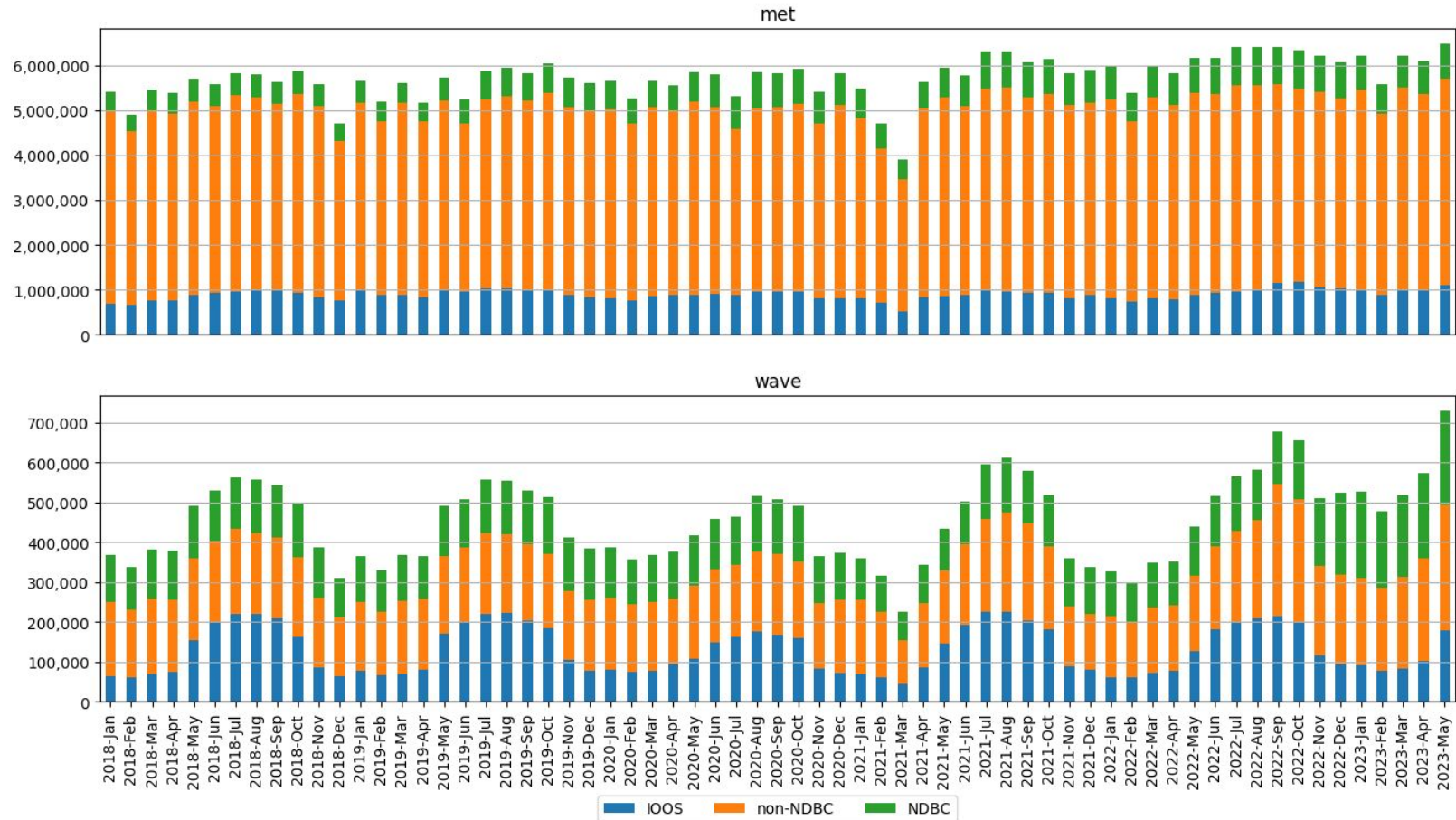
Of the 16 Recommendations:

- 3 recommendations fully implemented
- 12 recommendations partially implemented
- 1 recommendation not yet implemented

[Link to the NOAA and IOOC Responses to the FAC Recommendations](#)

Priority Area	Recommendation Number	Addressed using IRA Funding?
	1	Yes
Fostering Growth	2	Yes
of the New	3	Yes
Blue Economy	4	Yes
	5	Yes
	1	Partially
Climate Impacts	2	Yes
at the	3	Yes
Oceans and Coasts	4	Yes
	5	Partially
	6	Yes
	1	Yes
	2	Yes
DEIA	3	Yes
	4	Yes
	5	Yes

NOS real-time marine observations delivered to GTS via NDBC



Ocean Enterprise Study



ioos.noaa.gov/project/ocean-enterprise-study/

Workforce Development



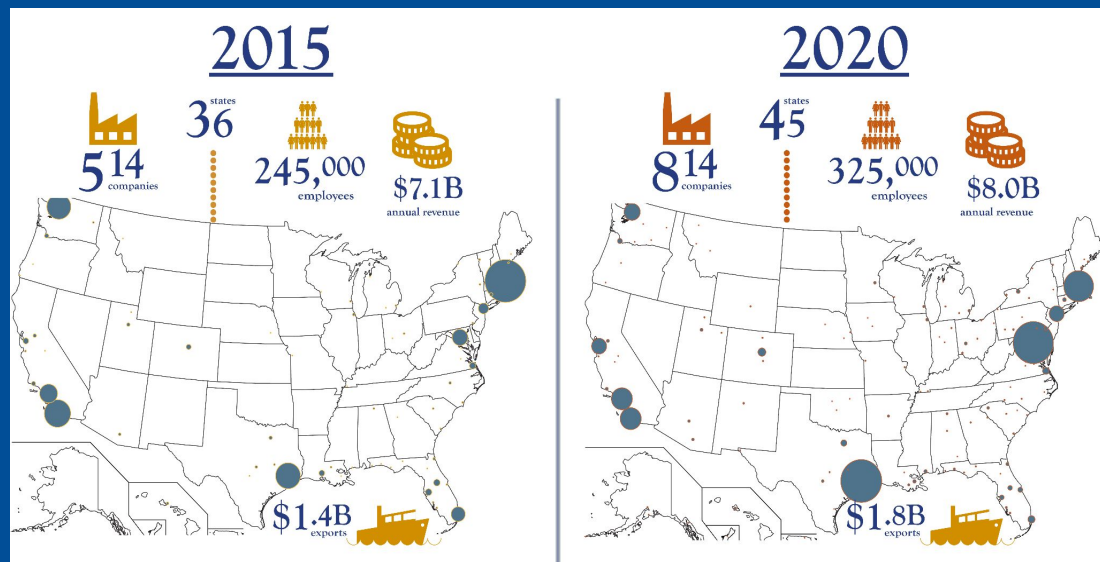
Dialogues with MTS



The Ocean Enterprise Study 2015–2020

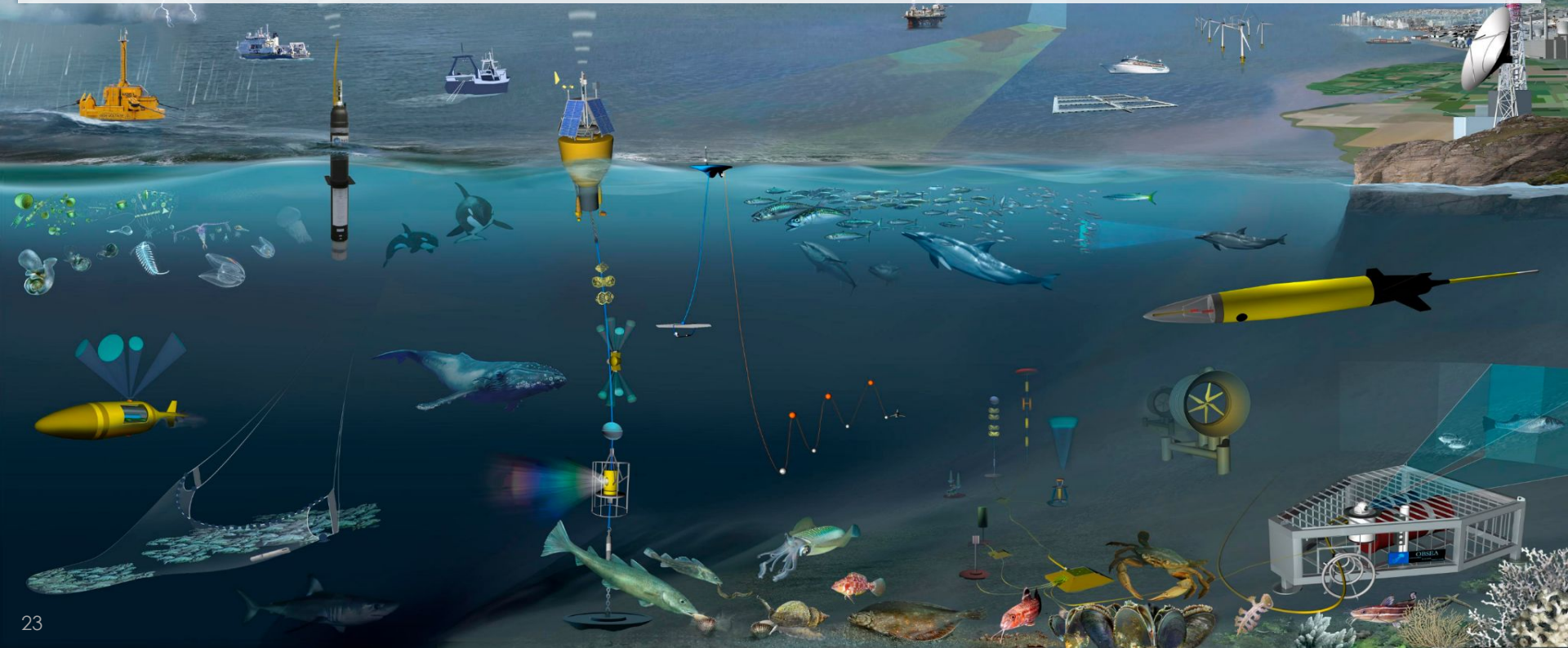


Objective: Understand the scale and scope of U.S. New Blue Economy business activity and how this has changed since 2015.

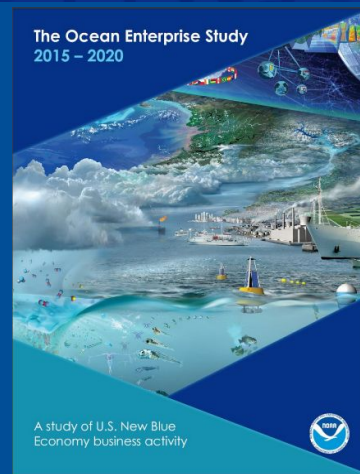
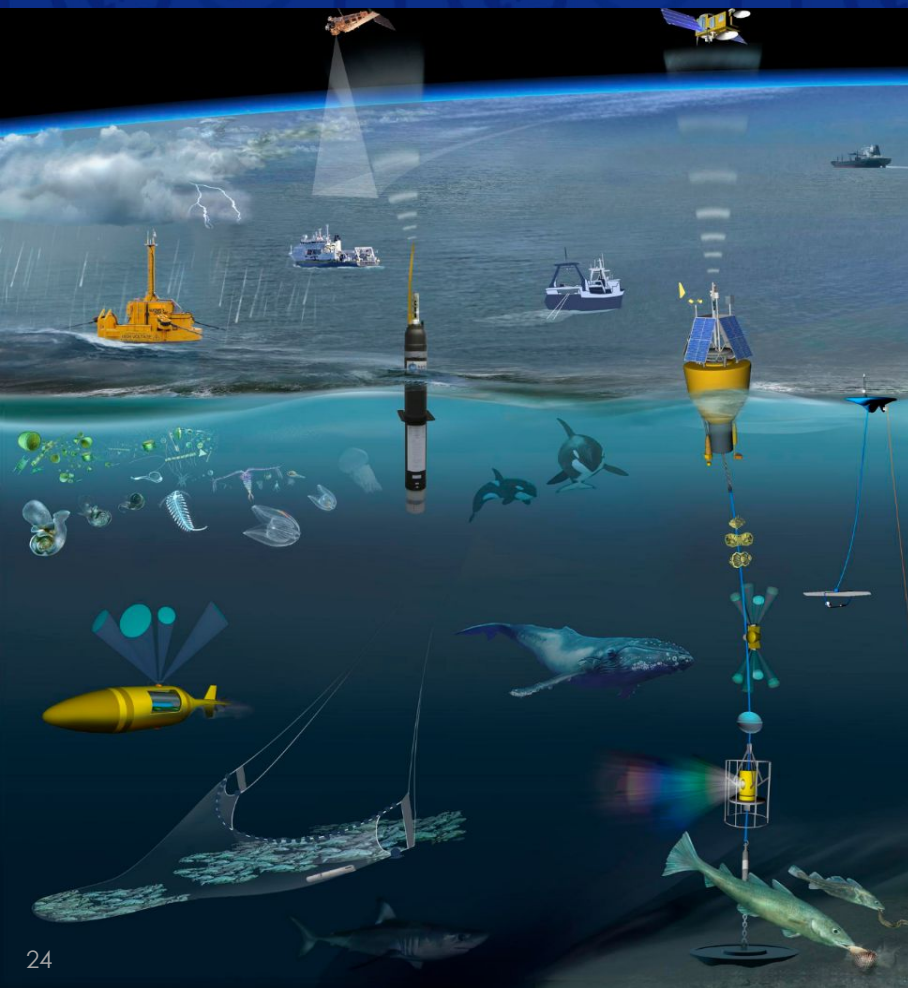


NOAA's New Blue Economy Vision

A sustainable and equitable ocean and coastal economy that optimizes advances in science and technology to create value-added, data-driven economic opportunities and solutions to pressing societal needs.



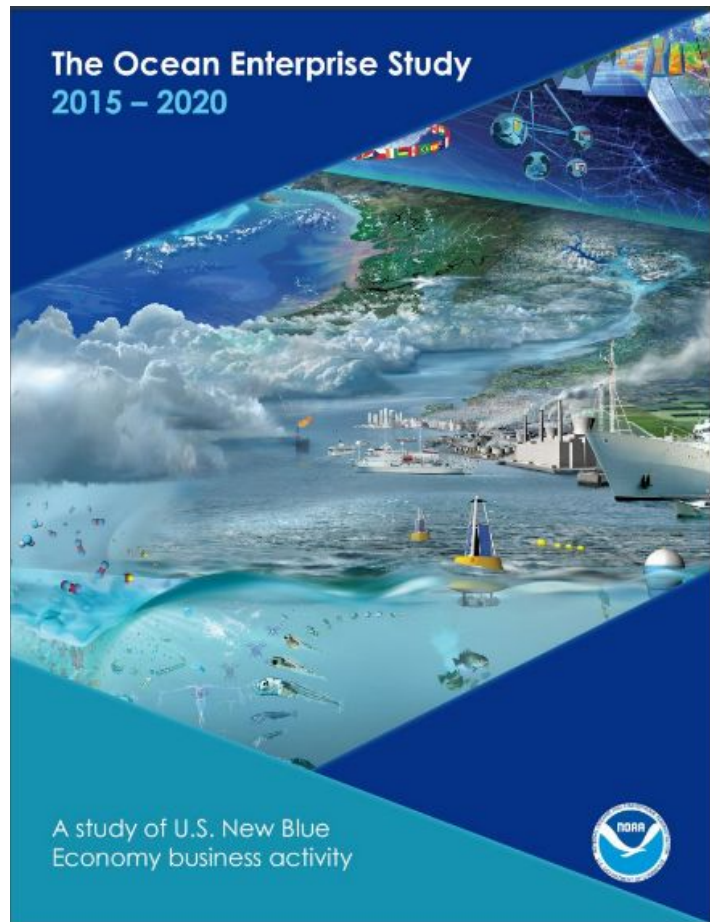
The New Blue Economy



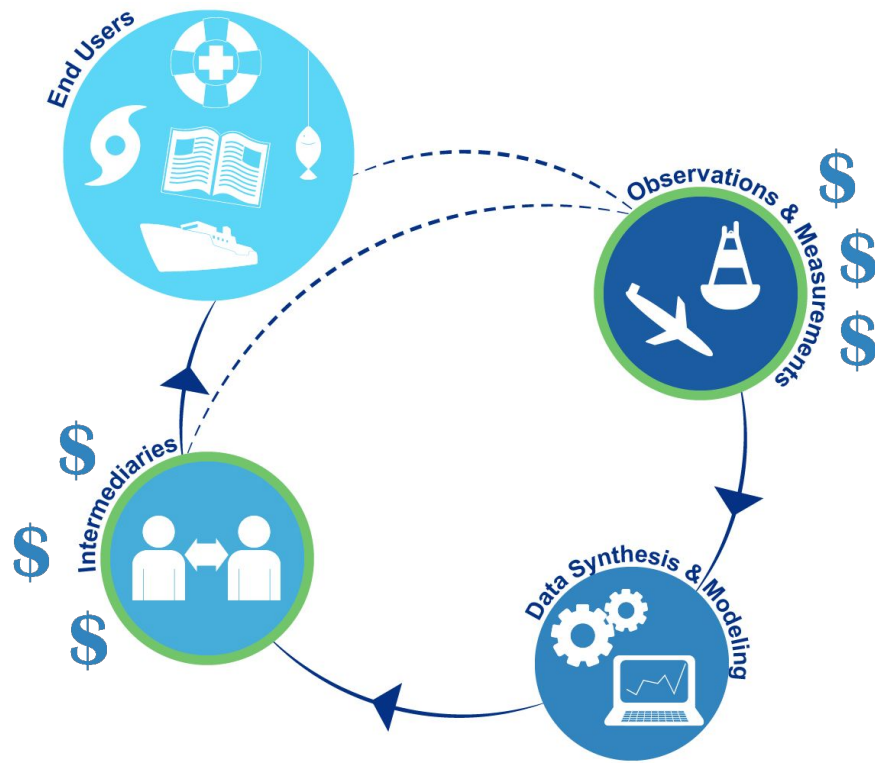
The New Blue Economy is a knowledge-based economy, looking to the sea not just for extraction of material goods, but for data and information to **address societal challenges** and to **inspire their solutions.**

Go to ioos.noaa.gov/nbe/activities to learn more

The U.S. Ocean Enterprise Study 2015–2020

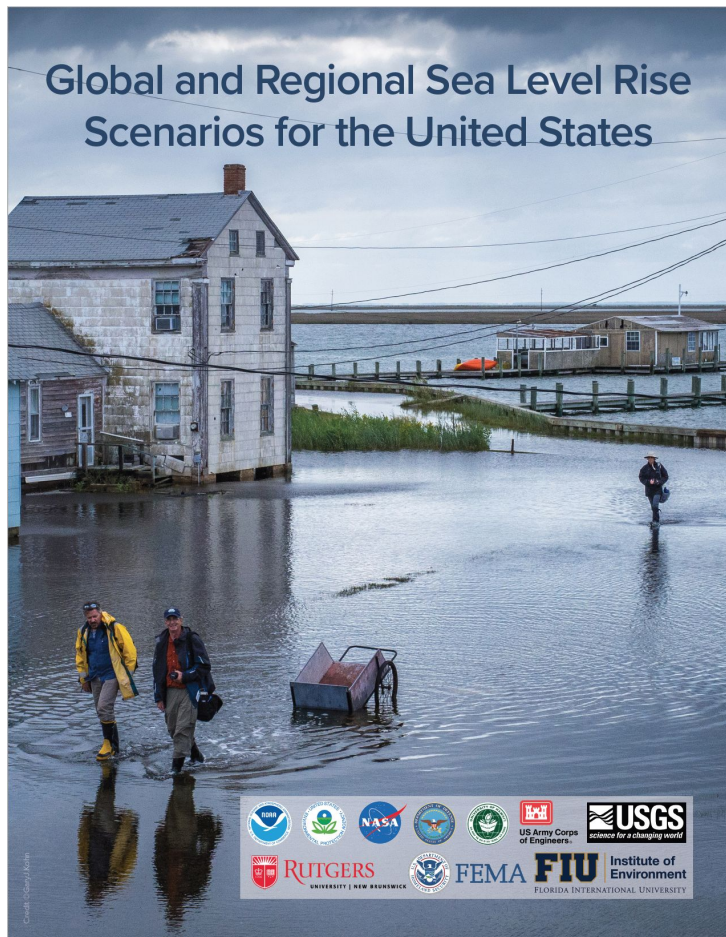


Objective – Understand the scale and scope of U.S. New Blue Economy business activity and how this has changed since 2015.



Sea Level Rise Technical Report

Global and Regional Sea Level Rise Scenarios for the United States



Four Key Takeaways:

- **The Next 30 Years of Sea Level Rise:** On average, the U.S. will see as much sea level rise by 2050 as seen in the last century
- **More Damaging Flooding Projected:** Sea level rise leads to increased coastal flooding even in the absence of rain or storms
- **Emissions Matter:** At least two feet of sea level rise is likely by 2100 and reducing emissions now can lower future risk.
- **Continual Tracking:** Earth-monitoring systems are vital for tracking future sea level rise



Ocean Technology Transition (OTT) Program



FY23 NOFO funded projects:

University of Washington, John Mickett Institutionalizing Long-term Offshore ESP Monitoring in the Pacific Northwest

SECOORA, Theo Jass A Proposal to Scale from a Regional to a National Webcam Coastal Observation System (WebCOOS)



CODAR Ocean Sensors, LTD, Dale Trockel Improving HF Radar Ocean Observation with AI

Oregon State University, Jessica Garwood Fishing for Hypoxia: An Academic-Industry-Tribal Partnership to Observe the Coastal Ocean

San José State University Research Foundation, Holly Bowers Validating the Aqusens imaging platform to expand networked cell detection capabilities

Seward Association for the Advancement of Marine Science, Carol Janzen Intuitive Model-Driven Marine Particle Tracking and Visualization Tools for Coastal Incident Response, Maritime Domain Awareness and Research Applications

Seven more IRA funded projects will be announced in early 2024

<https://ioos.noaa.gov/project/ocean-technology-transition/>

