



Ocean Research Advisory Panel

May 2024

Presented by Jessica Snowden,  
Interim IWG-OD Co-Chair (NOAA)

**2021**  
**2030** United Nations Decade  
of Ocean Science  
for Sustainable Development



# The BIG Picture:

**We've got 10 years ... how are we using science to achieve long-term ocean goals for the planet?**

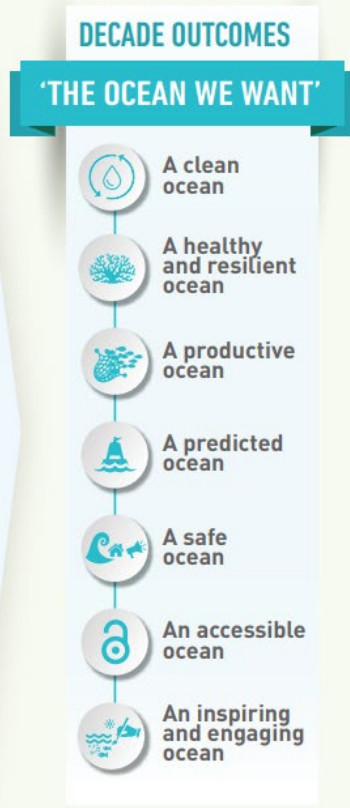


## 'THE SCIENCE WE NEED'

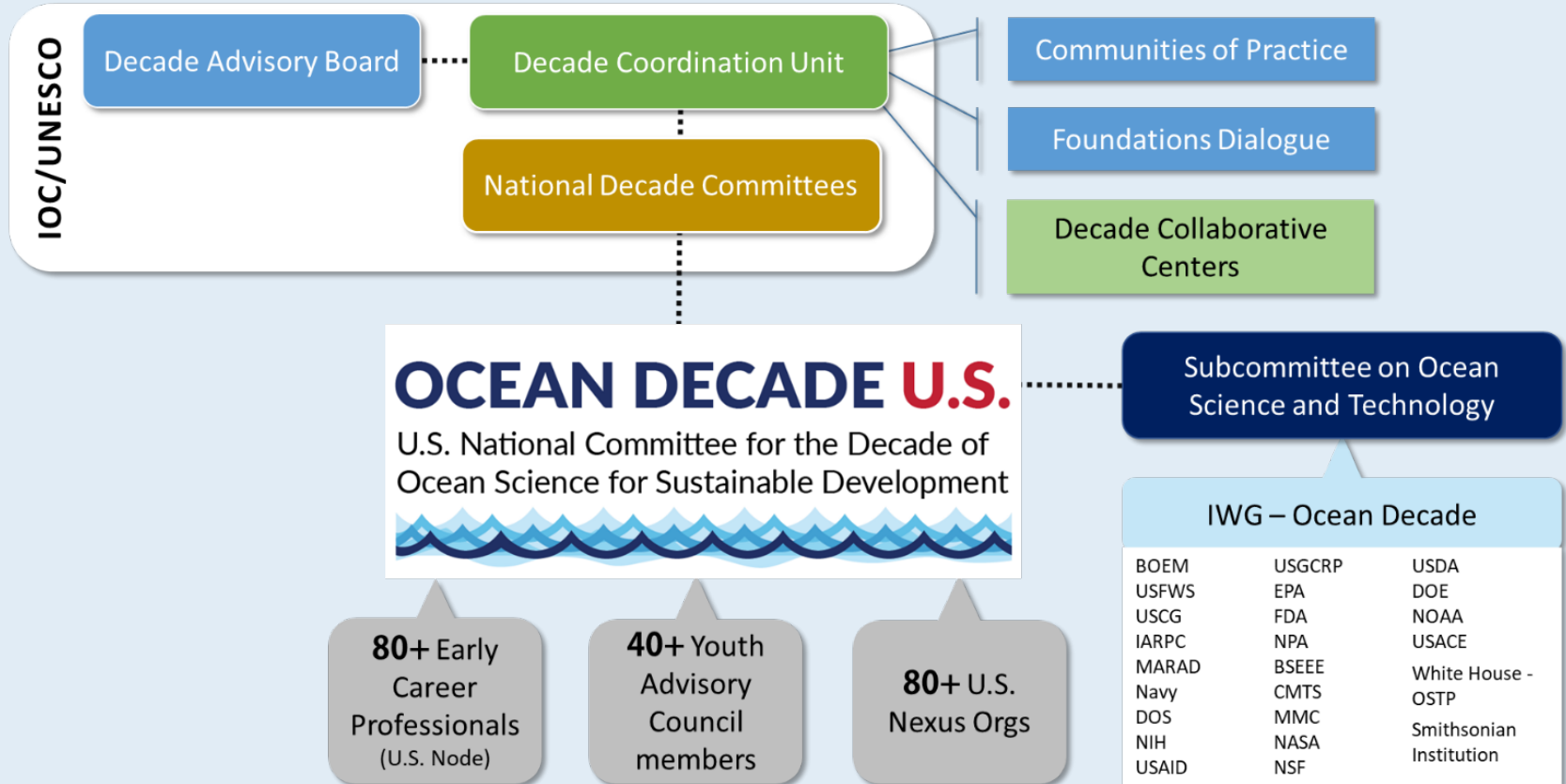
UN Decade of Ocean  
Science for Sustainable  
Development



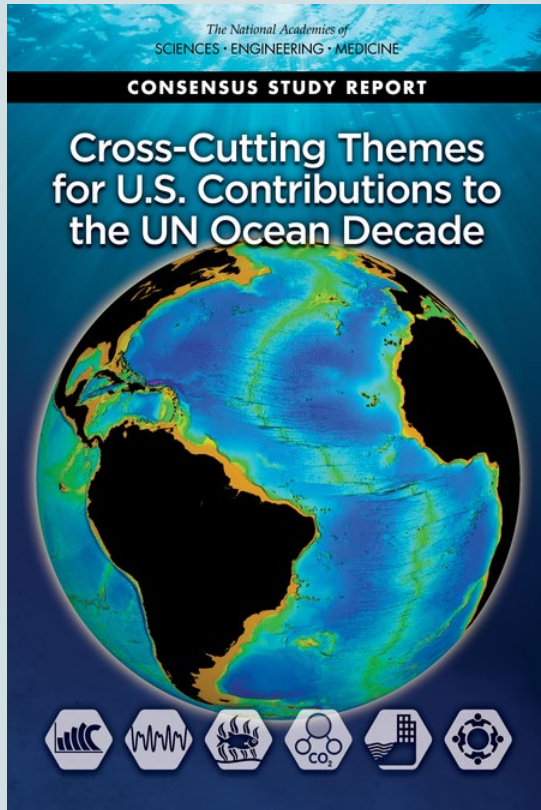
'THE OCEAN  
WE HAVE'



# Ocean Decade: U.S. Coordinating Bodies



# Collaborating with our National Committee



Themes identified  
considered over 100

*“Ocean Shots”*

“... **ambitious, transformational research concepts** that ... fundamentally advance ocean science for sustainable development ... ”

## Foundational Themes

An Inclusive and  
Equitable Ocean



An Ocean of Data

## Topical Themes

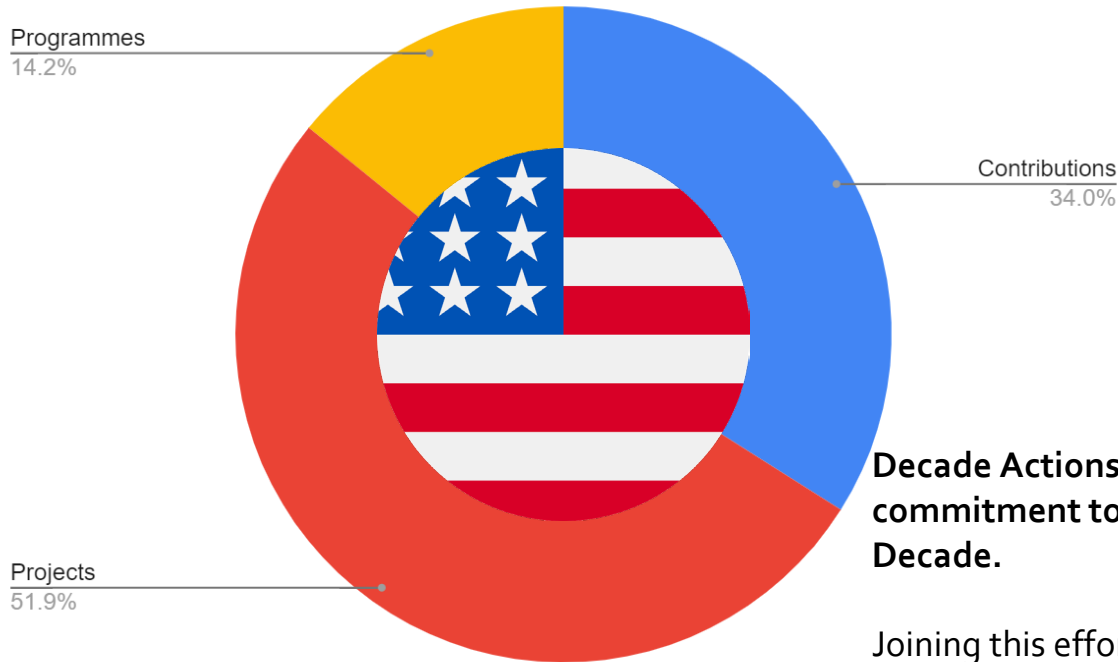
The Ocean  
Revealed

The Restored  
and Sustainable  
Ocean

Ocean Solutions  
for Climate  
Resilience

Healthy  
Urban Seas

# U.S.-led Ocean Decade Actions as of April 2024



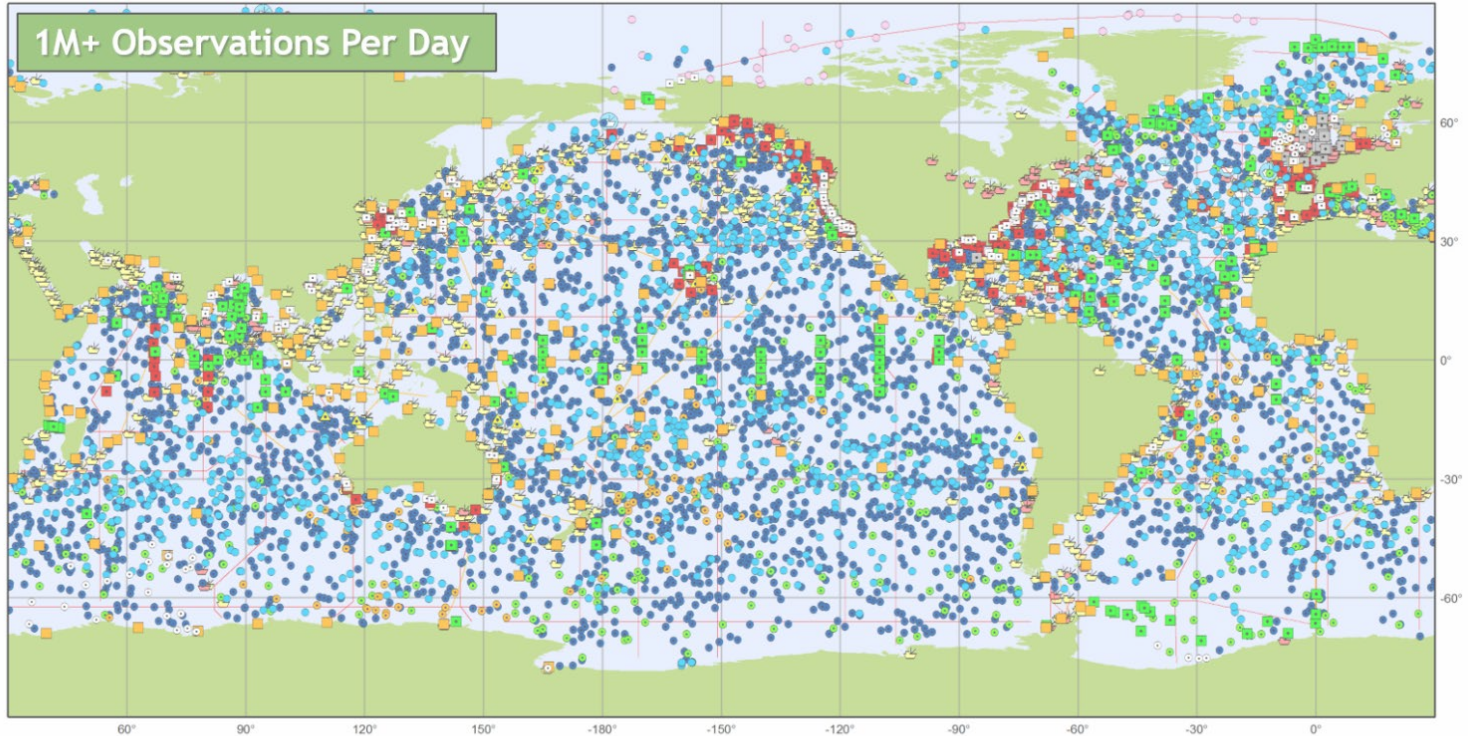
***The USA accounts for 22% (N=106) of all submitted Decade Actions (N=476)***

**Decade Actions demonstrate national interest and commitment to achieving the goals of the Ocean Decade.**

Joining this effort provides opportunities to collaborate and share resources across disciplines and geographies.



# Let's talk about the DATA ...



# Ocean Decade Data & Information Strategy and Implementation





## “Sparkly fountains need robust plumbing systems”

– Terry McConnell

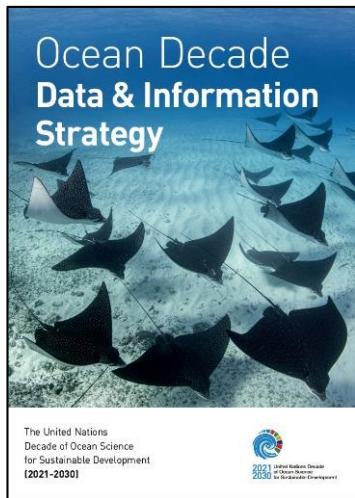
G7 International Digital Twins of the Ocean Summit

Especially if you want to connect them

The IP talks about this bit,  
where the *real* magic happens



# A globally distributed, trusted, inclusive, and interconnected ocean data and information ecosystem



Download here:



[Link](#)

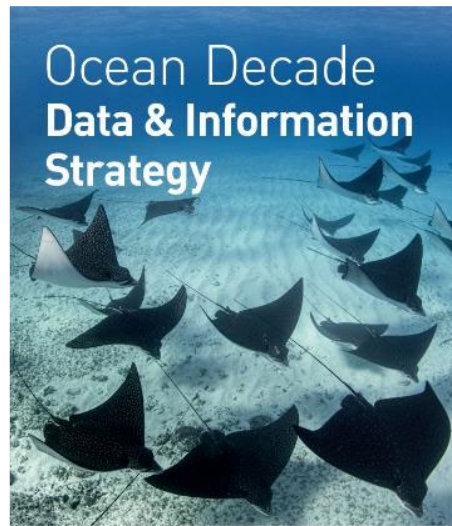
## Five Strategic objectives

1. Establish a globally distributed ocean digital ecosystem allowing sharing and equitable access of multidisciplinary data, information and knowledge by all
2. Improve data and information discovery and usability
3. Build trust in data and information shared across the digital ecosystem
4. Prioritize digital solutions that support decisions for sustainable ocean management
5. Expand, empower, and mobilize global communities to advance and maintain the ocean digital ecosystem

# Strategy implementation plan – Why it matters to you



The United Nations  
Decade of Ocean Science  
for Sustainable Development  
(2021-2030)



The United Nations  
Decade of Ocean Science  
for Sustainable Development  
(2021-2030)



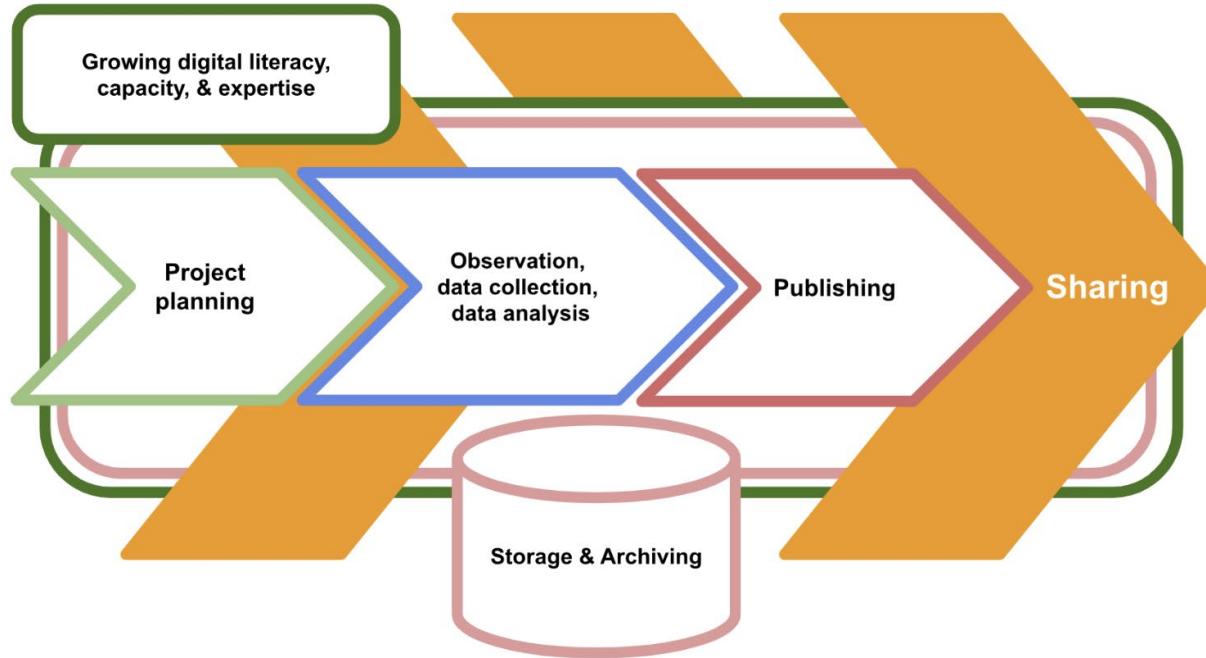
## Aligning to a multilateral mission

The implementation plan will guide you and your data teams to **concretely and meaningfully** align your system to others contributing to the Ocean Decade

## We're better together

If our digital capacities are implemented using similar norms, they can **robustly and sustainably** work together – this will help the Ocean Decade's partnership thrive well past 2030

# Strategy implementation plan – How is the document organised?



# Strategy implementation plan – who are the priority implementers?

Implementer	Planning	Data collection, observation, analysis	Data Sharing	Storage & Archiving	Grow digital literacy, capacity, expertise
Decade-endorsed programme/project leads	•	•	•	•	
Data originators/providers		•	•	•	
IODE National Oceanographic Data Centres (NODC) and Associate Data Units (ADU)		•	•	•	•
Global Data Assembly Centres (GDACs)		•	•	•	•
Ocean data centres / repositories		•	•	•	
Data publishers				•	•
Data users	•				•
...					

# U.S. Integrated Ocean Observing System: One National Example

[ABOUT](#)[COMMUNICATIONS](#)[DATA](#)[IOOS IN ACTION](#)[REGIONS](#)[COMMUNITY](#)

Week of 4/8: System status NORMAL. To check individual assets and information, visit [ioos.us](https://ioos.us) and/or the [Environmental Sensor Map](#).

## Data

[Home / Data](#)

### IOOS.us National Data Portal

Integrated data, easily accessible, in a variety of formats to address your needs.



### Regional Data Portals

Links to IOOS Regional Associations' Individual Data Portals

### Sites & Apps for Mobile Use

Apps and mobile websites for data and info on the go!

### Access IOOS Data

Discover the different tools to access IOOS data!

### Data Standards & Cyberinfrastructure Requirements

Core capability requirements for IOOS Regional Associations and other IOOS grant recipients

# What's transformative about this strategy and implementation plan?

Data as a first-class, prioritised, and early output of all Actions

Concrete steps to modernise and link data flows across science and sustainable development

Enhancing capacity to work with data on the web & AI-augmented systems

Foundations for new digital economics and marketplaces – new relationships between scientific and societal data

Operational norms for human and machine agents – data in controlled and ethical action, all the time, everywhere



# Strategy implementation plan – Next steps and timeline

## April

- Present Strategy Implementation Plan at Ocean Decade 2024 Conference
- Publish actions on GitHub as they are finalized

4

5

## May

- Gather participant
- Invite from

Sign up here to participate in the review and consultation process:



<https://www.surveymonkey.com/r/PMF3Q7Z>

## September / October

- Gather all reviews and comments, including GitHub feedback
- Compile and publish final version

9/10

## August

Consultation and review

Implement actions based on GitHub feedback



**Next Steps  
for  
US Federal  
Engagement  
in the  
Ocean Decade**



# 2nd UN Ocean Decade Conference - Barcelona, Spain

## Meeting Objectives:

- *Stocktake actions & provide platform for announcements/actions*
- *Explore additional collaborations among National Committees & Working Groups*
- *Defining success for each challenge via the Vision 2030 white papers*

# 2024 OCEAN DECADE CONFERENCE BARCELONA STATEMENT

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**12 April 2024**

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**Barcelona, Spain**

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# What's next for IWG-Ocean Decade specifically?

- *Requesting feedback on approach to future Calls for Actions (“CFDAs”) and ongoing NOAA efforts with the U.S. National Committee.*
  - ***What more could Federal Agencies do to promote our most transformational science via the Ocean Decade?***
  - ***How can Federal Agencies do more to leverage the Themes discussions for NOAA science and service mission?***





Thank you!

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