

Building a globally integrated network of networks to observe the deep ocean effectively in support of science, policy, and planning for sustainable oceans.

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DOOS Project Director

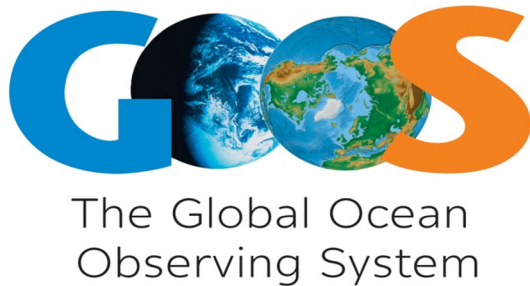


2021 United Nations Decade
2030 of Ocean Science
for Sustainable Development



What is DOOS

An **international, community-based group** focused on developing a roadmap that will lead to an improved understanding of the state of the global deep ocean with respect to baseline conditions, response to climate change and response to human disturbance.



DOOS is a GOOS project envisioning a globally integrated network of systems that observes the deep ocean (> 200 m, with emphasis > 2000 m) in support of science, policy and planning for sustainable oceans.



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UN Ocean Decade Endorsed Programme: DOOS will promote the human capital and observing infrastructure needed to address critical scientific and management questions related to the climate, biodiversity and sustainability, while growing a diverse and inclusive next generation of deep-ocean leaders.

Implementing a Deep Ocean Observing Strategy (iDOOS)

within the Global Ocean Observing System (GOOS)

Observing & Exploration Networks

Argo (Core, BGC, Deep)
 Challenger 150 (DOSI/SCOR)
 EMSO
 GEO BON
 GO-SHIP
 iAtlantic
 MBON
 NDSF/UNOLS
 NOAA Ocean Exploration
 OceanSITES
 OECI
 ONC
 OOI
 REV Ocean
 Schmidt Ocean Institute
 JTF SMART Cables
 SOOS/SOCCOM
 TPOS 2020
 US-IOOS

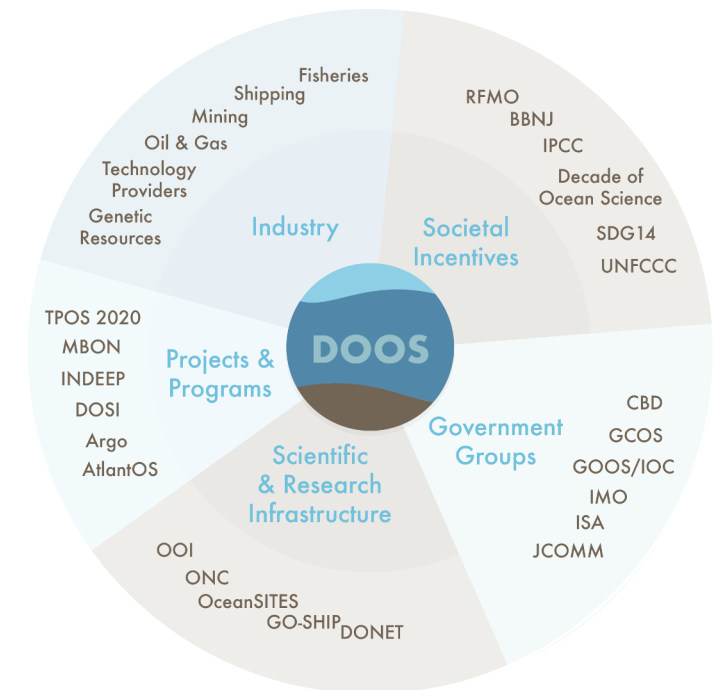
Data & Modelling CI Networks

CCHDO
 CLIVAR GSOP
 CLIVAR/OMDP & CMIP
 ECCO
 EMODnet
 ESIP/MDC
 Esri
 FathomNet
 IODE/ODIS
 IRIS
 ISA DeepData
 Mercator Ocean
 OBIS
 OBPS
 OceanPredict
 Seabed 2030

Management & Policy Users

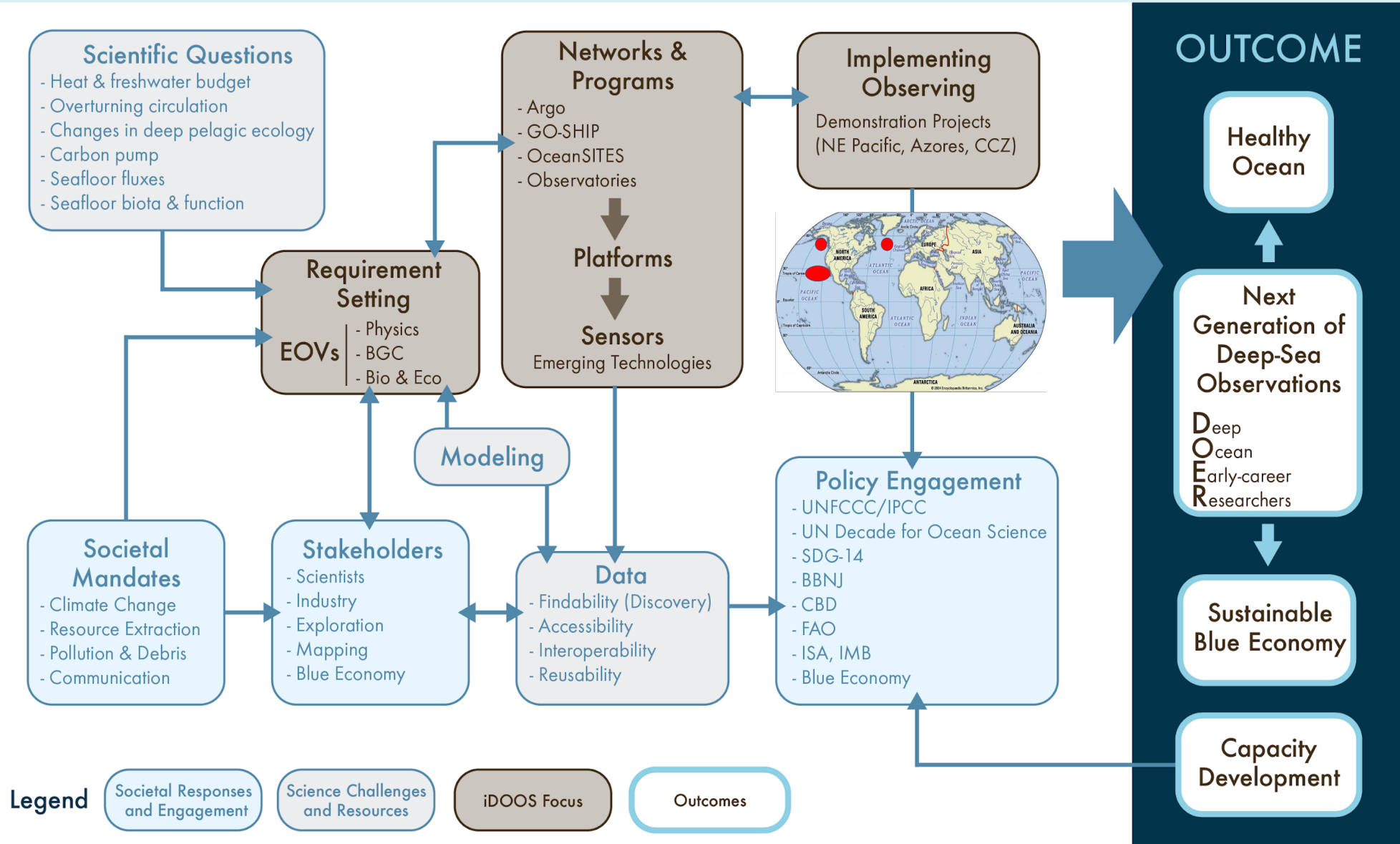
AtlantOS
 DOSI
 GEO-BluePlanet
 GOOS
 Internat. CLIVAR
 InterRidge
 ISA
 IUCN
 POGO
 UN Decade
 UN Global Compact
 U.S. CLIVAR
 U.S. OCB
 U.S. Sanctuaries
 & Monuments

An interconnected network of deep-ocean observing, mapping, exploration, and modelling programs with a diverse set of stakeholders





How DOOS Works



Working Groups

Theme 1: Requirement Setting

- Essential (deep) Ocean Variables
- Coordination with Modelling Community
- Develop and Promote Best Practices

Theme 2: Implementation

- Create roadmaps for observers to contribute globally
- Technology Readiness Levels
- Demonstration Projects (e.g., Azores)

Theme 3: Translating Science

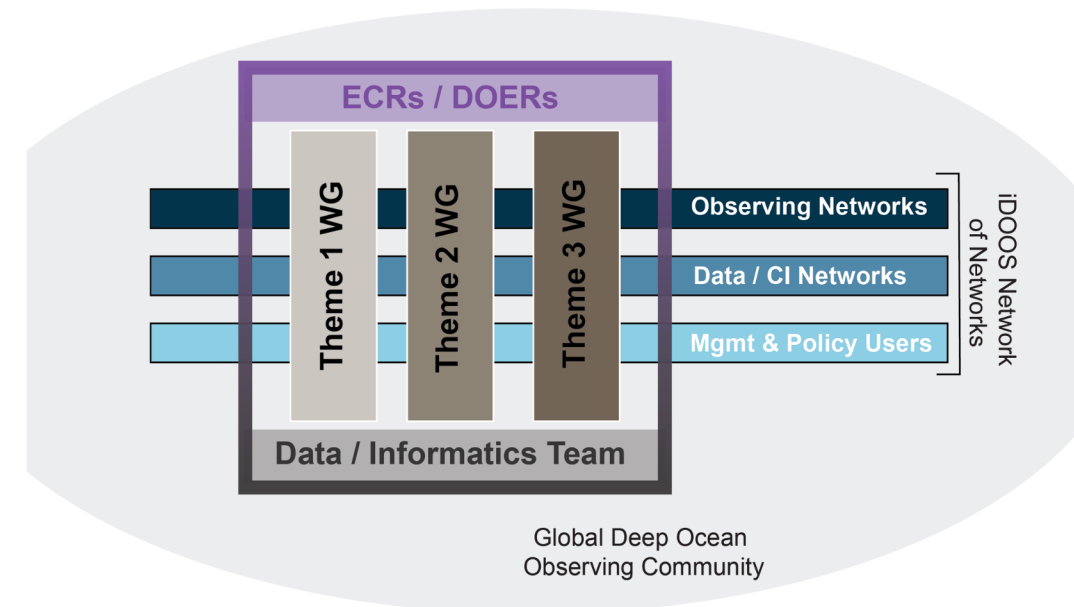
- Raise awareness among policy-makers
- Creation of briefs and other outreach materials
- Represent DOOS in UN Decade activities

Cross-Cutting Themes

ECRs/DOERs

Data/Informatics

- Working Group Support
- Early Career Researcher Trainings
- Hackathon





Deep Ocean Early-career Researchers

GOAL: Foster the next generation of leaders in deep ocean observing

- Collaborative early career mentoring program
- Diverse, inclusive, cross-disciplinary, international cohort of 50–60 ECRs
- 4y program with quarterly (2-hr) virtual professional development events
 - Y1: Leading international, interdisciplinary projects
 - Y2: FAIR data principles training
 - Y3: Create a DOOS Demonstration Project
 - Y4: Communicating science to diverse audiences
- Networking opportunities across iDOOS
- Integration into iDOOS working groups and elevation to leadership roles
- Honoraria and travel funding available for some representatives from developing countries

The program kicks off this fall!!

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ECOP
Early Career
Ocean Professionals

@OceanDecadeECOP