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Intergovernmental
Oceanographic
Commission



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development



UN DECADE
COLLABORATIVE
CENTER

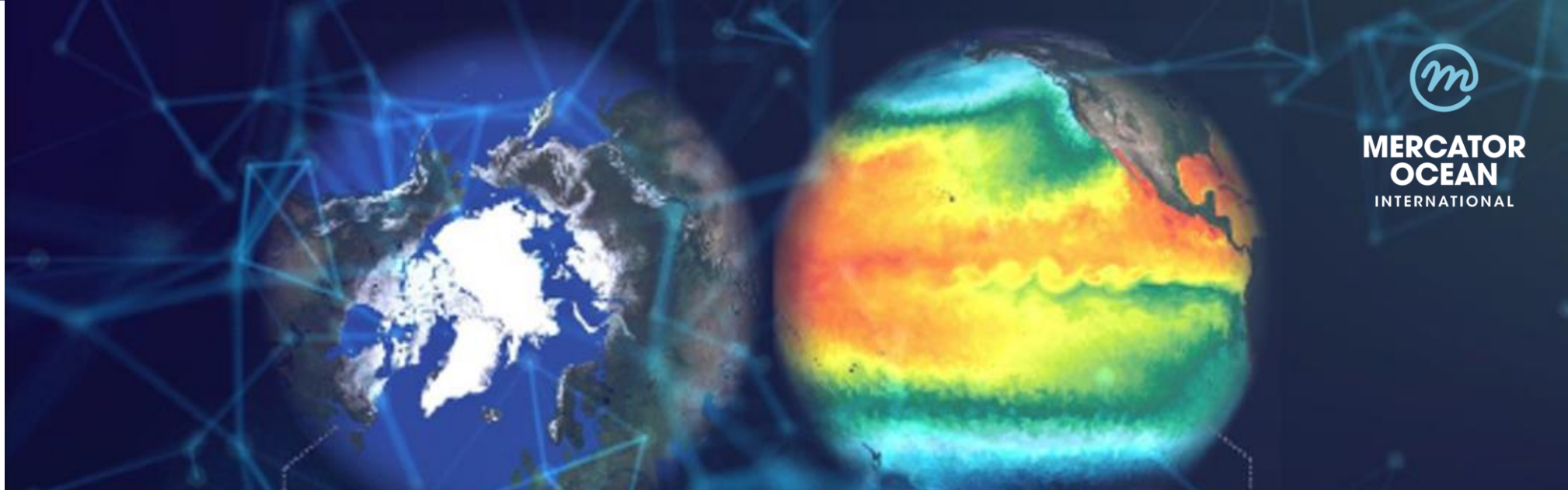
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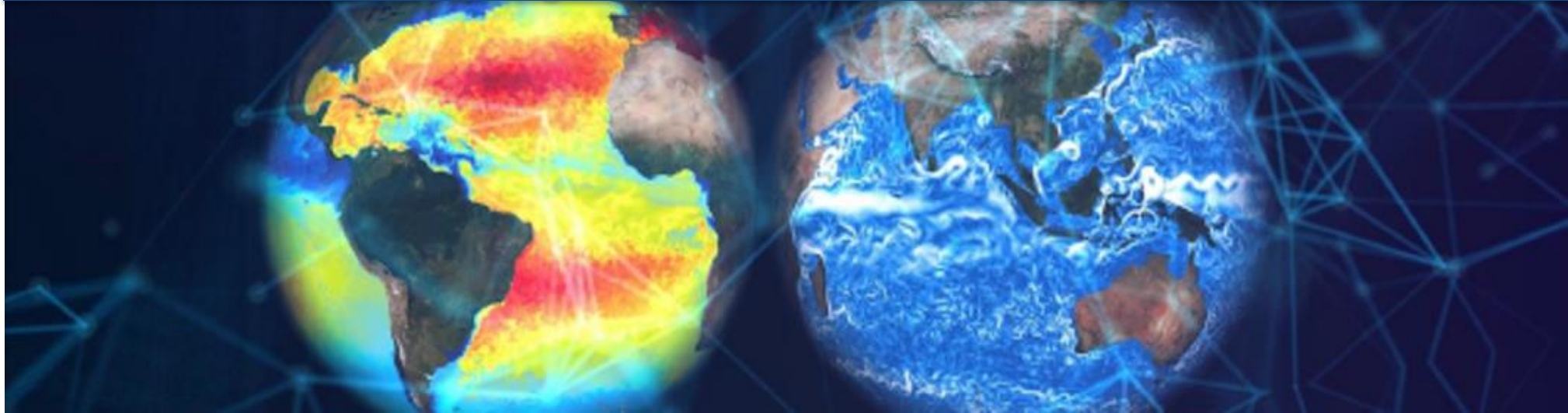
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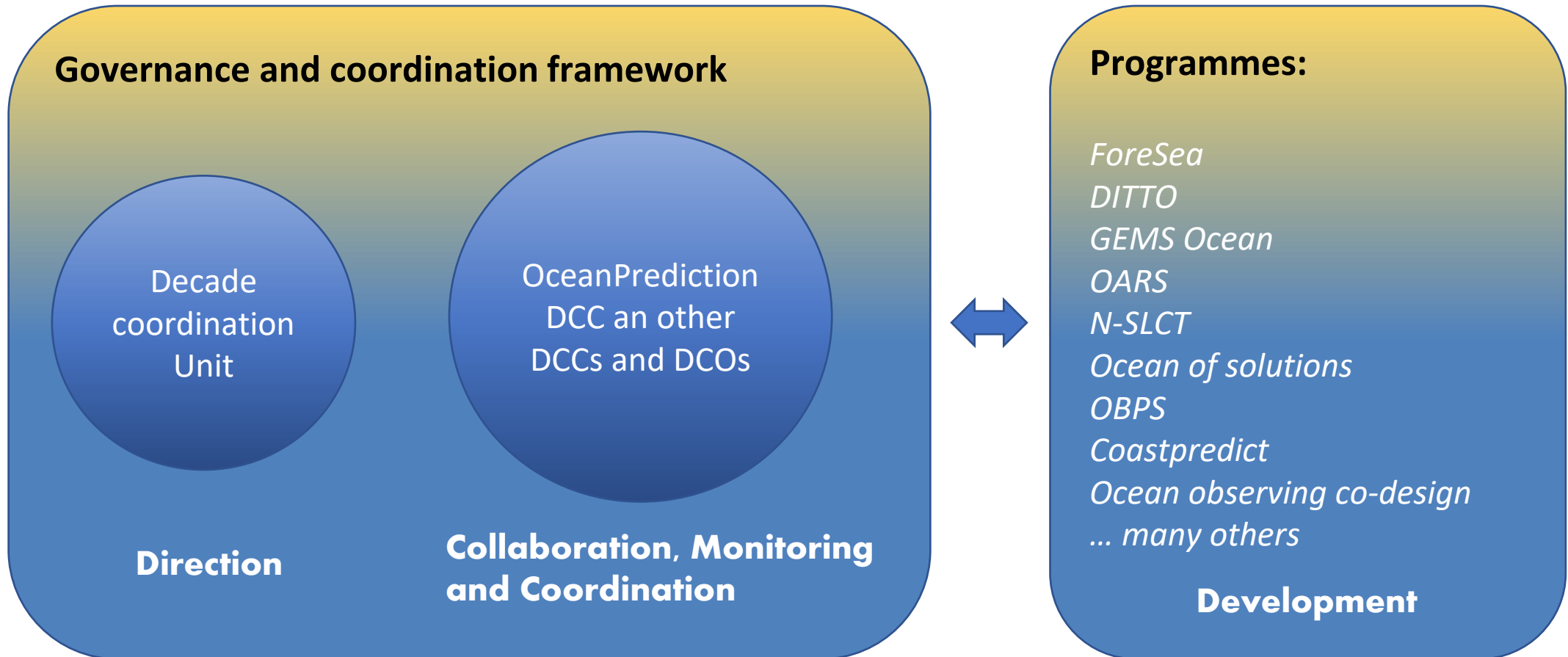


OceanPrediction

Decade Collaborative Centre

Connecting the world around Ocean Prediction





2020: THE OCEAN FORECAST WE HAVE



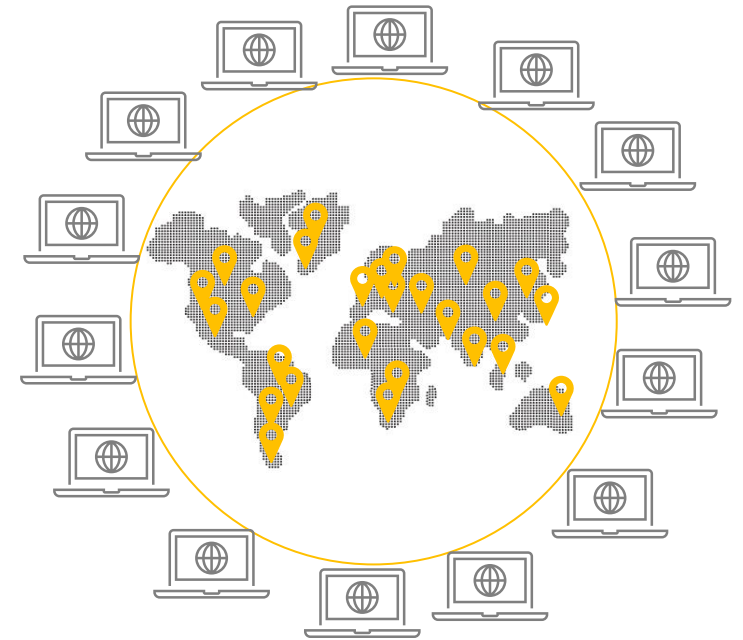
- Useful but partially disconnected services
- Poor presence in developing countries

OceanPrediction DCC VESSEL

Captain: UN Ocean Decade
Chief engineer: Decade actions and DTO
Crew: OceanPrediction DCC community
Navigator: OceanPrediction DCC



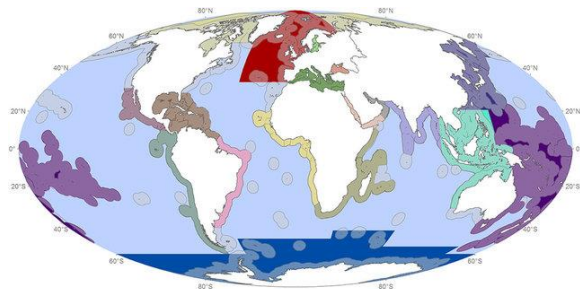
2030: THE OCEAN FORECAST WE WANT



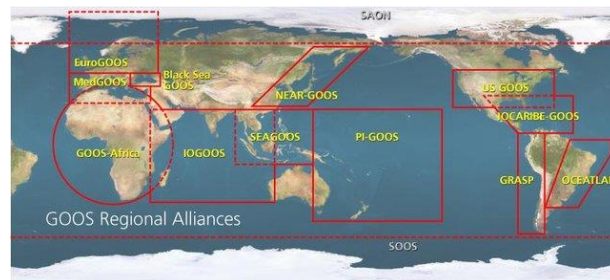
- Connected community and services
- Many robust systems worldwide

Oceanprediction DCC regional teams: Promoting the implementation and use of ocean forecasting systems worldwide

UNEP regional seas



GOOS regional alliances



- Region 0: global
- Region 1: West Pacific and East Asian seas
- Region 2: Indian seas
- Region 3: African seas
- Region 4: Mediterranean and Black Sea
- Region 5: North-East Atlantic
- Region 6: South and central America
- Region 7: North America
- Region 8: Arctic
- Region 9: Antarctic

“Boots on the ground” work:

- Identify and attract a wide community : Scientist, users, private sector, ONGs, etc...
- Support decade actions related to ocean forecasting
- Identify gaps and ways forward
- Capacity building
- Advocate for implementation of Best Practices, Standards and Tools
- ...

One example: the virtual halls

The image displays a collection of virtual hall cards from a digital platform. The cards are arranged in two main columns. The left column features cards for 'UN Decade Hall', 'Oofs Hall', and 'Downstream Hall'. The right column features cards for 'ETOOFS Hall' and 'Downstream Hall'. Each card contains a title, a central image or diagram, and a 'Visit' button. The cards represent various ocean science and forecasting initiatives, including regional coastal models, digital twins, ocean observing co-design, and ocean forecasting systems.

UN Decade Hall

- Oofs Hall**
 - Seamod - Jallouf I Regional coastal models for the Black Sea
 - INCOIS - Indian National Centre for Ocean Information Services
 - U.S. NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE
 - OPERATIONAL FORECAST SYSTEMS
 - U.S. National Oceanic & Atmospheric Administration - Operational Forecast Systems I
 - NOAA-OFS
 - Operational Ocean Forecasting Systems Virtual Booth
 - Connecting the world around ocean production
 - Download the Corsea CMEMS-MFC-Med
 - The CYCOFOS forecasting system in the Med-Sea assisting regional agencies in major oil pollution crisis
 - Capitania Marina Mediterranean Monitoring and Forecasting Center (Med-MFC)
 - MED-MFC | Mediterranean Sea Monitoring & Forecasting Center
 - CYCOFOS
- UN Decade Hall**
 - Ocean Observing Co-Design
 - Digital Twins of the Ocean (DITTO) Decade Programme
 - Digital twin of the ocean - DITTO
 - Invitation to join OSF
 - Ocean to climate Seamless Forecasting system - OSF

ETOOFS Hall

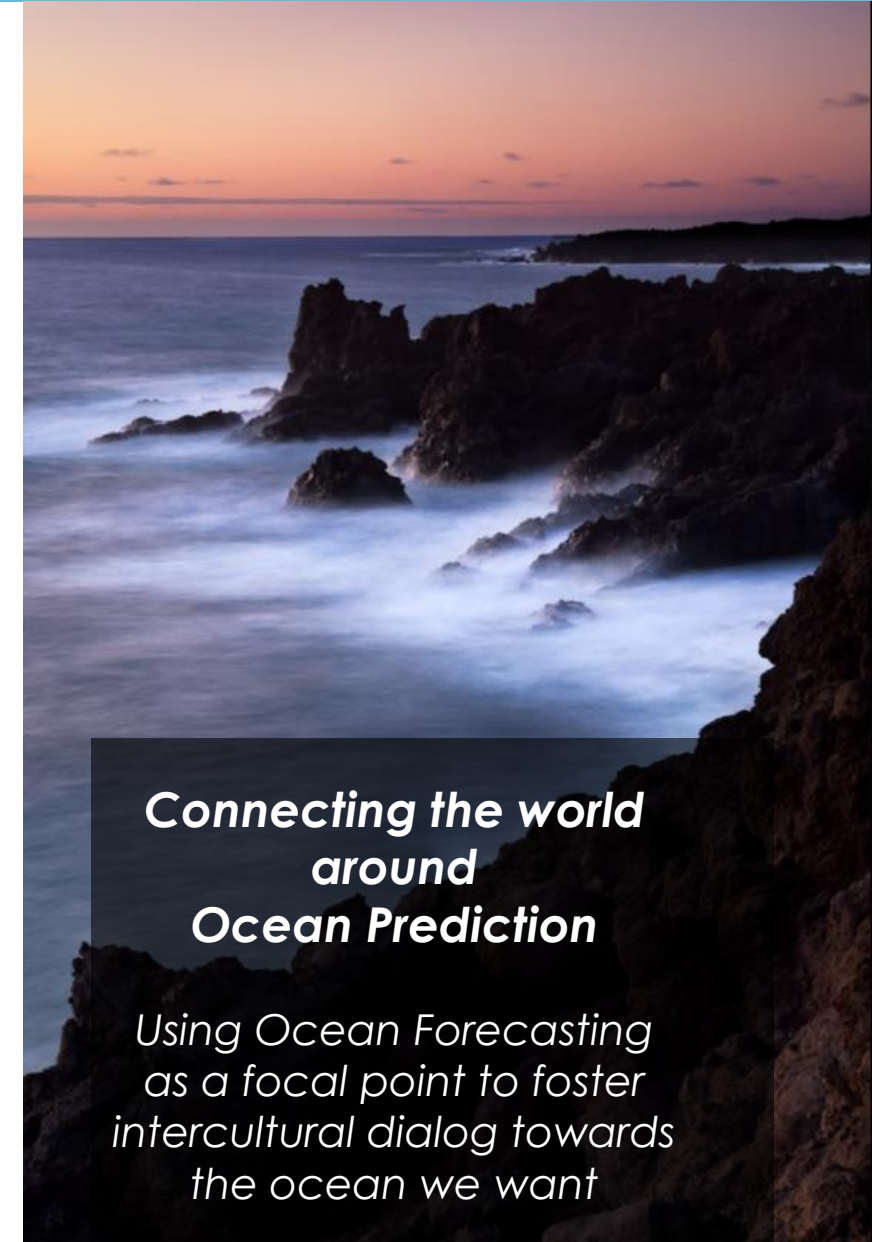
- Introduction to the ETOOFS Guide
- Motivation and international context of ocean forecasting
- Definition of ocean forecasting systems
- Architecture of ocean monitoring and forecasting systems
- Ocean circulation modeling
- Sea ice modeling

Downstream Hall

- DRIFT+NOISE
- Noise Polar Services - IcySea
- TA-VISIR - decision support system for fisheries in the Adriatic Sea
- CoastS - Coastal circulation on-demand



- OceanPrediction DCC: a key element for the ocean prediction we need
 - Builds an active community of users, scientists and policymakers (with additional focus on developing countries)
 - Harnesses the Decade framework and arrival of the Digital Twin of the Ocean, to join and deliver together worldwide
- Substantial benefits expected
 - A connected community
 - New and better OOFs
 - A technologically linked worldwide ocean forecasting framework
- Significant challenge!
 - Only possible through collaboration with Decade programmes and other relevant actors



**Connecting the world
around
Ocean Prediction**

*Using Ocean Forecasting
as a focal point to foster
intercultural dialog towards
the ocean we want*