

OceanPrediction DCC: connecting the world around ocean forecasting

Enrique Alvarez Fanjul



unesco

Intergovernmental
Oceanographic
Commission



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

Connecting the world around Ocean Prediction: *A vision for the Decade and Beyond*

OceanPrediction DCC programme today



**Technical
Framework**



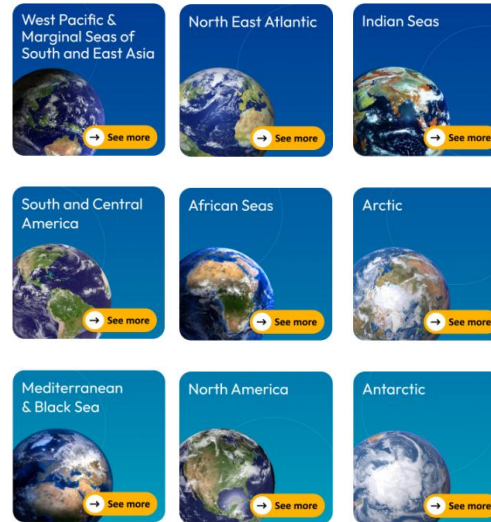
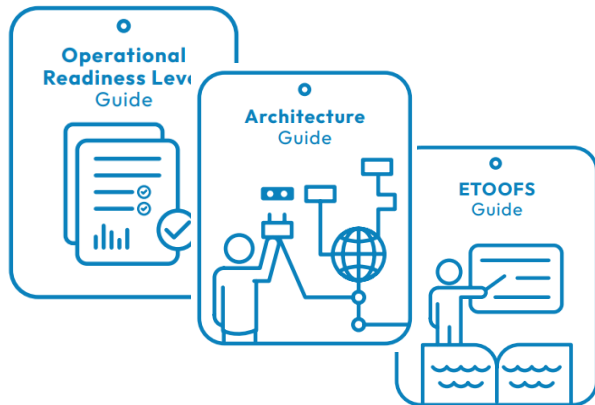
**Community
Framework**



**OPERA
Africa**



**OP4CR
Costa Rica**



unesco

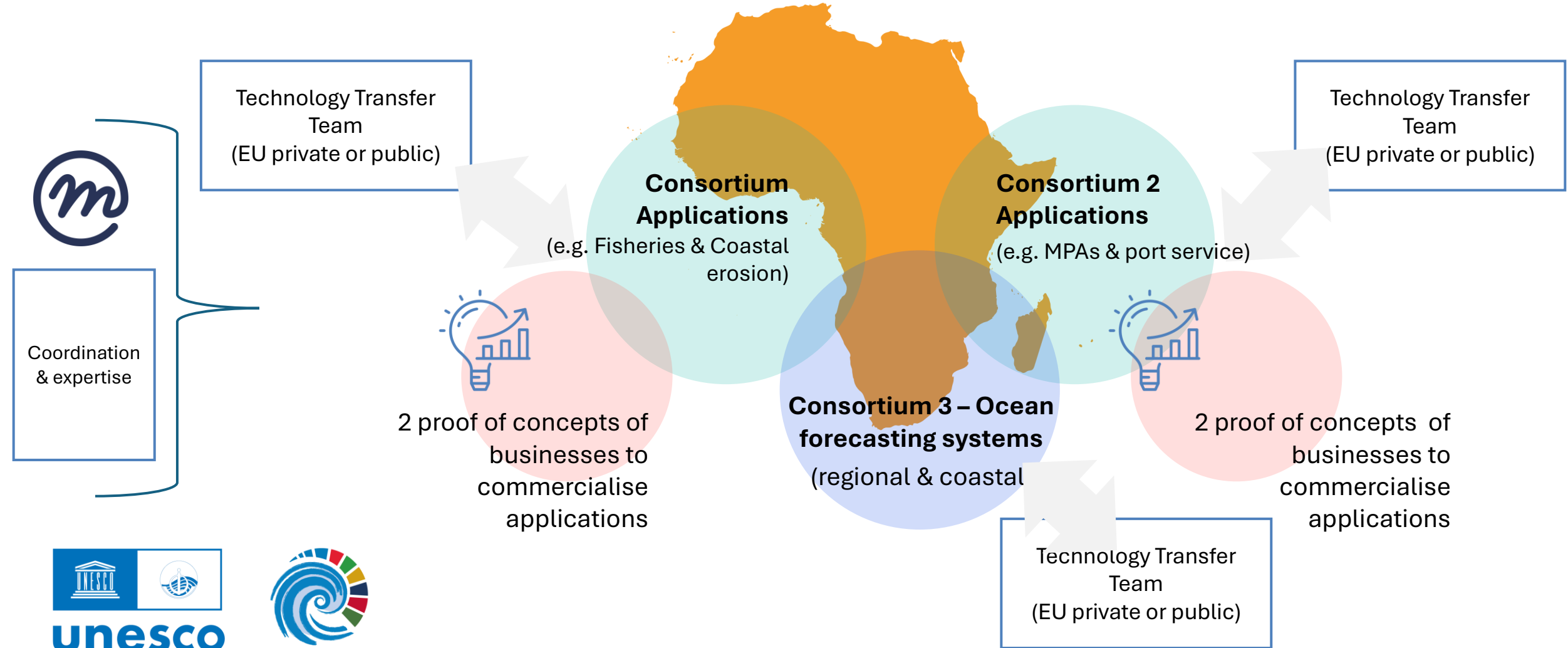
Intergovernmental
Oceanographic
Commission

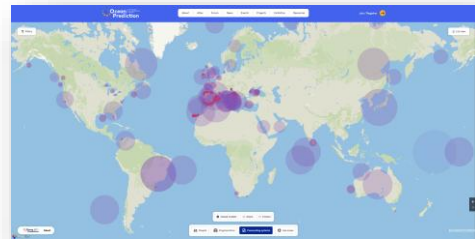
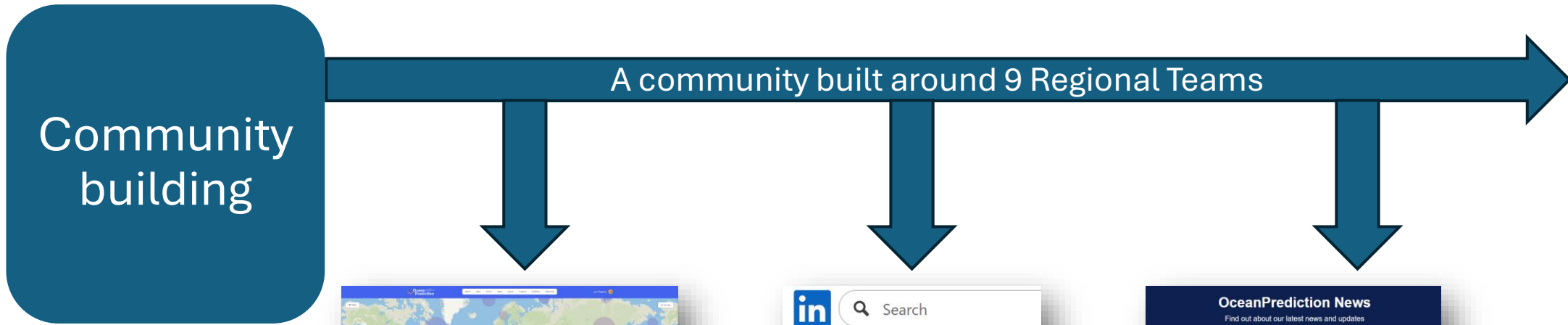


**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development

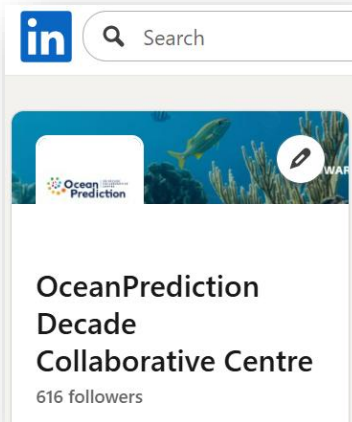
Connecting the world around Ocean Prediction: *A vision for the Decade and Beyond*

OPERA: Ocean Prediction Enhancement in the Regions of Africa

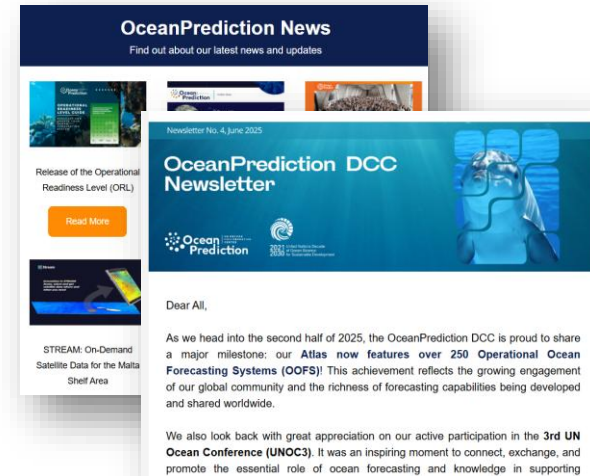




Atlas: Close to 300
forecasting
services registered



LinkedIn: 2000
followers

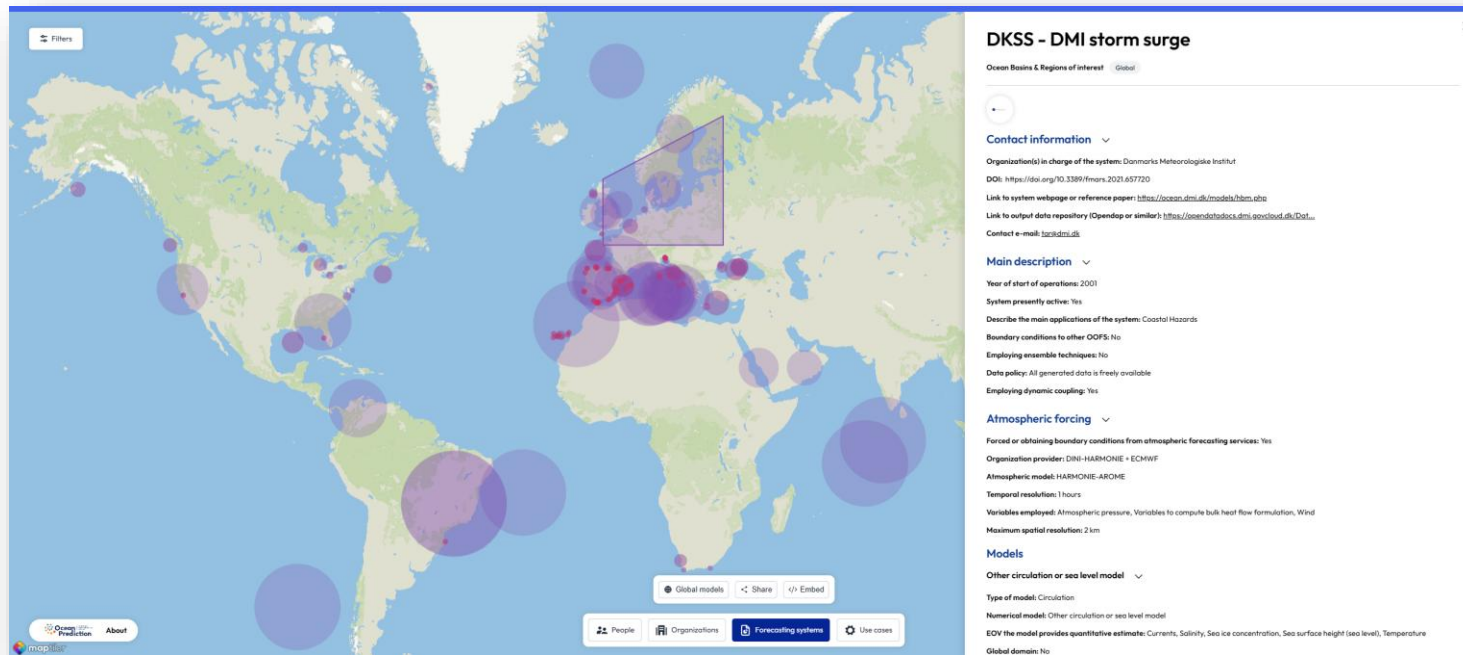


News distribution: web and
newsletter

IH cantabria
INSTITUTO DE HIDRÁULICA AMBIENTAL
UNIVERSIDAD DE CANTABRIA



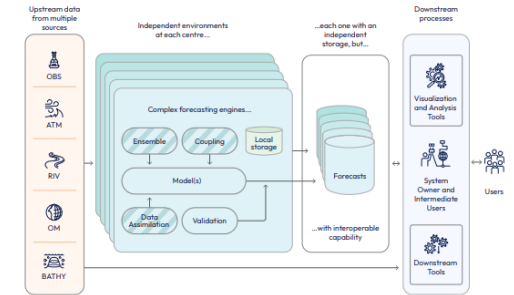
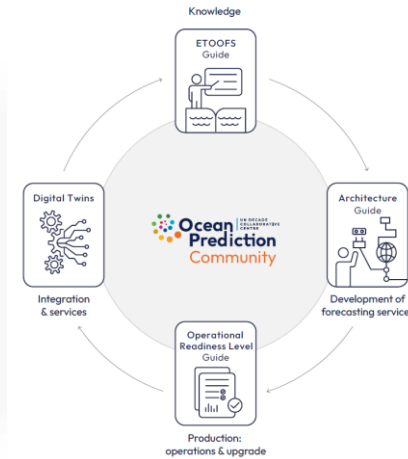
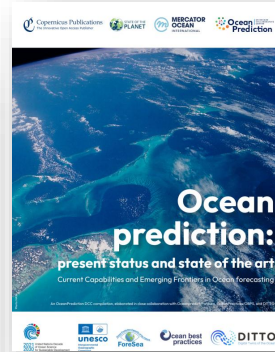
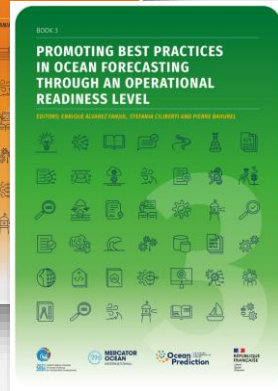
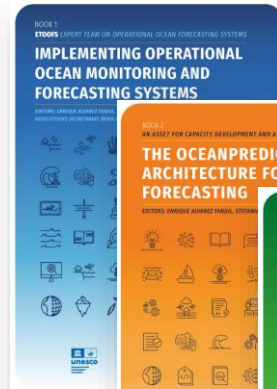
Building a community with our Regional Teams



An atlas built in collaboration with Ocean Predict (OPOS-WG)

Knowledge hub

Supporting the creation and improvement of OOFs, with contributions from the Regional Teams and the OFCT



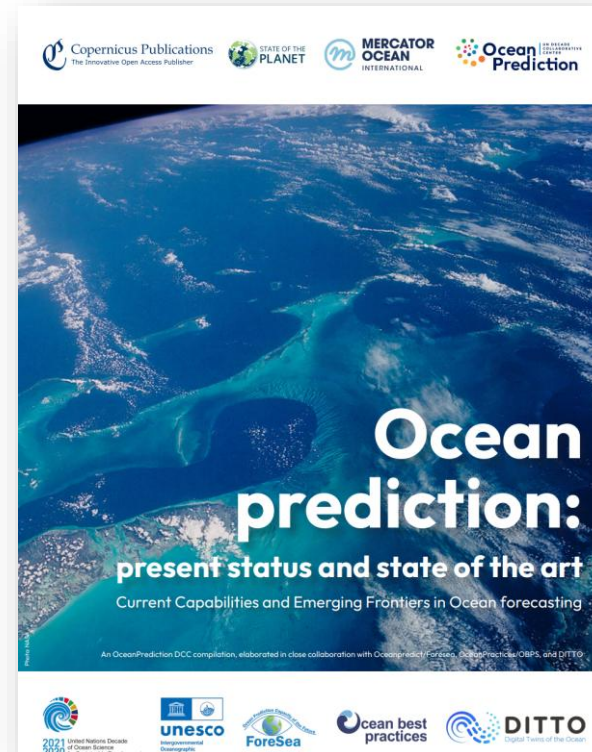
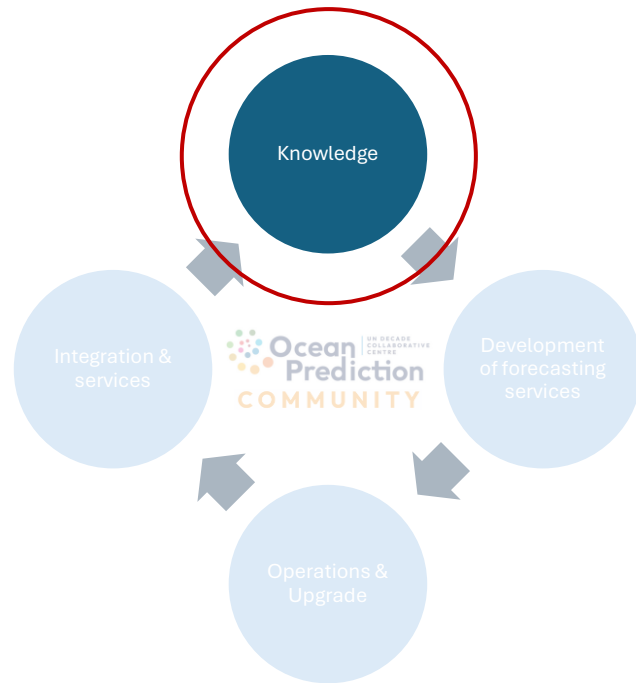
Reference guides

Community publications

Capacity development activities
(derived from OPERA)

Architecture development
(derived from OPERA)

Building our shared knowledge



A special issue (27 papers) describing the status of ocean forecasting from 68 authors from all continents. In close cooperation with Ocean Predict

Introduction (1 paper)

From global to Coastal (3 papers)

Description per Regional team (2 papers)

Connecting with observations for improved forecasts (3 papers)

Predicting blue, green, and white ocean (5 papers)

Building trust in forecasting (3 papers)

Air-sea-land interactions for improved forecasts (2 papers)

Advanced modelling approaches for ocean forecasting (5 papers)

Bridging ocean science and society (2 papers)



unesco

Intergovernmental
Oceanographic
Commission

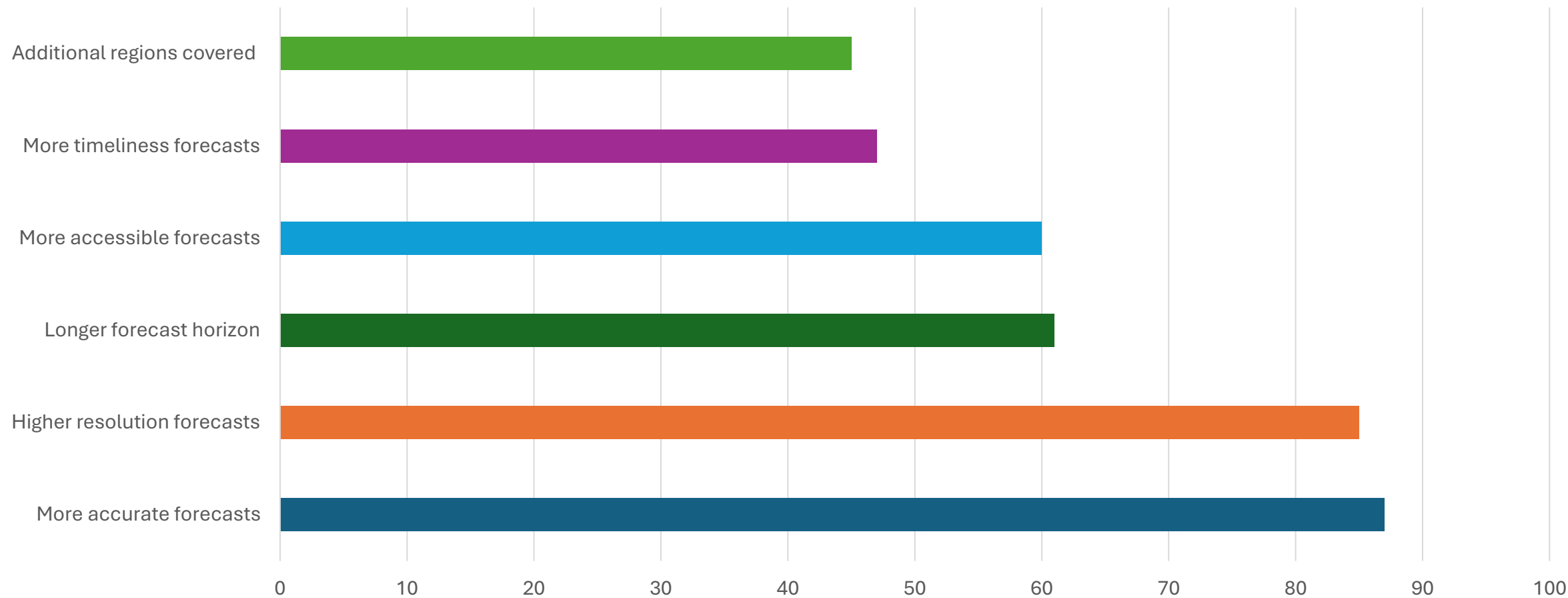


**2021
2030** United Nations Decade
of Ocean Science
for Sustainable Development

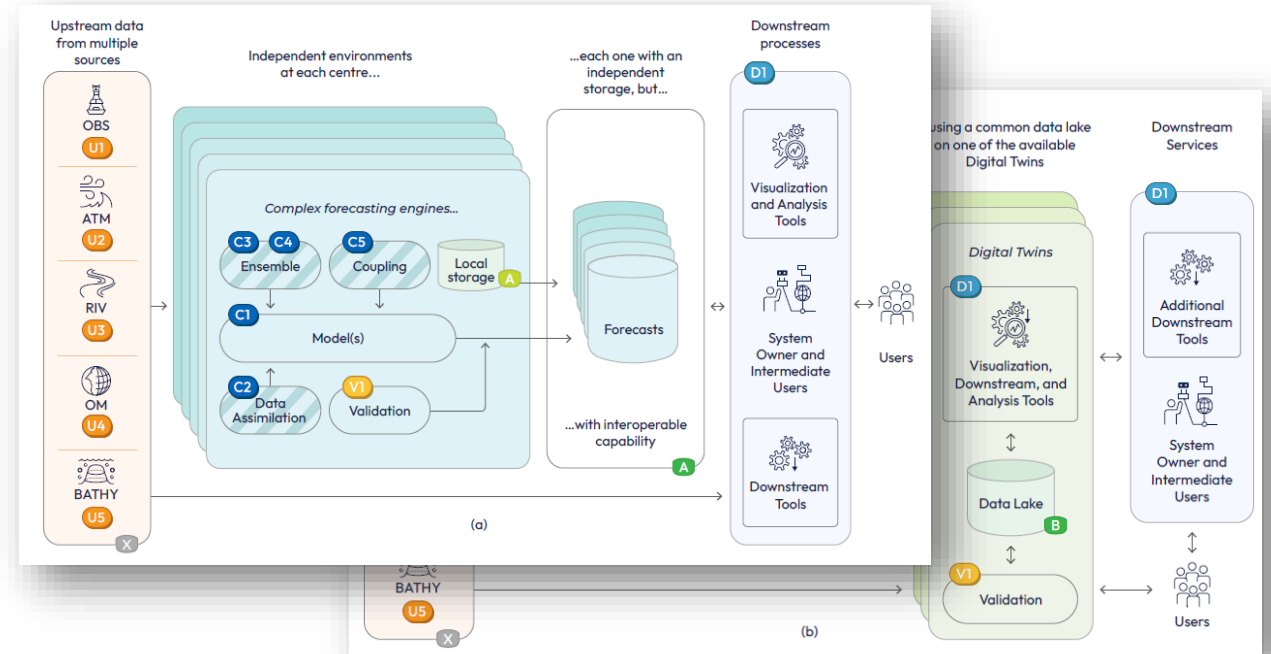
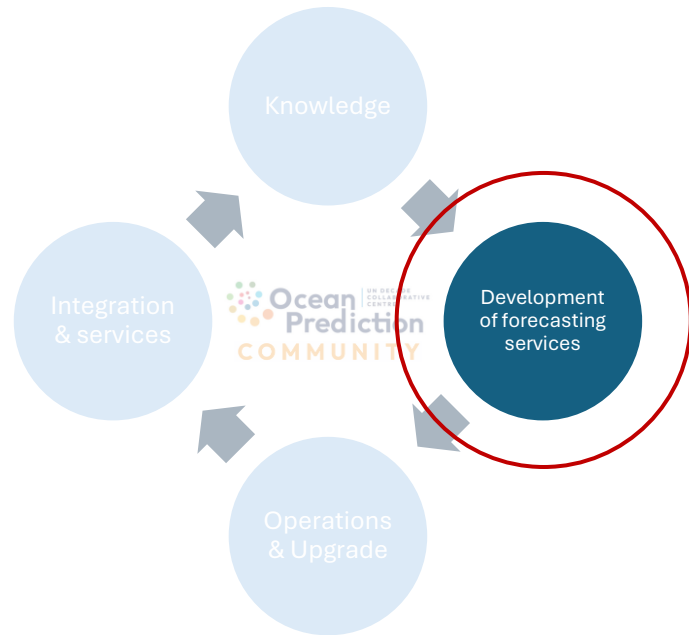
Connecting the world around Ocean Prediction: *A vision for the Decade and Beyond*

Survey on gaps

Needs for improvement

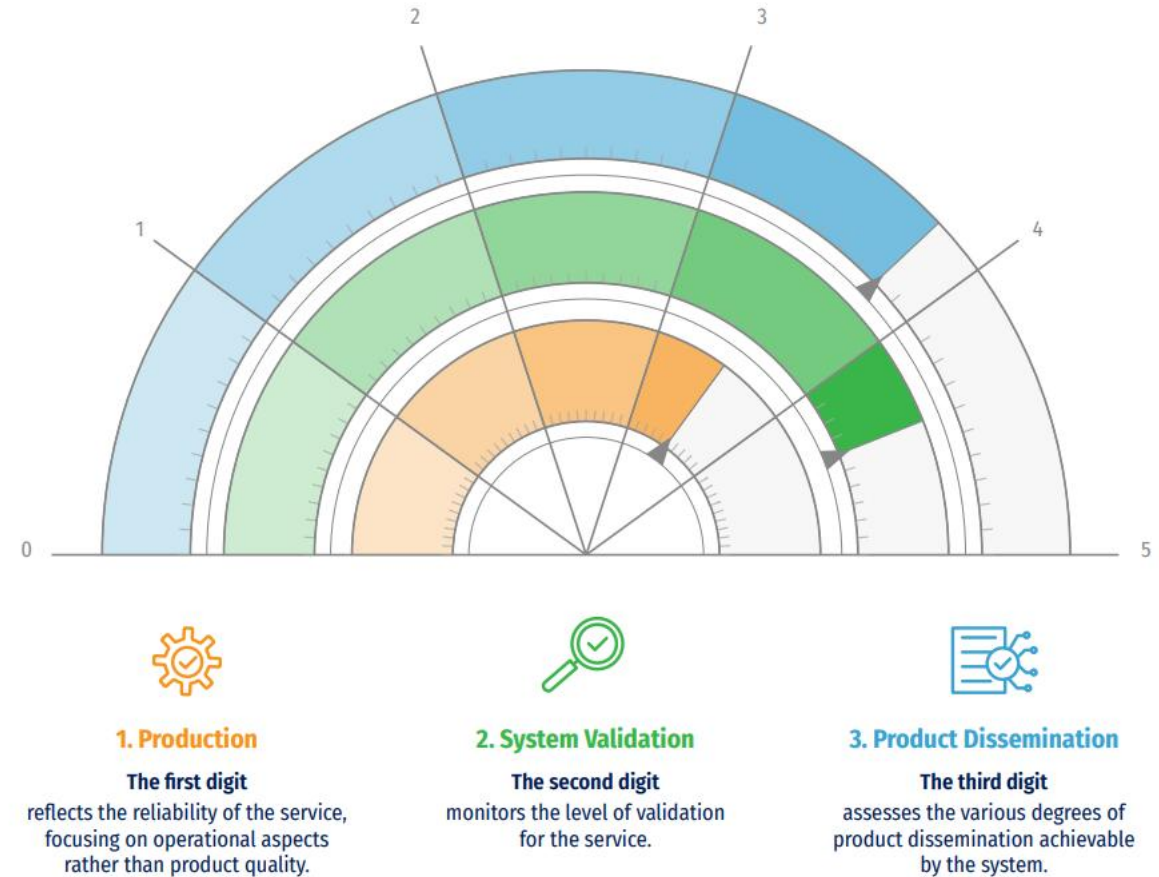
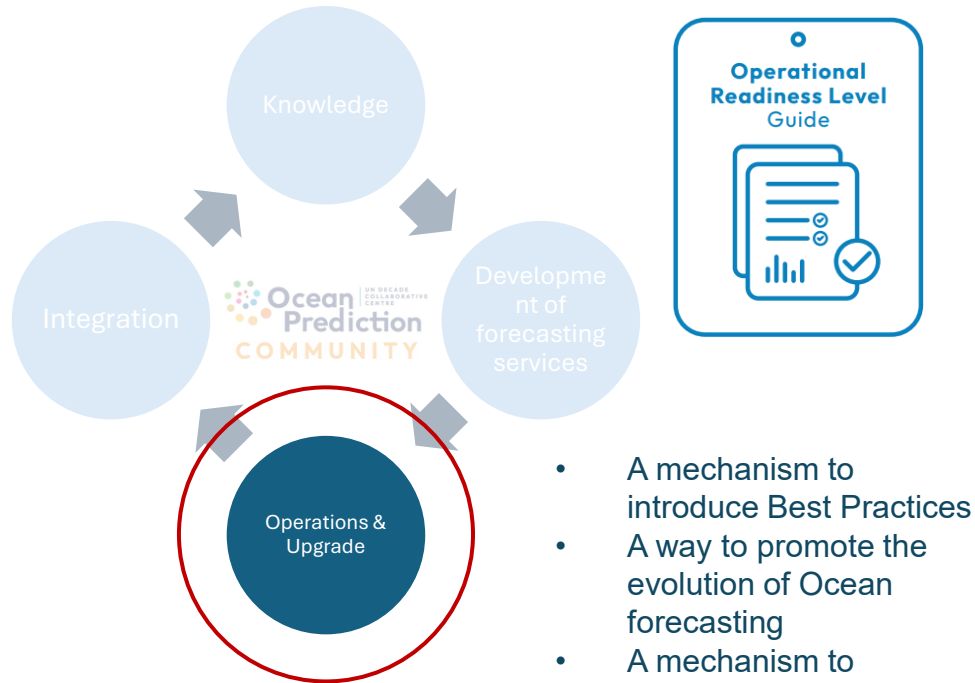


Building robust Ocean forecasting services



- A practical Guide on how to “wire” a Forecasting System
- A community product developed in cooperation with Ocean Predict
- Soon will be followed by the actual software in two versions (one for educational purposes)

Operating and improving Ocean forecasting services



Conclusions

- OceanPrediction DCC will work in close collaboration with Decade partners to promote Ocean Forecasting and its applications during the Decade
- A community is organized around the Regional Teams. Regional teams can be better connected with OceanPredict/FORESEA
- Many assets that will be used in coordination with OceanPredict:
 - Architecture (including the software)
 - Guides (including incoming one in Data standards)
 - ORL (including software to compute it)
 - Atlas
 - ... more to come
- Register at <https://www.unoceanprediction.org/en>



unesco

Intergovernmental
Oceanographic
Commission



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

Connecting the world around Ocean Prediction: *A vision for the Decade and Beyond*



AOB and... Thanks!

Open discussion