

Looking to the Future

50th Anniversary BODC

8th May 2019

Taco de Bruin



Royal Netherlands Institute for Sea Research







- Standards
- Quality
- Interoperability
- Re-use

*'Collect once, **use** many times'*

(Lesley Rickards)



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

Total collection



Data discovery and access



> 100 data centres



NODCs; HOs; GEOs; BIOs; ICES; PANGAEA

> 500 European data originators

CDI Data Discovery and Access service



GEOS portal



IODE ODP portal

Aggregated collection



Black Sea portal



Caspian portal

Regional subsets



Geo-Seas portal

Thematic portals



Bathymetry

Physics

Chemistry

Geology

Biology



SeaDataNet

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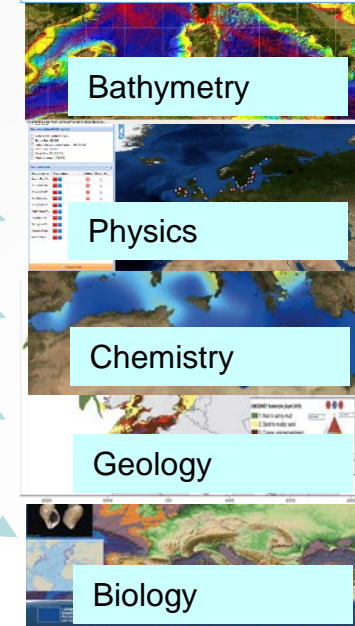
Caspian portal

Regional subsets



Geo-Seas portal

Thematic portals



MoU



- Open data – Open science

- FAIR

- 10 to 20 years ahead

- **Be proud !**

- Tell the world what has been achieved in marine data management
- Are we doing that and are we doing that in an effective way?
- Professional data strategies
- Election campaign managers
- Get into the heads of people, change their mindsets

- Students

- + Required course in data management

- + IODE Ocean Teacher Global Academy (OTGA)

- Funding agencies

- + 50 Million Euros

- + Data management requires adequate funding

- + Expensive, but far more expensive if you don't do it.

- Policy makers, governments

- + UN Decade of Ocean Science for Sustainable Development (2021-2030)

UN Decade : Promoting inclusive Partnerships with and beyond the UN

IODE XXV -Science Conference



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

One Planet, One Ocean

Julian Barbieri, IOC/UNESCO

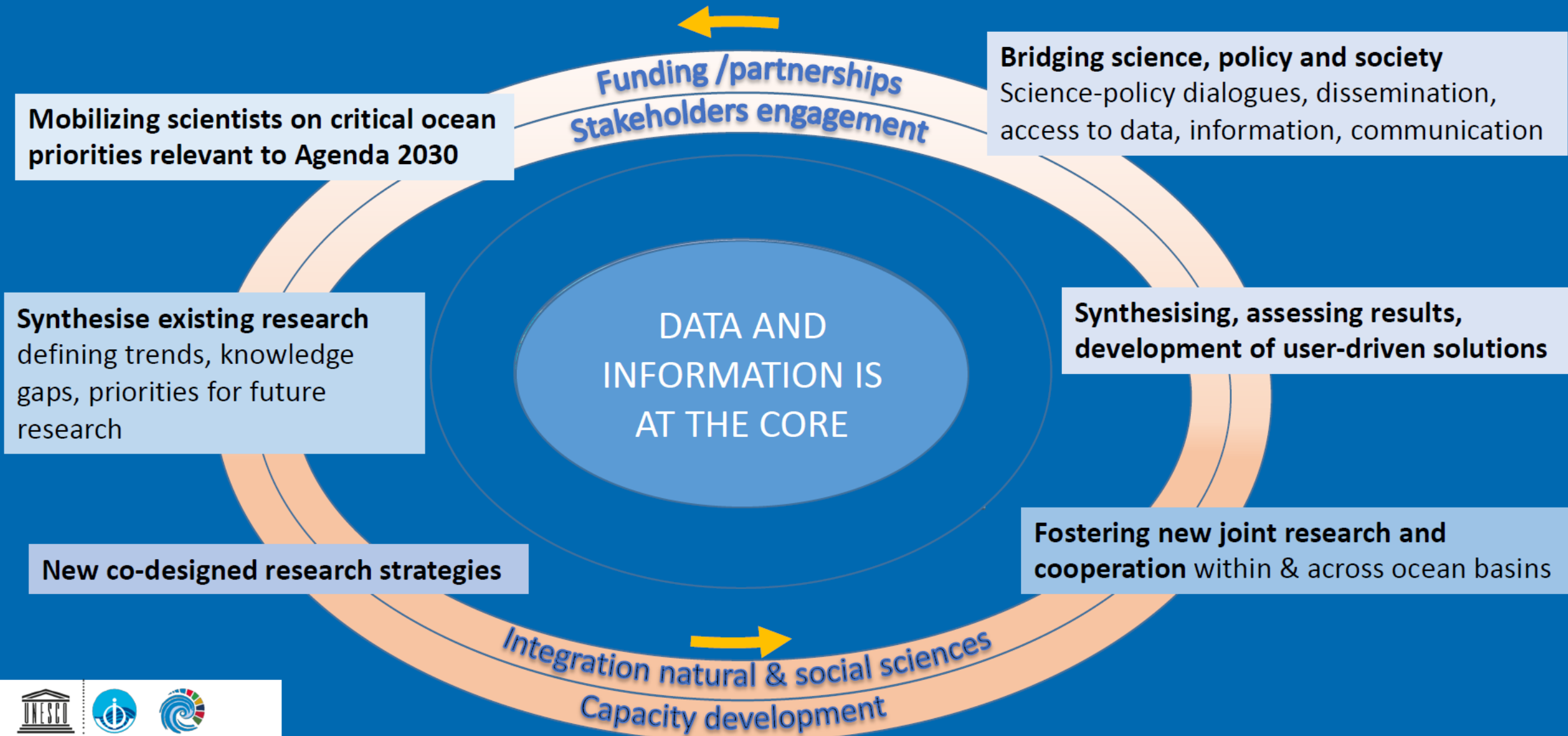


- 2015: UN Agenda 2030
 - Sustainable Development Goals (SDG)
 - SDG 14: Ocean Health

- 2017: Intergovernmental Oceanographic Commission (IOC) plans for an 'Ocean Decade'

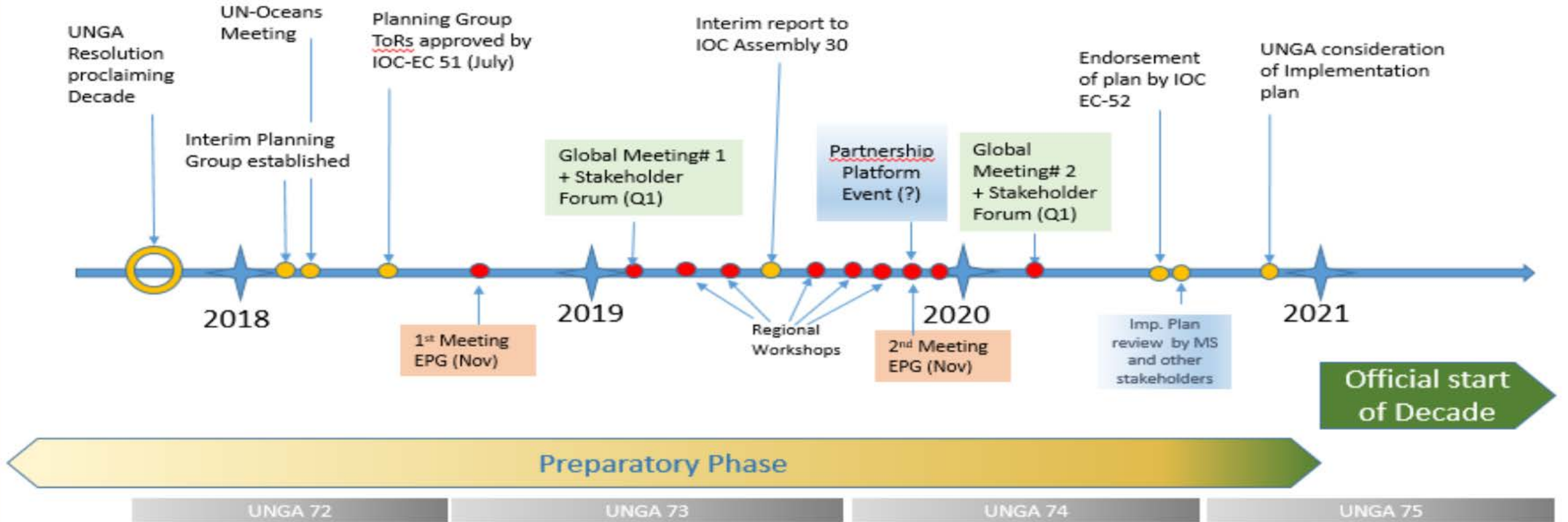
- 2017: UN General Assembly (UNGA) adopted *Decade of Ocean Science for Sustainable Development (2021-2030)*
Tasked IOC with coordinating the Decade

A cooperation framework for ocean science



Timeline

One Planet, One Ocean





United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

Information and Data Portal

One Planet, One Ocean

-Open access

-Supporting advances across **Scientific** discipline

-Integrating **Social science and human** dimension

-Information for **SD** applications (eg. blue economy, ocean health)

-**Private sector** should be a beneficiary and contributor

-Integrate **new technologies** and **Big data** applications

-Ensure **equitable access and benefits to developing nations**

-Promotes standards and interoperability of **data and information products**

Impact

-Relevant to help solve science questions and address societal needs

-Contribute to improve management of marine resources

Feasibility

-Scientifically credible

-Technically practical, cost effective and within human capabilities

-Enduring

Legacy ?

- IODE: the data organization of IOC
- IODE is not a far away organisation,
it's us,
all the NODCs and ADUs, who built all these wonderful
systems like SeaDataNet, and EMODnet, and IMOS, and R2R,
who participated in ODIP, etc., etc., etc.
- We should deliver, we've done it before

Call for Action:

Get involved in the

UN Decade of Ocean Science for Sustainable Development (2021-2030)

