

Nadia Pinardi, Andrea Valentini, M.Marcatelli, S.Pasqualetto 12 December 2023



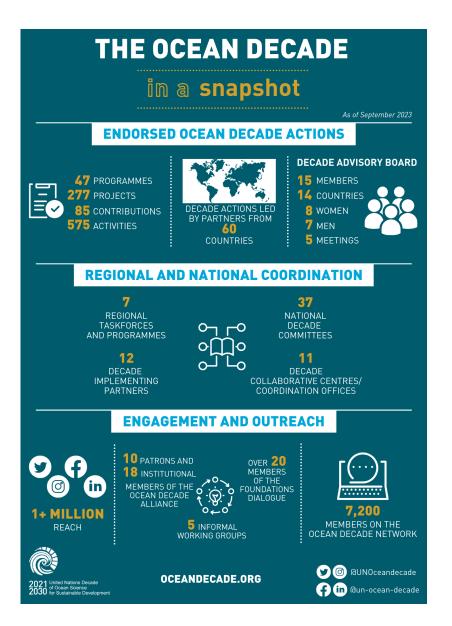








The UN Decade of Ocean Science for Sustainable Development



The UN Decade of Ocean Science for Sustainable Development (2021-2030) ('the Ocean Decade') is a framework for scientists and stakeholders from diverse sectors to develop the scientific knowledge and the partnerships needed to accelerate and harness advances in ocean science to achieve a better understanding of the ocean system, and deliver sciencebased solutions.

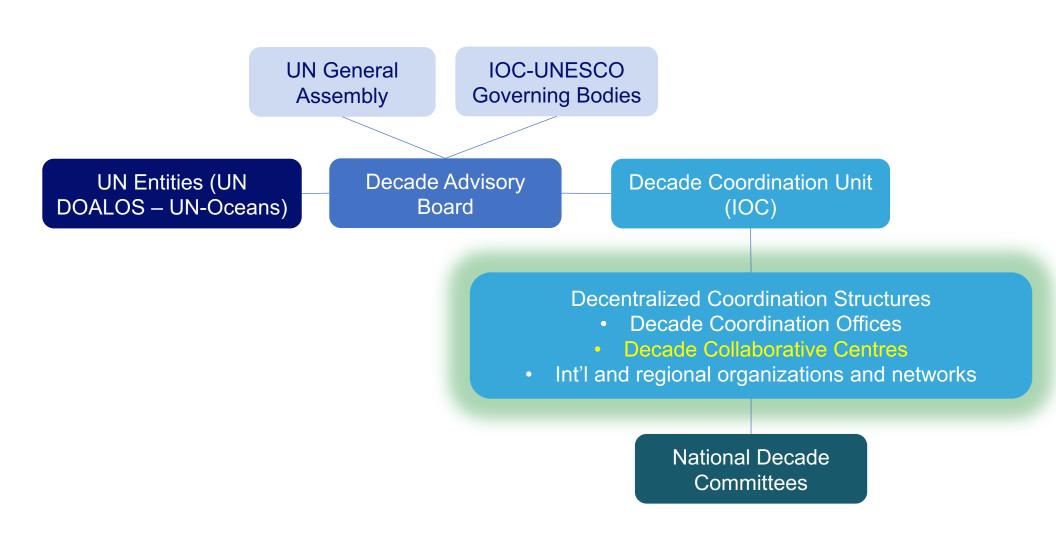


The UN Decade of Ocean Science for Sustainable Development





Decade governance and coordination framework



UN Decade Collaborative Centre for COASTAL RESILIENCE

Decade Governance and coordination framework



GLOBALLY, during the 1900-2015 there have been:

121
EXTREME STORM SURGE EVENTS

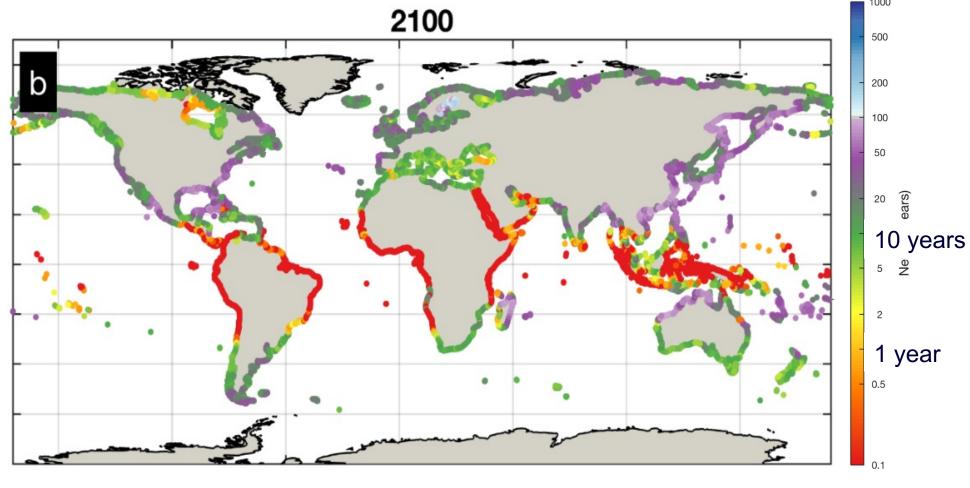
172 500 000 PEOPLE AFFECTED

967 000 FATALITIES

FROM: L. M. Bouwer and S. N. Jonkman 2018 Environ. Res. Lett. 13 014008



The future: how frequent will become the present 100 yr sea level extremes?

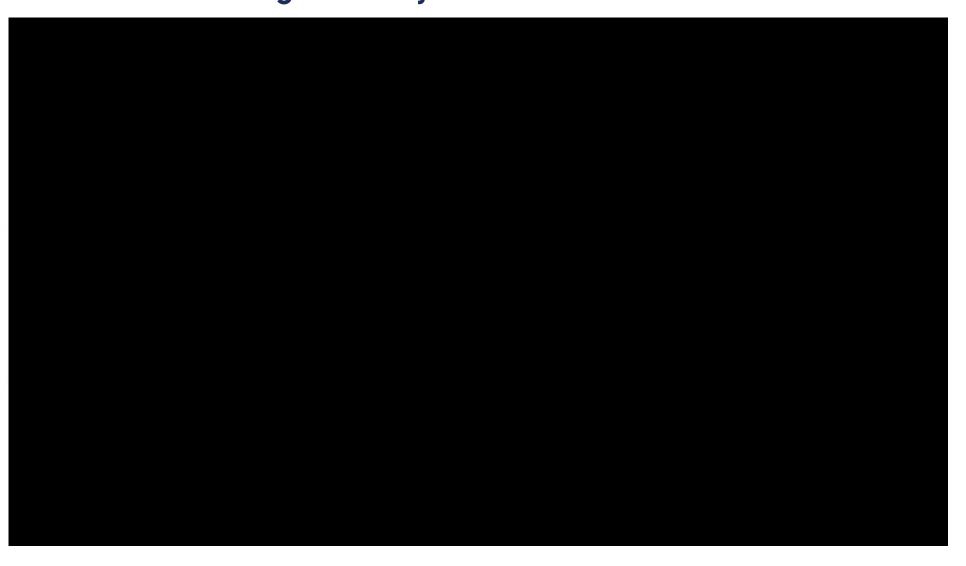


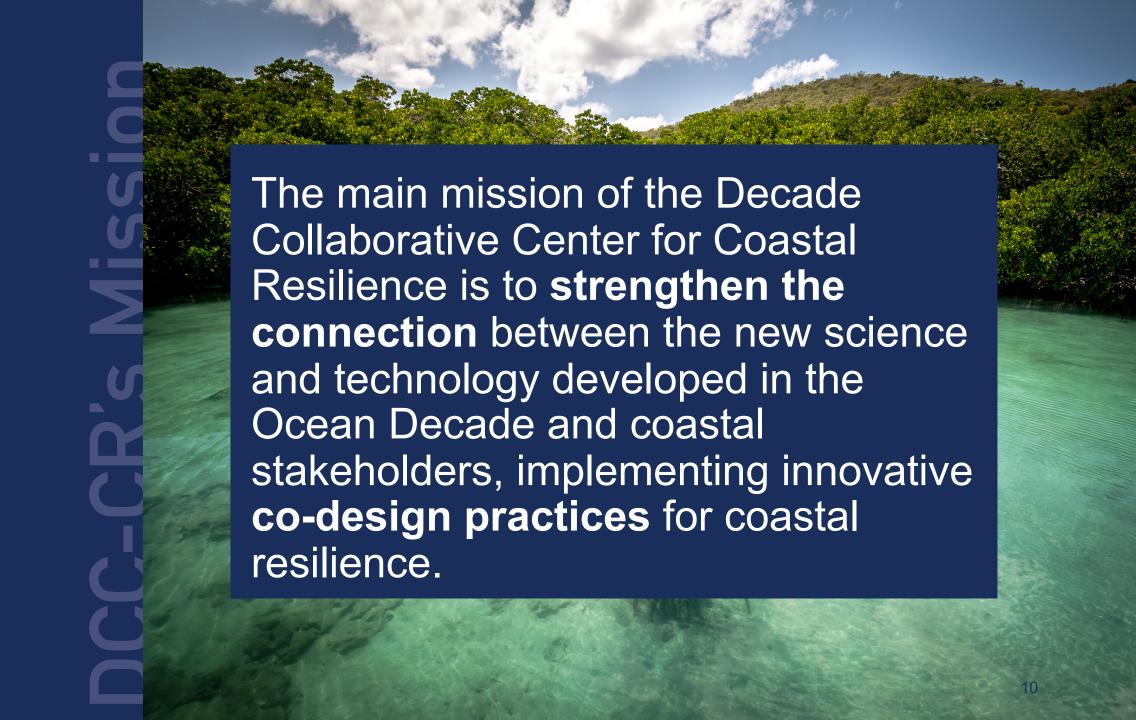
From: Vousdoukas et al., Nature communication, 2018





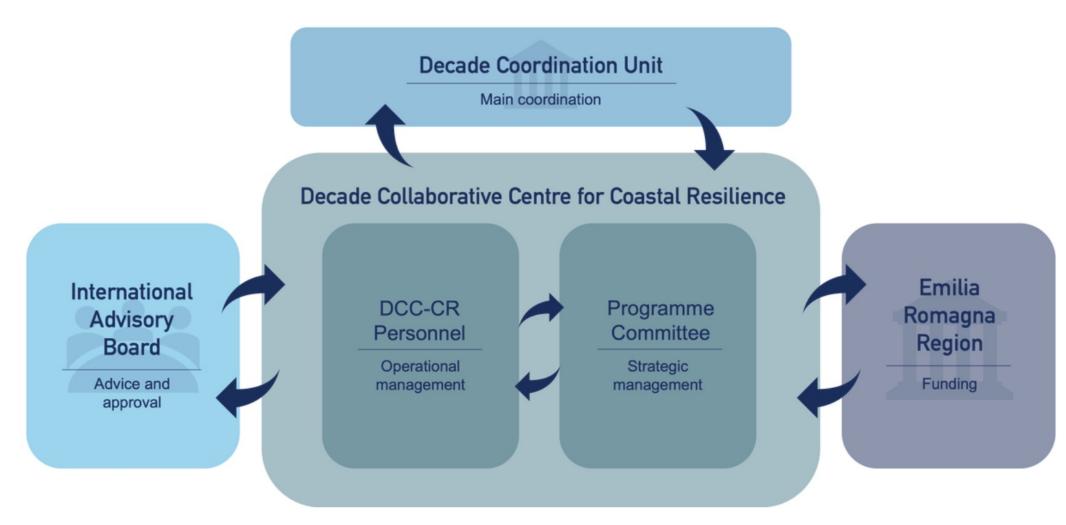
The Decade is developing the new science: high-fidelity coastal models







DCC-CR's governance





DCC-CR's Staff



Nadia Pinardi Director



Michela Marcatelli Junior Programme Specialist



Maria Anna Mancino
Administrative and
Secretarial Support



Chief Scientist
Andrea Valentini



Sara PasqualettoSenior Communication
Officer



Junior Assistant
To be announced



Programme expert
To be announced



DCC-CR Affiliated Decade Programmes

Global Estuaries

Monitoring

Programme

City University of Hong Kong

Ocean Cities Network
Institut de Ciències del Mar
(Spain)

MegaDelta
Programme
East China Normal University

The Ocean Decade
Tsunami Programme
IOC-UNESCO

Global Ocean Corps and Conveyor University of Michigan (USA)

SciNMeet
Italian Oceanographic
Commission (COI)

Blue Climate Initiative

SMARTNETICES/PICES (Denmark/USA)

CoastPredict
University of Bologna/CMCC

Ocean Biomolecular
Observing Network

Partnership for Observation of the Global Ocean (POGO)

Blue Climate Initiative/Tetiaroa Society

Global Ocean Oxygen
Decade
GEOMAR (Germany)

SUPREME NOAA (USA)

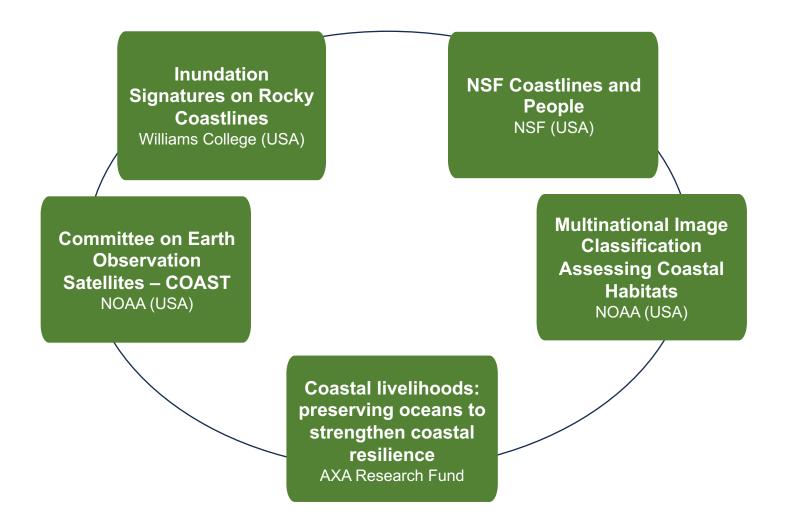
FishSCORE 2030

Gulf of Maine Research Institute (USA) Global Ecosystem for Ocean Solutions

Ocean Visions and Future Seas (USA) Observing Together:
Meeting Stakeholder Needs
and Making Every
Observation Count
GOOS (UNESCO)

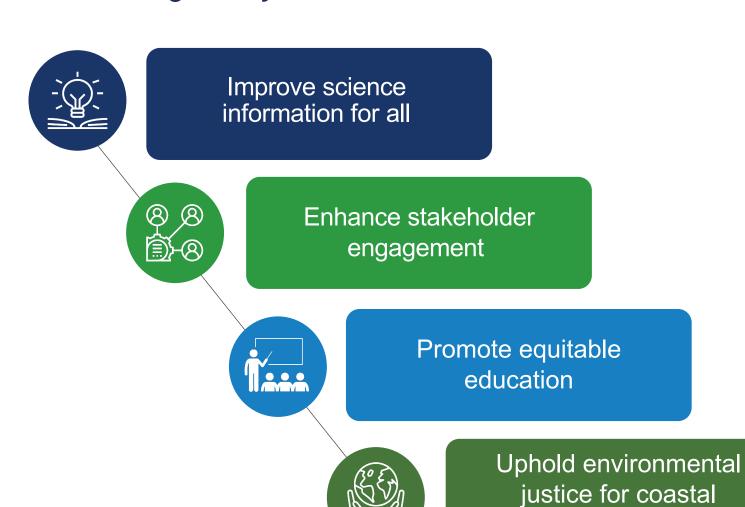


DCC-CR Affiliated Decade Contributions





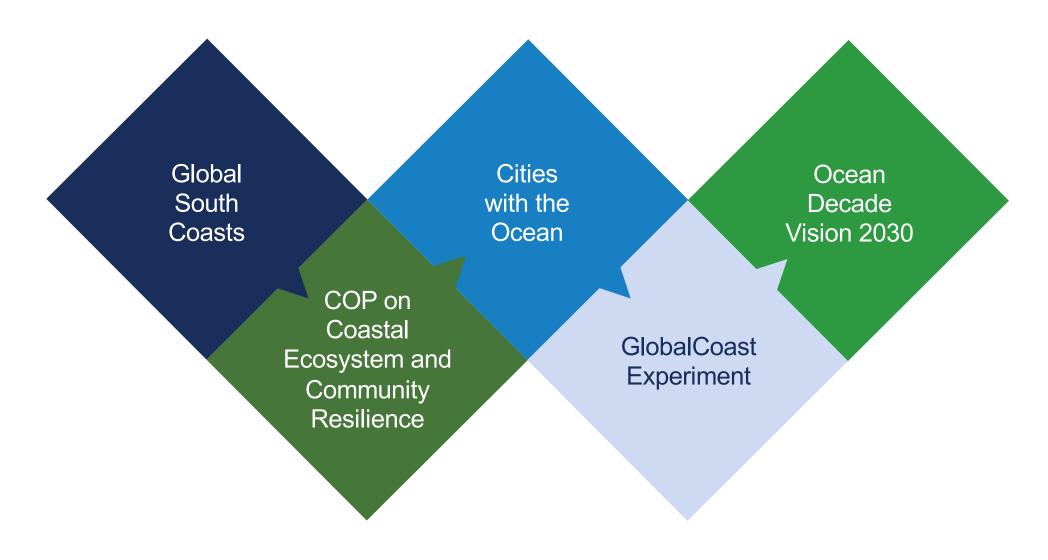
DCC-CR's Strategic Objectives – Timeframe 2023 - 2027



communities



DCC-CR's Cross-cutting activities





DCC-CR Cross-cutting activities: Cities with the Ocean – UN Ocean Decade Initiative

 Create a platform to connect coastal cities and Decade Actions, assess their needs and develop an ocean science toolbox



Town Hall @ Ocean Sciences
20 February 18-23, 2024
organized by DCC-CR for Coastal Cities to meet with
the science community



DCC-CR Cross-cutting activities: Increase resilience to ocean hazards White paper

Outcome 1: Design 'people-centred' multi-hazard early warning systems

Characteristics:

- Stakeholder engagement
- Responsibility sharing
- Accessible communication
- Institutional capacity building

Outcome 2: Design adaptation planning strategies to increase coastal resilience

GOAL:

A safe ocean where life and livelihoods are protected from ocean-related

hazards

Use the new data from the Ocean Decade to prepare updated plans and solutions, also in view of the Marine Spatial Planning process



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The Decade Collaborative Centre for Coastal Resilience is a departmental centre of the University of Bologna and it is funded by the Emilia-Romagna Region.



