



**GOOS** | **CoastPredict**  
with The Global Ocean Observing System

# eCORE-SEAS: Enhancing Coastal Resilience in the South-East Asia Seas

## Adaptation Fund Project Proposal

Sixteenth Intergovernmental Session of the  
IOC Sub-Commission for the Western Pacific (WESTPAC-XVI)  
Hangzhou, China, 10-12 November 2026

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[coastpredict.org](https://coastpredict.org)





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



The Global Ocean  
Observing System

## CoastPredict Objective

*Provide decision-makers and coastal communities with integrated observing and predicting systems **to identify solutions for managing risk in the short-term and planning for mitigation and adaptation in the longer-term** context of future climate and ocean change*



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with The Global Ocean Observing System

# The last mile to the coast

Responsive & fit-for-purpose forecasting into coast to address many challenges including: storm surge, climate impacts, coastal erosion, shipping/ports, hypoxia, marine heatwaves, carbon sequestration



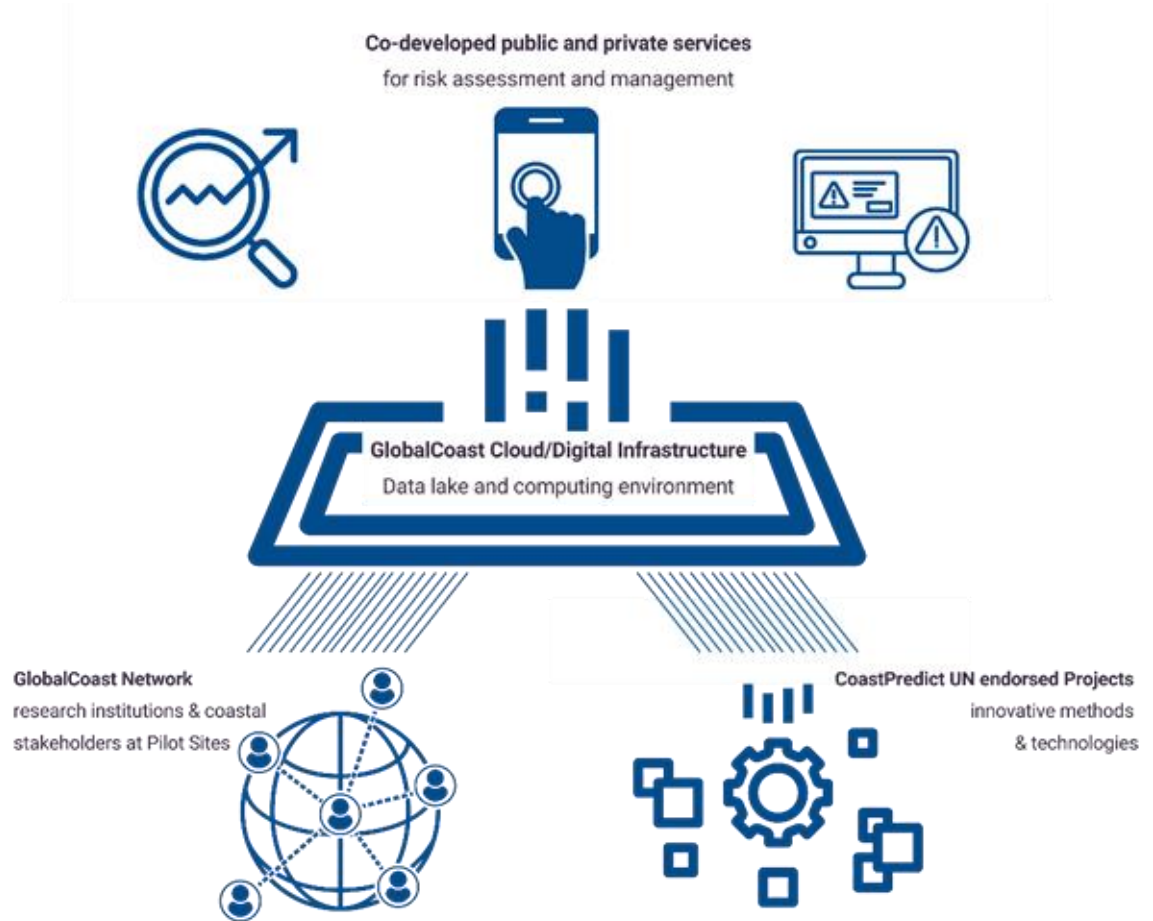
2021  
2030 United Nations Decade  
of Ocean Science  
for Sustainable Development

Programme  
endorsed by



# GlobalCoast Framework

- harness opportunities
- overcome barriers
- connect the work globally
- enable public-private collaboration
- replicable solutions
- engage cloud technology to support services



# GlobalCoast Network

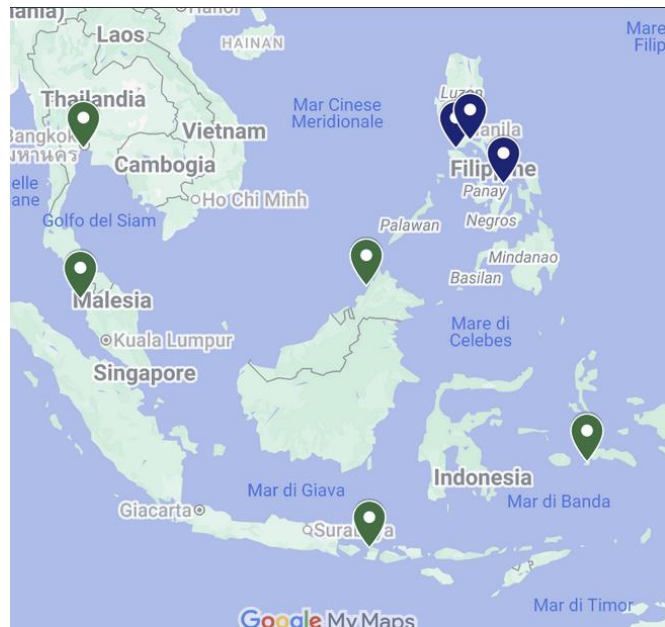
130 Pilot Sites  
66 countries



**Pilot Sites are areas of  $\sim 200 \times 200 \text{ km}^2$  within Global Coastal Ocean Regions**



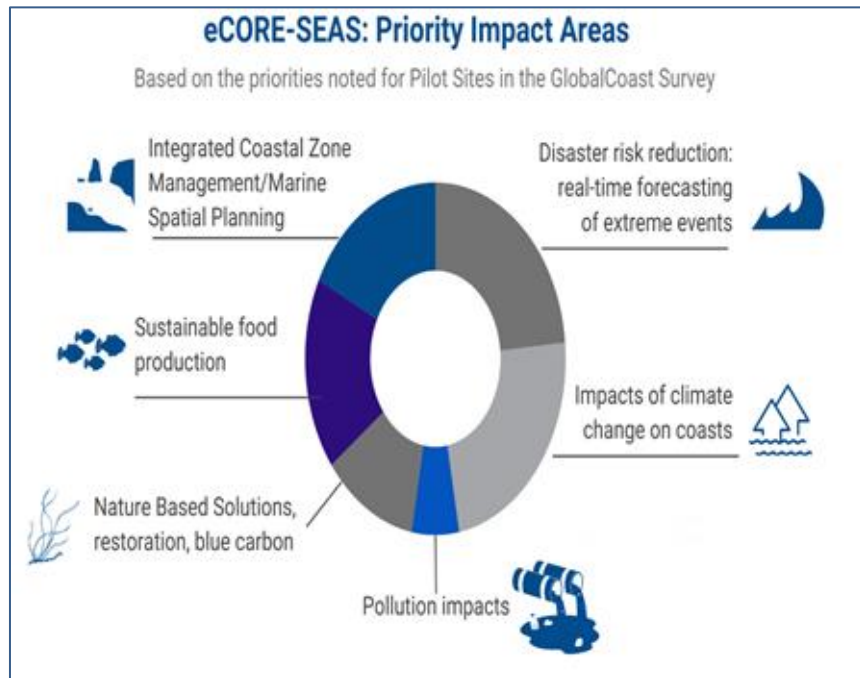
# eCORE-SEAS Adaptation Fund Proposal



## Consultations:

- IOC WESTPAC Conference April 2024
- IOC Executive Council-57 meeting - Paris in June 2024
- July - October: consultation with partners from South East Asia Seas Pilot Sites and formation of a drafting group
- Presentation to the IOC WESTPAC Advisory Group November 2024 and 15<sup>th</sup> WESTPAC Intergovernmental Session March 2025
- Endorsed by four countries' NDAs about the eCORE-SEAS Concept Note 2025-2026

# Project Background and Context



## ✓ **Cloud Computing Infrastructure**

≈ *Adopting a phased approach, integrating local expertise and global best practices*

≈ *Align with existing monitoring programs in the country/region*

## ✓ **Multi-Hazard Early Warning System**

≈ *Incorporation of multi-risk scenarios (concerns about sea-level rise, hypoxia, HABs)*

## ✓ **Capacity enhancement and Policy integration**

≈ *Engage research institutions*

≈ *Promote cross-sector collaboration, e.g., meteorological, disaster management and coastal agencies*

## ✓ **Sustainability and Governance**

≈ *Clarify responsibilities for maintaining the cloud repository*

≈ *Embed EWS and adaptation planning into national climate policies*

# eCORE-SEAS Components



Strengthening  
national and  
regional capacity to  
monitor, predict  
and assess ocean  
hazards

**01**



Design and  
implement MH-  
EWS and risk  
reduction  
measures tailored  
to local contexts  
and vulnerable  
communities

**02**



Design and  
implement coastal  
climate  
downscaling,  
extract climate  
indicators for  
adaptation plans

**03**



Co-design and  
implement  
decision support  
systems for  
climate resilience,  
integrated coastal  
zone  
management

**04**



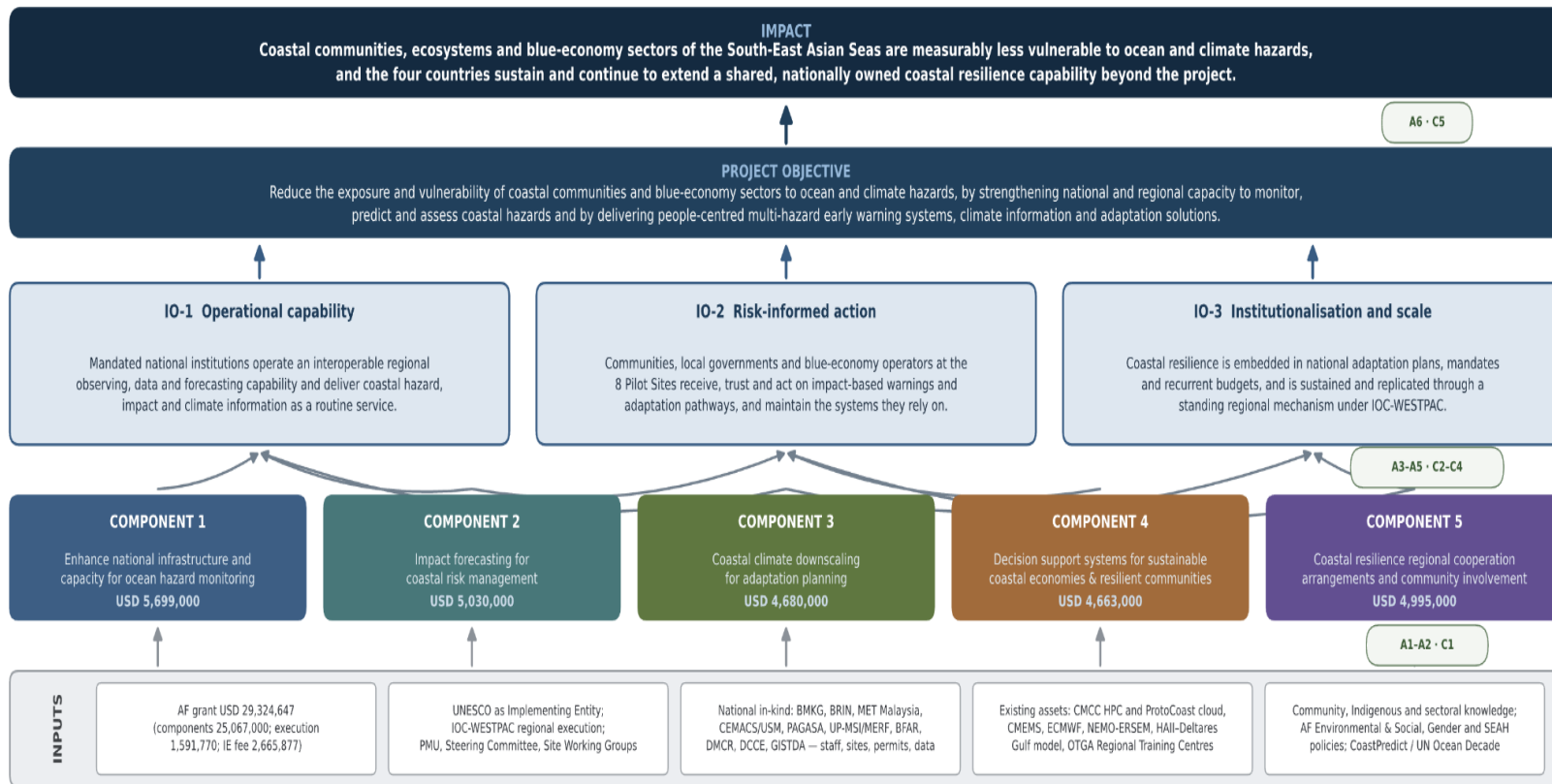
Knowledge  
exchange,  
stakeholder  
engagement, &  
communication &  
development of  
governance to  
support a

**05**

system & services

**Figure II.A-1 Theory of Change – eCORE-SEAS, Enhancing Coastal Resilience in the South-East Asian Seas**

Indonesia · Malaysia · Philippines · Thailand | 8 Pilot Sites | AF financing USD 29,324,647 | 06/2027 – 05/2032 · A1-A6 = assumptions, C1-C5 = constraints (\$6.5, \$6.6)



# eCORE-SEAS Adaptation Fund Structure –latest update

- UNESCO-IOC as ‘Implementing Entity’
- IOC-WESTPAC as ‘Executing Entity’ for regional coordination -> build capacity within the regional office
- Local partners in beneficiary countries as executing partners
- ‘Multilateral Implementing Entity’ in region