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Possible Implications of the IPCC Reports on the Global Climate and Ocean Agenda

Kirsten Isensee



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Intergovernmental
Oceanographic
Commission



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



TIME FOR CHANGE?
Climate Science Reconsidered



Extract from Jane Lubchenco's Inaugural Speech as incoming President of the American Association for the Advancement of Science, 'Entering the Century of the Environment: A New Social Contract for Science', delivered in 1997

“ Urgent and unprecedented environmental and social changes challenge scientists to define a new social contract. This contract represents a commitment on the part of all scientists to devote their energies and talents to the most pressing problems of the day in proportion to their importance, in exchange for public funding.
...
New research, faster and more effective transmission of new and existing knowledge to policy- and decision-makers, and better communication of this knowledge to the public will all be required to meet this challenge. ”



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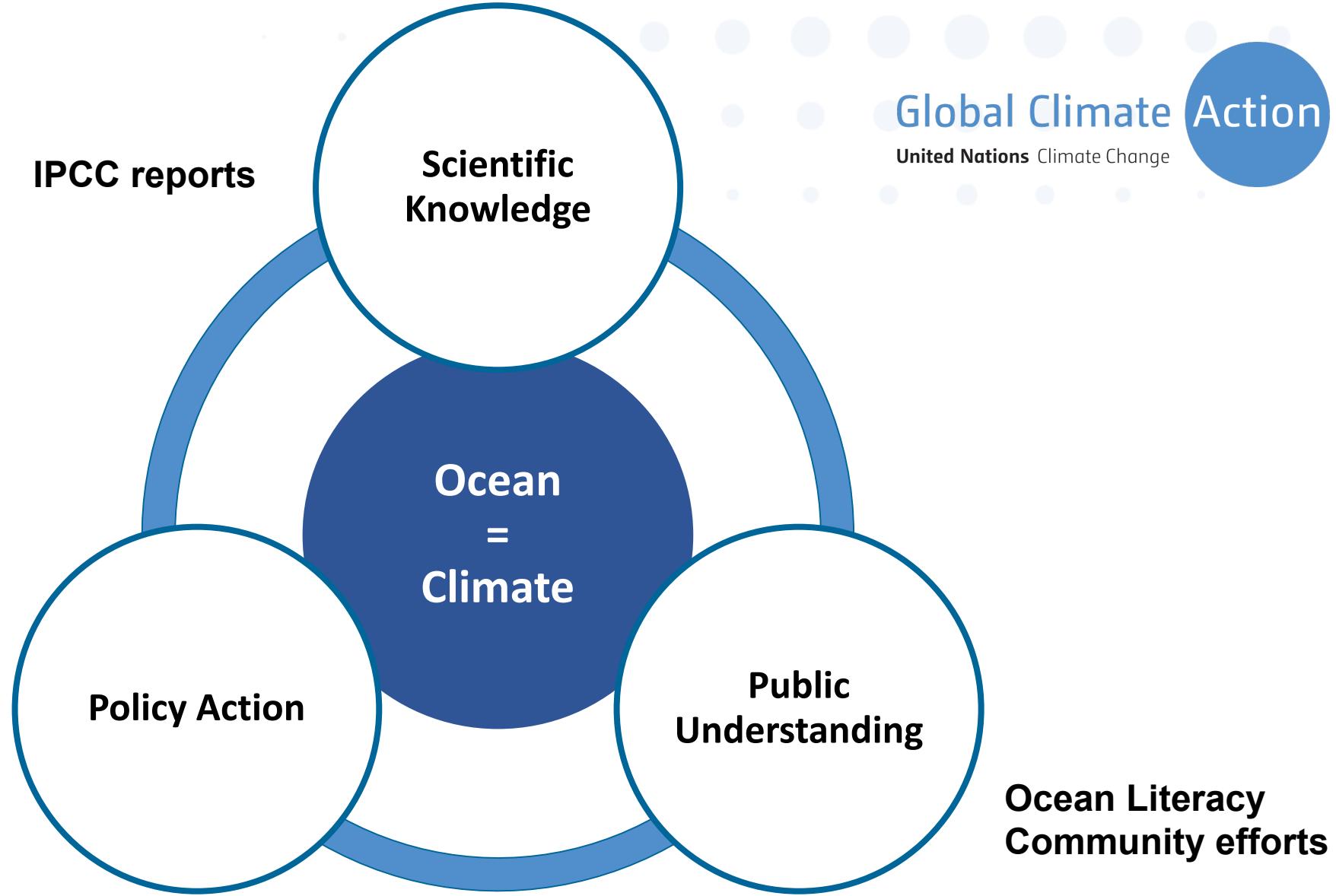


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2021-2030 for Sustainable Development

2030 Agenda – SDG 14
SAMOA Pathway
UNFCCC – NDCs –
Ocean pathway



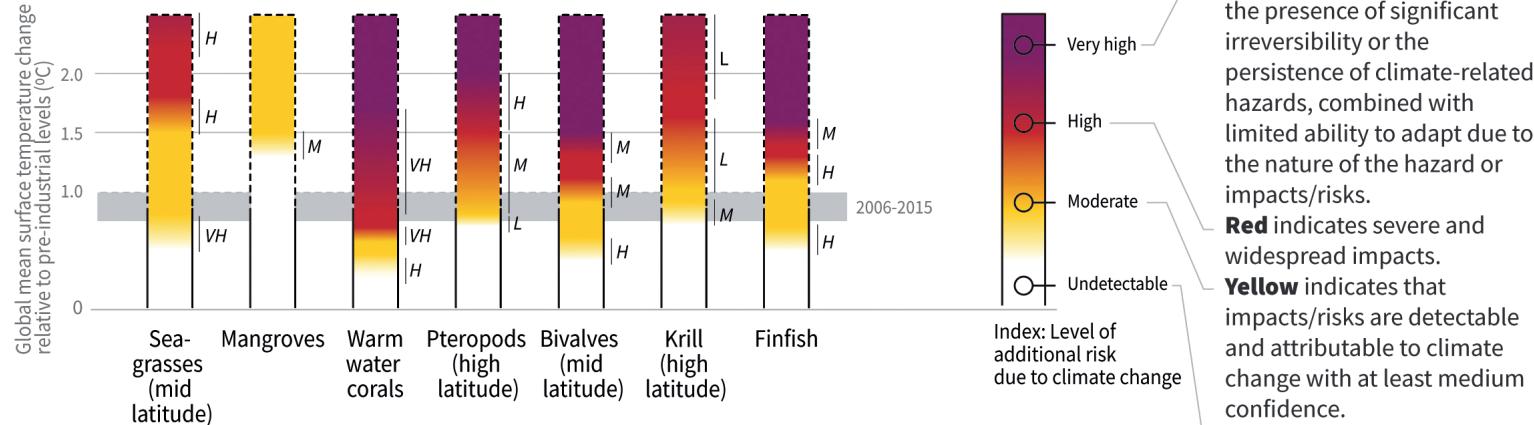
**Ocean Literacy
Community efforts**

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Risks for specific marine and coastal organisms, ecosystems and sectors

The key elements are presented here as a function of the risk level assessed between 1.5 and 2°C (Average global sea surface temperature).

Coastal and marine organisms



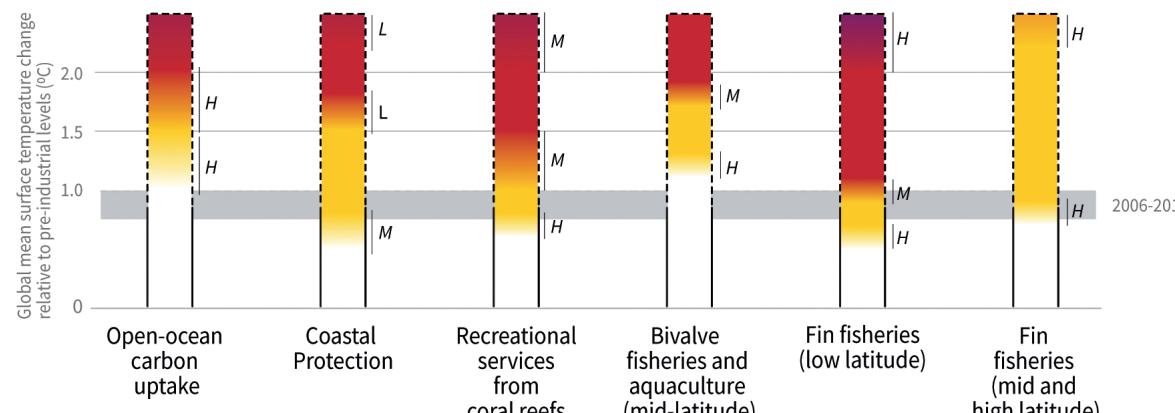
Purple indicates very high risks of severe impacts and the presence of significant irreversibility or the persistence of climate-related hazards, combined with limited ability to adapt due to the nature of the hazard or impacts/risks.

Red indicates severe and widespread impacts.

Yellow indicates that impacts/risks are detectable and attributable to climate change with at least medium confidence.

White indicates that no impacts are detectable and attributable to climate change.

Ecosystem services and sectors



Confidence level for transition: L=Low, M=Medium, H=High and VH=Very high

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IPCC SR1.5: Figure 3.18 | Summary of additional risks of impacts from ocean warming (and associated climate change factors such ocean acidification) for a range of ocean organisms, ecosystems and sectors at 1.0°C, 1.5°C and 2.0°C of warming of the average sea surface temperature (SST) relative to the pre-industrial period.



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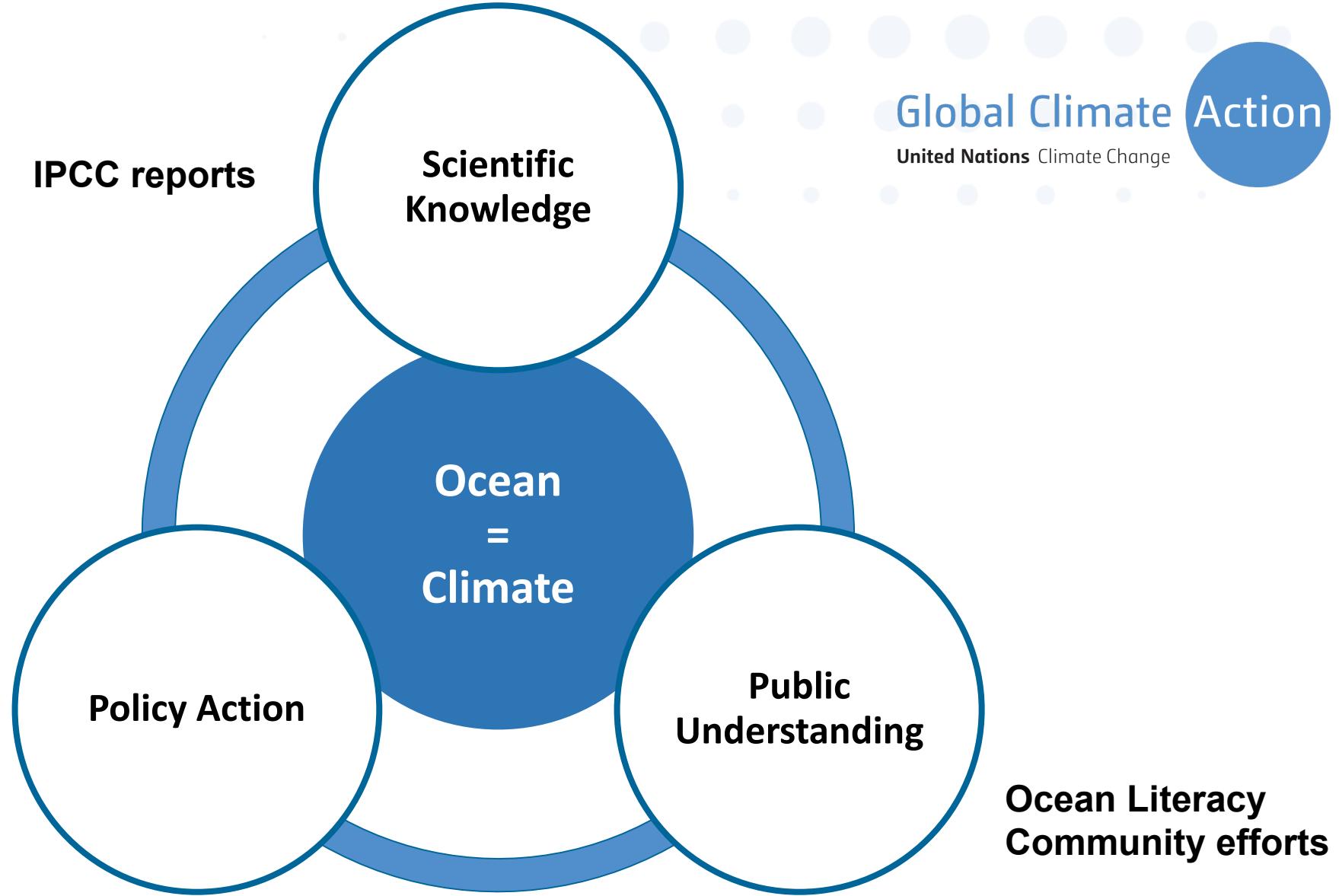


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INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION
(of UNESCO)

Fifty-first Session of the Executive Council
UNESCO, Paris, 3–6 July 2018

ROADMAP

Item 4.1 of the Revised Provisional Agenda

A Vision for the Decade

Develop scientific knowledge, build
infrastructure and foster partnerships
for a sustainable and healthy ocean

The Science We Need for the Ocean We Want



The United Nations
Decade of Ocean Science
for Sustainable Development
(2021–2030)





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The Decade will be mission-oriented

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A safe Ocean

Human communities are protected from ocean hazards and the safety of operations at sea and on the coast is guaranteed.



A sustainable productive Ocean

The provision of food supply and alternative livelihoods are secured.



A transparent and accessible Ocean

All nations, stakeholders and citizens have access to ocean data and information, technologies, and are capable of making informed decisions.





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Decade: Inclusive & transformative, focused on
solutions: once in a life-time opportunity for to
mainstream and enable ocean science

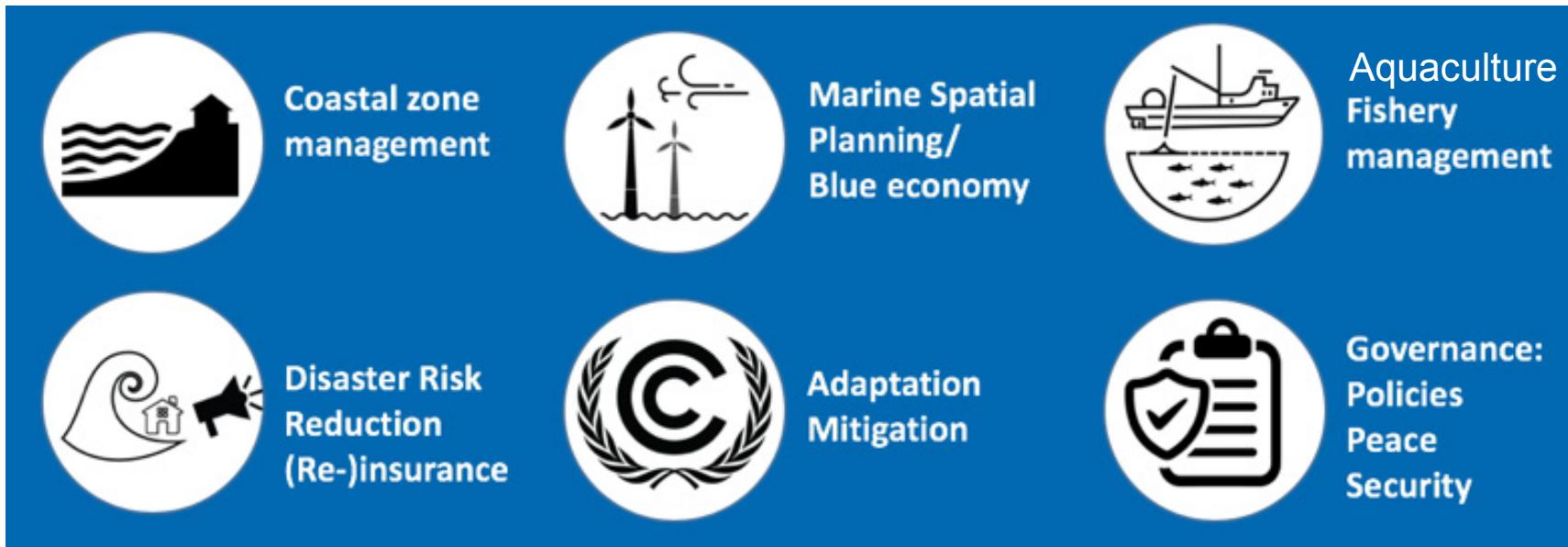
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Science breakthroughs → top-down designed

- Mapping
- Observations
- Eco-system management
- Data and Information

- Multi-Hazard Warning Systems
- Ocean in Earth System Science
- CD, Education, Ocean Literacy

Pickup by practice → stimulated bottom-up





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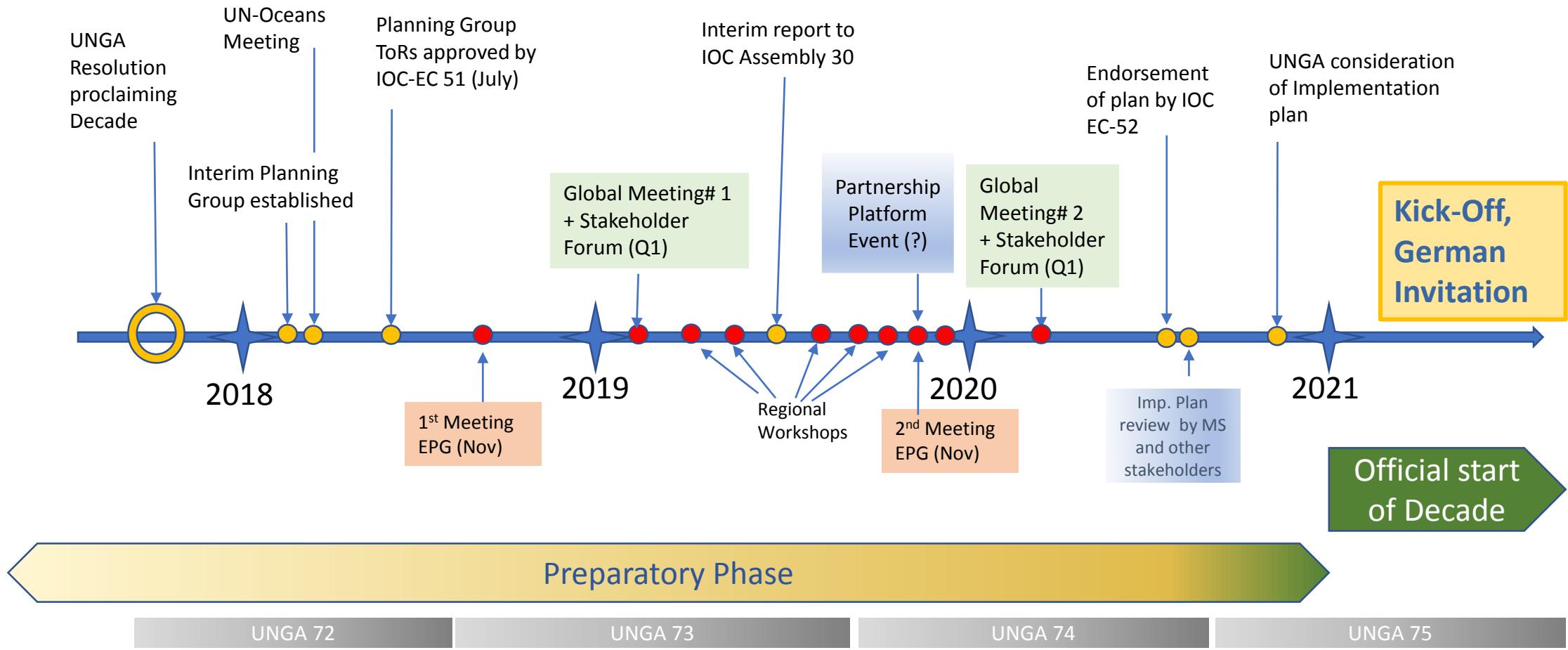
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HOW TO PREPARE THE DECADE: PREPARATORY PHASE (2018-2020) GOVERNANCE





Preparing for the Decade: Next Steps



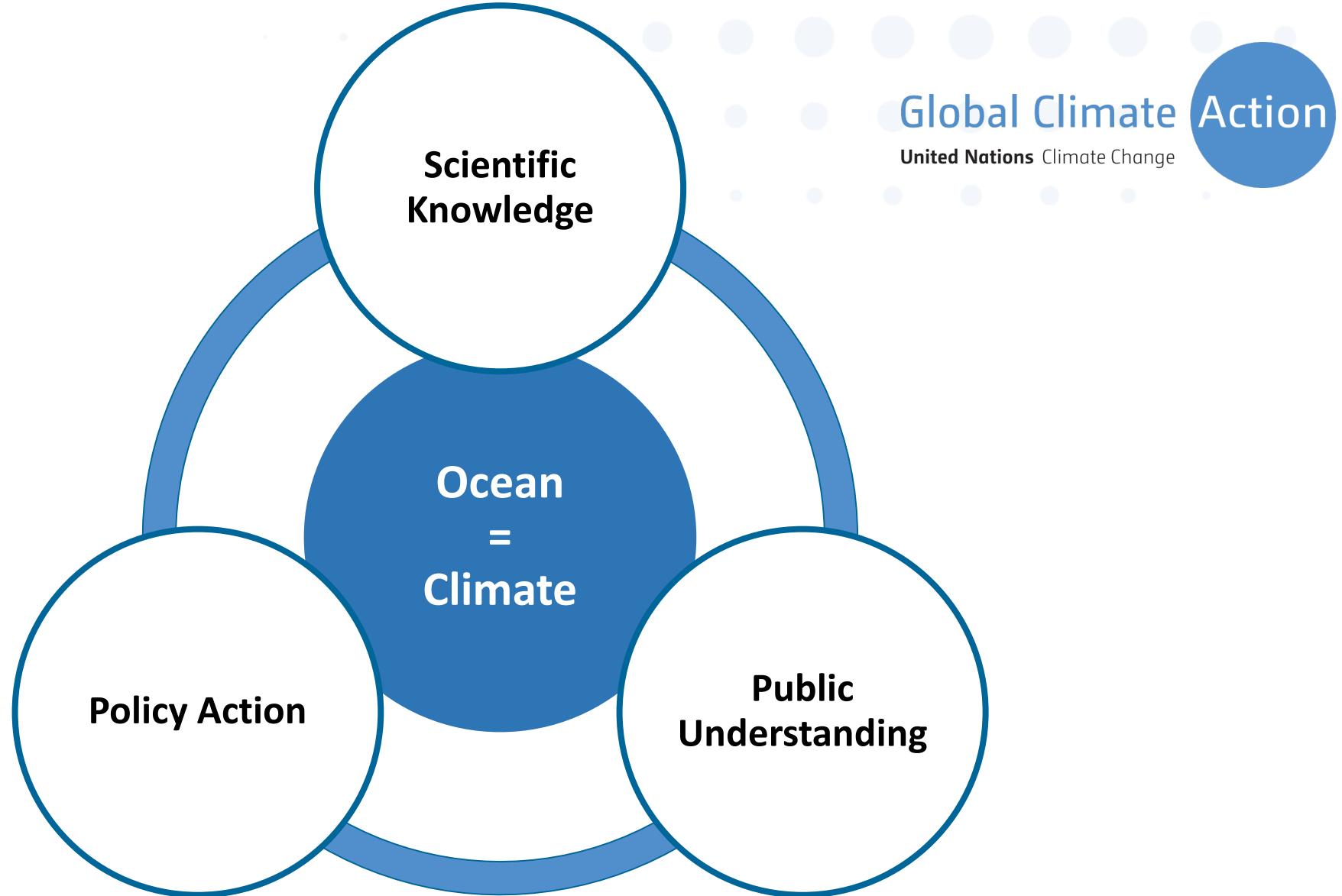
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(2021-2030)



Thank You

For more information, please contact:
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Get involved

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