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CORVI: The Climate and Ocean Risk Vulnerability Index

JACK STUART | MARCH 23, 2021



Coastal Cities exposed to the Climate Crisis

30
years

- ▶ Climate change impacts environmental, economic, and social systems
- ▶ Interconnected non-linear risks can overwhelm the capacity of coastal cities to respond to climate change
- ▶ Decision makers need tools to prioritize resilience actions



Port Louis, Mauritius

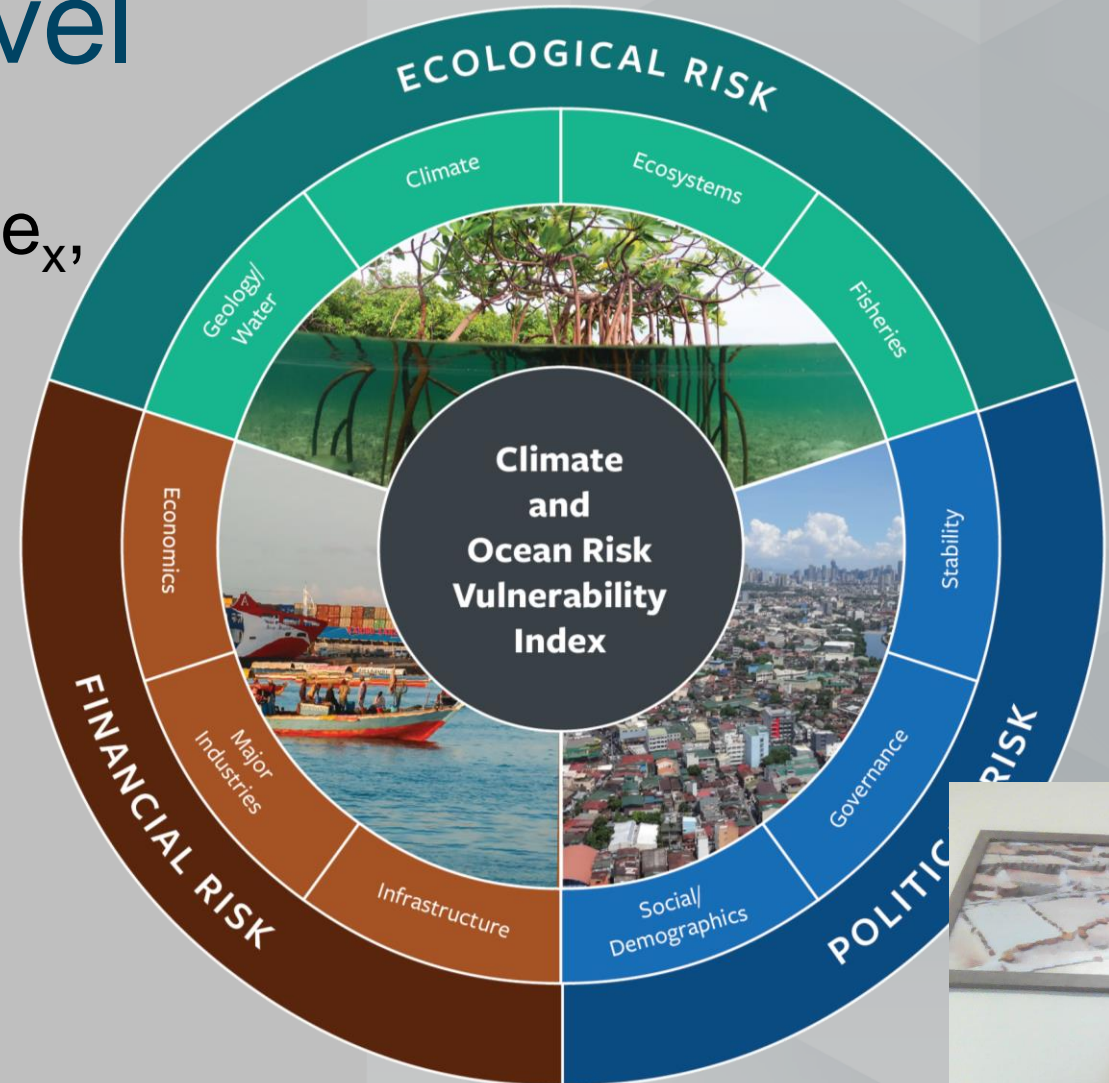


Measuring Climate and Ocean Risk at the City-Level

▶ $Risk_x = f(Hazard_x, Exposure_x, \text{Vulnerability}_x)$

▶ CORVI is:

- ▶ Three types of risk
- ▶ 10 risk categories
- ▶ 100 indicators



CORVI Assessments in East Africa



Partnership: Western Indian Ocean Marine Science Organization (WIOMSA)

- ▶ Holistic analysis of climate and ocean-related risks
- ▶ Locations: Dar es Salaam, Tanzania and Mombasa, Kenya
- ▶ Empirical data, expert surveys, and interviews
- ▶ Profiles to be completed by June 20



Recommendations



- ▶ The Secretariat, working with WIOMSA to build capacity and integrate climate risk into coastal city planning, can use this information as part of the implementation of the Climate Change Strategy for the Convention.
- ▶ Apply CORVI method to other coastal cities in the WIO region.
- ▶ The Ministries of Environment and Finance in Kenya and Tanzania, in collaboration with coastal cities authorities and other partners, can use this information to further integrate climate risks into their city planning and development





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