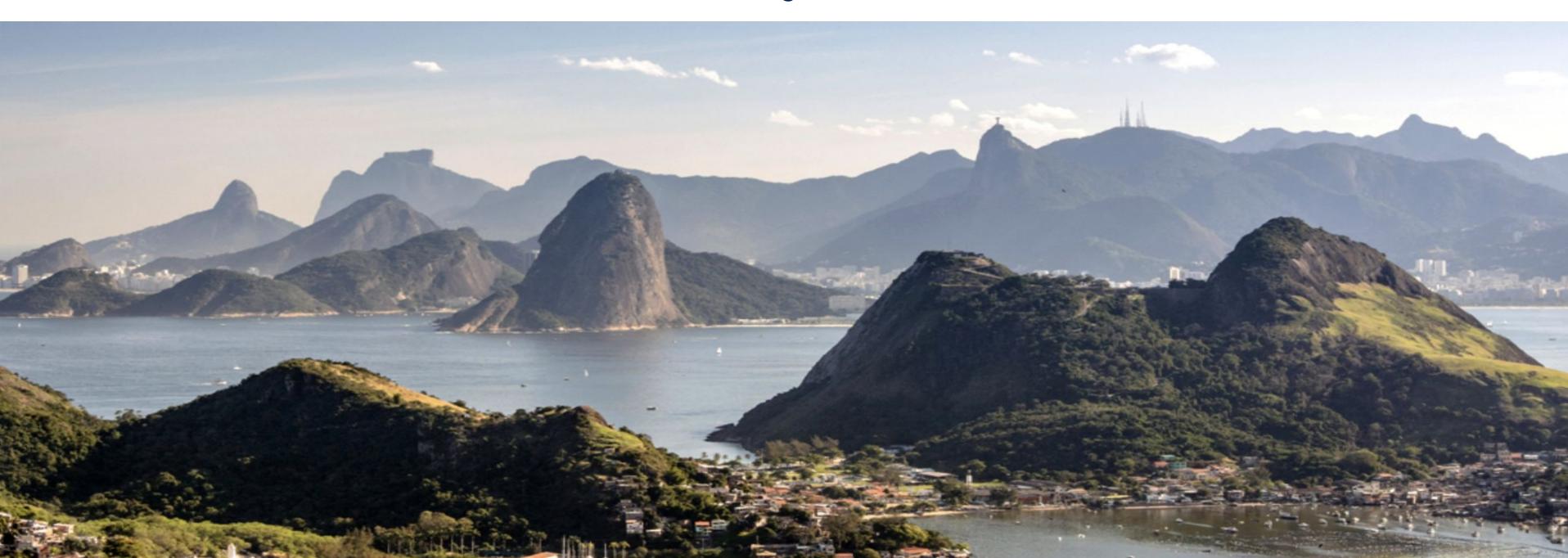
Precautionary Approach and the basin management in Rio de Janeiro

Adriana Bocaiuva Forum Fluminense de Comitês de Bacia

12nd World General Assembly of INBO, Bordeaux, France





Environmental Principle of Precaution



PRECAUTIONARY APPROACH TO ADDRESS ENVIRONMENTAL THREATS

1992 - Rio Declaration on Environment and Development/ Principle 14

"In order to protect the environment, the precautionary approach shall be widely applied by States according to their capabilities. Where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation."

1992 - Convention on Biological Diversity (CBD)/ Preamble

"where there is a threat of significant reduction or loss of biological diversity, lack of full scientific certainty should not be used as a reason for postponing measures to avoid or minimize such a threat."

1992 UNFCCC/ Article 3(3)

"The Parties should take precautionary measures to anticipate, prevent or minimize the causes of climate change and mitigate its adverse effects."



What are the challenges to incorporate climate change data in basin management, addressing the Environmental Principle of Precaution?



Challenges to integrate climate change risk into river basin management planning

- 1) Downscaling climate projections to a river basin scale: Investment in space—time resolution to refine the available data from global and regional climate models
- 2) The multifaced impacts of climate change on the quantity and quality of water requires an **integrated strategy between the different scales of governance** [Different public polices addressing different risks: rising sea levels, intense extreme weather events droughts/ storms/ heat waves, flooding]
- 3) **Economical and political cost** to address precautionary risk management despite the cost-efficiency of the adaptation measures compared to remediation measures
- 4) Low public budgets for adaptation measures at national and subnational levels



Good practices in basin management planning to address climate change.





 Baia da Guanabara Hidrografic Region Basin Plan includes a new chapter related to costal zone

Risk management plan for Baía da Guanabara Hydrographic Region

• Inclusion of the requirement of precautionary approach to the Brazilian

Climate Change Adaptation Plan

Thank you! abocaiuva@gmail.com

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