

Canada





A Review of Adaptation Policies to Climate Change: Insights from Mahanadi Delta, Odisha

Sumanta Banerjee¹, Somnath Hazra², Tuhin Ghosh³, R.N.Samal⁴

¹DECCMA (Doctoral Fellow), Chilika Development Authority and Ph.D. Scholar, Ravenshaw University, Cuttack, ²Post-Doctoral Fellow, Jadavpur University ³Joint Director, School of Oceanographic Studies, Jadavpur University, ⁴Scientific Officer, Chilika Development Authority 6th DECCMA Consortium Workshop

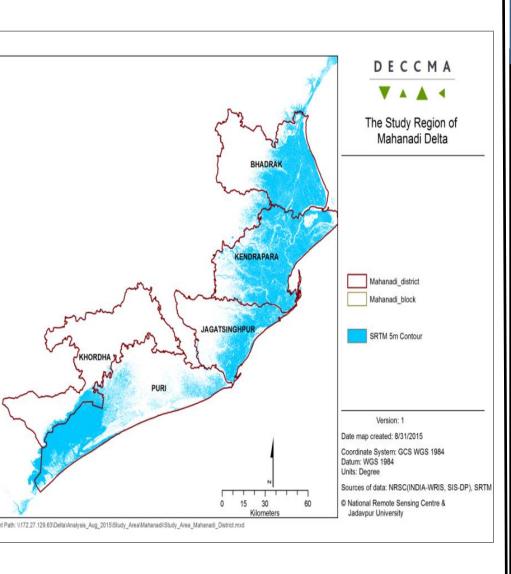
Introduction

The impacts of climate change are being felt across the globe. Climate change reduces the resilience and increases the human vulnerability. marginalized and The poor sections of the society are more vulnerable to climate variability and change. Thus, those with least resources have least capacity to adapt and are most vulnerable. Thus, it is imperative to understand review adaptation and the strategies.

CARIAA 🔆 IDRC CRDI

ternational Development Research Centre

ntre de recherches pour le développement internationa



Toncy Matrix Connecting policies to Mulphanon I alliways				
Policy Component	Minimum Intervention	Economic capacity expansion	efficiency	System restructuring
DRR			×	×
Agriculture			\checkmark	\checkmark
policy				
Migration			×	\checkmark
Vulnerability			\checkmark	×
reduction				
Gender			×	×
Economic				\checkmark
development				
Fresh water				×
and hydraulic				
management				
Ecosystem			\checkmark	\checkmark
management				
Marine			\checkmark	×

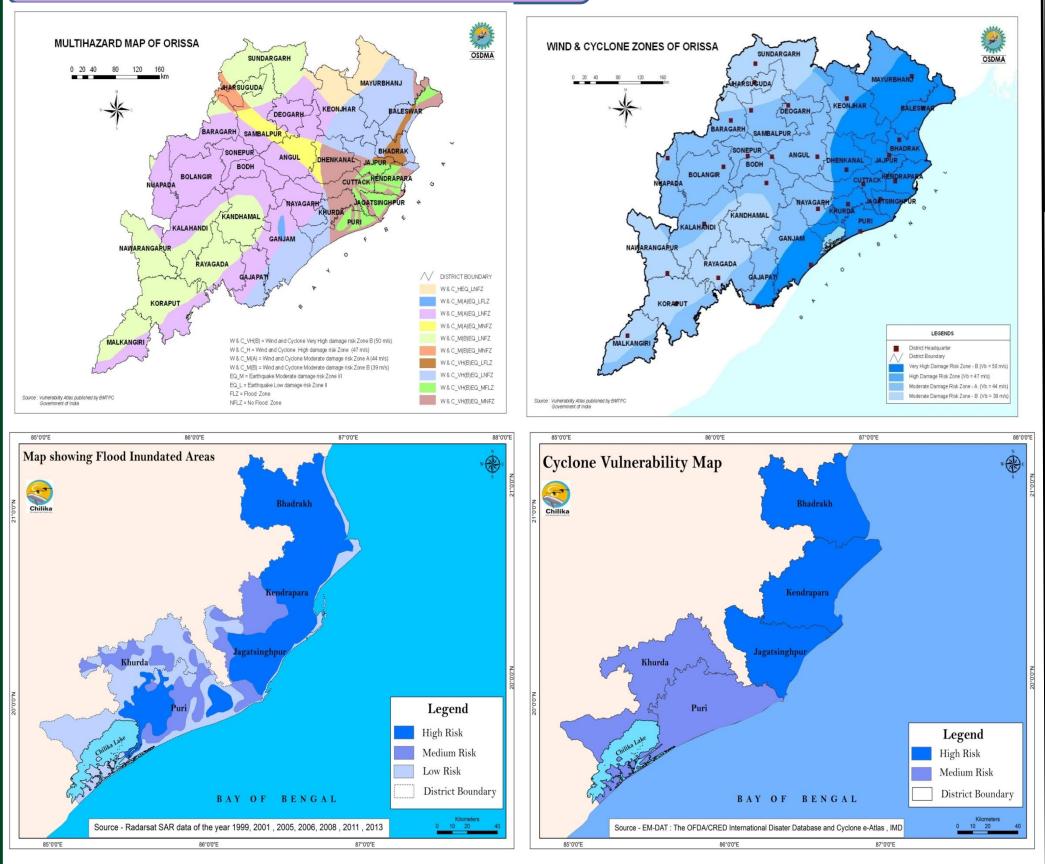
Policy Matrix – Connecting policies to Adaptation Pathways

Objective

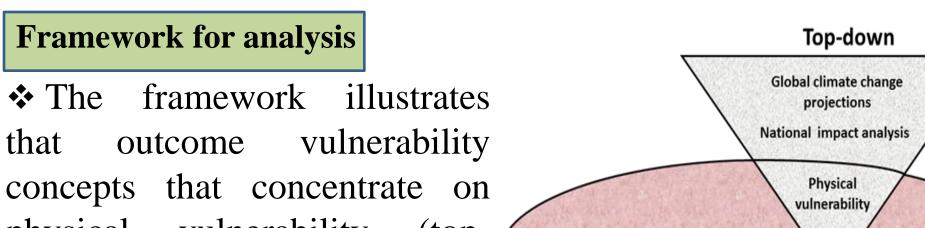
To review the existing adaptation policies in the context of climate change.

Indicators of Climate Variability





The maps indicate that coastal Odisha is Vulnerable to multi hazards and this vulnerability impact on overall livelihood and adaptive strategies.



SWOT Analysis

Strength Strong Legal framework on **Policy Regime ***Extensive Institutional Infrastructure **Availability of resources under** different programmes *****Vulnerability reduction schemes helpful for adaptation Eight prioritized national mission operational & active National and State Policy **Conducive for adaptation**

Opportunity

***** National Flagship programmes help mainstreaming Strong Network of Civil society Organizations

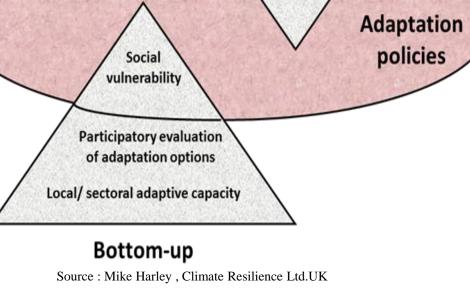
Weakness

Gender Disaggregated data is not available and in general paucity of data * No Investment in Policy research. *****Targeted Interventions for children with special needs and non-formal education system *****Interventions are largely supply driven and are not tailored to context specific roles

Threats

*****Unsustainable Development without involvement of women **Not** Adequate DRR Mainstreaming

physical vulnerability (topapproach) to inform down climate change adaptation policy, whereas socio-economic vulnerability follow a bottom up approach(Desai and Hulme ,2004)



Cryanized Groups of Grassroots women organizations

Green Climate Fund **Adaptation Fund**

activities into core **Development agenda**

and Major adaptation activities ✤ Infrastructural Interventions Alternate Livelihood Generations Mangroves Plantation & Agriculture



Acknowledgement

I would like to tender my sincere thanks to Shri. P.K. Mohan, IFS, Chief Executive, Chilika Development Authority. I thank my supervising officer Dr. R.N. Samal and my colleague Mrs. Jajnaseni Rout, who provided insights and expertise that greatly assisted the research. I am immensely grateful to Prof. (Dr.) Sugata Hazra and Prof. (Dr.) Tuhin Ghosh, Jadavpur University for their inspiration and support. I am thankful to Ms. Sumana Banerjee for her timely support.

Reference

- ✤ A conceptual framework for developing adaption indicators, Mike Harley, Climate Resilience Ltd., UK.
- ✤ <u>www.iczmpodisha.org</u>
- ✤ <u>www.osdma.org</u>
- https:// undp-india.exposure.co/women-adapting-to-climate-change
- Integrated Rice-Fish culture : Adaption option , Paribartan project in Kendrapara and Jagatsinghpur, RCDC(2014)
- www.apowa.org.in
- Sectoral policies and plans of Govt. of Odisha
- DECCMA working paper : Evaluating adaption pathways in DECCMA Deltas
- SWOT Analysi Report (Deliverable 5) NIDM (submitted by Seeds Technical)

This work was carried out under collaborative adaptation research initiative in Africa and Asia (CARIAA), with financial support from the UK Governments Department for International Development (DFiD) and the International Development Research Center (IDRC), Canada. The views expressed in this work are those of the creators and do not necessarily represent those of DFiD and IDRC or its Board of Governors.

www.deccma.com @DECCMAIndia @DECCMA