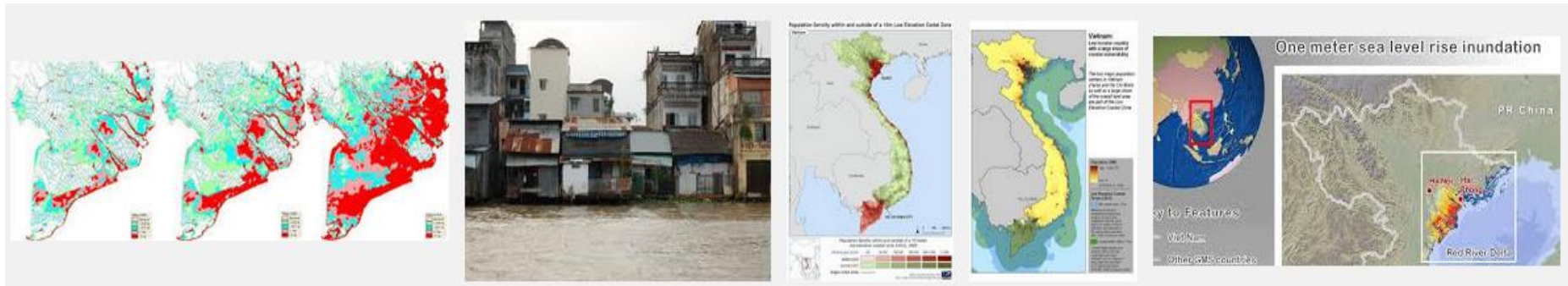




Climate Vulnerable Forum Regional Workshop: Asia  
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# Policy Innovations and Challenges in Response to Climate Risks



MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT  
DEPARTMENT OF METEOROLOGY, HYDROLOGY AND CLIMATE CHANGE

## VIETNAM

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# OUTLINE

1. Climate Change in Vietnam
2. Vietnam's response to climate change
3. Challenges



# Climate change in Vietnam

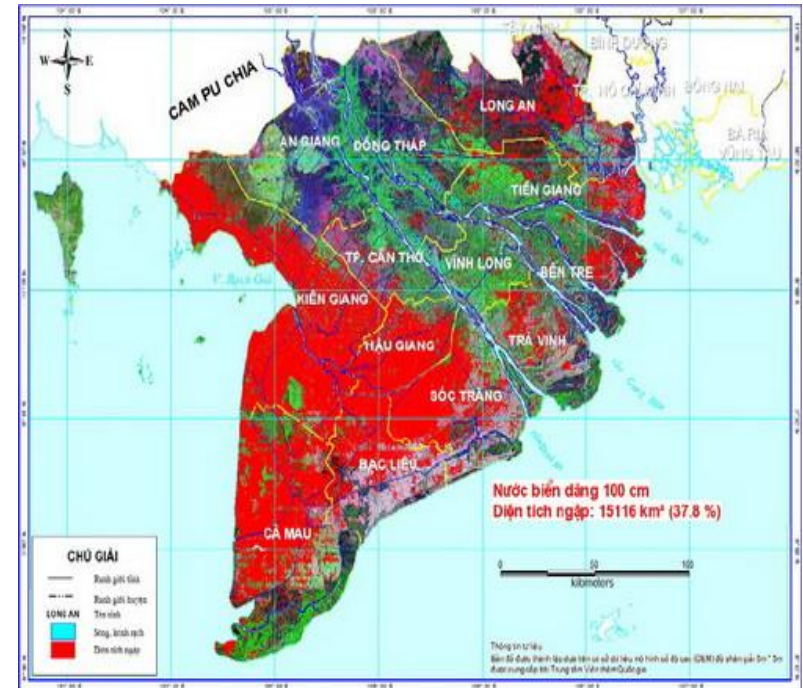
- Highly vulnerable to climate change impacts;
- Red River and Mekong deltas are seriously affected;
- Long coastal zone with dense population being affected;
- Poor and mountainous communities are under various threats;
- All population are under significant threats





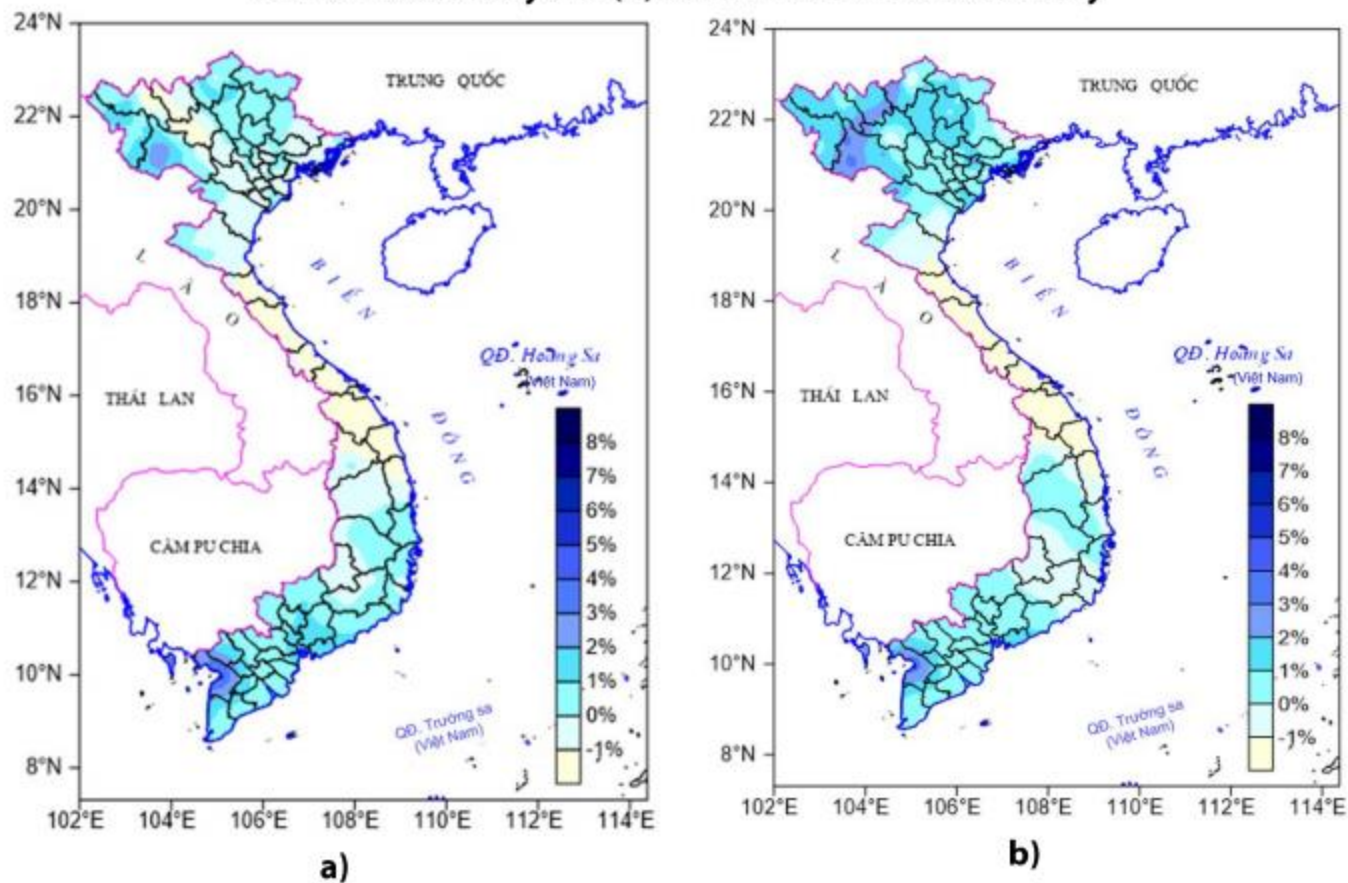
# Vietnam Climate Change Scenario

- Longer summer, more prolonged heat spells; temperature may increase 2.3°C by 2100;
- Abnormal rain patterns and rainfall;
- More severe and frequent natural disasters;
- Sea level rise can be up to 100cm in 100 years;
- Scenarios were based on SRES-B2, expected impacts may be a lot worse for Vietnam



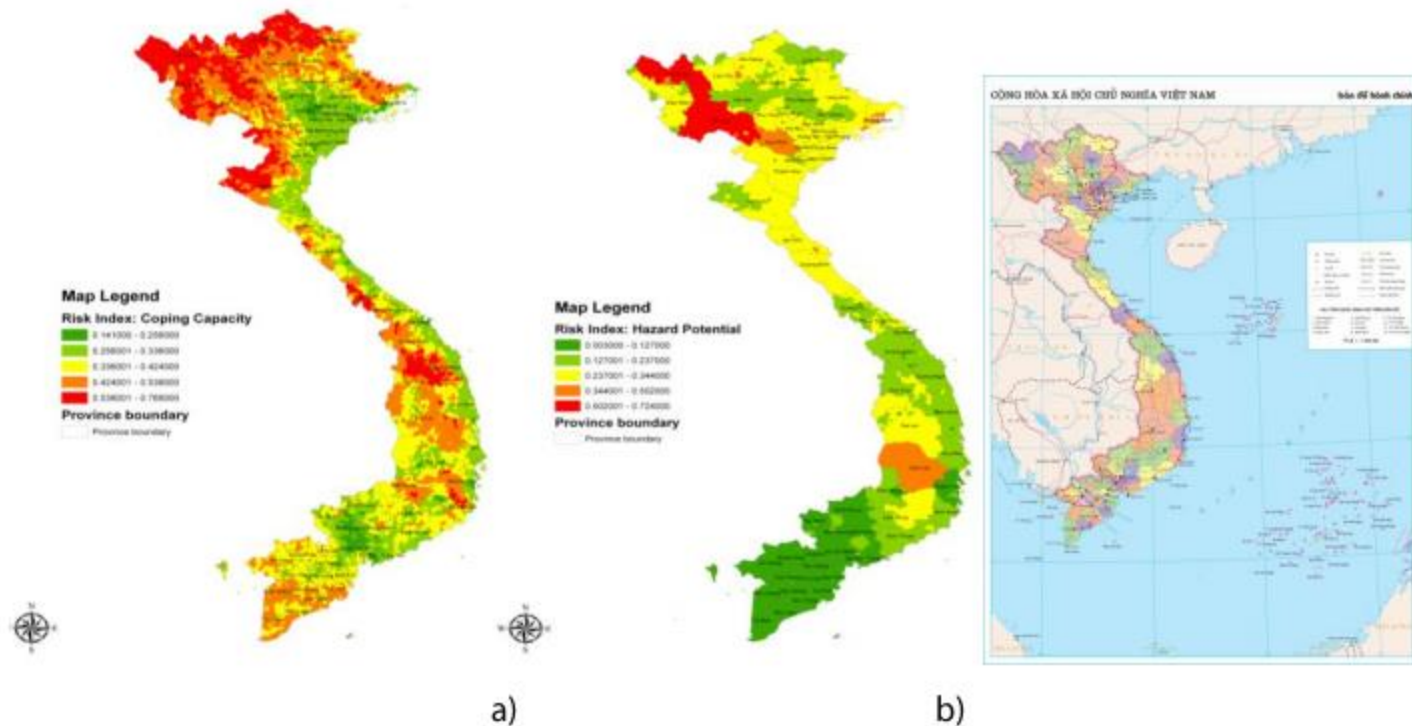


**Figure SPM-6. Projected change in the number of rainy days over 50 mm (a) in the middle of the 21st century and (b) at the end of the 21st century**





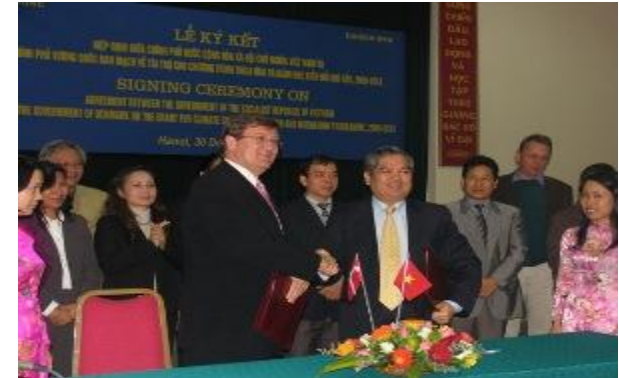
**Figure SPM-3. Risk index: (a) the capacity to cope with natural disasters; and (b) potential hazards of Viet Nam**



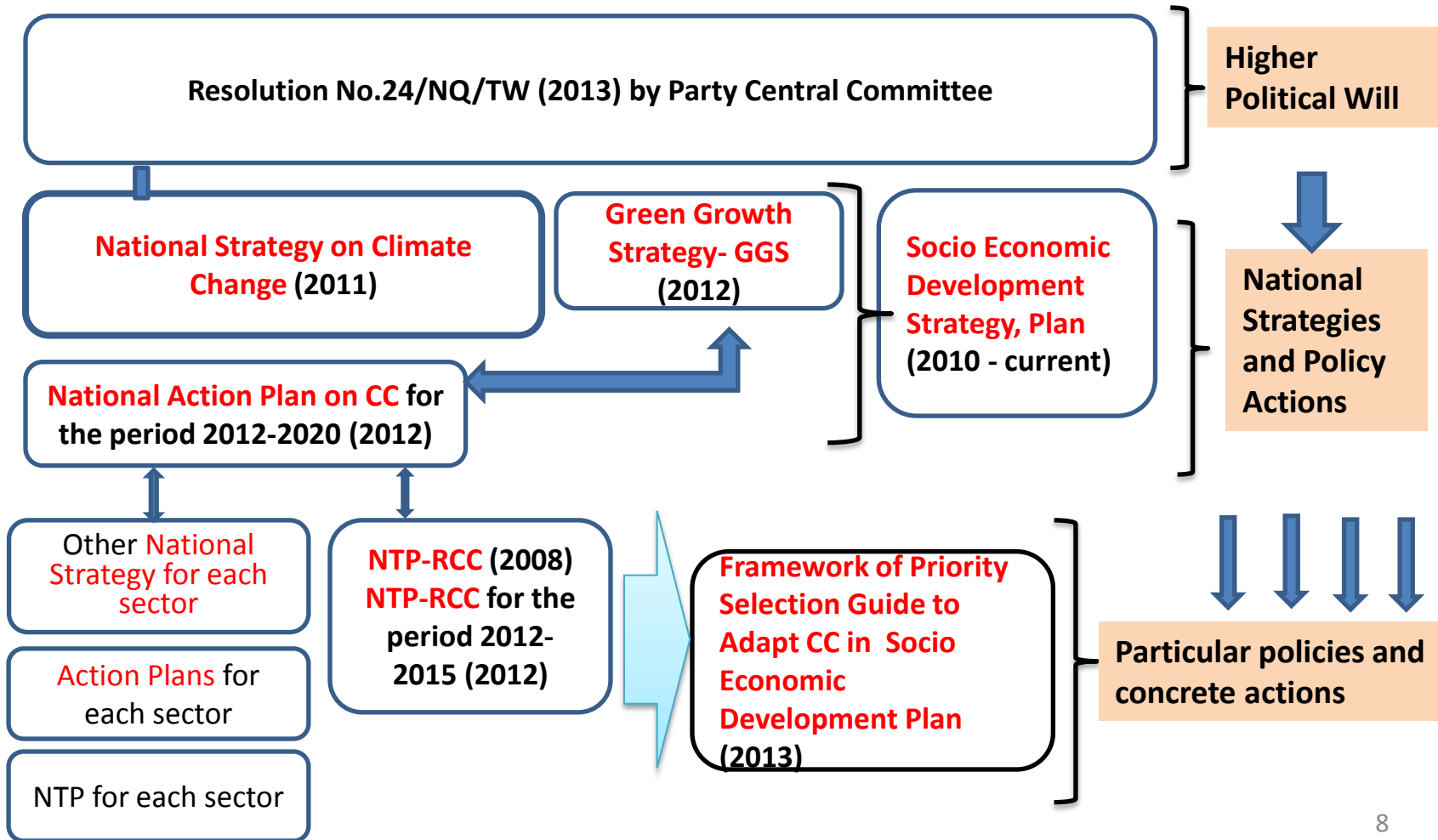


# Vietnam's response to climate change

- Joined and ratified UNFCCC and Kyoto Protocol;
- Vietnam Agenda 21 – August 2004;
- **National Target Programme to Respond to Climate Change (NTP-RCC) – December 2008.**
- MONRE announced Vietnam Climate Change Scenarios;
- Mainstreaming climate change into SEDP;
- Approval of the **National Strategy to Respond to Climate Change – December 2011.**



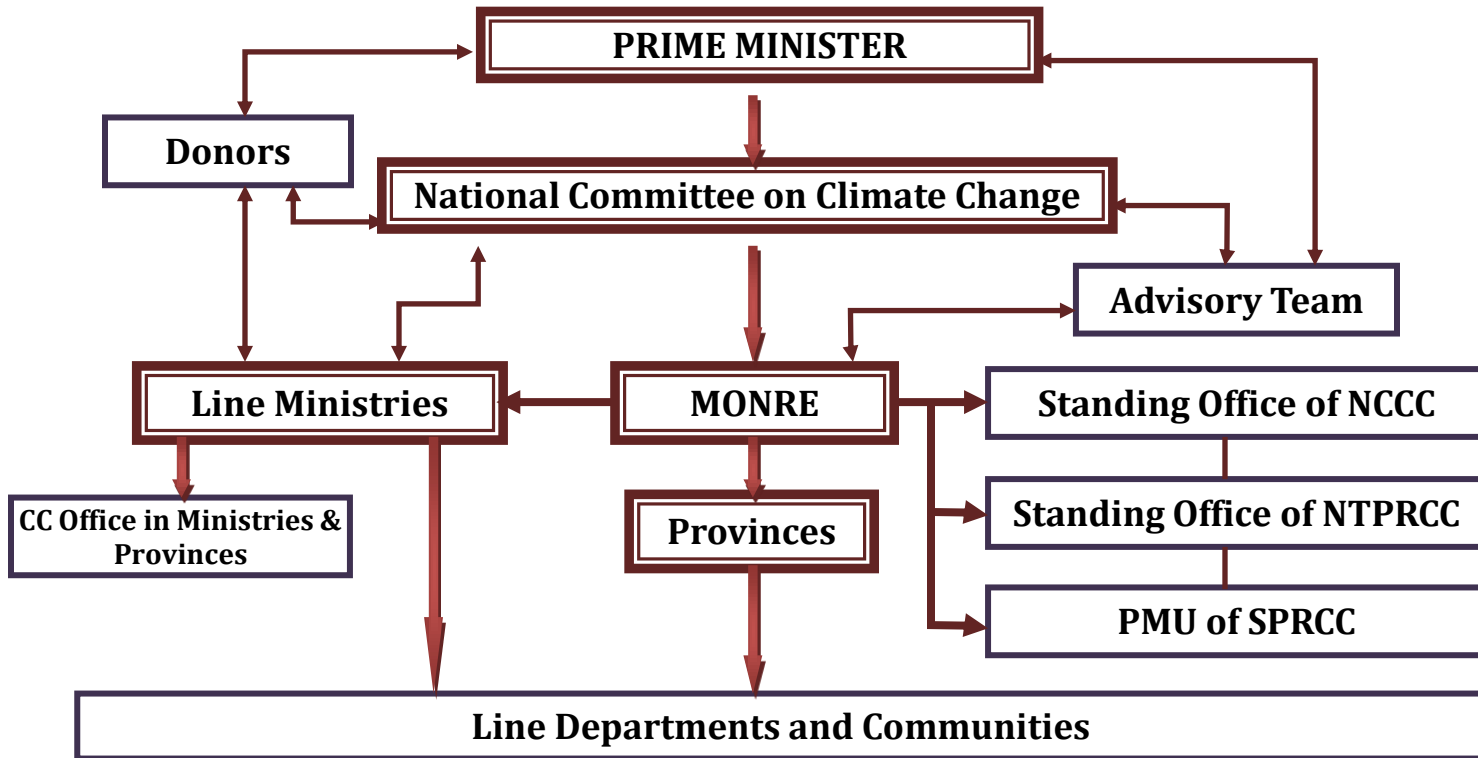
# Vietnam's response to climate change





# Institutional Arrangement

- Ministry of Natural Resources and Environment as focal point for the Government on climate change;



# Vietnam's response to climate change

- **National Climate Change Strategy - Decision 2139/QD-TTg**
  - considers climate change response **vital** to the development of the country;
  - associated with sustainable development toward a **low-carbon economy**;
  - adaptation and GHG emission reduction must be carried out in parallel;
  - responding to climate change is a system-wide responsibility, led by the Government;



# Challenges

- Little understanding of green economy;
- Lacks of the implications of climate change on developing green economy;
- Weak institutional system for developing green economy;
- Private sector engagement and co-benefit sharing remain limited;
- Policy development and mainstreaming into SEDP remains slow and weak;
- Budget limitation
- Limited technology and experience.





## priority actions

1. Mapping various climate risks
2. Mapping exposure, vulnerabilities and adaptation measures
3. Improving forecasting capacities and early warning systems
4. Poverty reduction programmes
5. Strengthening social protection and social care networks to reach vulnerable groups
6. Integrating disaster risk reduction and climate change adaptation in urban & land use planning
7. Developing integrated plans for water resource management in river basins and key areas
8. Raising community awareness, building capacities, local plans (CBDRM programmes)
9. Strengthening resettlement programmes, to reduce exposure, and also reduce vulnerabilities
10. Strengthening infrastructure construction standards (climate proofing)
11. Strengthening building codes, designs of houses, buildings
12. Developing local, national and international scale risk-pooling
13. Strengthening forestry, including mangrove conservation, restoration, and replanting
14. Supporting conservation agriculture, e.g. new crop rotations, drought and flood tolerant crop varieties
15. Improving practices for water saving, water demand management, rainwater and groundwater harvesting, and water storage systems
16. Upgrading irrigation and drinking water systems, also drainage
17. Developing policies and management mechanisms associated multi-purpose reservoirs, especially hydroelectric works



# Thank you for your attention



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