

# Synthesis of submissions on the costs, benefits and opportunities for adaptation based on different drivers of climate change impacts, including the relationship between adaptation and mitigation

ADP 2.3 Warsaw, Poland, 13 November 2013



## **DRIVERS OF CLIMATE CHANGE IMPACTS**

- Climatic: exposure of a society, economy or ecosystem
- Non-climatic: economic, social, geographic, demographic, cultural, institutional, governance and environmental factors
- Interaction determines overall vulnerability



## **OBSERVED IMPACTS AND ASSOCIATED COSTS**

- Economic and non-economic loss and damage with considerable costs experienced in some areas

## **ASSESSMENTS OF ADAPTATION COSTS AND BENEFITS**

- Wide range of estimates at different levels
- Methodological challenges and sensitivity of assumptions constrain comparability and decision-support
- Proposals to determine ex ante annual global adaptation costs based on the impacts of global temperature increase/mitigation scenarios and levels of adaptation

## **BENEFITS AND OPPORTUNITIES FOR ADAPTATION**

- Integrating and aligning adaptation with sustainable development planning and policies
- Enhancing adaptive capacity, including through economic diversification and engagement of the private sector
- Engaging in disaster risk reduction and management

## **LIMITS TO, AND NEEDS FOR, ADAPTATION**

- Adaptation could become neither technically and/or financially feasible
- Appropriate and adequate financial and technological support



## RELATIONSHIP BETWEEN ADAPTATION AND MITIGATION

- Global mitigation efforts affect the rate of climate change and the extent and timing of adaptation required
- Potential areas for integrated adaptation/mitigation: agriculture, forests and coastal management
- Relationship should not impose any conditions on, or limit opportunities arising from, both adaptation and mitigation
- Way to operationalize relationship: global goal for adaptation, incorporating adaptation costs associated with the level of mitigation efforts



### **REFERENCES INCLUDED IN PARTIES SUBMISSIONS**

- IPCC assessment and special reports
- Economic assessments at national, regional and global levels
- Meta-analyses of assessments and elaborations of different methodological approaches
- Impact assessments for different temperature scenarios
- Papers on international and national adaptation policy and planning
- Papers on mitigation and its relationship with adaptation



Thank you for your attention

