



Peruvian Approach, Measures and Tools to address loss and damage in the context of climate change adaptation

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Public Investments and Climate Change Adaptation

- In 2010, public investments in the country reached US\$ 9 billion. A preliminary analysis of the Ministry of Environment (Minam) 2010 determined that only 1% of the public investment projects include aspects related to climate change
- Recent statistics show the number of projects declared viable per sector and level of government.



Source: MEF, 2011

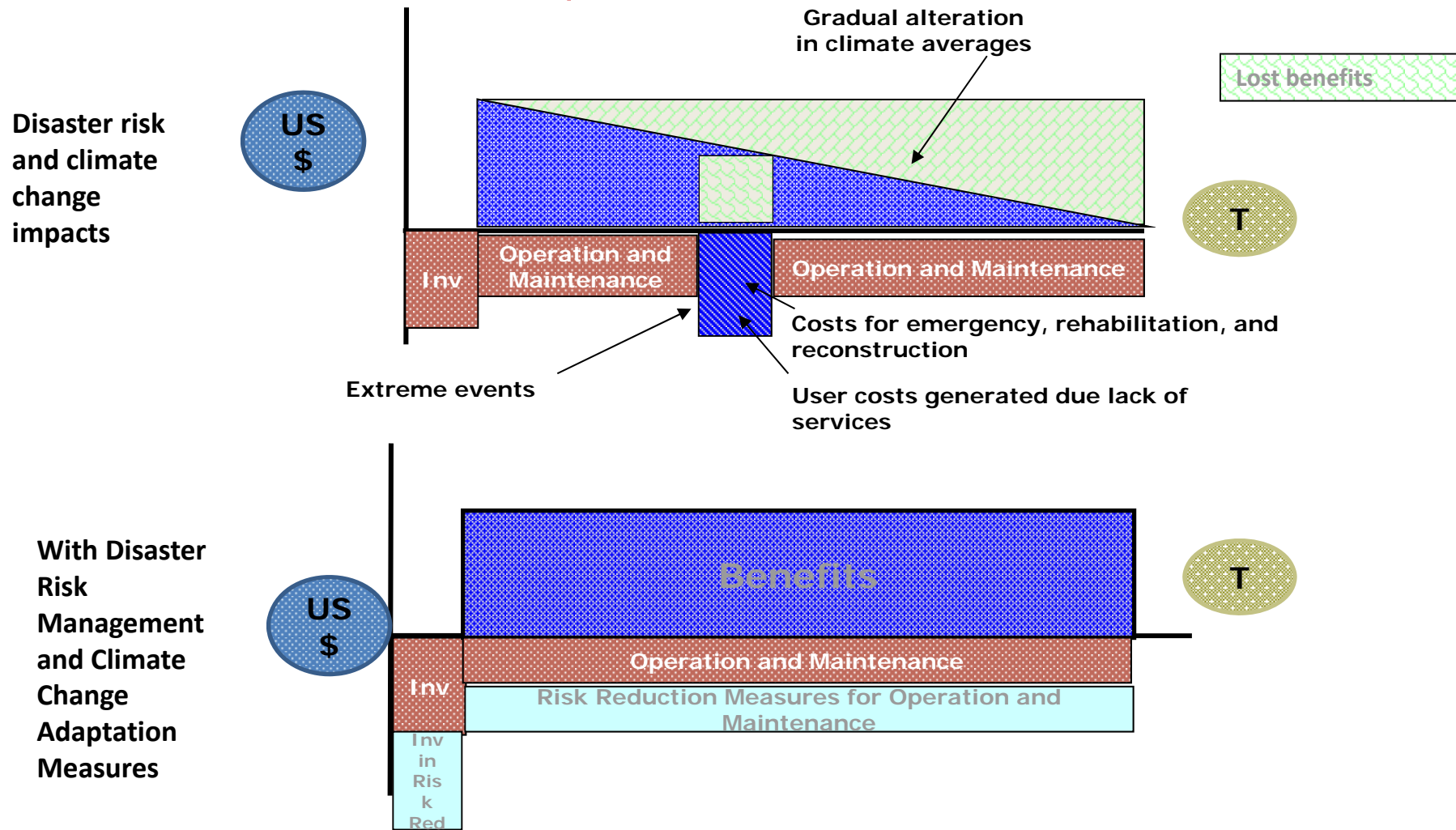


Public Investments and Climate Change Adaptation

Effects of Climate Change	Impacts in Public Investment Projects
Intensification of extreme weather events (heavy rains, droughts, hurricanes, freezes, etc.).	The scenarios of climate hazards are more severe, more frequent and intense. Consider scenarios in Integrated Risk Management
Changes in rainfall patterns. Reduction of water sources .	Less availability of water in the future for the provision of water for human use, irrigation and the production of energy. Need mechanisms of regulation and storage, better and new techniques for the use of water and energy.
Loss of glaciers.	Landslide movements due to thaw. In short to medium term, increased availability of water. Low water availability in the future due to loss of glaciers. Consider Risk Management scenarios in public investment projects.
Temperature rise. Changes in ecosystems and biodiversity.	New scenarios for irrigation projects (crop changes, greater need for water), tourism.
Temperature rise. Appearance of plagues and illnesses.	New scenarios for irrigation and health projects
Rise in sea-level	Port infrastructure could be affected. Rearrange actual infrastructure or plan new infrastructure in alternate zones.



Cost benefit of risk reduction and climate change adaptation measures



Source: Nancy Zapata, MEF, 2012

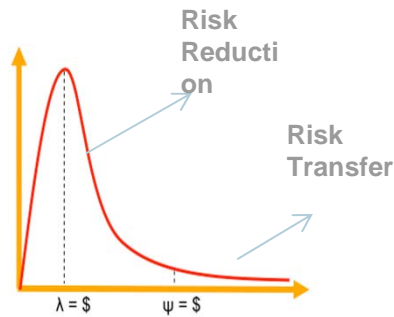


Tools, Steps and Components for an integrated risk management framework



- Develop an inventory of assets
- Determine hazards and risks

Identification of risk



- Develop a vulnerability model
- Develop model of hazards and risks

Risk analysis



Prepare and maintain infrastructures for extreme events

Risk reduction



- Develop a financial risk management strategy
- Use a variety of financial instruments (retention and transfer)

Risk financing



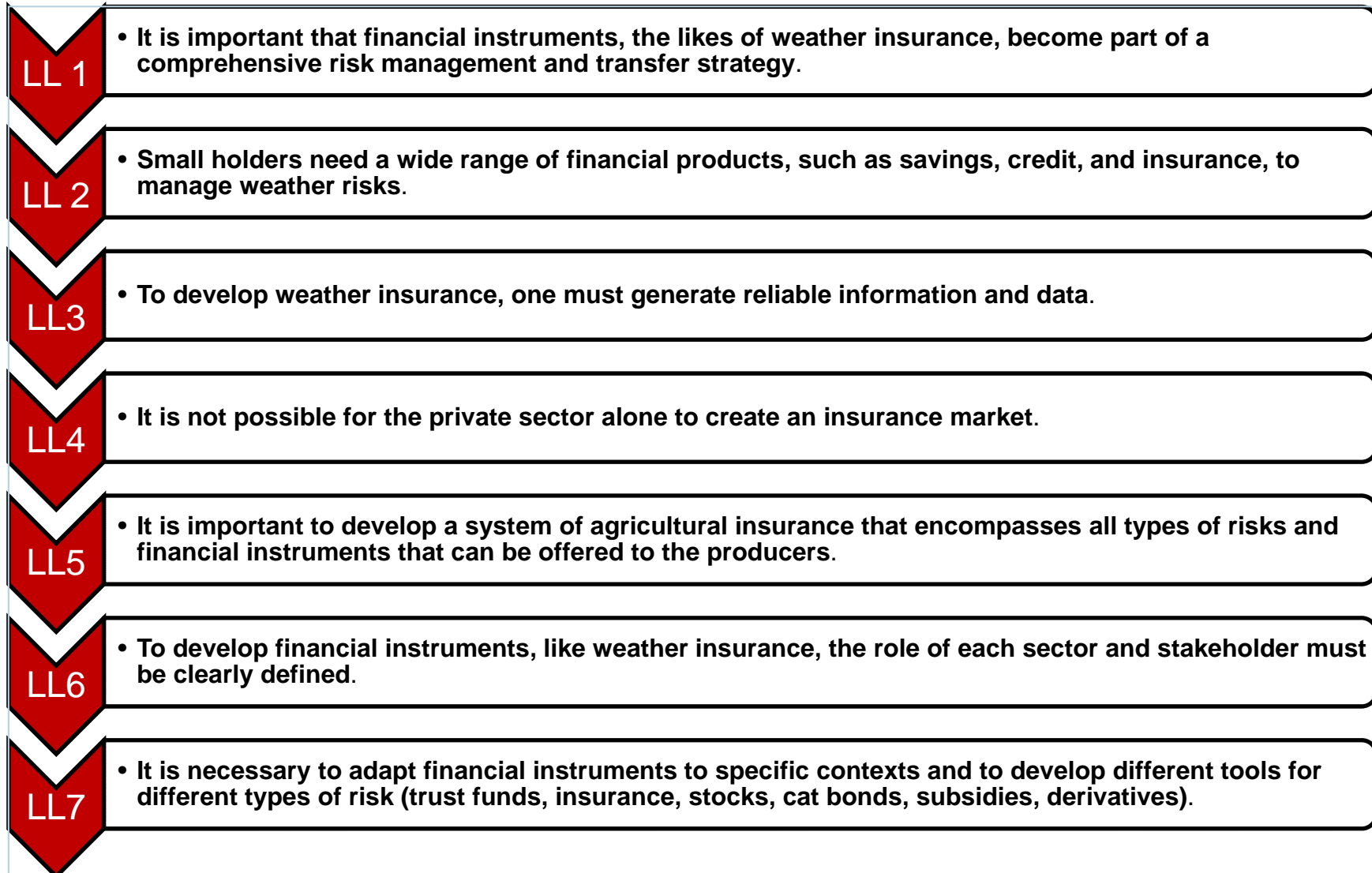
Institutional Context :

Intersectoral Approach at international, national and subnational level





Success factors, resource requirements and lessons learned





Thank you for your attention

Por encargo de:



Ministerio Federal de Medio Ambiente,
Protección de la Naturaleza
y Seguridad Nuclear

de la República Federal de Alemania

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