## Climate Resilient Development



Opportunities for including slow onset climate events
Habiba Gitay, The World Bank



## Many non-climate related stresses



Poor planning



Land use, land cover change Fragmentation Land degradation Exotic/invasive specie

As well as Socio-economic factors

Pressures interact with each other and climate change

# Challenges: detecting and accepting slow onset events

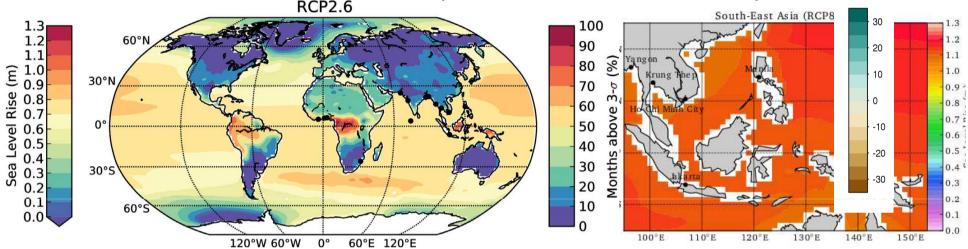
#### Climate

- Limited Observations: climate, environment etc
- Some not easy to observe e.g. salinity, changes in marine fisheries
- Critical thresholds
- Secondary and large scale consequences, not always predictable – e.g. wildfires, collapse of social structures and ecosystems
- Loss and damage: socioeconimc baselines, asset maps

## Varied Global and Regional Change

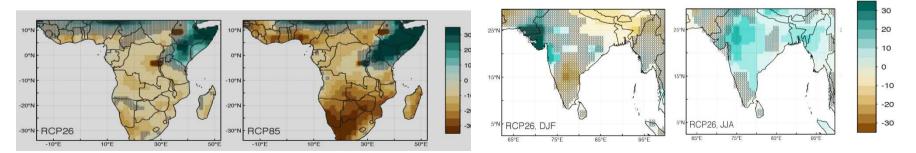






## Hyper-arid areas – low to high emissions risk to Food production

#### Changes in wet and dry season ppt



## Integrate climate risks into development

#### Goal:

- Changed decision-making process
  - include climate risks along with other risks
  - Consider short-term risks and long term risks
- Develop tools and approaches to support the decisions
- Get asset data, build in fast response systems
- Develop an M&E framework for outcomes

## Approaches – phased (1)

- Initial phase allows engagement across multiple development sectors, stakeholders
  - Improves understanding of the slow, often mediumto-long term risks
  - Time for solid analysis to help with decision-making
  - Allows time to gather data, develop tools and decision-support systems
  - Allows prioritization focus on the poorest and most vulnerable
  - Start setting up long-term institutions to coordinate and facilitate efforts, house data/info etc

## Approaches – phased 2+

- Design of interventions and investments
- Assess risk for long-term investment and include measures
- Social long-term changes to lives and livelihoods: trade-offs between retreat, protection and accommodation options (challenge: hard decisions)
- Planning multiple risks to be considered over long-term horizons
- Address current "stresses" :
- Investments in early warning systems
- Overall---
  - support changes in policies,
  - On the ground investments (learning by doing)
  - Financial instruments quick access to resources when needed
  - Support for institutional arrangement

## Climate Investment Funds



#### Clean Technology Fund

Finance scaled-up demonstration, deployment and transfer of low carbon technologies

#### **Investment Plans**

- Support country and regional development strategies
- Leverage financial products of Multilateral Development Banks
- Stimulate private sector engagement

\$4.5 billion

#### Strategic Climate Fund

Targeted programs with dedicated funding to pilot new approaches with potential for scaling up

### **Pilot Program** for Climate Resilience

Mainstream climate resilience into core development planning and implementation

\$ 1.2 billion

#### **Forest Investment Program**

Reduce emissions from deforestation and forest degradation

#### Scaling Up Renewable Energy in Low Income Countries

Create economic opportunities and increase energy access through renewables











\$ 2.2 billion

## PPCR Investments: **Sectors and Thematic Areas**





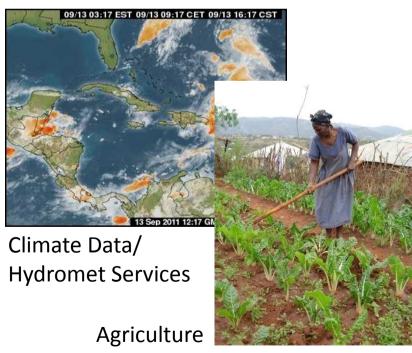
Infrastructure



Livelihoods

Modification of hydro-power infrastructure





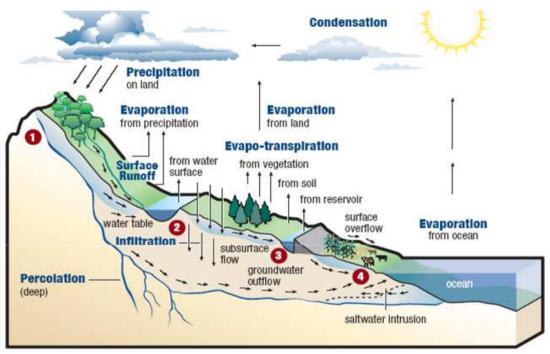
Cities

OF WATER SECTOR INFRASTRUCTURE

## Other approaches – DRM and Resilience

- Disaster response transition climate resilient dev
- Goal: changed culture of decision-making to consider climate risks,
   e.g. Horn of Africa, Est. Caribbean
  - (Priority 1: immediate relief)
- A \$1.8 billion dollar drought response plan
  - Multiple institutions involved; multiple countries, regional institutions and international organizations
- Phase I (1-2 years)—Recovery with a focus on livelihoods, employment, food production, livestock management, rehabilitation of land/water systems
- Phase II+: Risk preparedness, risk reduction and ongoing and future slow-climate risk management
- Assest maps, data bases and fast disbursement mechanisms
- Measurable results

## Some promising approaches



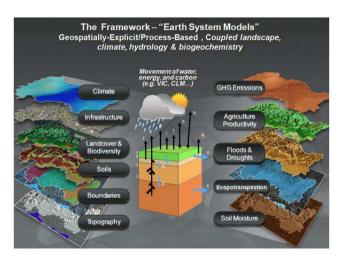








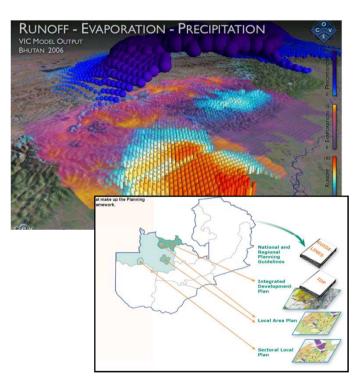
## Planning and Changed Decisions



**Information systems** 

high quality & long term climate, terrain, land cover & land use, infrastructure, population & settlement data sets

**Analysis** supported by observations





Financial instruments







### **Concluding remarks**

- Analysis and observational data
- Informed decision-making
- Willingness to make hard decisions
- Multi-sectoral, multistakeholder approaches over medium-long-term planning horizons
- Measureable results

- Data bases: assets and risks
- Responses: fast disbursement when needed
- Learning by doing... sharing knowledge, developing nationalregional expertise
- Flexible approaches changed institutions and policies



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More information

http://www.worldbank.org/en/topic/climatechange

http://www.gfdrr.org

