

Virtual Business Opportunities Seminar Series:

Climate Change, Disaster Risk Management and Procurement

Malte Maass
Climate Change Specialist
Central and West Asia Department
mmaass@adb.org



CLIMATE CHANGE AND DISASTERS

Context

- Large and diverse region in terms of geography and development.
- Some very emission-intensive economies.
- And natural resource-dependent economies highly vulnerable to the impacts of climate change.



Impacts

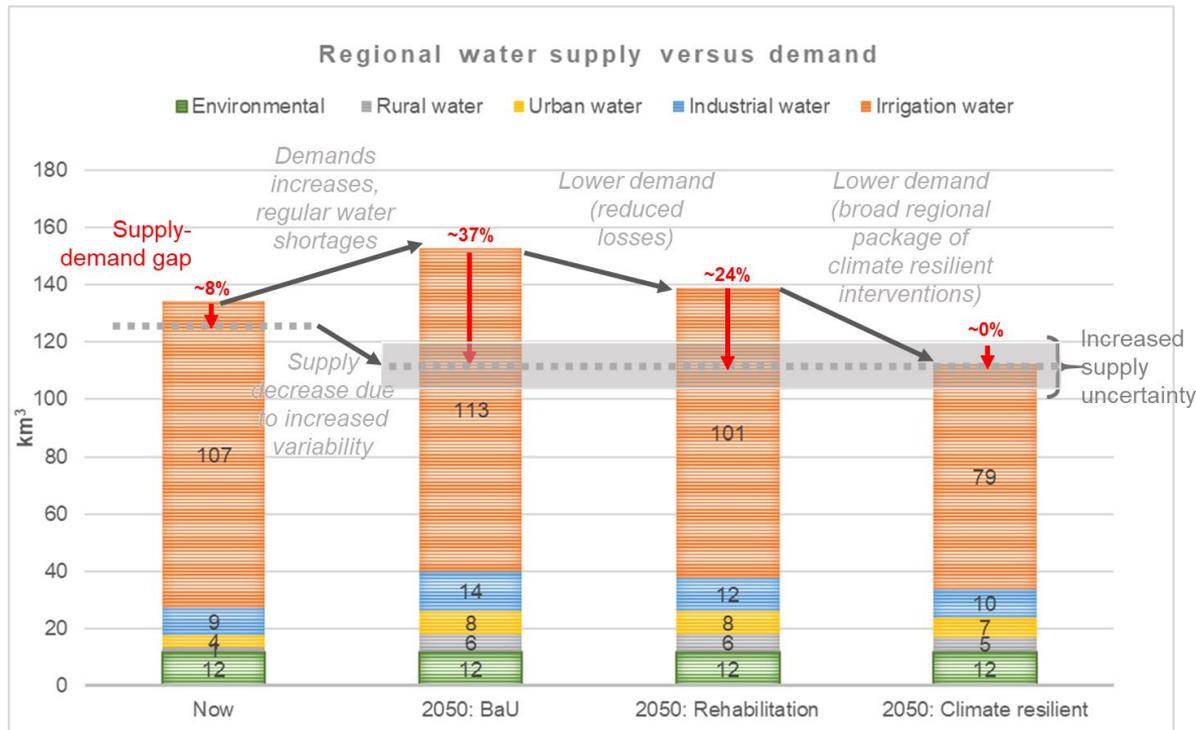
- The region is warming faster than the global average and projected to experience increased incidences of extreme weather and increased drought.
- Earthquake risks and mountainous area prone to land slides.
- Potential massive economic impacts with related political and social implications such as migration.



CLIMATE CHANGE AND DISASTERS

Example of Water Sector

- Change in river flows due to loss of glacial ice and temperatures and precipitation changes.
- Changes of supply and demand of water affecting economies and livelihoods.
- Water investments, planning and policies must prioritize and mainstream climate change adaptation and resilience.



RESPONSE TO CLIMATE CHANGE IN CWRD

Project Financing

- Supporting member countries to decarbonize their economies.
- Facilitating private sector investments in low-carbon technologies.
- Building climate and disaster resilience of investments and systems.

Strategic Action

- Initiating dialogue on climate change in the context of Country Partnership Strategy and pipeline development.
- Producing upstream assessments to develop projects focused on climate change and disaster aspects.

Policy Support

- Supporting climate policy and strategy development in member countries.
- Facilitating regional cooperation to address climate issues.
- Building and strengthening partnerships with international partners (including other providers of climate finance).

CASE STUDY:

Landslide Risk Management Sector Project in Kyrgyzstan

Overview

Outcome

Vulnerability and exposure of communities and infrastructure to landslide events reduced.

Impacts

- (i) human and material loss from climate and geophysical-related disasters reduced and
- (ii) level of protection of the population and territories from emergency situations increased for sustainable development

Outputs

1. Landslide mitigation engineering measures implemented.
2. Systems for on-site and national landslide monitoring improved.
3. Capacity for landslide risk management strengthened

Innovative Elements

- Engineering with nature-based solutions
- Piloting an innovative satellite-based system for national-level landslide monitoring
- Community-based planning and capacity building to support sustainability



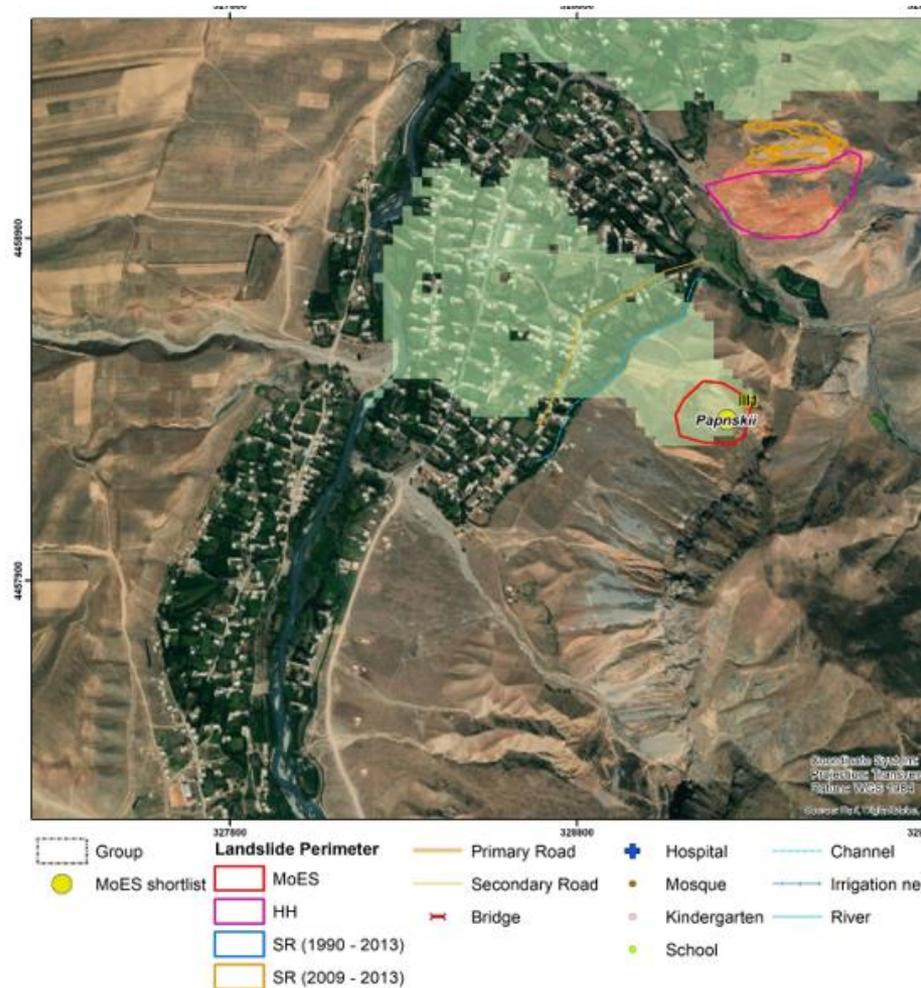
Focus on Project Preparation

Landslide risk reduction framework

- landslide risk assessment and subproject site selection incorporating earth observation and other advanced technologies
- climate change and seismic risk assessment
- topographic and geographic surveys
- scope and plan for prospective disaster insurance/financing mechanisms.
- feasibility-level structural design for representative subproject considering nature-based solutions

Sector approach for subprojects

- Supports National Disaster Risk Management Program (2018-2030)
- Feasibility study conducted for large and representative subproject
- Long-list of further 45 sites assessed



Focus on Project Preparation

Key Experts

Landslide Specialist
Hydrologist
Infrastructure Specialist
Disaster Insurance Specialist
Social Safeguards (Resettlement)
Specialist
Environment Specialist



Example List of Reports

The draft documents to be produced by the consultant team for the draft final report are:

- (i) Project Administration Manual
- (ii) Development Coordination
- (iii) Summary Sector Assessment
- (iv) Detailed Sector Assessment
- (v) Summary Economic and Financial Analysis
- (vi) Detailed Economic and Financial Analysis
- (vii) Summary Poverty Reduction and Social Strategy
- (viii) Gender Action Plan
- (ix) Poverty, Gender, and Social Assessment
- (x) Risk Assessment and Risk Management Plan
- (xi) Financial Management Assessment
- (xii) Project Procurement Risk Assessment and Strategic Procurement Plan
- (xiii) Summary Climate Change Assessment
- (xiv) Landslide Risk Assessment including Detailed Seismic and Climate Change Assessments
- (xv) Technical Feasibility Study for Representative Subproject
- (xvi) Initial Environmental Examination
- (xvii) Environmental Assessment and Review Framework
- (xviii) Social Safeguards Due Diligence Report or Land Acquisition and Resettlement Plan
- (xix) Land Acquisition and Resettlement Framework
- (xx) Asset Management and Operation and Maintenance Plan

CAREC Water Pillar

Aim

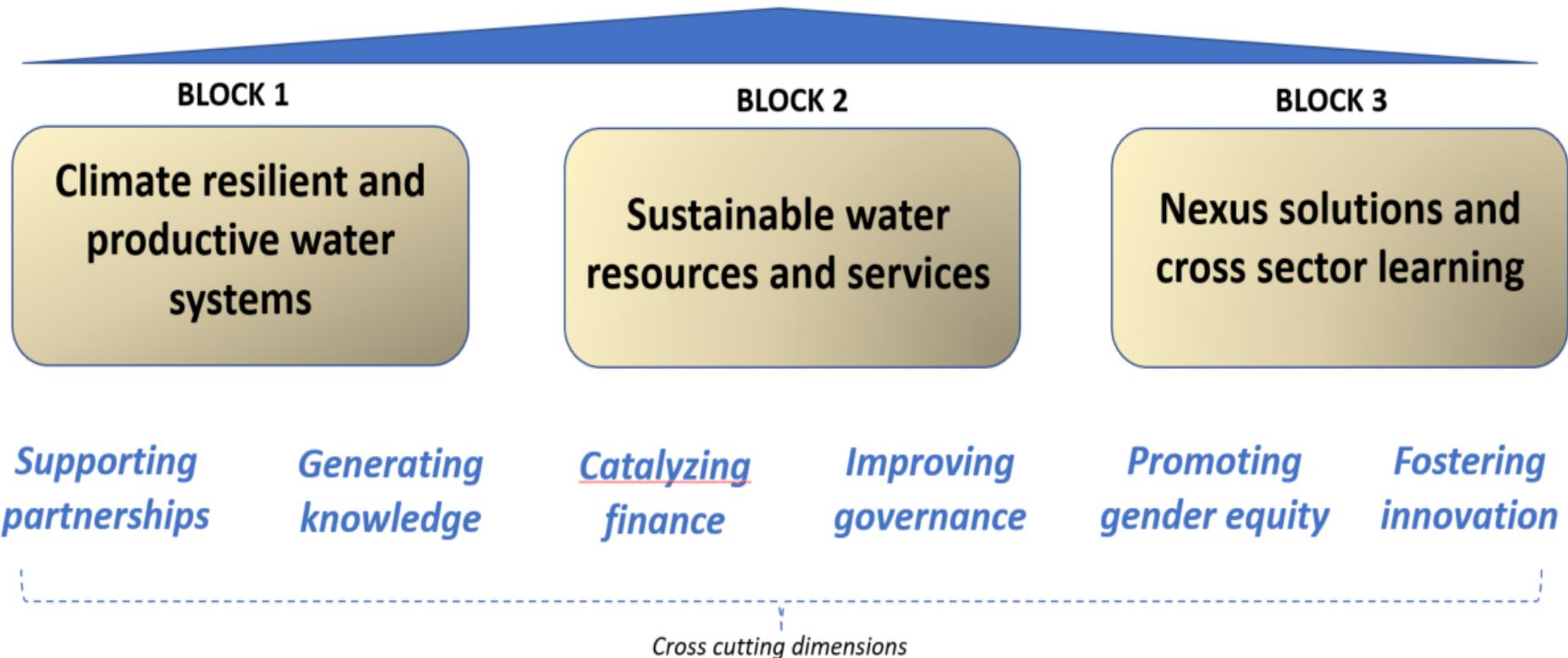
- As part of a broader regional economic framework to raise the profile of water security across the region and facilitate cross-sector dialogue and investments for mutually beneficial outcomes.
- complement other regional initiatives and programs.
- support national development goals and strategies, e.g. SDGs, NDCs.

Vision:

'A sustainable, climate resilient, productive and water secure region with shared benefits among States and communities.'

Proposed framework for the Water Pillar

CAREC Water Pillar



Steps involved in developing initial activities

- Initial scoping studies
- Regional consultation
- Identification of priority investment and technical assistance initiatives
- Development of concept papers for further consultation
- Engagement with regional entities and development partners on institutional cooperation and co-financing arrangements
- Explore access to new funding modalities, e.g. climate finance

Thank you!

Malte Maass
Climate Change Specialist
Central and West Asia Department
mmaass@adb.org

