Snapshots on water, climate and resilience: Examples on activities of the World Bank

EU and US Climate Change Mitigation Course, 20 April 2023, WU Vienna



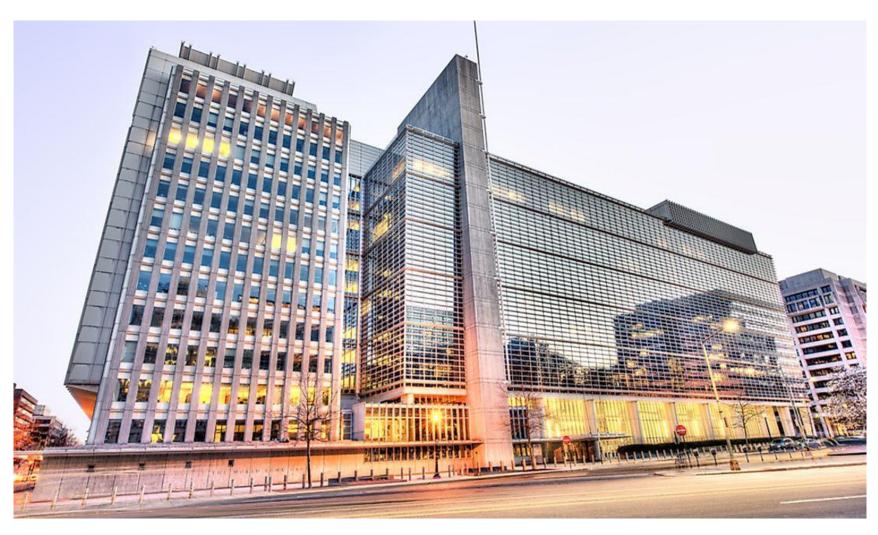
Sr. Water Resources Management Specialist
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Contents

- Brief introduction to the World Bank
- Overview on the Environmental and Social Framework
- Snapshot World Bank Vienna Office
- Examples for our work on water
- Example Ukraine "Rapid Damage and Needs Assessment"









Creation



Bretton Woods Conference July 1944, Bretton Woods, New Hampshire

Central principles:

An end to economic nationalism

Open markets, development through trade

Two-fold aim in the wake of WWII:

Rebuild Europe
 & foster economic development



International Bank for Reconstruction and Development (IBRD) [First borrower: France (\$250M)]

2. Regulate the international monetary and financial order



International Monetary Fund (IMF)









Historic snapshot of evolving work





Twin-goals

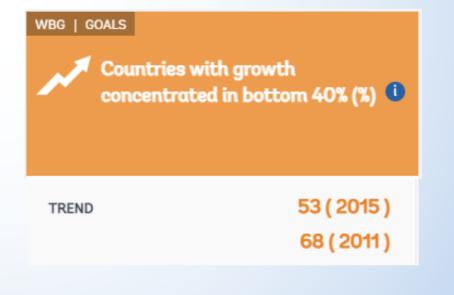
END EXTREME POVERTY

Reduce the percentage of people living in extreme poverty to 3% by the year 2030

PROMOTE SHARED PROSPERITY

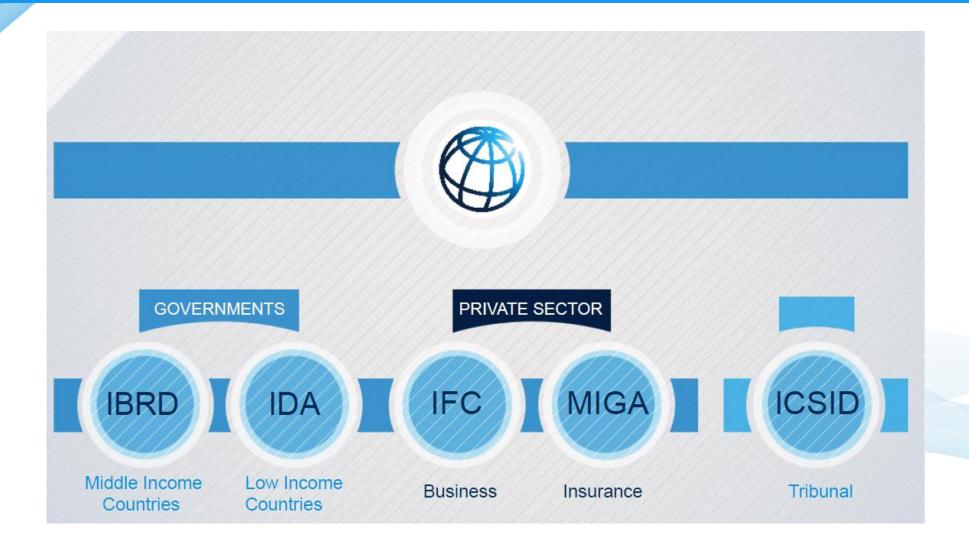
Increase the income of the bottom 40% of the population in each country





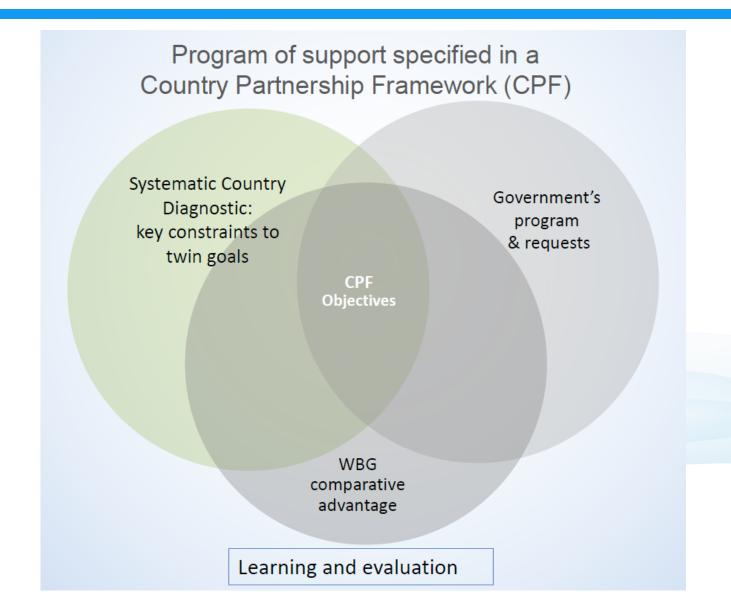


World Bank Group structure





Country based model



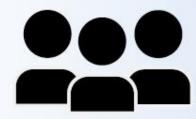


Services

Our **value** is our ability to work at the nexus of global and local issues, complementing policy work with operational responses and financing, and engaging with both public and private sectors







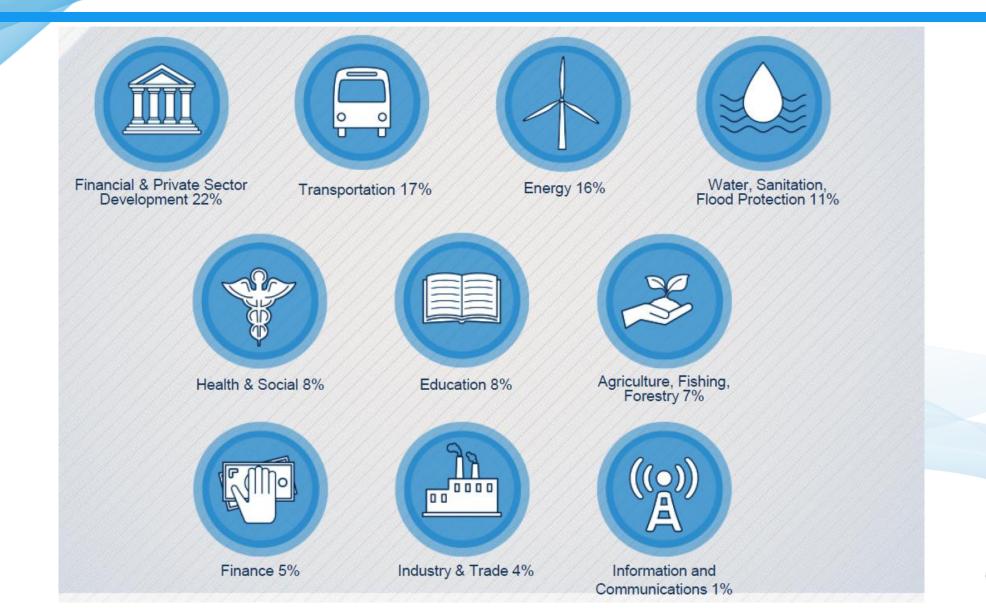
Finance

Knowledge

Convening

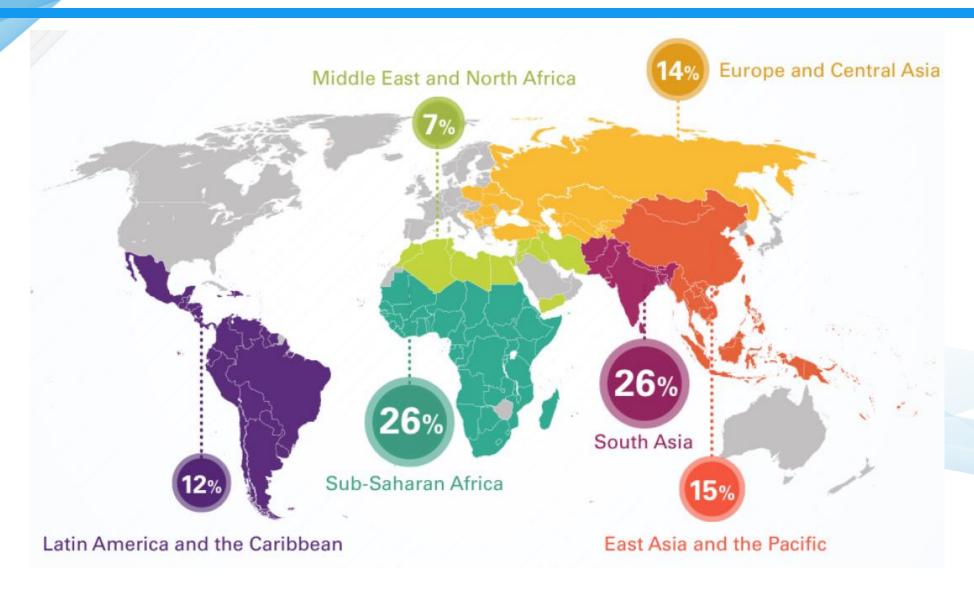


IBRD/IDA (about \$50 b per year)





Regions





What goes into a project?

- 1. Technical expertise
- 2. Environmental and Social Framework
- 3. Financial management
- 4. Procurement
- 5. Legal
- 6. Planning
- 7. Monitoring and evaluation
- 8. Budget management
- 9. Counterpart relations
- 10. Civil society
- 11. Donors
- 12. Communications





Environmental and Social Framework





Brief overview on the Environmental and Social Framework of the World Bank



What are the Environmental and Social Standards?

Designed to help Governments manage project risks and impacts, and improve environmental and social performance, consistent with good international practice and national and international obligations



Include <u>objectives</u> that define the environmental and social outcomes to be achieved



Include <u>requirements</u> that help Governments achieve ESS objectives through means appropriate to nature, scale and risks of the project



Environmental and Social Framework

World Bank Responsibilities

Environmental and Social Policy

Environmental and Social Directive

Directive
Disadvantaged/
Vulnerable

Implementation Guidance

Information
Management Systems,
Tools

Review & due diligence

E+S Commitment Plan (ESCP) as part of Legal Agreement

Assessment & Implementation

Good Practice Notes

Borrower Responsibilities

Environmental and Social Standards
1-10

Environmental, Health, and Safety Guidelines

Guidance Notes

Reference Materials, Studies, Tools, Templates



World Bank Environmental and Social Standards



Assessment and
Management of
Environmental and
Social Risks and Impacts



ESS2
Labor and
Working
Conditions



ESS3
Resource Efficiency
and Pollution
Prevention and
Management



ESS4
Community
Health and
Safety



ESS5
Land Acquisition,
Restrictions on Land
Use and Involuntary
Resettlement



ESS6
Biodiversity
Conservation and
Sustainable
Management of Living
Natural Resources



Indigenous
Peoples/Sub-Saharan
African Historically
Underserved
Traditional Local
Communities



ESS8 Cultural Heritage



ESS9
Financial
Intermediaries



ESS10
Stakeholder
Engagement and
Information
Disclosure



Current topics





The ESF incorporates current environmental and social issues relevant to investment projects. These include:









Climate Change

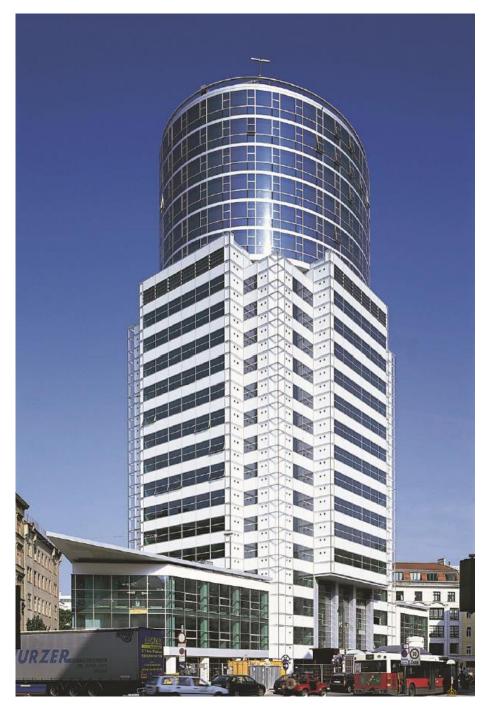
Gender

Non-discrimination Disability

The ESF allows for:

- Post-Board preparation and disclosure of environmental and social assessment documents in some cases
- Adaptive Management
- Proportionality
- Use of some or all of the Borrower's existing Framework
- Use of a common approach when jointly financing a project with other agencies





World Bank Vienna Office



Vienna office: Some examples for engagement areas

- Regional Projects and Programs
- Just Transition from a carbon-based economy
- Emergency COVID operations
- Agriculture
- Environment
- Education
- Social Protection
- Innovation/entrepreneurship
- Dam safety
- Road Rehabilitation
- Water management



Water is essential



Water sustains the planet



Water is a vital factor of production



Water is the essence of life

But... Water is in crisis

Too much



Too polluted



Too little



... and pressures and extremes are increasing





Water is an inter-sectorial issue Example: Water Management Issues in Central Asia

- Semi-Arid area with growing physical water scarcity
- Increased competition for (transboundary) waters
- Environmental flow reduction Aral sea shrinkage
- Irrigation as the largest water user
- Low water productivity and water use efficiency in irrigation
- Climate change will significantly increase irrigation water demand



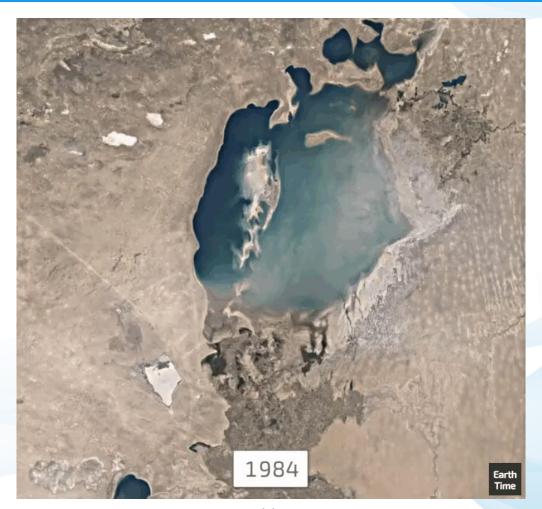
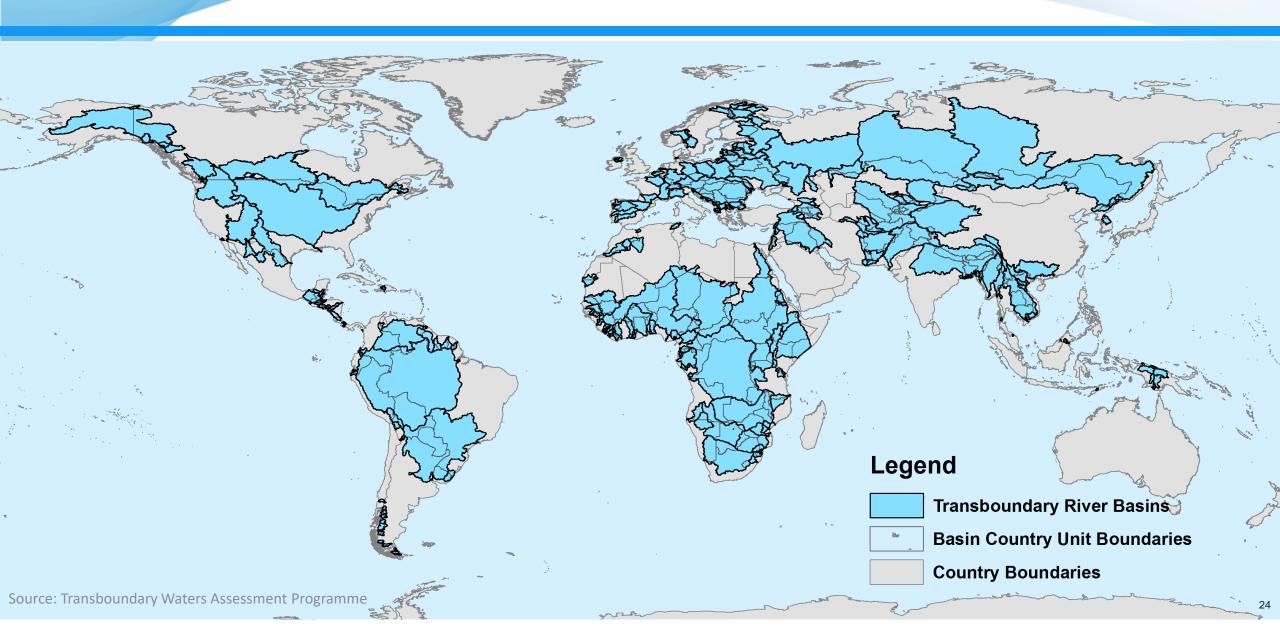


Image: World Economic Forum



Almost 2/3 of global landmass is covered by international river basins



"How governments respond to a water crises, maintain their water infrastructure and regulate users can be just as threatening to water security as a drought or flood."

Paul Reig, Senior Manager, WRI

DANUBE WATER PROGRAM IN A NUTSHELL



- Launched in 2013
- Main donor: Austria

 Federal Ministry
 Republic of Austria
 Finance
- Regional program, covering 16 countries (11 target and 5 participating countries)
- Objective: Supporting the water sector in the Danube Region
- "Smart policies, strong utilities, sustainable services"
- Bank- and Recipient (IAWD) executed activities



DANUBE WATER PROGRAM KEY ACTIVITIES

UN WATER CONFERENCE SIDE EVENT | 24 MARC





Knowledge sharing

NEW YORK, U.S.



Benchmarking

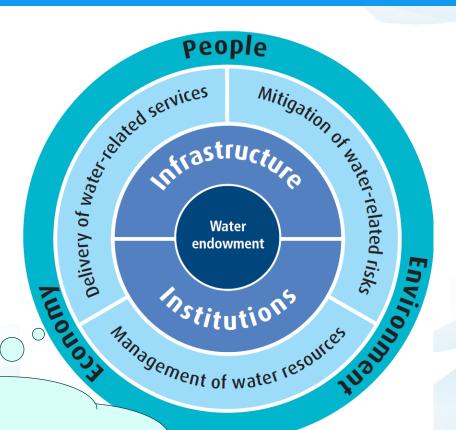


World Bank Water Security Diagnostics Initiative

- Launched in 2017
- Making best use of World Bank's technical experience, instruments, and financial resources
- Produce studies that contribute to discussions with senior policy makers beyond line ministries
- Create narrative on "Water Writ Large" in a country or region
- Diagnostic reports that dive deeper into water challenges in countries to elaborate recommendations for reforms and investments

What is "Water Security"?

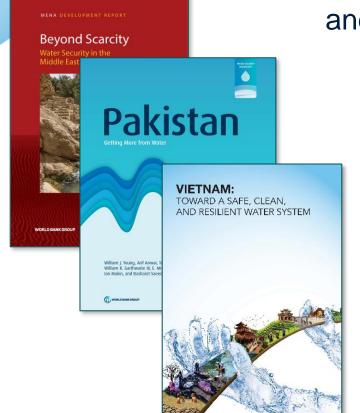
As defined by Grey and Sadoff (2007),
"the availability of an acceptable quantity and quality of water for
health, livelihoods, ecosystems and production, coupled with an
acceptable level of water-related risks to people, environments and
economies."





Water Security Diagnostics Examples for already published World Bank studies

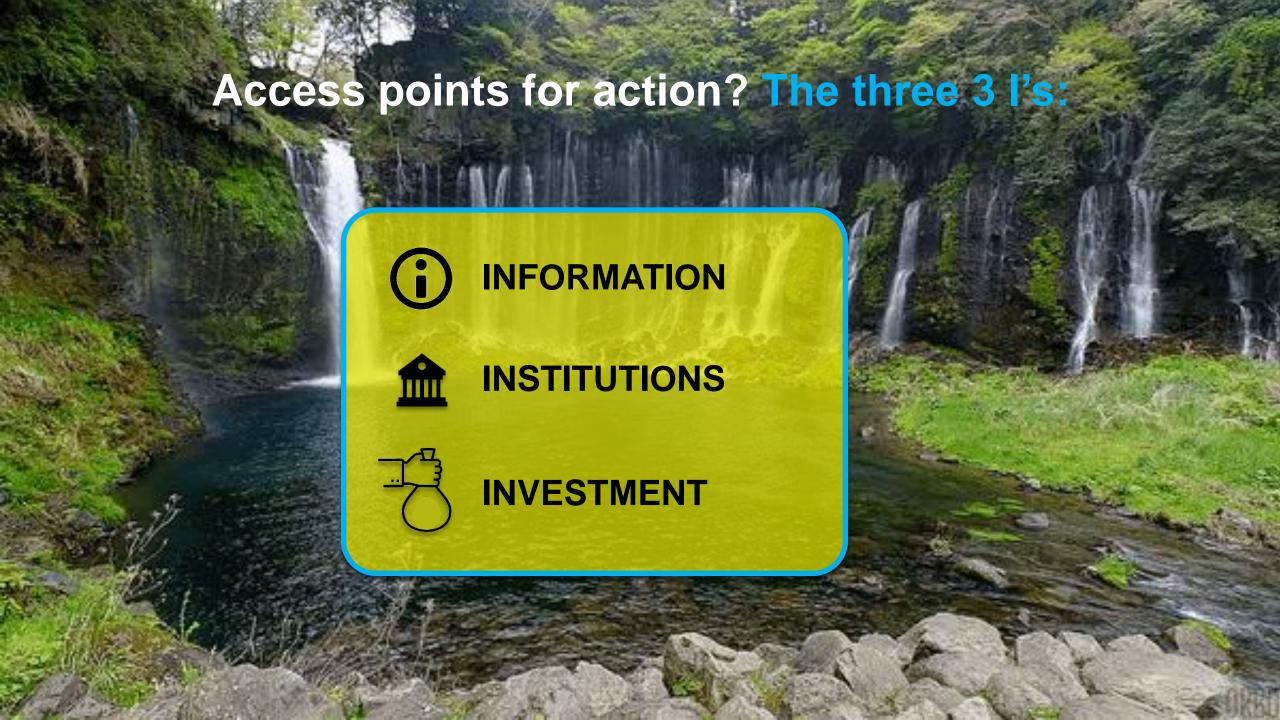
Various water security diagnostics delivered at country and regional levels, meeting growing demand for water security analytics



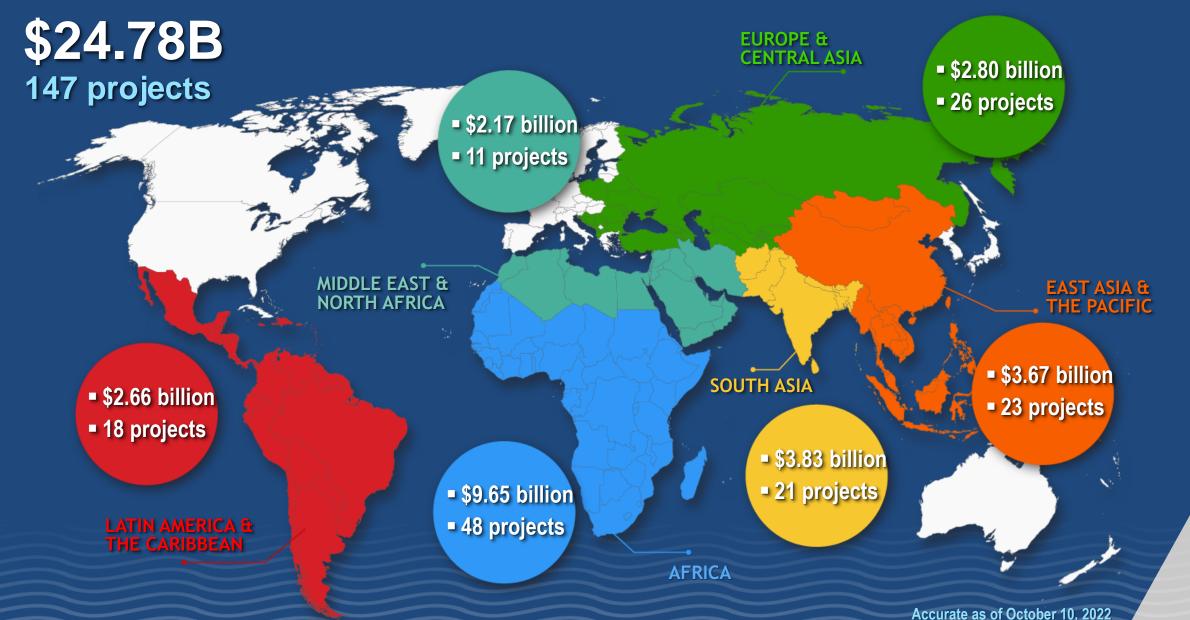




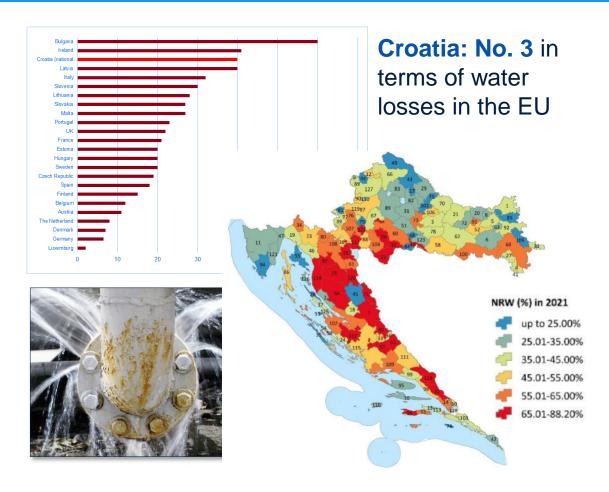




World Bank investments in water



Example: Public water utility sector in Croatia

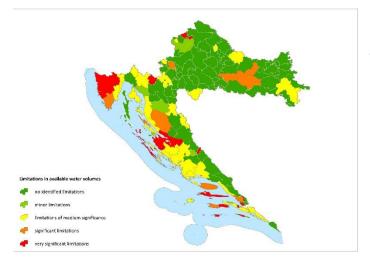


Spatial distribution of the **Non-Revenue Water** (NRW) share in Croatia – current PWSPs level

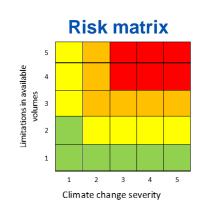
- Connection rate to water supply systems ~ 90%
- Current service areas: 160 Public Water Service Providers (PWSPs); 128 dealing with water supply
- Ongoing reform process for the aggregation of 160 PWSPs to 41
- Average rate of Non-revenue Water (NRW) around 50%, varying between ~ 25% up to around ~ 80% per water utility
- Requirements new EU Drinking Water Directive
- Obligations from EU National Recovery and Resilience Plan (NRRP) for Croatia
- Impacts of climate change on water availability and demand

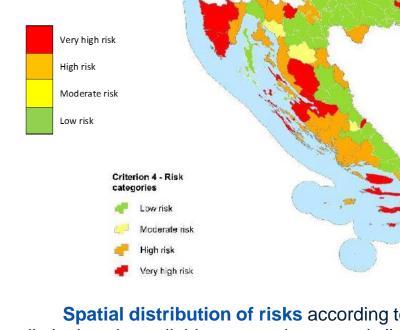


Water availability, climate change scenarios, risks



Limitations in available water volumes











Draft National Loss Reduction Action Plan

Investment needs and potential financing sources

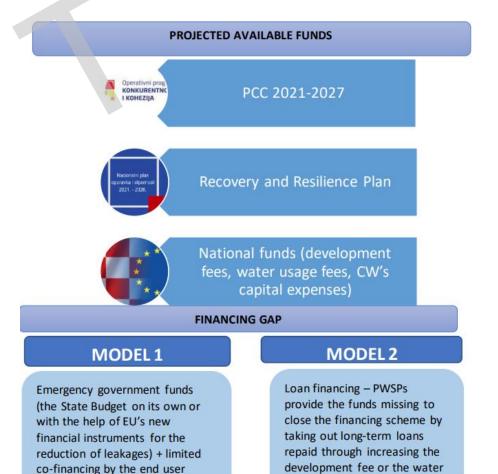
Estimated total financing needs: EUR 1,580 million

Total projected available funds: EUR 675 million

Financial gap: EUR 905 million (or 57% of the total projected investment value of the measures)

Due to significant financial gap, two models are discussed:

- MODEL 1: Emergency government funds and limited funds of the end users
- MODEL 2: Loan financing (IFI loans as a more favorable option or loans from commercial banks) through charging the future water price or through increasing the development fee





Ukraine: Rapid damage and needs assessment



Overall objective: Rapid yet consistent and robust assessment to inform reconstruction and recovery planning





MACROECONOMIC AND POVERTY IMPACTS

The war has taken a severe human, social, and economic toll

- Gross Domestic Product (GDP) shrunk by 29.2 percent in 2022, and—with the continued duration of the war uncertain—is expected to grow by only 0.5 percent in 2023
- Tax revenue collection has deteriorated significantly, and public expenditure increased sharply to ensure delivery of key public services during war time
- 8.1 million people are displaced across Europe (UNHCR, Feb 2023)
- 5.4 million people were internally displaced within Ukraine with protracted (six months+) displacement prevalent (IOM, January 2023)
- Poverty is expected to increase from 5.5 percent to 24.1
 percent in 2022 (based on the poverty line of US\$6.85 per
 person per day), pushing an additional 7.1 million people
 into poverty and setting back 15 years of progress



OVERALL DAMAGE AND NEEDS



GOVERNMENT PRIORITIES FOR 2023



Energy infrastructure

- Restoration and repair of power transmission and distribution lines
- Restoration and decentralization of energy generation
- Strengthening the protection of the power grid

Humanitarian demining (explosive hazard management)

Scaling up demining activities

Housing

· Repairs of flats and private housing

Critical and social infrastructure

- · Renewal of basic housing utilities and digital infrastructure
- · Repairs and reconstruction of transport connections and ports
- Repairs and restoration of social and administrative infrastructure

Private sector

- Guarantees, first loss facilities, lines of credit
- Support to small and medium-sized enterprises and agricultural sector

Thank you!

