

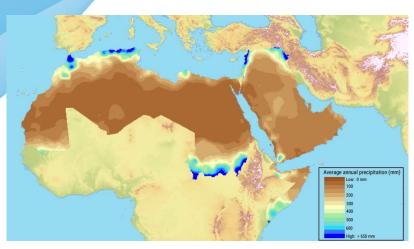
Water financing challenges and opportunities for MENA countries in a context of climate change and water scarcity

Safaa Bahije (Water resources specialist)





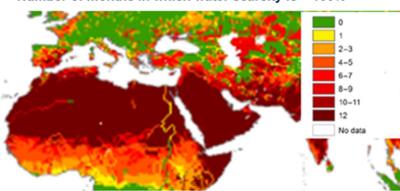
Climate change will severely exacerbate existing water scarcity....

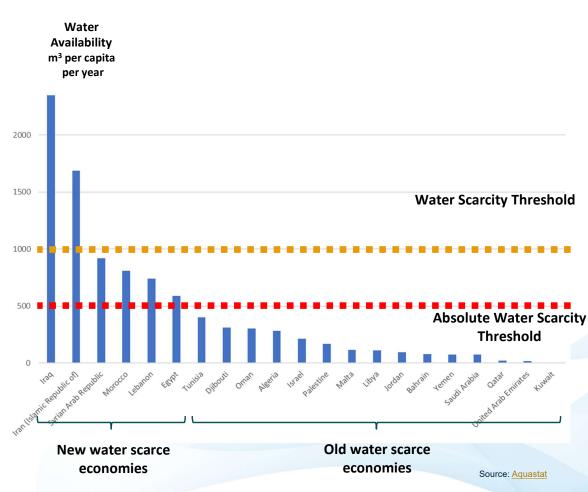


Courtesy: RICCAR. Arab Climate Change Assessment Report. 2017

IPCC studies predict a rise in temperature between 2 and 4° C and a 10 to 30% drop in rainfall by 2080–2099 in the Maghreb.

Number of months in which water scarcity is > 100%

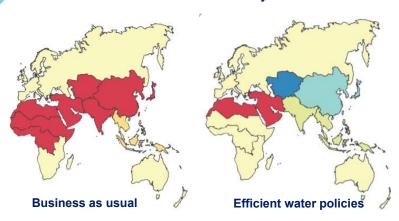




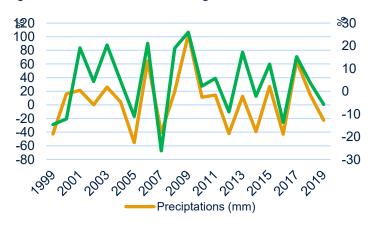


....with significant socio-economic consequences

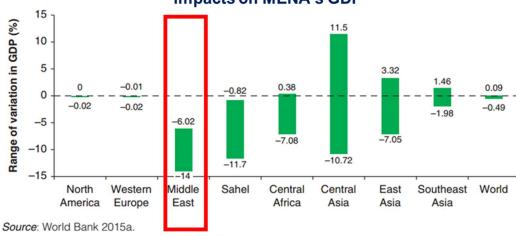
The estimated effects of water scarcity on GDP in Year 2050



Strong correlation between rainfall and agricultural added value in Morocco



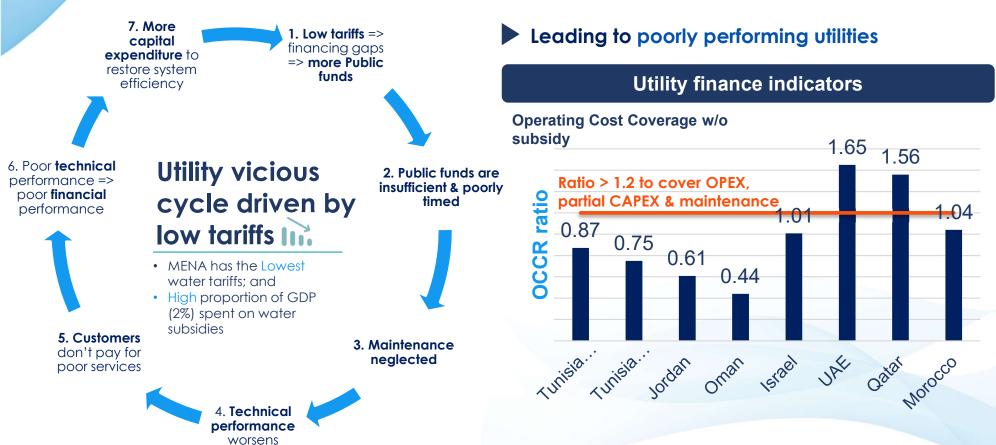
Climate change effects on water will have the greatest negative impacts on MENA's GDP



- Climate change would reduce regional GDP by 6%
- 60% pop exposed to high/very high surface water stress vs 35% globally & population to double by 2050
- Water productivity half of world average, with 60% transboundary resources
- Food security dependent on water, which contributes to displacement and migration

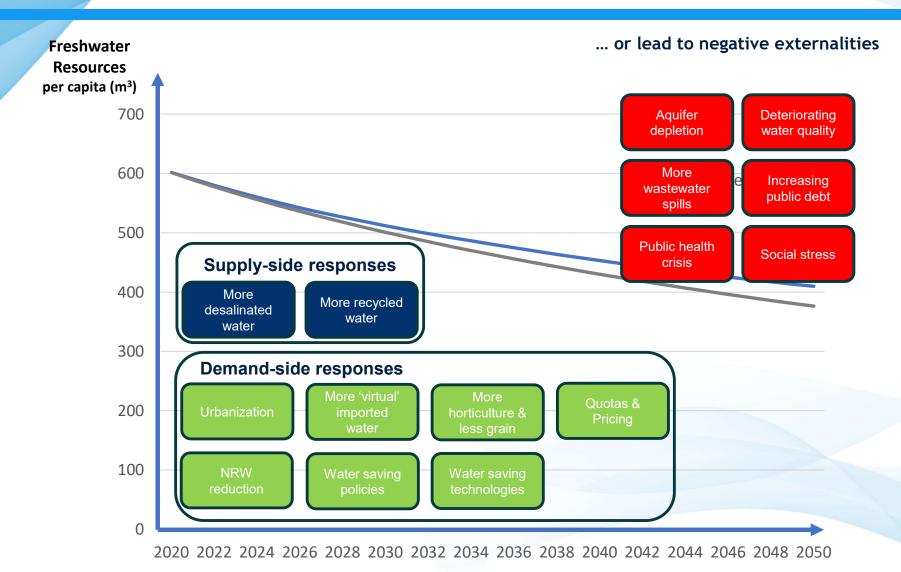


Resources are not valued accordingly





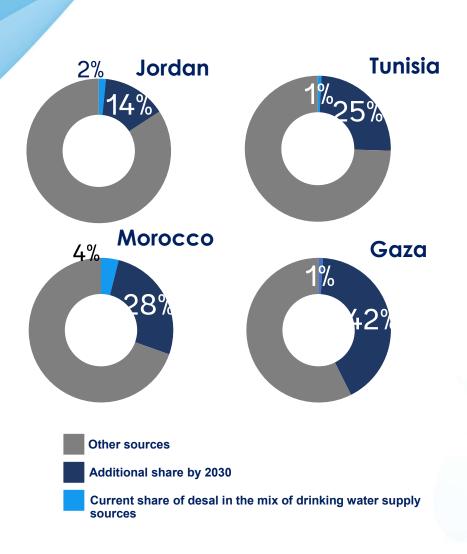
Water scarcity will force continued adaptation ...

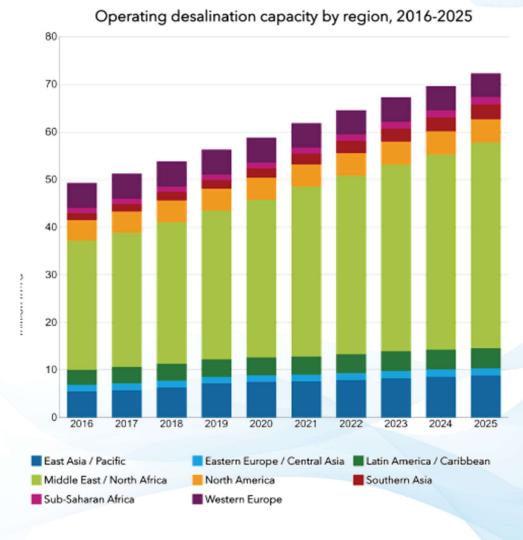






Desalination keeps transforming the water sector







This transformation requires adequate financing

The World Bank Climate Change Action Plan 2021-2025



1 A 69

2



3





4

FOOD SYSTEMS, WATER SECURITY & RESILIENT NATURAL CAPITAL

Shifting to a climate-smart approach to agriculture and natural resource management in MENA is instrumental to achieve food security and preserve nature, while ensuring peace and stability.

ENERGY TRANSITION AND LOW-CARBON MOBILITY

Decarbonizing the energy and transport sectors via increased energy efficiency, renewable energy and clean mobility solutions will avoid significant environmental, health, economic, and trade-related risks.

CLIMATE-SMART CITIES & RESILIENT COASTAL ECONOMIES

Cities and coastal areas are at the frontlines of climate impacts, while being the engines of economic growth. Climate-smart spatial planning and key investments can achieve carbon neutrality and make cities and coastal areas resilient, and inclusive.

SUSTAINABLE FINANCE FOR CLIMATE ACTION

Climate change poses significant financial risks in MENA, compounding elevated levels of macro, banking sector, and debt risk. A green and resilient financial sector can play a key role in mobilizing climate finance and managing risk.

CROSS-CUTTING CONSIDERATIONS

Whole of Government Approach, Social & Spatial Inclusion, Citizen Engagement, Just Transition, Fragility, Conflict & Violence, Private Sector Mobilization, Climate Data & Digital Innovation, Regional Integration



...through innovative tools for Climate Action...

Climate Co-Benefits

35% of total Bank Group financing over the next 5 years will go to support investments in adaptation and mitigation

Concessional Finance

Targets high-impact projects responding to globally significant development challenges from climate change mitigation and resilience to water sanitation

Green Loans

Green loans can help finance the transition to a low-carbon economy and is leaded by IFC / supporting private sector

Sustainable Development Bonds

support the financing of the WB projects in developing countries related to the SDG, ex. Botswana: \$145.5 million to Improve Water Availability in Drought Vulnerable Areas



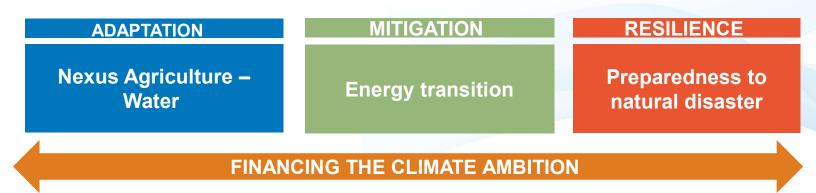
..and deep knowledge for comprehensive solutions

 Advisory Services and Analytics to support countries addressing water related issues and ensure a comprehensive design of the solution

Ex. Country Climate and Development Report (2022) 20 countries among which Egypt, Jordan, Morocco

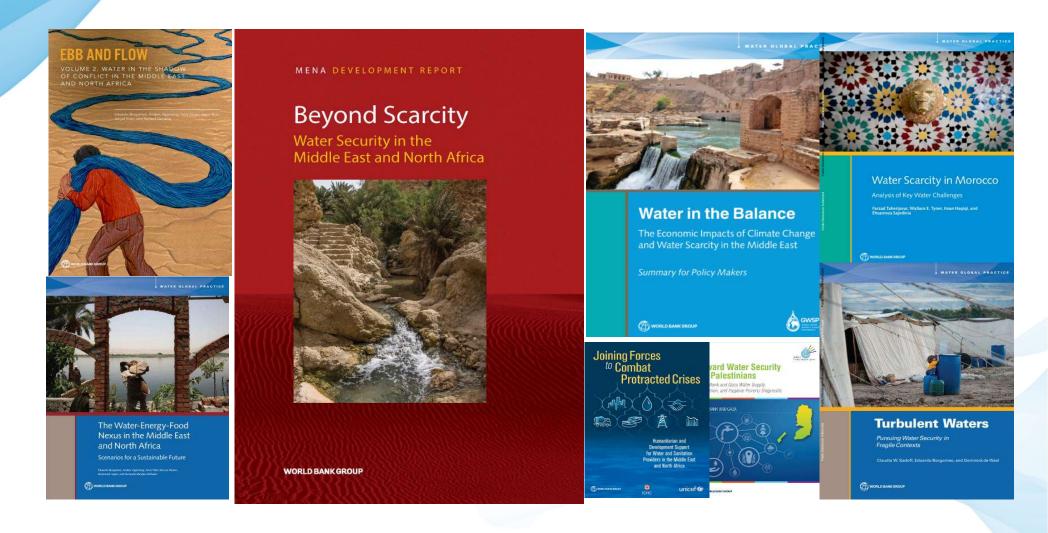
CCDRs will explore 3 broad policy spaces:

- Look at **sectoral and macroeconomic policies** and **investments**
- Examine potential *trade-offs between policies and investments needed* to achieve certain climate objectives
- explore *opportunities, reforms, and policy instruments* to leverage private sector resources and solutions





Ex. reports, best practices and guidelines to provide analysis on major issues : groundwater, water-energy nexus, financial and economic appraisal for desal, transboundary WRM...





Recommendations: What should we focus on?

1. Strengthning water governance

- Strong institutions
- Fair intersectoral allocations
- Robust planning and data

2. Valuing water

- Improve water efficiency
- Improve economic and financial viability of the sector
- More space and incentives for private actors



Thank you!

