

The FAO Regional Initiative on Water Scarcity

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National Drought Management Policy Workshop Cairo, 17-20 November, 2014

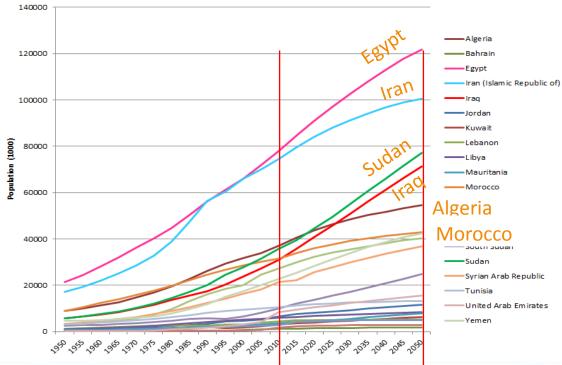


The context

Per capita fresh water availability = 1/6 of world average

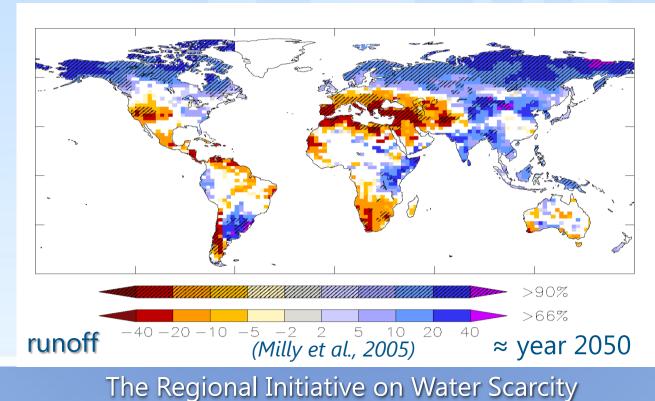
- has decreased by 2/3 over the last 40 years
- ✓ it is expected to decrease of further 50% by 2050

Major drivers population growth (+consumption pattern) climate change





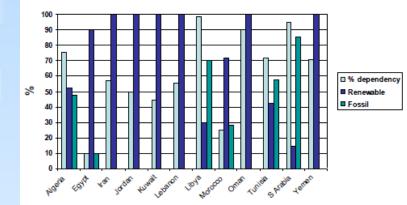
Climate change is expected to accentuate the already severe shortage of water availability ✓ rainfall reduction (and unpredictability) ✓ increasing the crop water requirements





Over 60% of water resources in the Region flows from outside national and regional boundaries

Groundwater has been the basis for the rapid growth in the Arabian Peninsula, but now Countries are facing **excessive depletion**



Competition for water between all sectors is accelerating



Degradation of water quality is mounting





Major Thrusts

The Near East and North Africa, already one of the most water scarce Regions in the world, may be facing over the coming years the most severe intensification of water scarcity in history

Agriculture, using already > 85% of available fresh water resources in the region, will be the sector suffering most from water scarcity, with major consequences for food security and the rural economy

NENA countries have made relevant progress in the management of their water resources but these improvements are still not commensurate with the real dimension of the problem



The Water Scarcity Initiative

The Regional Initiative on Water Scarcity in Near East and North Africa (WSI) has been established by FAO to support countries in identify, develop and implement:

- evidence-based policy-decisions
- sound governance and institutions
- cost-effective water investments
- best management practices

so that agriculture water use efficiency and productivity, and food security as well, can be significantly improved in the region

...innovation is key



- A *Regional Collaborative Strategy* among the NENA Countries
- A Strategic Partnership, actions-oriented and results-based, to generate a critical mass of 'capacities' for 'impact-at-scale'
- Forward-looking ways of visioning *future trajectories of development* for strategic planning of water allocation
- *Evidence*-based approaches
- *Farmers* as full partners (commercial operator and ultimate manager of soil and water)
- Involvement of *private sector* (food value chain, *technology*)
- Effective synergies in *innovation* and *learning* (from farmer-to-farmer exchange of solutions, practitioners as main actors)
- An *inclusive* approach to change



Focus Areas of Work

- Strategic planning & policies of water resources for water and food security (including a water-food-energy nexus approach)
- Strengthening/reforming governance at all levels
- Improving water management, performances and productivity in major agricultural systems (rainfed and irrigated) and in the food chain
- Managing the water supply through reuse and recycling
- Climate change, resilience, DRR and droughts management
- Building sustainability, with focus on ground water, pollution and soil salinity
- Benchmarking, monitoring and reporting on water use efficiency and productivity



The Partnership

ACSAD - Arab Center for the Studies of Arid Zones and Dry Lands **AOAD** - Arab Organization for Agricultural Development AWC - Arab Water Council **CEDARE** - Center for Environ. and Develop. for the Arab Region and Europe **CIHEAM** - International Center for Advanced Mediterranean Agric. Studies **DRC** - Desert Research Center **DWFI** - Daugherty Water for Food Institute **GIZ** - German Cooperation Agency **ICARDA** - International Center for Agricultural Research in the Dry Area **ICBA** - International Center for Biosaline Agriculture **IWMI** - International Water Management Institute LAS - League of Arab States **NWRC-Egypt** - National Water Research Center **UNESCO** - UN Educational, Scientific and Cultural Organization **UNESCWA** - UN Economic and Social Commission for Western Asia WB - World Bank WFP - World Food Program

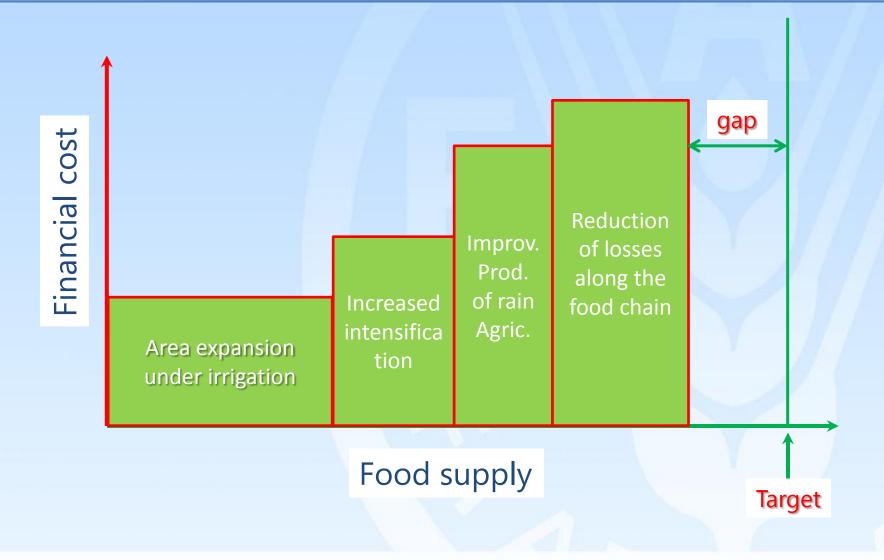


Staring in the fall 2013, Six countries (Egypt, Jordan, Morocco, Oman, Tunisia and Yemen) applying the initial analytical framework of the WSI:

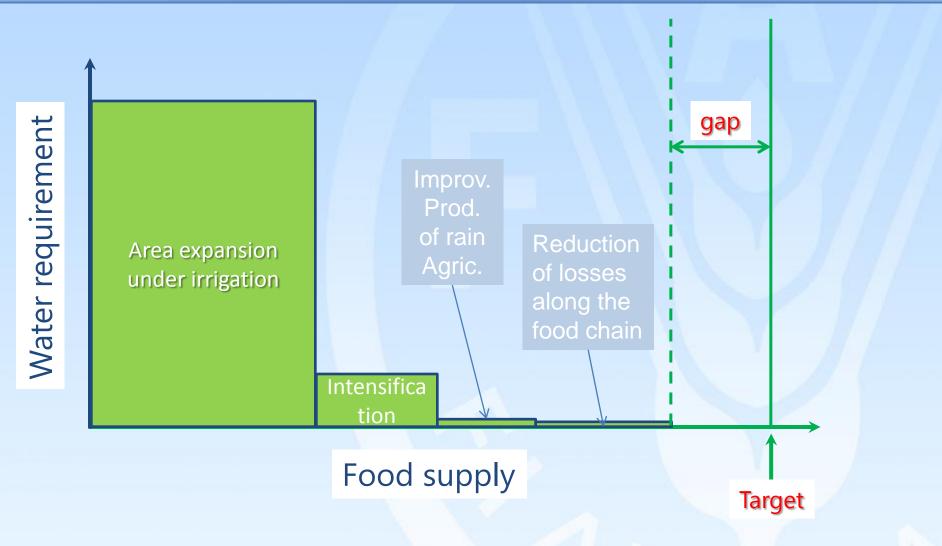
'water accounting' (availability, use and projections)

- 'food supply cost curve' (identification and ranking options for future food supply and related economic and water costs)
- 'gap analysis' (investigating policies, governance and performance of agriculture water management)











Concluding Remarks

Initial US\$ 20,000 have been mobilized for the biennium 2014-15

- We are counting on a FAO multi-disciplinary team of about 50 members
- About 22 'actions' have been activated in the Region
- Particularly on Climate Change and Drought, we are working with the League of Arab States and UNCCD (addressing also desertification)
- Large programmes are in the pipeline for 2015







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