



Concurrent Session 2 :

Food, Water and Climate Change

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Snapshot on Water and Food situations in North Africa

- The Near East and North Africa fresh water decreased by 2/3 during last 40 years and are expected to fall over 50 percent by 2050.
- 90 percent of the total land in the region lies within arid, semi/arid and dry sub/humid areas, while 45% of the total agricultural area is exposed to salinity, soil nutrient depletion and wind water erosion.
- Agriculture uses approximately 85 percent of the total available freshwater.
- Over 60 percent of water resources in the region flows from outside national and regional boundaries
- Climate change, unequal distribution of water, high urbanisation rates and national development activities have led to increased water demand. One of the greatest challenges is to provide enough water to sustain the food demands from a fast-growing population.
- Water scarcity results in higher food prices and food access can become grave concerns for many — especially for rural communities, farmers, and people in poverty or internally displaced groups.



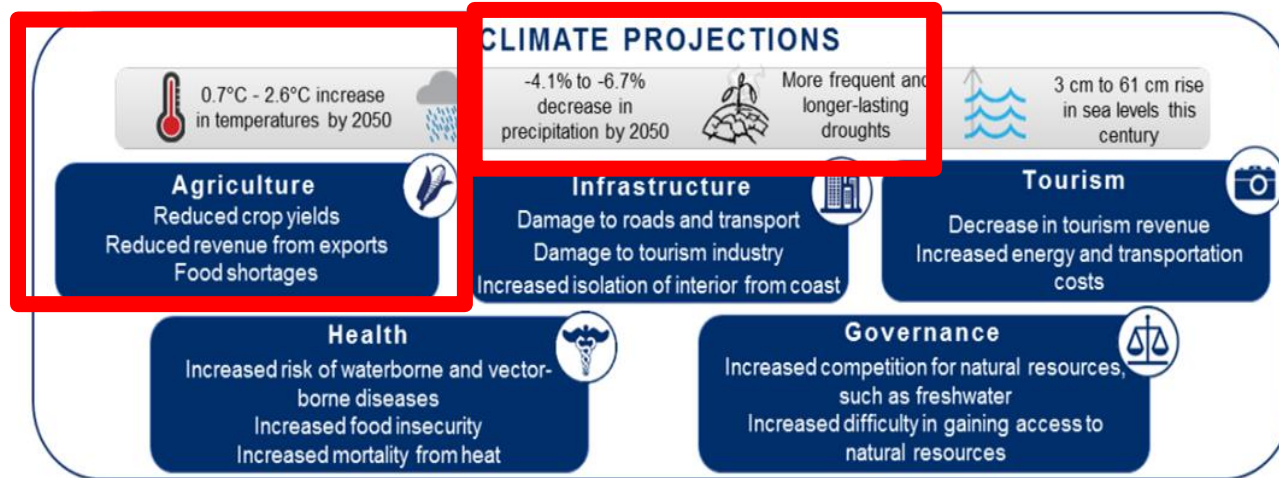
FAO, 2020

CLIMATE CHANGE RISKS

Implications on Water and Agriculture sector: Example of Tunisia

2023: A severe drought that affected most parts of the country in Tunisia, especially the south and the center, due to low rainfall and high evaporation rates. The drought caused water shortages, crop failures, livestock losses.

Projections for 2050:



How to mitigate the Climate risks on water and food security

- **The transdisciplinary approach and the support of all levels of collaborations: across sector, across region, across disciplines to expand the knowledge and understanding of the climate risks on the water and food security**
- **The use of the Nexus Approach and the responsible governance and the use of the WFE NEXUS**
- **The use of innovation and innovative solutions to ensure climate resilience**
- **Support the most vulnerable community to engage in the climate resilience solutions**

Example of Relevant Actors



YOUTH Leadership in Climate Action

Liaison to ECRs' Networks



- 1-international platform
- 2- Creates opportunities
- 3- Organizes activities and building capacities
- 4- Partners with international organisations

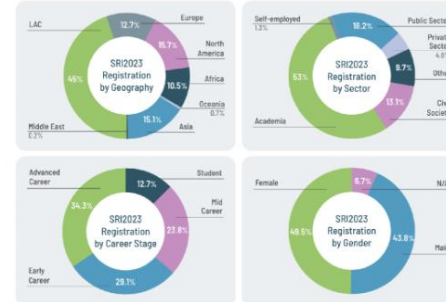
Contribution to high level debates - contribution to the IPCC report



YES, APECS, PYRN, MRI, and PAGES ECN coordinated an IPCC group review by Early Career Researchers (ECRs) for the 6th Assessment Report (AR6) by the Intergovernmental Panel on Climate Change (IPCC).

Building Capacity and training

Platform for engagement



93.1% of our SRI2023 participant survey respondents said that they will or might attend SRI202

Thank You

for

Your Attention

Thank You

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