

# AWARE Initiative @CoP27

*Action for **W**ater **A**daptation and **R**esilience*



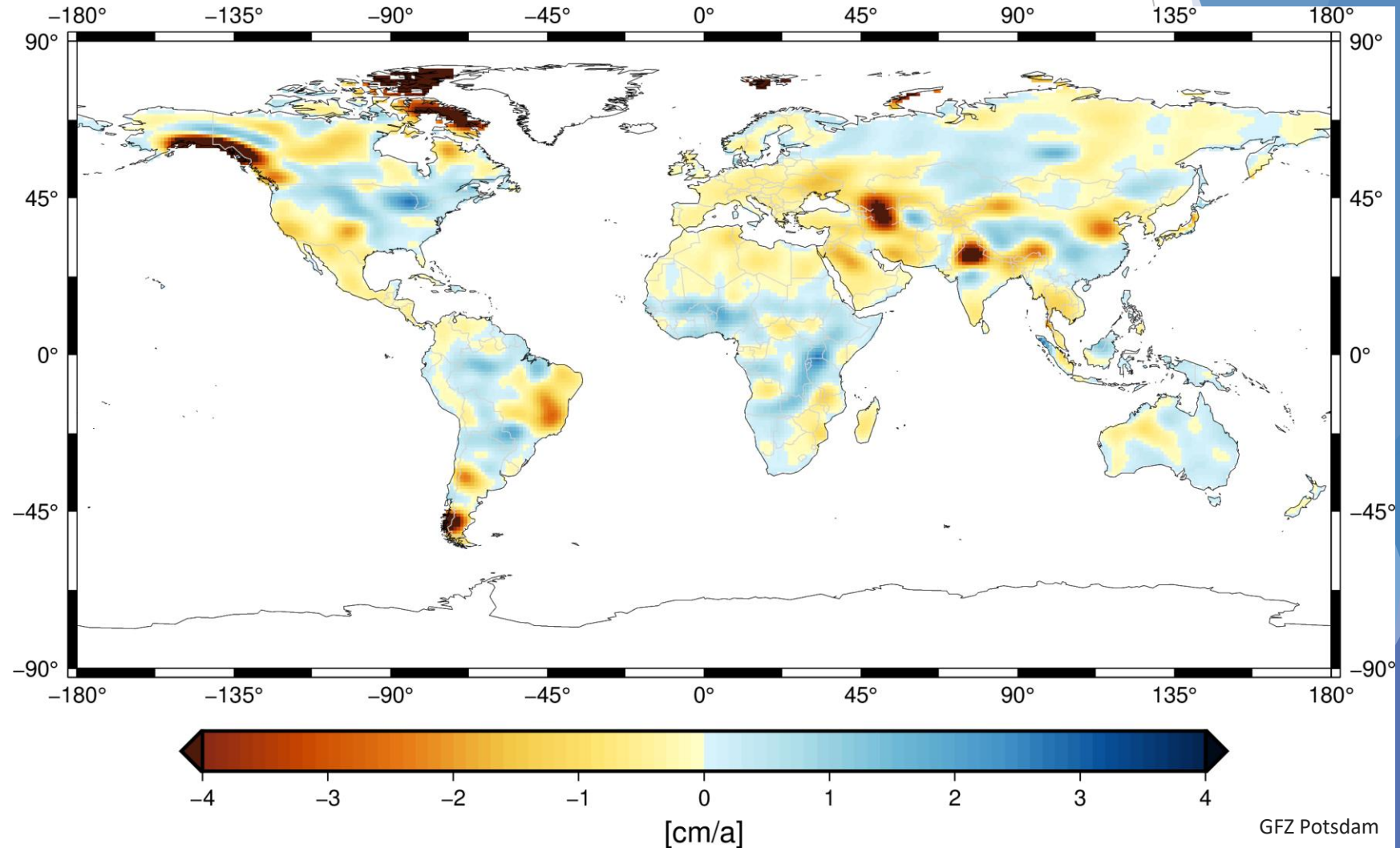
**COP27**

SHARM EL-SHEIKH  
**EGYPT 2022**

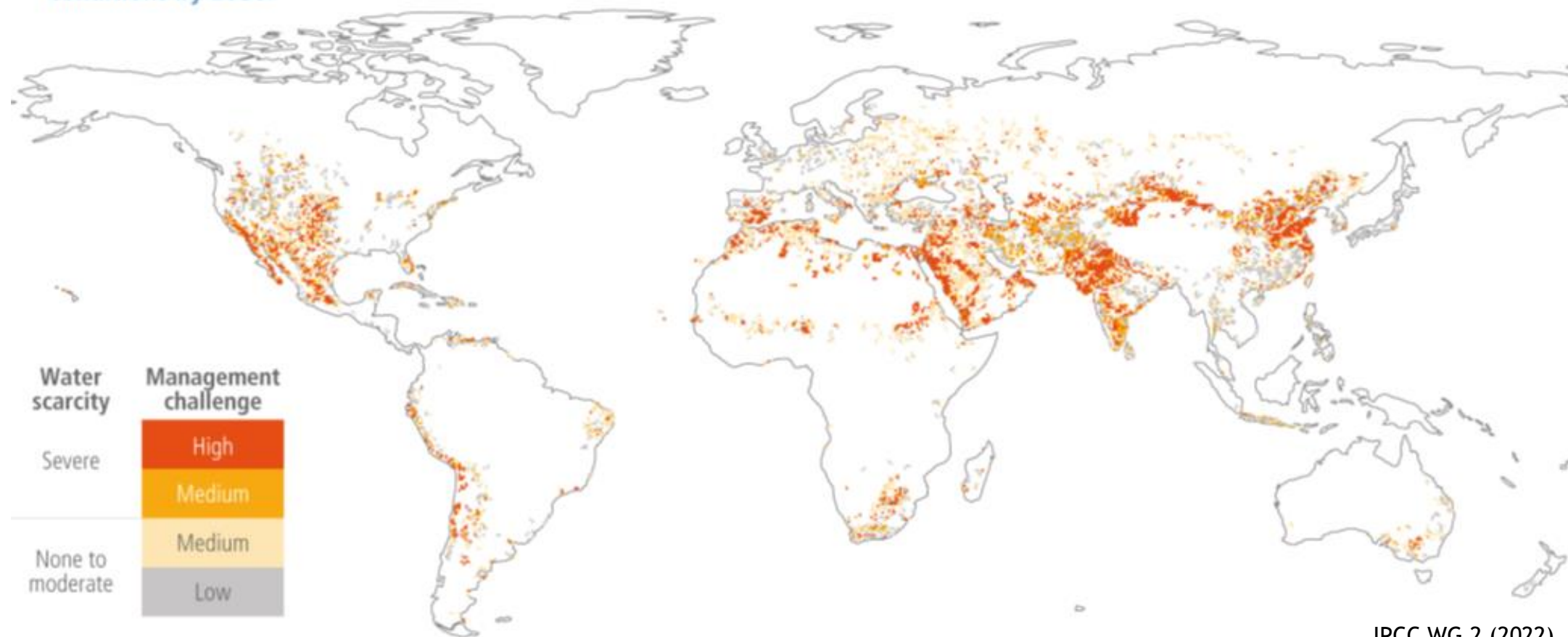
# Why AWARE?

Total water storage - last 20 years

Loss 1 cm of  
water  
equivalent/  
year































































(d) Drought is exacerbating water management challenges which vary across regions with respect to anticipated water scarcity conditions by 2050.



IPCC WG 2 (2022)

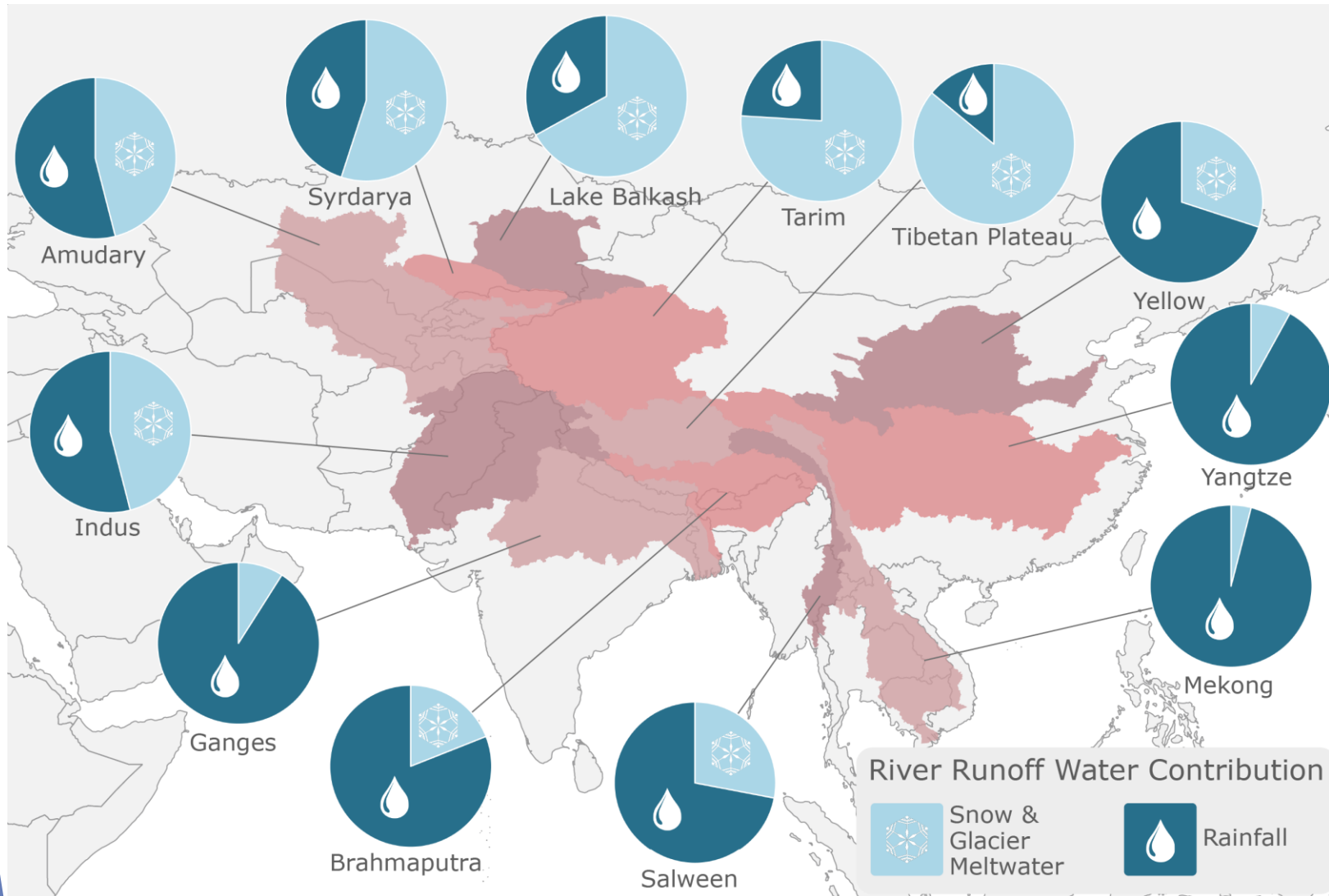
(b) Observed impacts of climate change on human systems across regions.

Human System

	Global	Africa	Asia	Australasia	Central and South America	Europe	North America	Small Islands	Mediterranean regions	Arctic	Cities by the sea	Mountain regions
 Water scarcity <sup>1</sup>										na	na	
 Agriculture/crop production losses											na	
 Inland flooding & associated damages <sup>7</sup>											na	
 Flood/storm induced damages in coastal areas <sup>8</sup>												na
 Damages to infrastructure									na			

IPCC WG 2 (2022)

# Knowledge priorities that we need to address

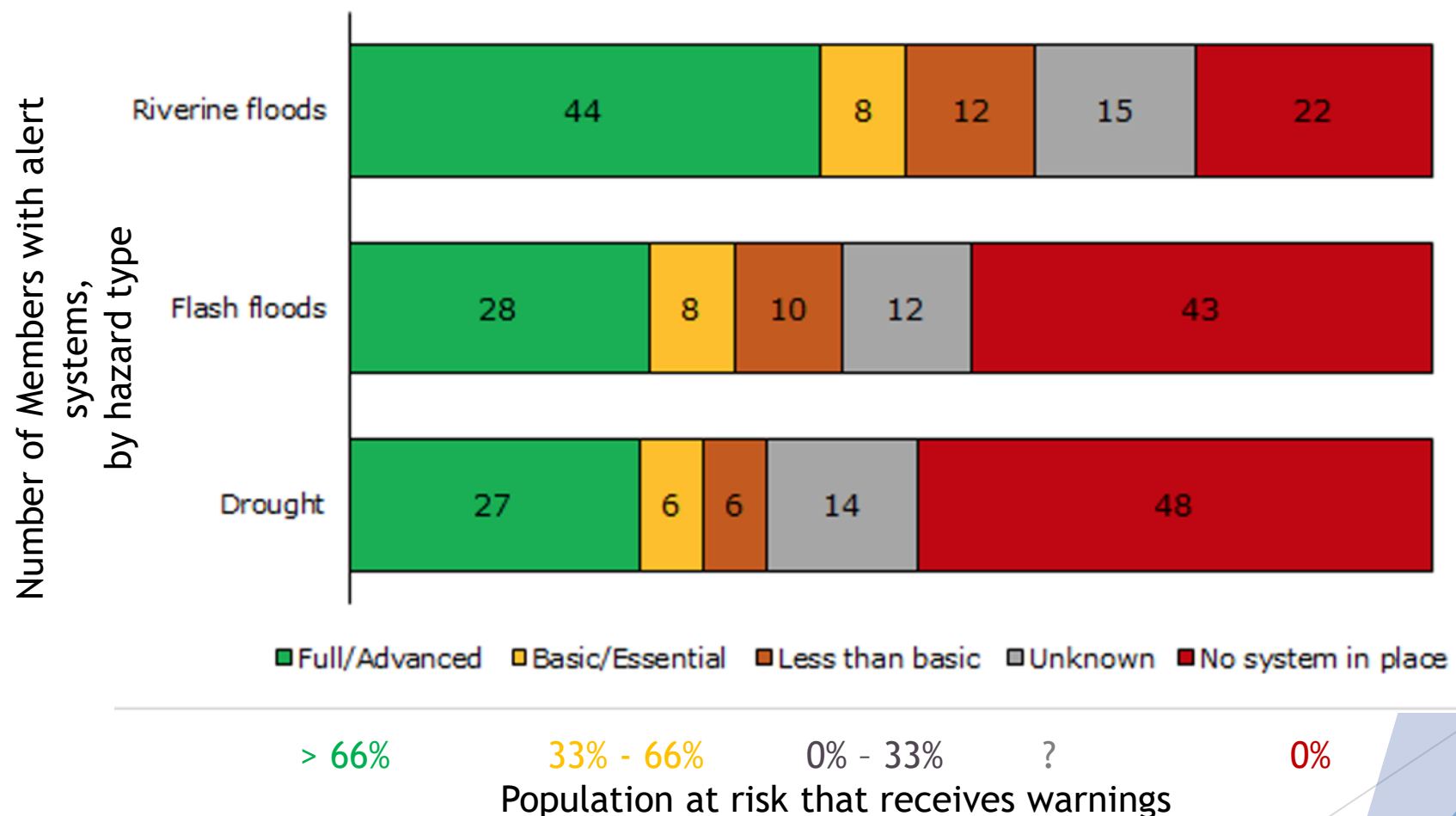


- How to support societies to understand and adapt to changing water resources, as glaciers and snow caps melt?

Basin scale contributions from snow and glacier meltwater to major river runoff - Asia



# Population at risk must receive warnings



**46% of Member States have inadequate drought and flood forecasting systems**  
**Only 33% are reaching 2/3 or more of the population at risk**

# General Description

- ▶ The initiative will **catalyze inclusive cooperation to address water as a key to climate change adaptation and resilience** including partnerships for early warning systems and early action. It aims at **offering transitional adaptation solutions** for the planet and people, starting with the world`s most vulnerable communities and ecosystems, in the African region as a first step.
- ▶ The presidency considers the **initiative raising call for ambition, implementation and practical action for cooperation** that includes information sharing, capacity development, water governance, joint investments in water observation and adaptive water management systems, joint studies and evaluation of optimal regional water adaptation options and best possible water management options for enhancing carbon uptake on the land surface. It also **provides a neutral, objective context for evaluating national and regional water resources** for food, energy and water demand and supply against an analysis of future water scarcity and related development of green and grey water storage.

# Vision

- ▶ **By 2030, inclusive cooperation for water adaptation** is supporting water, ecosystem and land management, water storage, disaster risk reduction, food security, sustainable energy transition and other related sectors.
- ▶ **Integrated water and climate action is standard practice in SDG related action and the Paris Agreement context** and all members have capabilities to take stock of their **current water budget and their future water demand/supply** as well as the relevant forecasting, early warning and planning capabilities to secure food and energy supplies, manage floods, droughts and water-related hazards and harness environment and society to address water impacts of climate change.



# Mission

- ▶ Support water policies;
- ▶ Provide, where possible, means of implementation;
- ▶ Operational tools (e.g. early warning systems, monitoring systems, information platforms);
- ▶ Methods for climate change cooperative & inclusive action.

# Proposed workstreams

- ▶ Water resources policies
- ▶ Trusted monitoring systems
- ▶ Improved early warning systems
- ▶ Optimal solutions to integrate water and climate action
- ▶ Green water and GHG accounting
- ▶ Cooperative analysis of river basin scale adaptation options
- ▶ Tools to agree on sharing burden and benefit
- ▶ Joint investment programmes
- ▶ **Commitment to multilateral cooperation within the framework of** i.e. UNECE ,ESCWA, UNEP and UNESCO) under SDG-6 target
- ▶ **Local, national and institutional capacity development** including risk analysis, crisis prevention, communication, inclusion
- ▶ **Private-public partnerships** to integrate water and climate stewardship programmed, catalyze and deliver long term commitments to increase effectiveness of climate and water smart investments in food, energy and transport sectors; (depending on the national priorities)
- ▶ **Innovation** to provide data, analysis, methodology to assess water/climate risks and to provide low cost, low tech solutions for improving productivity.

# Delivering actions:

- ▶ Establishing centers of water and climate adaptation that covers different regions
- ▶ Coordinated financial support to local, national and regional activities on irrigation, drought resistant crops, least water, soil and carbon consumption per calorie... etc.)
- ▶ Organize regional cooperation on research and innovation, especially with a focus on the water and food nexus
- ▶ Support countries in water resources assessment and water accounting
- ▶ Support countries in water reporting and provide information for a *global water report which will be launched at CoP27 onwards*
- ▶ Trainings, technology transfer, knowledge exchange, roundtables and outreach activities
- ▶ Issue flood and drought warnings at regional level and cooperate with national authorities to improve their early warning systems, seasonal forecasting abilities and outlook capabilities
- ▶ Develop and maintain a voluntary, neutral global water and food monitoring and information platform and publish a regional water report annually
- ▶ Publish transparent and objective economic analyses of water management and climate smart food production with a view to lower carbon and methane emissions (could amend the IPCC WG2)
- ▶ Integrate existing activities, initiatives and coalitions (Marrakech Partnership Climate Action Pathway Water, Adaptation Action Coalition, Water and Climate Coalition.....) based on a consultative process to ensure that different water and climate related COP initiatives are coordinated and synchronized
- ▶ Publish information on a neutral platform, brokered by the UN
- ▶ Innovation sprints for farmers, vulnerable communities

# Deliverables:

- ▶ Reversing loss of water from the land surface;
- ▶ More crop per drop, less Co2 per calorie;
- ▶ Invest additional XXX USD into cooperative regional water action per year from global climate finances based on climate friendly and water efficient agricultural practices;
- ▶ 50% less damage from floods and droughts by 2030;
- ▶ Joint monitoring and analysis partnerships cover the whole region/world;
- ▶ 50% increase in number of regional operational cooperation frameworks;
- ▶ Cost of maladaptation and benefit of integrated regional adaptation quantified;
- ▶ Reducing the methane emissions resulting from lakes and reservoirs pairing with the methane global pledge;
- ▶ Increasing the amount of desalinated water from renewables to cities to make them more sustainable.

**Thank you for your attention  
and see you at the Water Day  
at CoP27, Sharm El-Sheikh  
Nov. 6 to 18 2022**

*Kindy send your inputs to the CoP27 Water Initiative by 10 July to:*

menna.moustafa@cop27.eg  
marilique@clim-eat.org