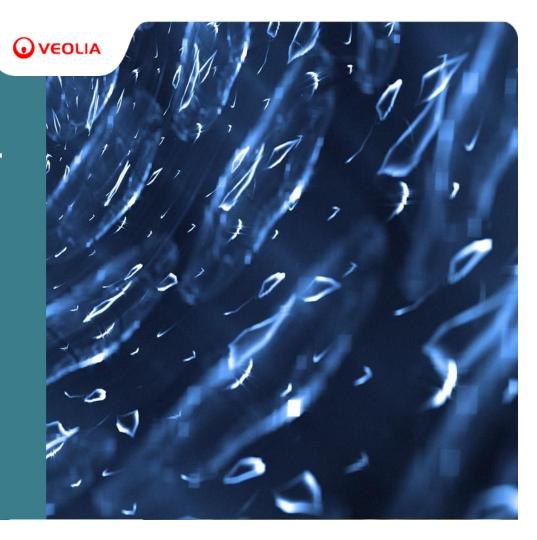
GLOBAL AND REGIONAL MEGATRENDS

WATER SCARCITY

May 2024 Marina Arnaldos, PhD, MBA



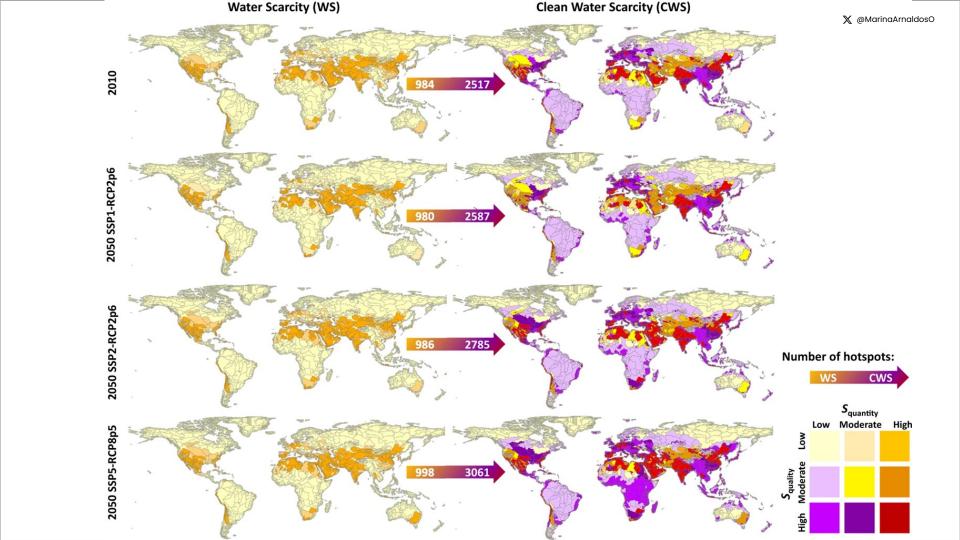
Some Facts

2 to 3 billion people globally experience water shortages annually

Urban population facing water scarcity is projected to double by 2050, reaching 1.7 to 2.4 billion people

26% of the global population lacks safe drinking water, and 46% do not have access to safely managed sanitation







Key Sectors Impacted

Agriculture:

Impact extends to food security, influencing both local markets and global food prices.

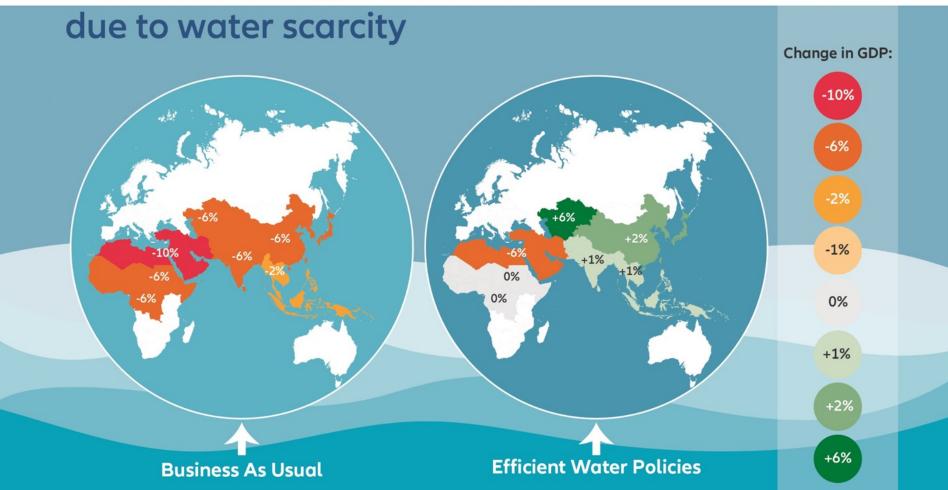
Water-intensive industries:

Potential disruptions in manufacturing processes can lead to decreased production efficiency.

Municipal Water Systems:

Rising costs for water treatment and infrastructure maintenance.

Estimated change in 2050 GDP



Tipping Points

Unsustainable Water Withdrawal:

Economic implications include increased competition for water resources.

Aging and Failing Infrastructure:

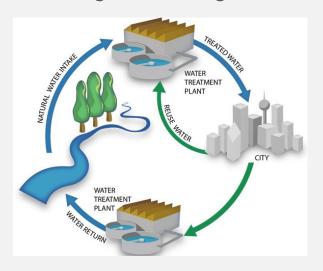
Urgent need for investments in infrastructure to prevent widespread water service disruptions.



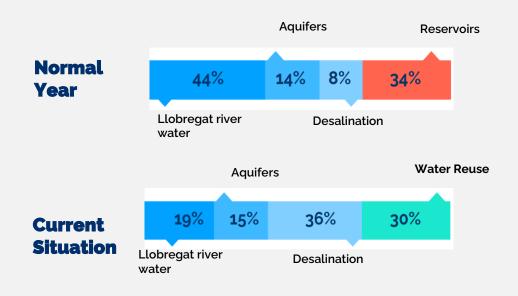
Mitigation and Adaptation Strategies **GOVERNANCE** NATURE-BASED **WATER REUSE SOLUTIONS**

Focus on Water Reuse

What is Water Reuse? We provide an additional treatment to wastewater so it can be used again (and again, and again).



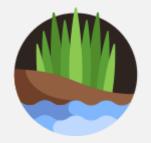
Barcelona's New Paradigm (severe drought)



Nature Based Solutions



Watershed ecological management



Urban drainage & floods protection with wetlands, ponds & floodparks



Resources preservation through aquifer recharge & natural storage



Ecosystems protection with vegetated buffer at WWTP outlet



Industrial waste water management



River & coastal renaturation



Moving Forward

Improvements in water governance have been key in solving previous world crises Together, we will make it! But we need to act NOW

Public-Private partnerships at the heart of the solutions in the new water paradigm Key to enabling fast deployment of financing, innovation and capacity



building

THANK YOU!