



The United Nations World Water Development Report 2020

WATERAND CLIMATE CHANGE

The scientific evidence is clear: the climate is changing and will continue to change, affecting societies and the environment. Climate change will affect the availability, quality and quantity of water for basic human needs, threatening the effective enjoyment of the human rights to water and sanitation for potentially billions of people.



How climate change

impacts society through water





Health

Risks of water- and vector- borne diseases

increase. The range of the mosquitoes

responsible for dengue fever has risen

by approximately 10% since the 1950s





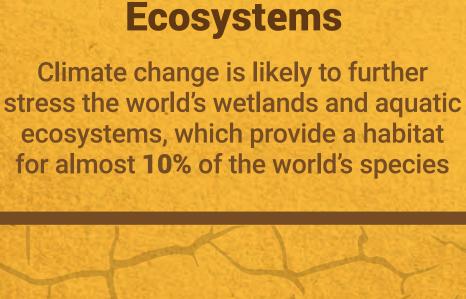
Water supply

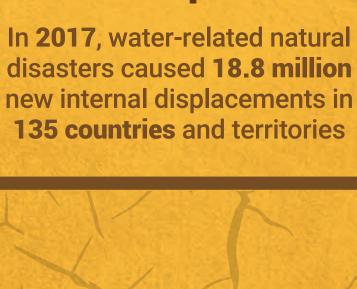


135 countries and territories



Poverty





Addressing climate change through water

Adaptation and mitigation are complementary strategies for managing



and reducing the risks of climate change and increasing resilience

Climate Mitigation

Human interventions that

reduce the sources or

enhance the sinks of

greenhouse gases

Enhanced

Climate Adaptation

A combination of natural, engineered,

and institutional measures to

moderate harm or exploit beneficial

opportunities from climate change

water storage



Adaptation

Mitigation



Increase

soil carbon

sequestration

Conservation

Better retain

soil moisture

promotes maintenance of a permanent soil

biodiversity (adaptation). These techniques

and better retain soil moisture (adaptation).

cover, minimizes soil disturbance and enhances

increase soil carbon sequestration (mitigation)



risk, improving water quality, recharging groundwater, supporting fish and wildlife, and providing recreational and tourism benefits. **Water purification**

Flood protection

Recreation and tourism



Policies and agreements Given water's role in mitigating and adapting to climate change, water could play a connecting role across the SDGs and across

policy frameworks such as the Paris Agreement.



In 2016, only 2.6% of climate finance went to water management. Integrating adaptation and mitigation planning into water investments can make them more appealing to climate financiers.

Climate finance

Knowledge, education and capacity building There is a need to expand research, to promote the development of

practical analytical tools and innovative technologies, and to build the

institutional and human capacity required to foster informed, science-based decision-making.



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Healthy wetlands store carbon while simultaneously reducing flood **Biodiversity Carbon sequestration**

Enhance water supply

WETLANDS

4.2 billion people do not have acces to safe sanitation and 80% of all wastewater globally is released without treatment Treating the organic matter in wastewater reduces greenhouse gas emissions while potentially generating biogas as a source of renewable energy

Wasterwater treatment and reuse

