



Ministry of Foreign Affairs

Climate Action

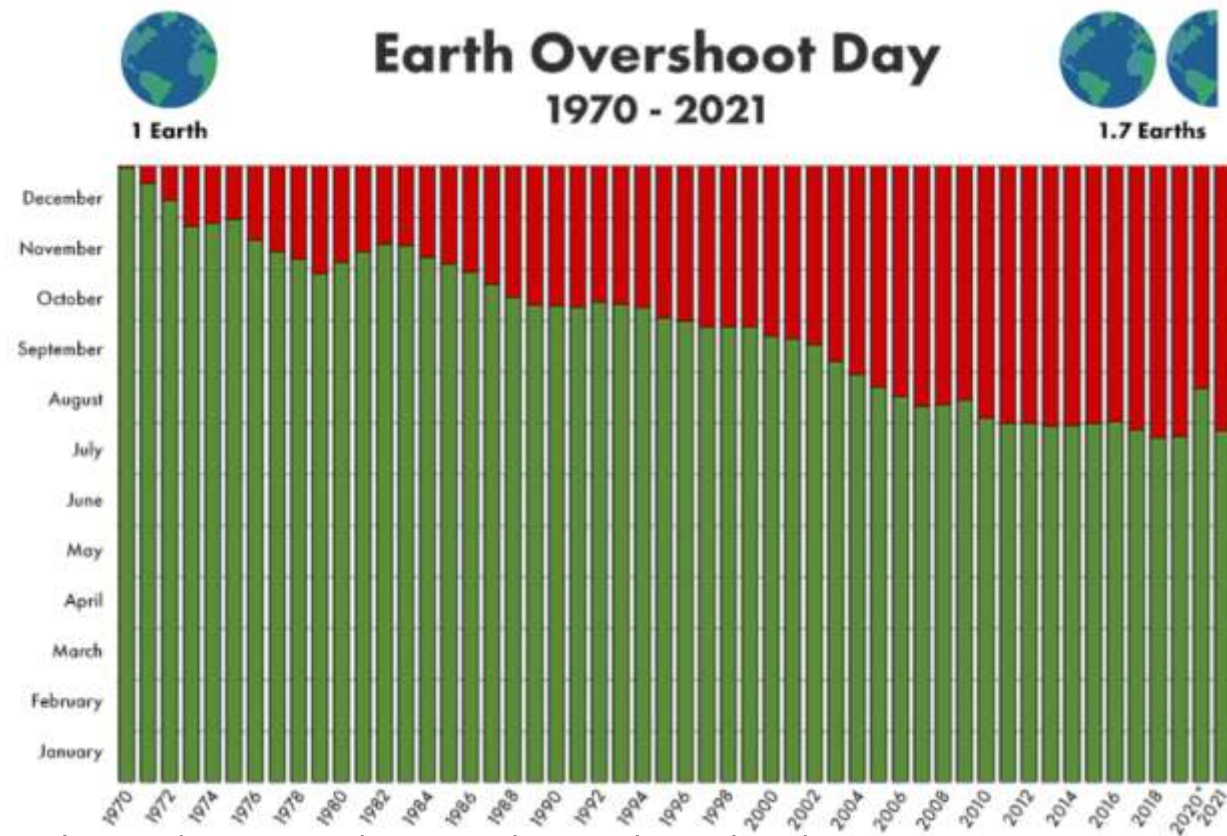
Water, Energy and Food key for resilience

Jacob Waslander
Envoy to the Middle East and North Africa
For Water, Energy and Food

14-03-2012



Earth Overshoot Day



Source: <https://www.overshootday.org/newsroom/past-earth-overshoot-days/>

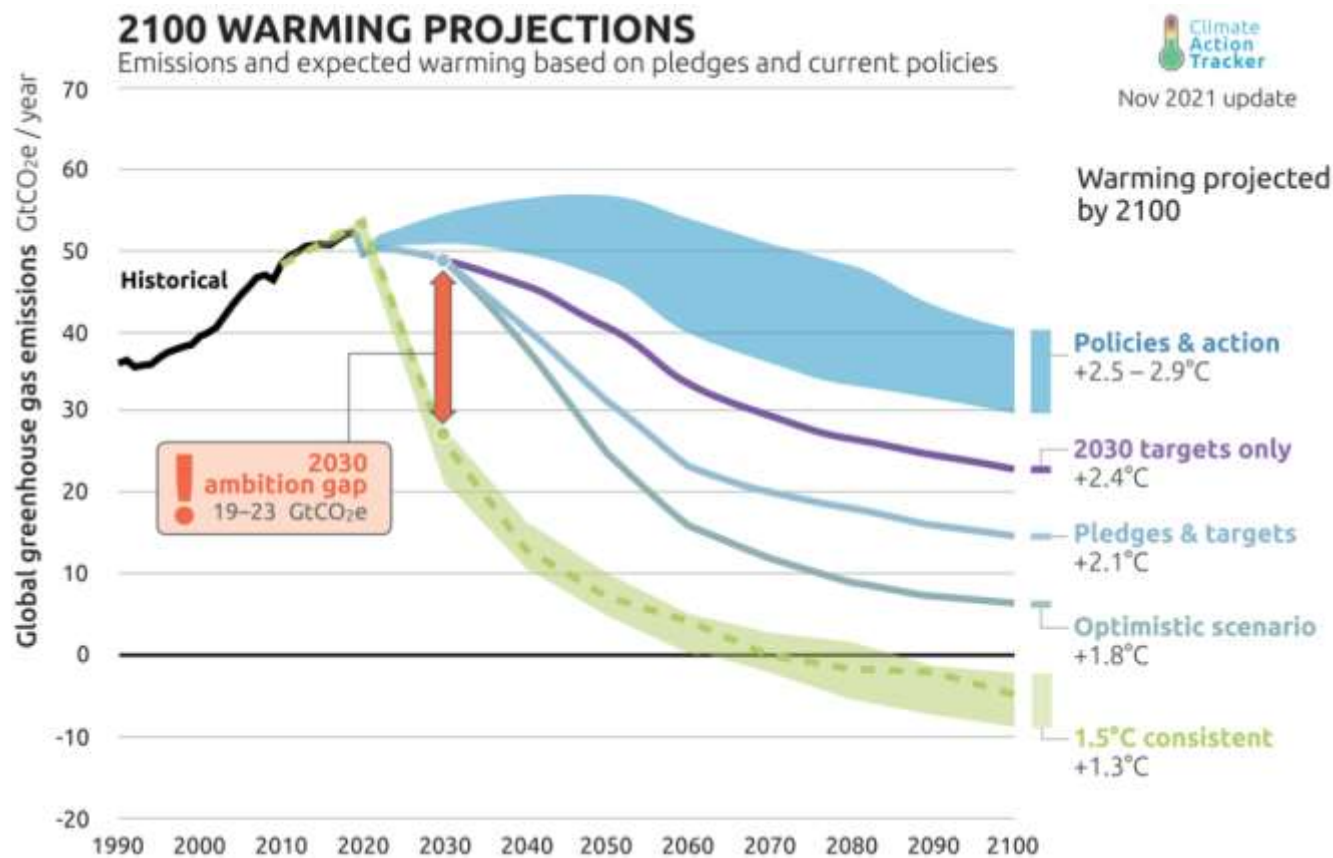


Climate Risks are existential...

Scientists and analysts consider 3⁰C global warming to be catastrophic, perhaps leading to outright chaos in the relations between nations...

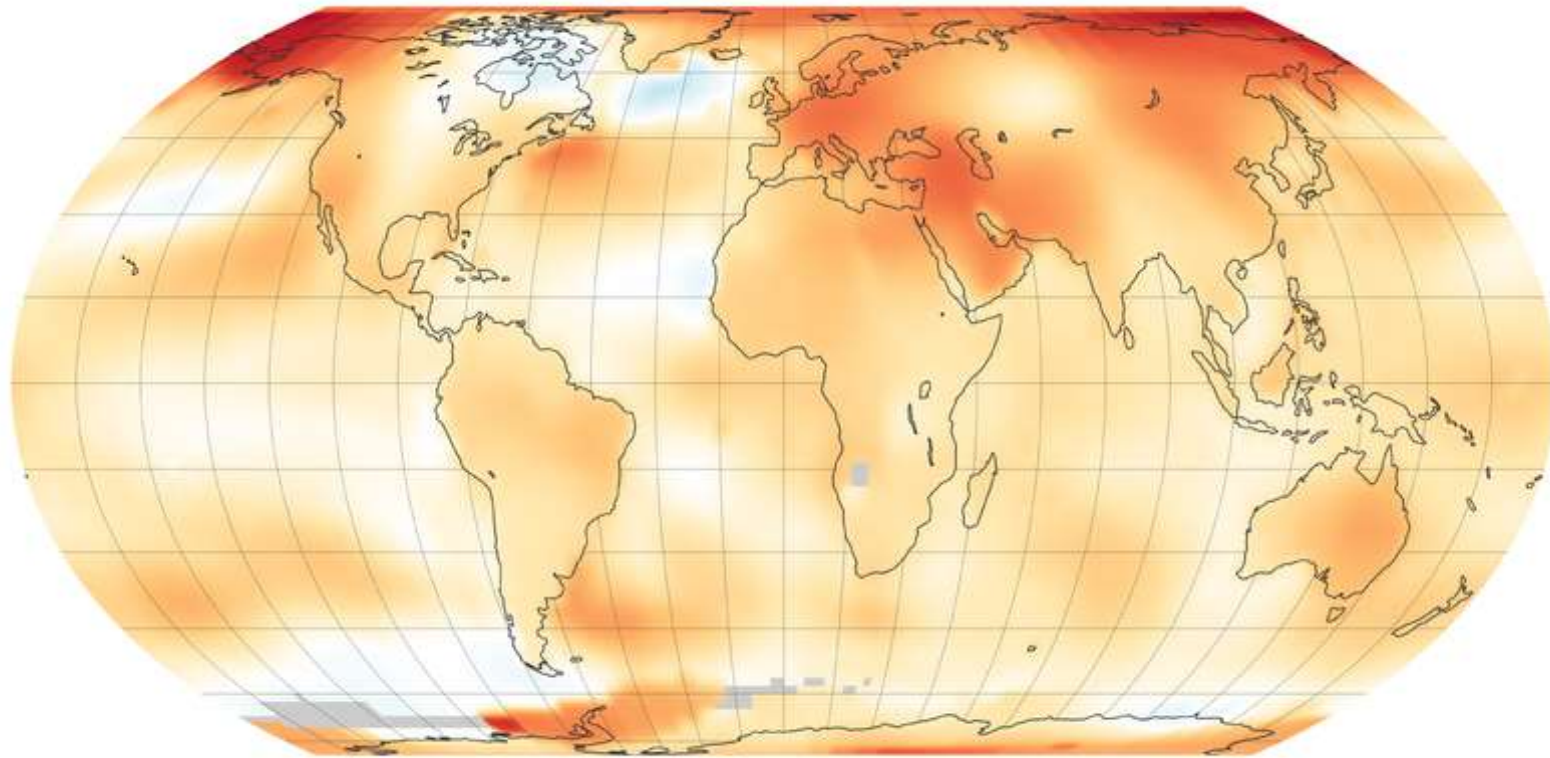


Global Warming Projections





Temperature records Arctic and MENA





UN Secretary-General Antonio Guterres

... called IPCC's recent report **"an atlas of human suffering and a damning indictment of failed climate leadership."**

Source: press conference UNSG on 28 February 2022



Global warming leads to increased risks

Source: 6 Big Findings from the IPCC 2022 Report on Climate Impacts, Adaptation and Vulnerability; WRI 27 February 2022 by Kelly Levin, Sophie Boehm and Rebecca Carter

COMPARING RISKS FROM RISING TEMPERATURES: EXPLAINING THE IPCC'S WORKING GROUP II REPORT (AR6)

	1.5°C	2°C	3°C	1.5°C vs 2°C	1.5°C vs 3°C
BIODIVERSITY LOSS Maximum percentage of species at high risk of extinction across forests and land	14%	18%	29%	1.3x WORSE	2.1x WORSE
DROUGHT Dryland population exposed to water stress, heat stress and desertification	0.95B PEOPLE	1.15B PEOPLE	1.29B PEOPLE	200M MORE PEOPLE	340M MORE PEOPLE
FOOD SECURITY Costs for adaptation and residual damage to major crops	\$63 BILLION US	\$80 BILLION US	\$128 BILLION US	\$17B MORE	\$65B MORE
FIRES Increases in burnt area across Mediterranean Europe	40-54%	62-87%	96-187%	1.6x WORSE	3x WORSE
EXTREME HEAT Increase in number of days per year with a maximum temperature above 35°C (95°F)	45-58	52-68	66-87	1.2x WORSE	1.5x WORSE
EXTREME HEAT Increase in annual number of heatwaves in Southern Africa	2-4 TIMES	4-8 TIMES	8-12 TIMES	2x WORSE	3.3x WORSE
SEA LEVEL RISE Global mean sea level rise by 2100	0.28-0.55m	0.33-0.61m	0.44-0.76m	1.1x WORSE	1.4x WORSE
FLOODS Increase in global population exposed to flooding	24%	30%	NO DATA AVAILABLE	1.3x WORSE	NO DATA AVAILABLE
CORAL REEFS Further decline in coral reefs	70-90%	99%	NO DATA AVAILABLE	1.2x WORSE	NO DATA AVAILABLE

Note: For climate risks with projected ranges, we used the midpoint of the ranges to compare risks at different temperature thresholds. Sea level rise projections correspond to SSP1-1.9, SSP1-2.6, SSP2-4.5, which are roughly approximate to global warming of 1.5°C, 2°C, and 3°C, respectively.

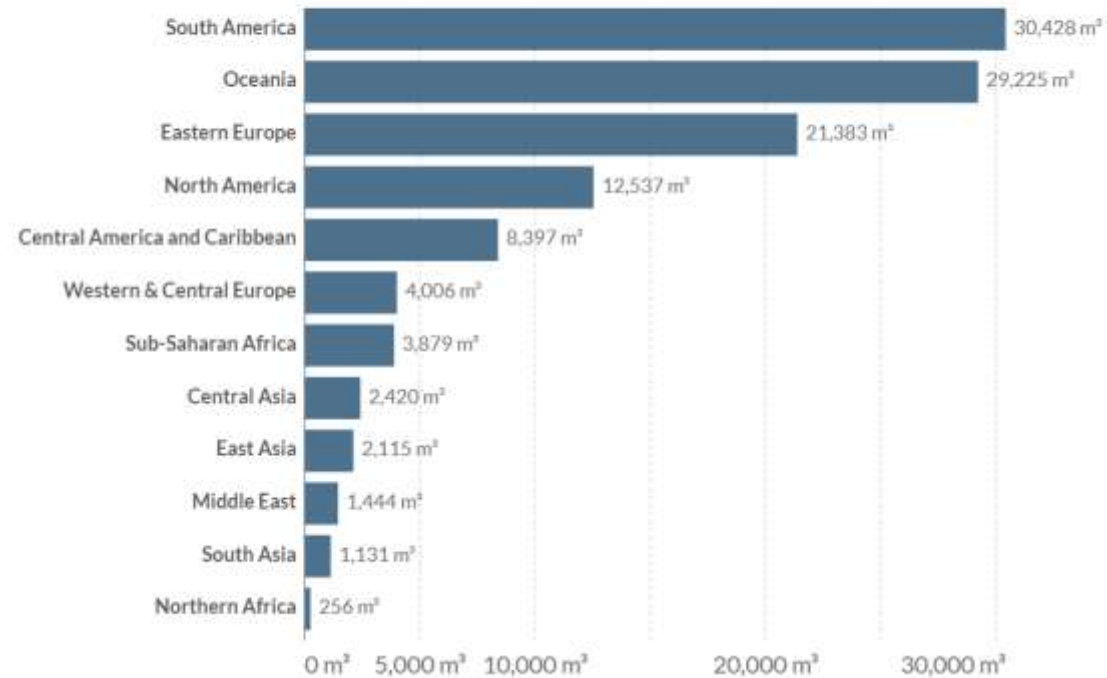


Freshwater resources per region

Per capita renewable freshwater resources, 2015

Our World
in Data

Average renewable freshwater resources per person, measured in cubic metres per person per year. Renewable internal freshwater resources refers to the quantity of internal freshwater from inflowing river basins and recharging groundwater aquifers.



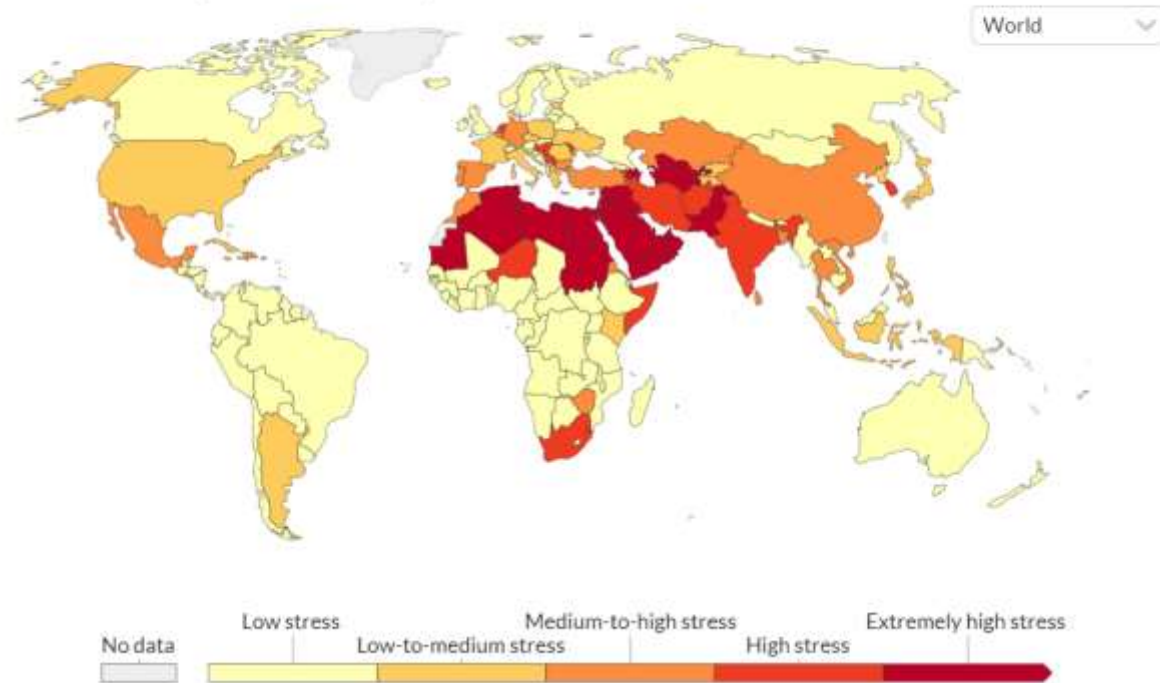


Water Stress

Freshwater withdrawals as a share of internal resources, 2017

Annual freshwater withdrawals refer to total water withdrawals from agriculture, industry and municipal/domestic uses. Withdrawals can exceed 100% of total renewable resources where extraction from nonrenewable aquifers or desalination plants is considerable.

Our World
in Data





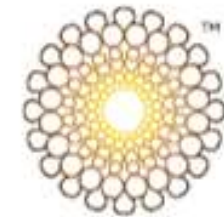
Water Energy Food Nexus Summit, Dubai



Kingdom of the Netherlands



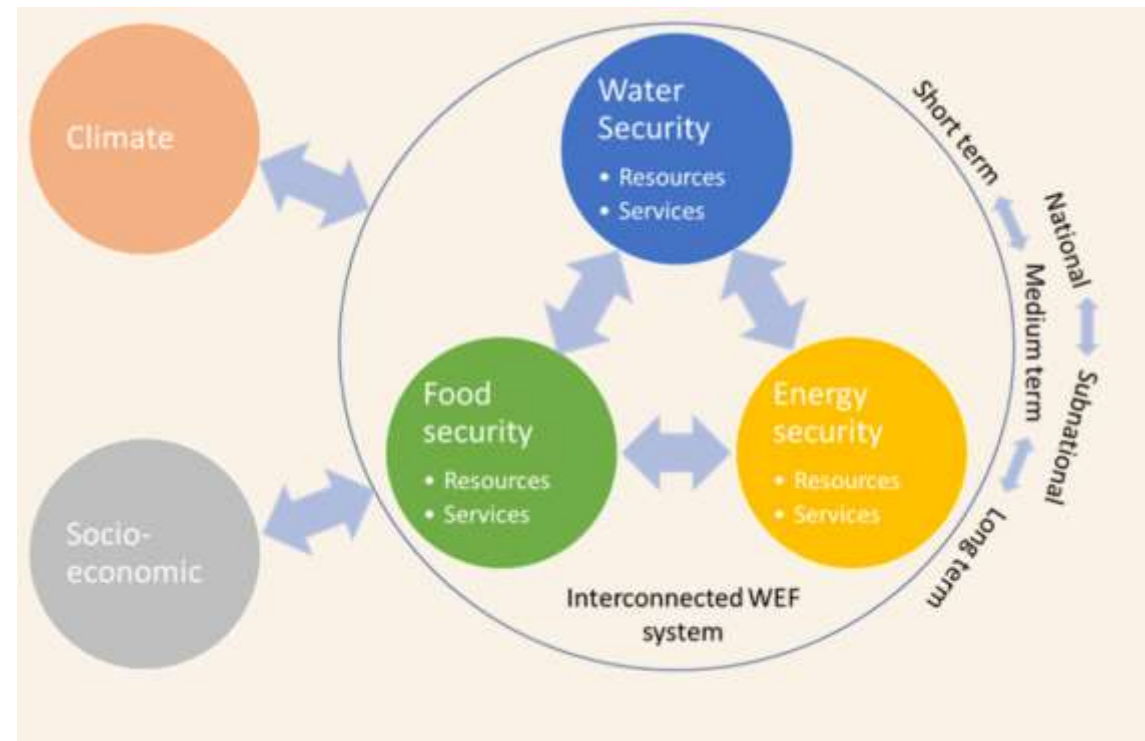
COMING FULL CIRCLE | WATER-FOOD -ENERGY SUMMIT
Live in Balance – Sustainability Track
Global Goals Week



**EXPO
2020
DUBAI
UAE**



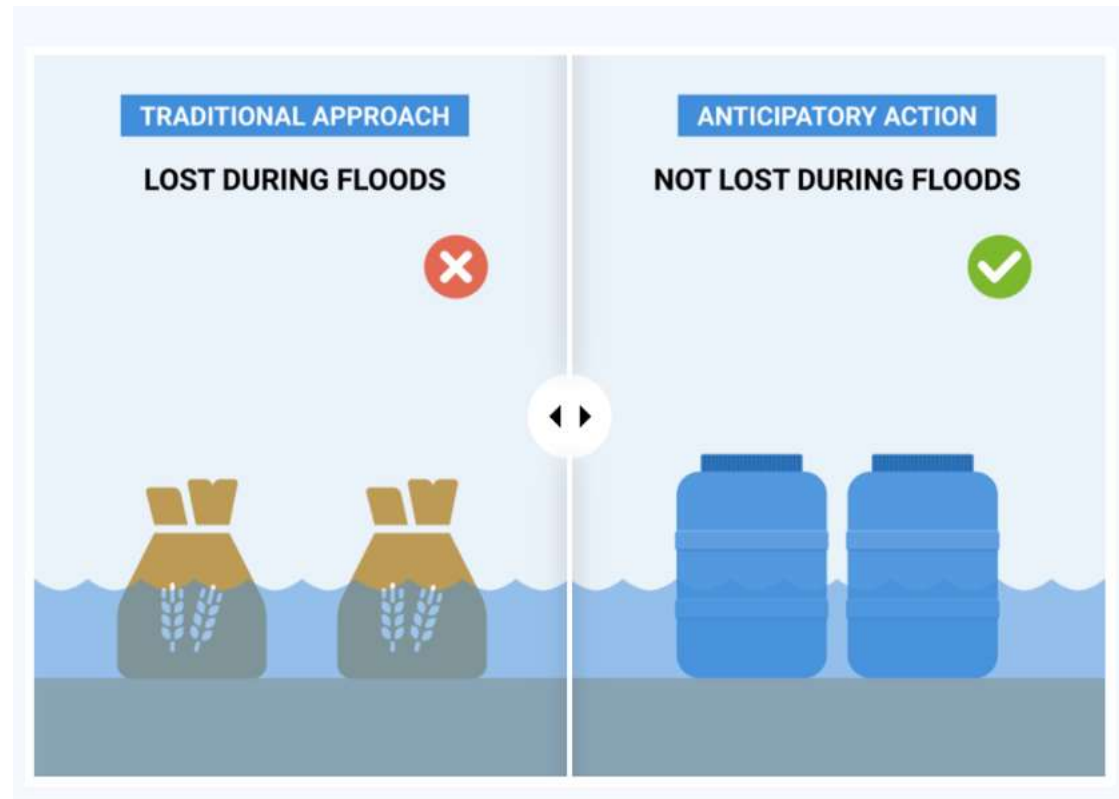
Water Energy Food Nexus, Three case studies



Source: [WUR, Deltares, TNO: Case studies Water, Energy, Food nexus \(arcgis.com\)](https://www.arcgis.com)



Humanitarian Assistance: Adaptation, and Resilience



Source: UNOCHA, [Anticipatory Action Toolkit](https://www.unocha.org)
([unocha.org](https://www.unocha.org))



DUTCH RELIEF ALLIANCE

Humanitarian Assistance: Adaptation, and Resilience

			
			
			
			
<p>In partnership with:</p>  <p>Ministry of Foreign Affairs of the Netherlands</p>			

Source: Dutch Relief Alliance. Innovation Update, December 2020



Messages

Climate Change impacts our livelihood NOW

- a. NDC and NAP ambition and implementation
- b. adaptation and resilience, water and heat stress!
- c. work in partnership: government – business – science – civil society

Humanitarian Assistance:

- a. prevention of urgencies
- b. strengthen resilience
- c. Innovate and bring to scale