Is climate change adaptation all about water?



International conference | 25-26 April 2023 | Brussels

Back to the Basics?



The water cycle, including direct human interventions

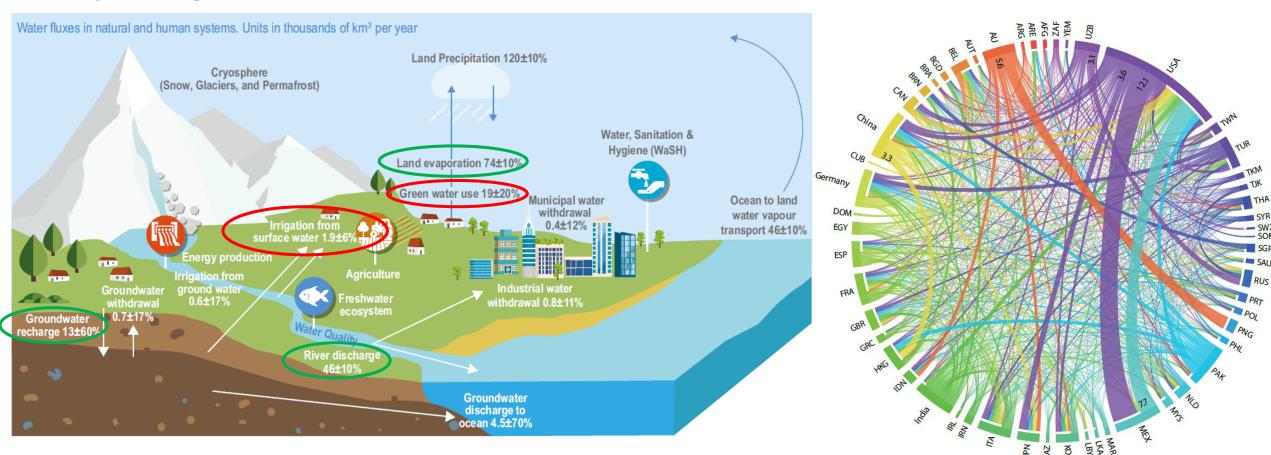
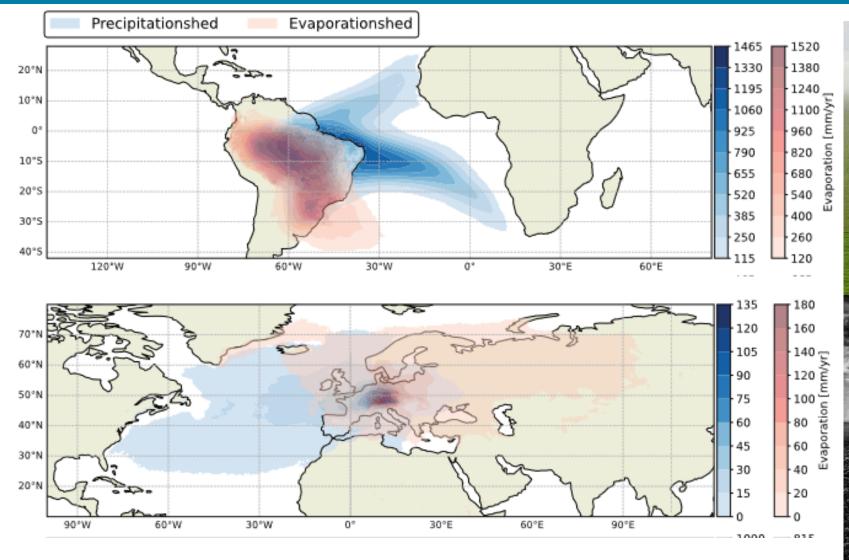


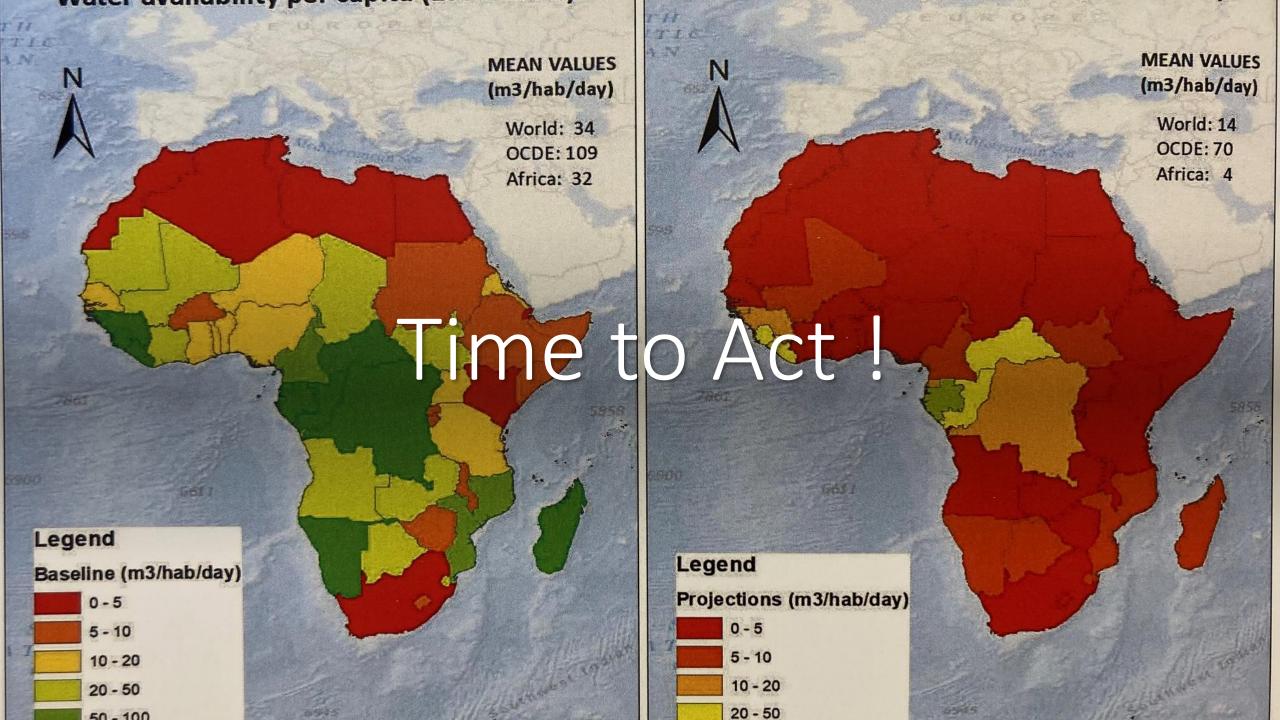
Figure 4.2 | The water cycle, including direct human interventions. Water fluxes on land precipitation, land evaporation, river discharge, groundwater recharge and groundwater discharge to the ocean from Douville et al. (2021). Human water withdrawals for various sectors are shown from Hanasaki et al. (2018), Sutanudjaja et al. (2018), Burek FIGURE 4.6 Blue water virtual flows between countries (1996–2005) et al. (2020), Droppers et al. (2020) and Müller Schmied et al. (2021). Green water use (Abbott et al., 2019) refers to the use of soil moisture for agriculture and forestry. Irrigation water use (called blue water) is not included in green water use.

A global common good









Different definitions for the WEFE



The WEFE Nexus = description of interlinkages of the water, energy, and food sectors, and how they rely on and impact ecosystems. The Nexus approach highlights the interdependencies between achieving water, energy and food security for human well-being, while ensuring ecologically sustainable use of globally essential resources.

The WEF Nexus approach = understanding of synergies and trade-offs between competing uses of water, land, and energy-related resources. Aim to connect multi-sectorial stakeholders to improve resource use and sustainable development

The water–food–energy (WFE) Nexus is a strategic system that integrates different separated sectors by using their interconnectedness to reduce trade-offs and allow sustainable development by preventing future resource insecurity.

The Nexus is an approach that integrates management and governance across multiple sectors involved, recognizing their interdependencies and the value of natural capital, ensuring coordination among stakeholders and identifying suitable policy solutions in order to optimize trade-offs and synergies across sectors

The WEF Nexus = extended concept of Integrated Water Resource Management (IWRM) and Adaptive Water Management (AWM) to overcome Water and manage resource scarcity. The WEF nexus refers to the intricate and close interconnections (synergies and tradeoffs) among the WEF sectors in order to achieve sustainable development

