



European Green Deal
Greening EU cooperation

WEBINAR N° 1

WATER AND CLIMATE CHANGE ADAPTATION



Tuesday 13 September 2022



13:00 to 15:00 (CEST)

Facilitators : Murray Biedler

NDC and EU Water Facilities



Agenda

- **Intro**
- **Background on Water and Climate Change, Policy Frameworks**
- **Case Study 1 EUD Lesotho with Q&A**
- **Case Study 2 EUD Nepal with Q&A**
- **Case Study 3 UNEP/Wetlands International Indonesia with Q&A**
- **Survey for EUDs and Evaluation**
- **Closing**

Water Situation **The Cycle: Major Shifts**

Water fluxes in human systems (thousand km³ per year).

Industrial water withdrawal
 $0.8 \pm 11\%$

Municipal water withdrawal
 $0.4 \pm 12\%$



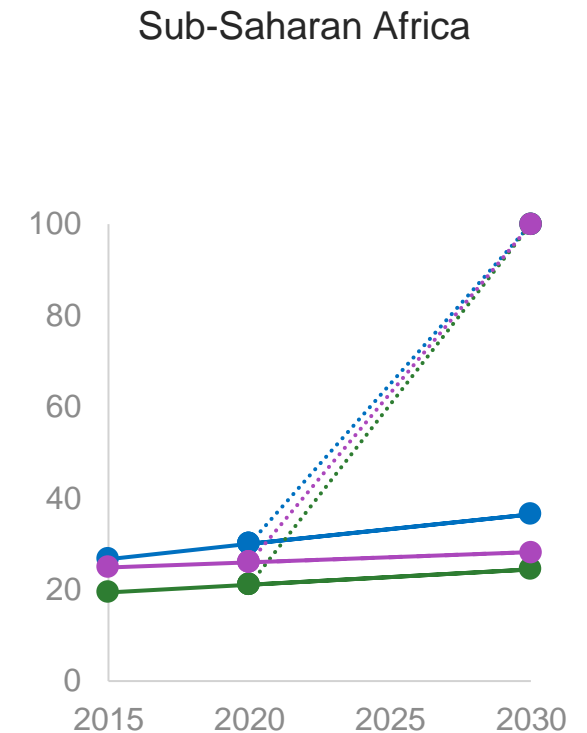
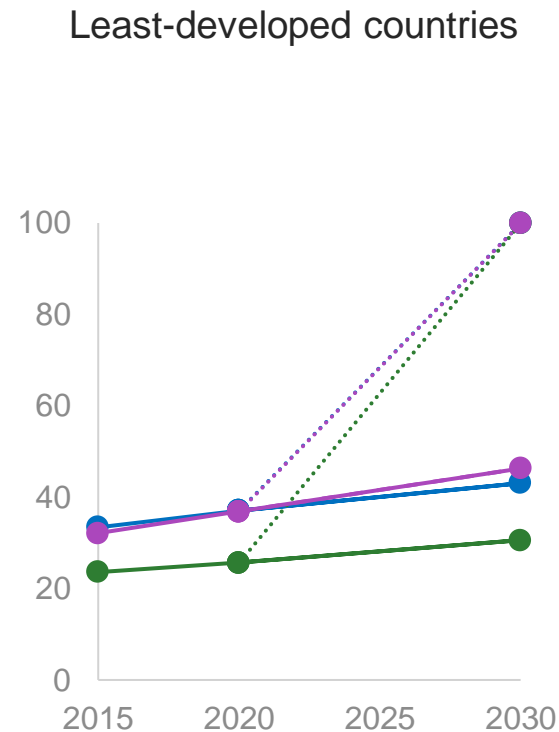
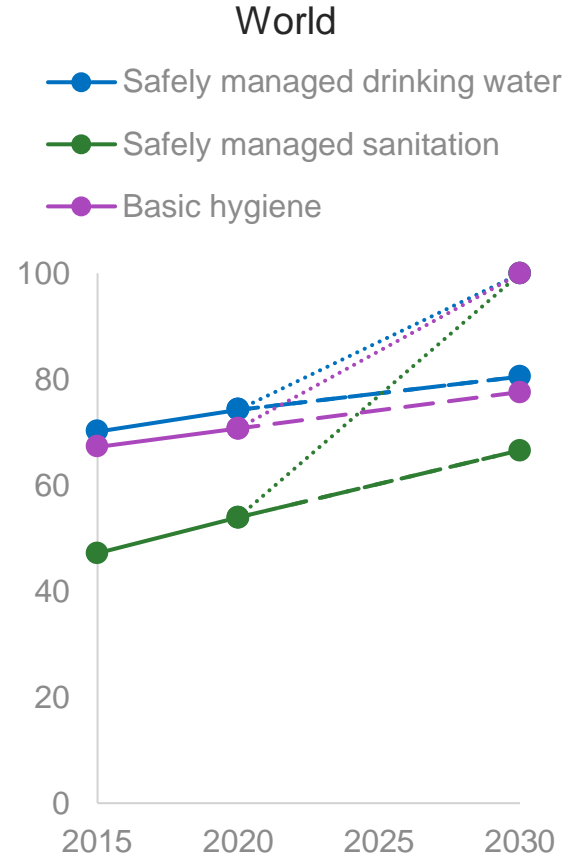
Green water use
 $19 \pm 20\%$

Irrigation from surface water
 $1.9 \pm 6\%$

Irrigation from ground water
 $0.6 \pm 17\%$

Water Situation **Infrastructure: Urgent Needs**

Acceleration required to meet WASH SDG targets by 2030. *Source: WHO/UNICEF JMP (2021)*



Background on CCA and DRR

Most of the increasing impacts are water-related

- Ecosystems degradation
- GDP loss
- More frequent and extreme hydrometeorological hazards/events (esp. floods, heat/cold waves & droughts)

LDCs, SIDSs are the most vulnerable

- SDG 2 “*Zero Hunger*”
- SDG 6 “*Clean Water and Sanitation*”
- SDG 13 “*Climate Action*”
- SDG 14 “*Life below water*”

Most of the increasing impacts are water-related



800 million to 4 billion people at increased **water insecurity** by 2100 (IPCC, 2022)

Up to 14% **GDP loss** by 2050 due to water-related CC (IPCC, 2022)

In last 50 years **extreme floods** cause US\$ 1.1 trillion economic losses and 330,389 deaths (WMO, 2021)

LDCs, SIDSs are the most vulnerable



SDG 2 “Zero Hunger” acute food insecurity and malnutrition under CC

SDG 6 “Clean Water and Sanitation”

SDG 13 “Climate Action”

SDG 14 “Life Below Water” healthy oceans as heat and carbon sinks, but acidification impacts fishery and livelihoods

Observed climate impacts on water scarcity

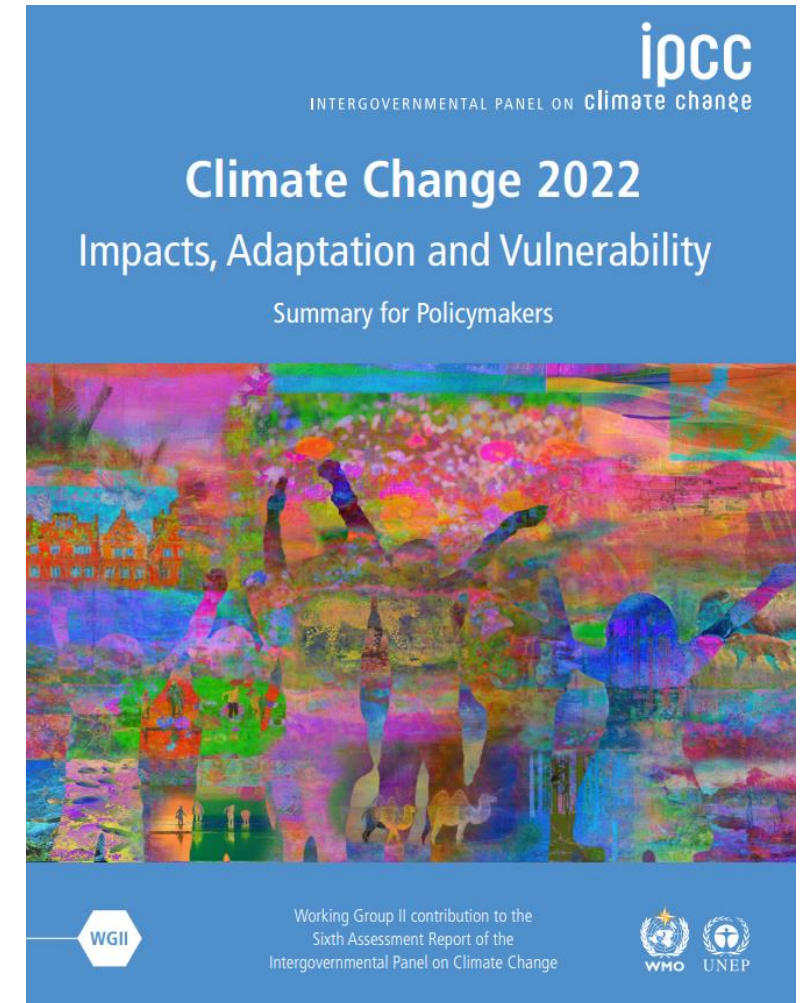
Human systems	Water scarcity
	
Global	±
Africa	—
Asia	±
Australasia	±
Central and South America	±
Europe	±
North America	±
Small Islands	—
Arctic	±
Cities by the sea	○
Mediterranean region	—
Mountain regions	±

Confidence
in attribution
to climate change

- High or very high
- Medium
- Low
- Evidence limited, insufficient
- na Not applicable

Impacts
to human systems
in panel (b)

- Increasing adverse impacts
- ± Increasing adverse and positive impacts

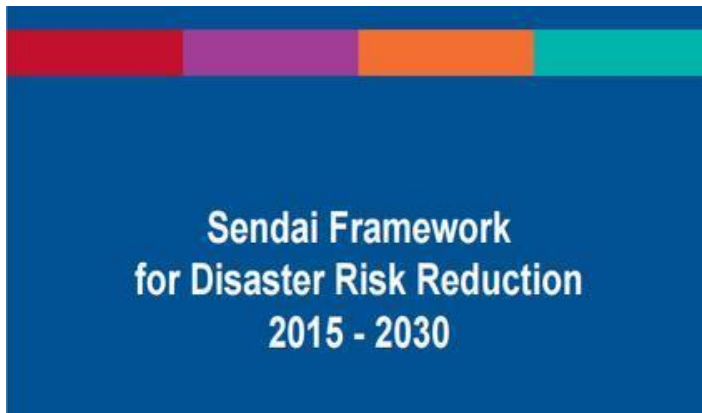


UN Frameworks

Agenda 2030 – SDGs



Sendai Framework for DRR 2015-2030



Paris Agreement on Climate Change

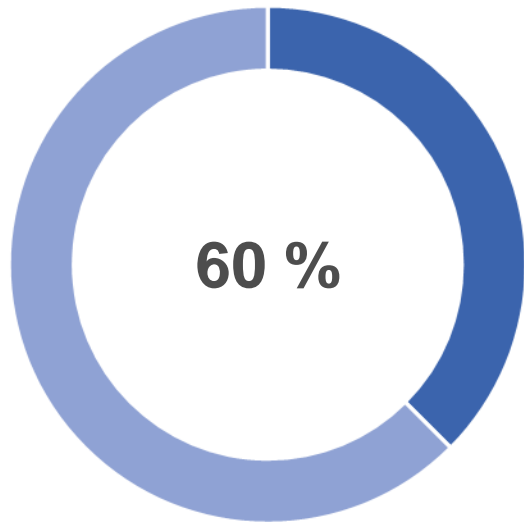


Post-2020 Global Biodiversity Framework

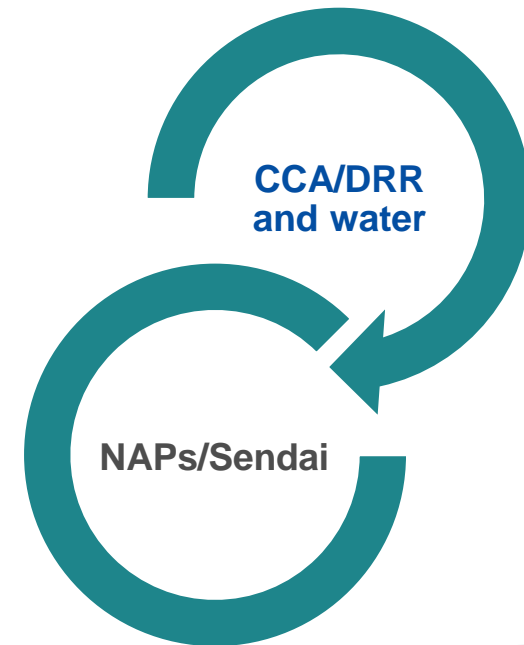


UN Frameworks

**NDCs identify
water as CCA/DRR
priority**



**NAPs & Sendai Framework
promote integration of water and
CCA/DRR**



EU Green Deal



EU responses to climate change

A road map to become carbon-neutral continent by 2050

EU Adaptation Strategy (2021) as part of European Green Deal

EU Adaptation Strategy (February 2021)

Smarter *adaptation by
improving knowledge
and managing
uncertainty*

More systemic
*adaptation through
mainstreaming into all
policy fields*

Faster *adaptation and
more comprehensive
adaption to manage
climate risk*

Stepping up
international action *for
climate resilience
through scaling up
international finance and
exchanges*

Council Conclusions on Water



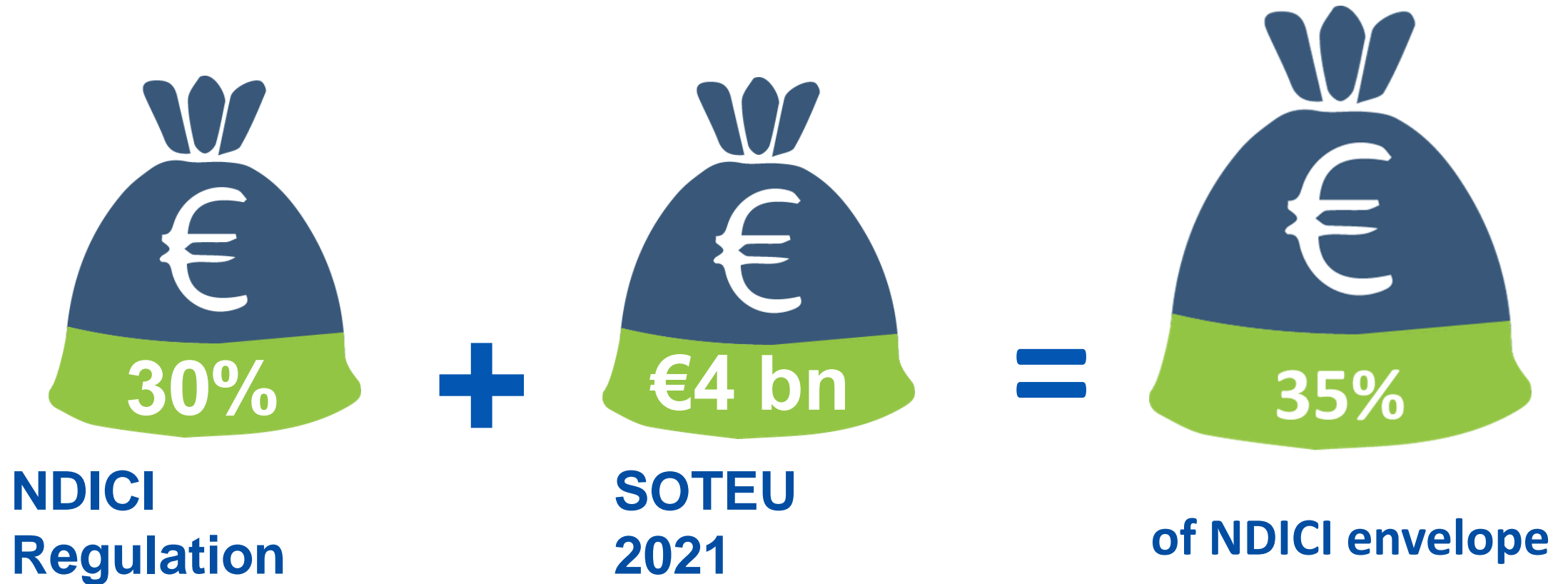
**Council of the
European Union**

OUTCOME OF PROCEEDINGS

From:	General Secretariat of the Council
On:	19 November 2021
To:	Delegations
No. prev. doc.:	13440/21
Subject:	Water in the EU's external action - Council conclusions (19 November 2021)

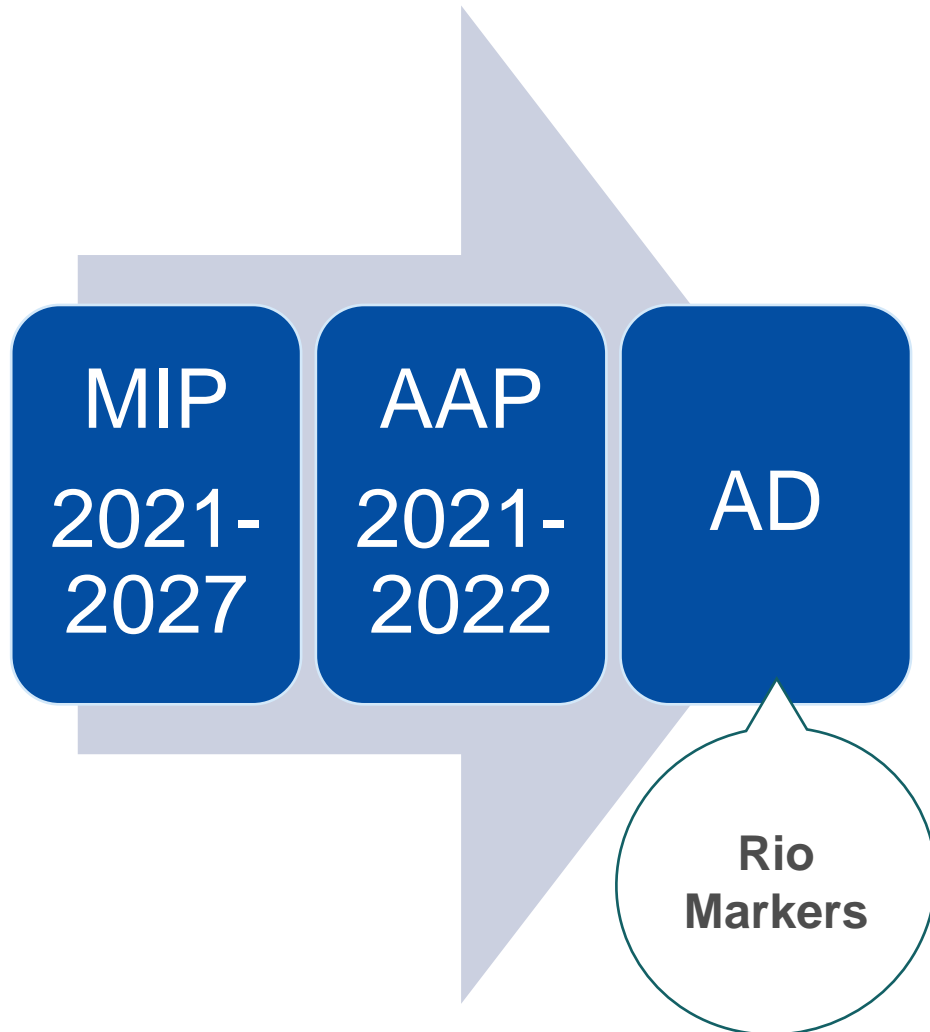
Articles 1, 6, 9, 13 'The Council stresses that water actions need to be better integrated into the EU's external action and finance in the field of climate change mitigation and adaptation, as well as through the Sendai Framework for Disaster Risk Reduction and preparedness.'

EU international climate finance (2021-2027): targets and commitments



EU INTPA & NEAR – CCA/DRR & Water

Emerging Priorities



- Improving comprehensive climate & disaster risk analyses/assessments, data/information sharing and multi-hazard early warning systems
- Ensuring climate proofing of infrastructure
- Increasing availability and sustainable use of freshwater
- Combating droughts and floods
- Enhancing coastal resilience and ocean governance
- Increasing access to climate finance and disaster risk financing/transfer