

Getty Images

GEMS Combined Drought Indicator v.2



Are We Really Prepared?

Flood and Drought Management- A Plea for Multilateral Solutions

by Benjamin Hodick, GIZ



Implemented by



giz

Vientiane, Friday,
13 September 2024



BBC



Poland after „Boris“

BBC



Monday, 16 September 2024

BBC



Vietnam after Yagi, September 2024

Vientiane, Lao PDR and Thabo, Thailand on Sunday, 15 September 2024



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“Yagi and Boris”
“...floods are loud and fast...”

Extreme weather events:
More severe,
more extensive



Image AP, 2021

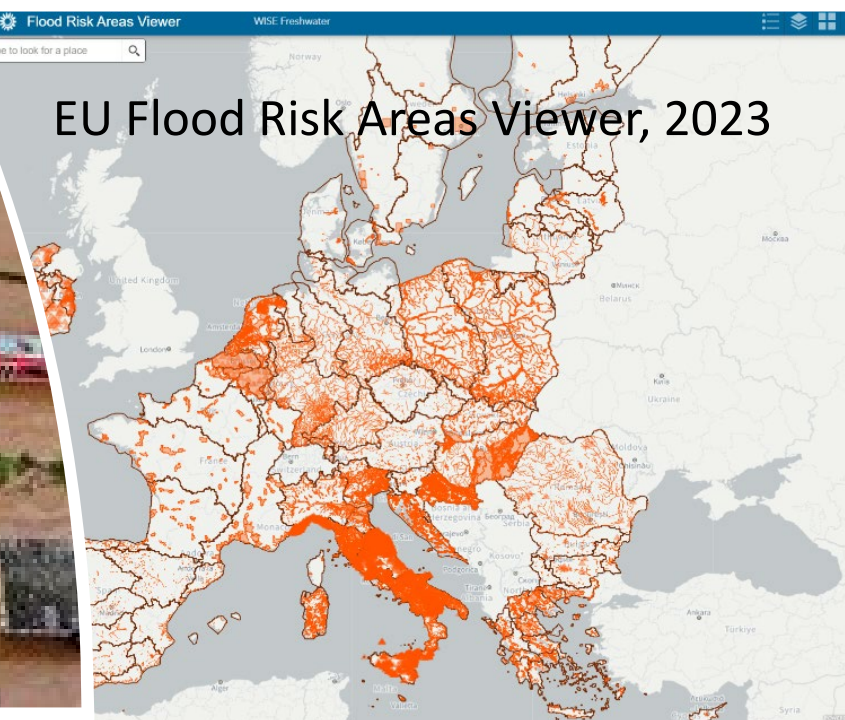
“...droughts are silent and slow”

- Record temperatures
- Long droughts
- Consecutive drought years

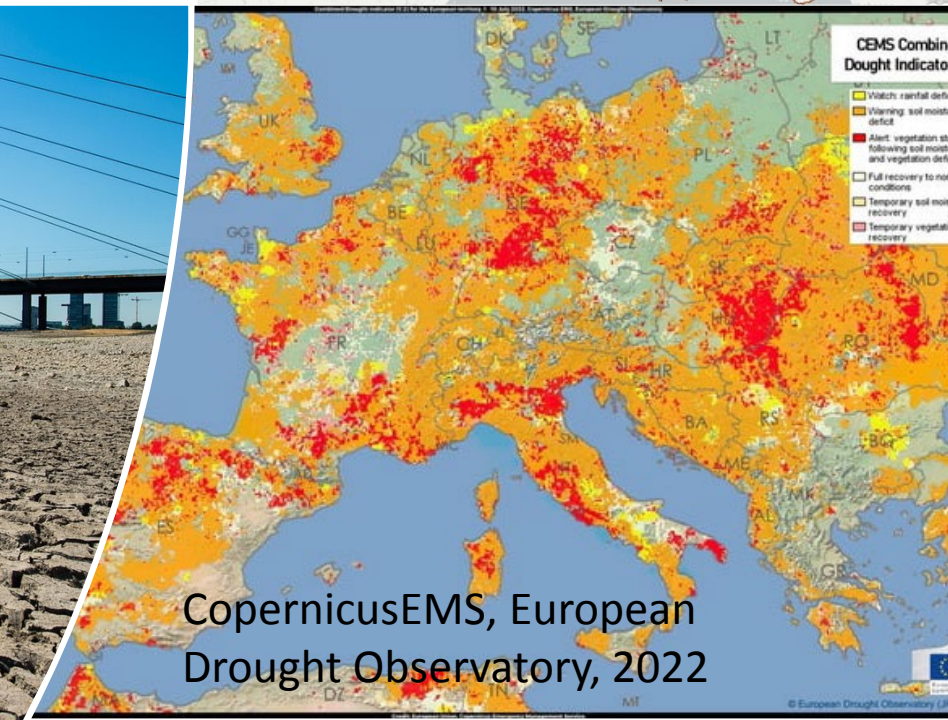


by DPA, 2018

EU Flood Risk Areas Viewer, 2023



CopernicusEMS, European Drought Observatory, 2022

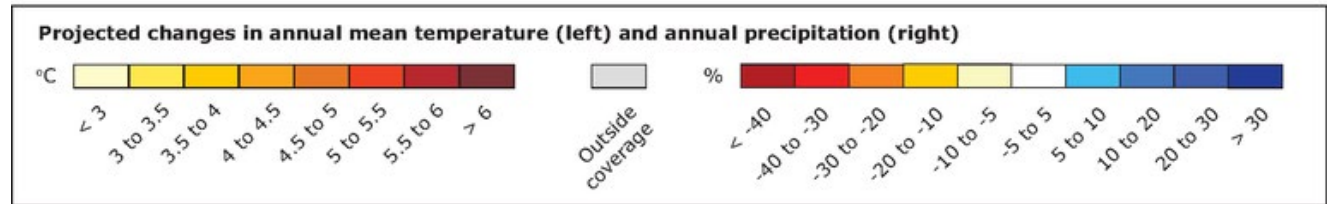
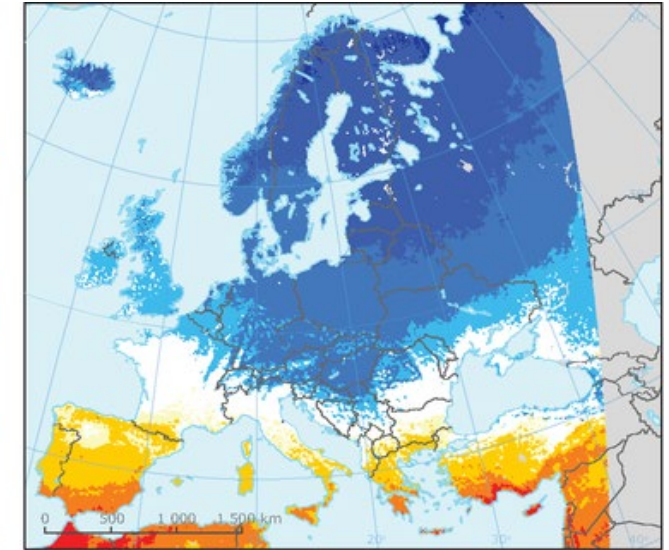
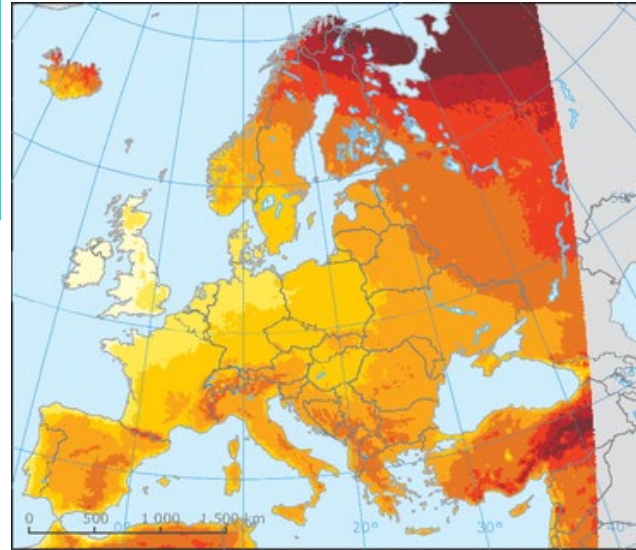


Climate Change:

Smart Adaptation: On the basis of future projections and

We need climate change projections and worst-case scenarios for droughts and floods 2071-2100

European Environment Agency, September, 2024

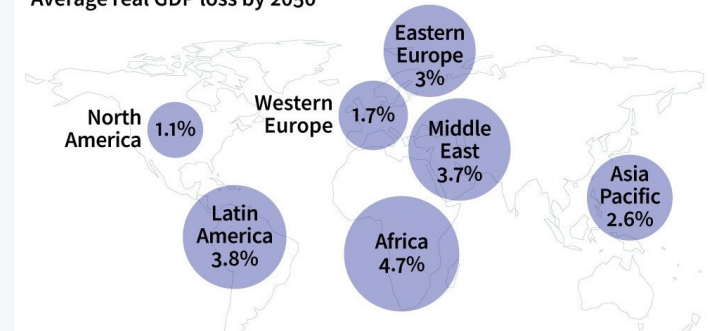


Global reported economic losses attributed to weather, climate and water extremes (in billion U.S. dollars)



Economic impacts of climate change

Average real GDP loss by 2050



Multilaterlism:



National Water Policies



National Water Policies



Transboundary
River Basin

In Europe:
Industries
Chemical, Pharma,
Construction,
Energy,
Transportation

Lower Mekong Basin:
Irrigation for
Agriculture & Fisheries,
Construction,
Energy,
Transportation

**Use and
benefit**

Citizen
Participation

Multi-Sector
Governance

dpa

MRC

dpa

GIZ

Multilaterlism:

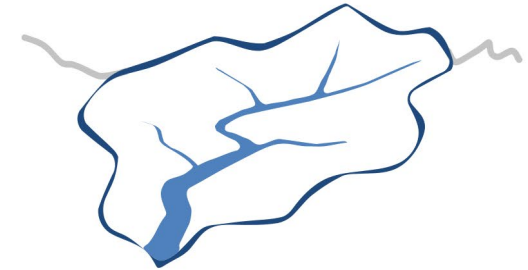
Plan:

The water framework directive



A new geographical frame:

The river basin



4 innovative objectives:

Central role of aquatic life

Good water and ecosystem quality

Public participation in water management activities

Recovery of costs for water services



One main tool:

The river basin management plan (RBMP)

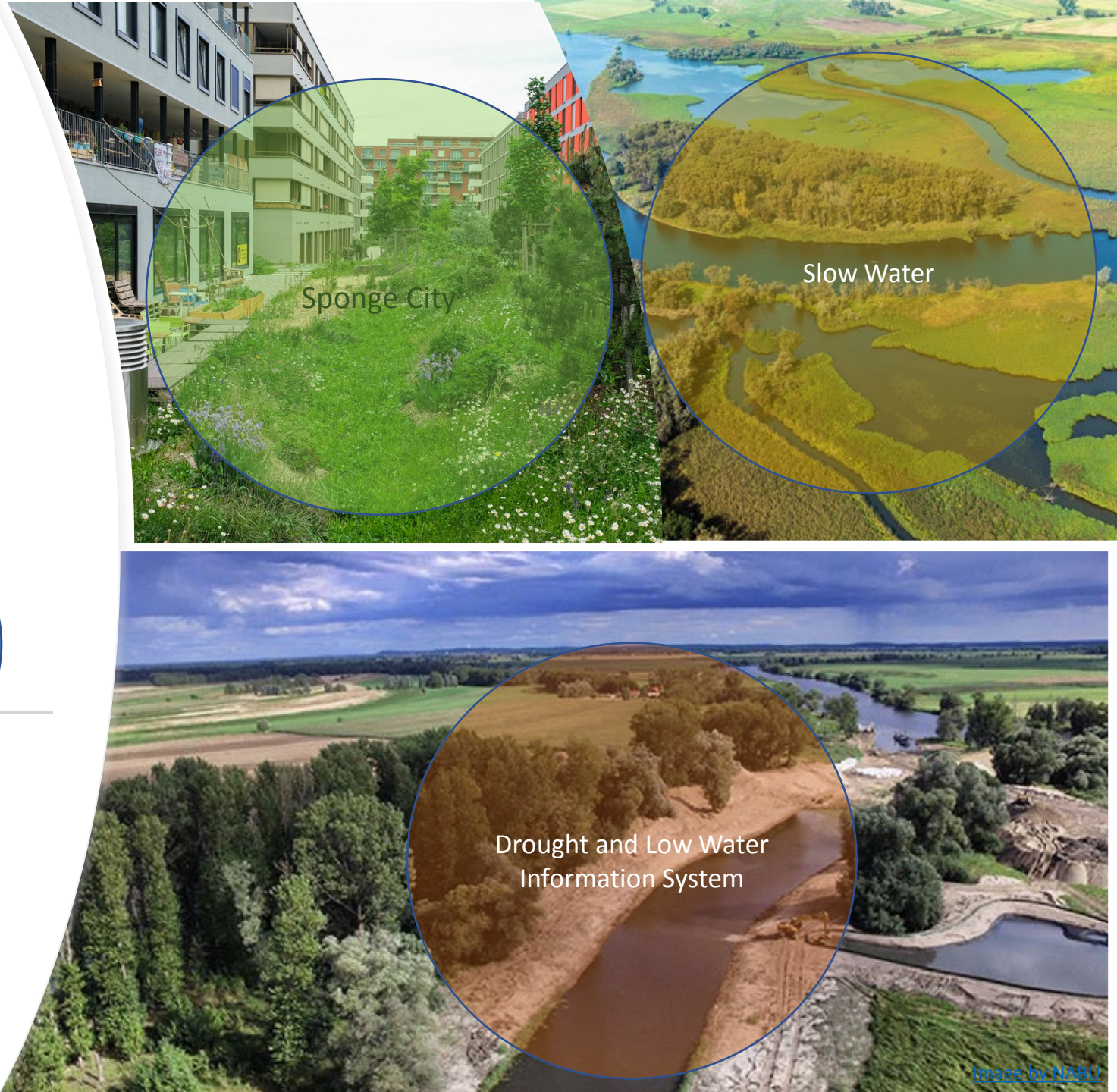
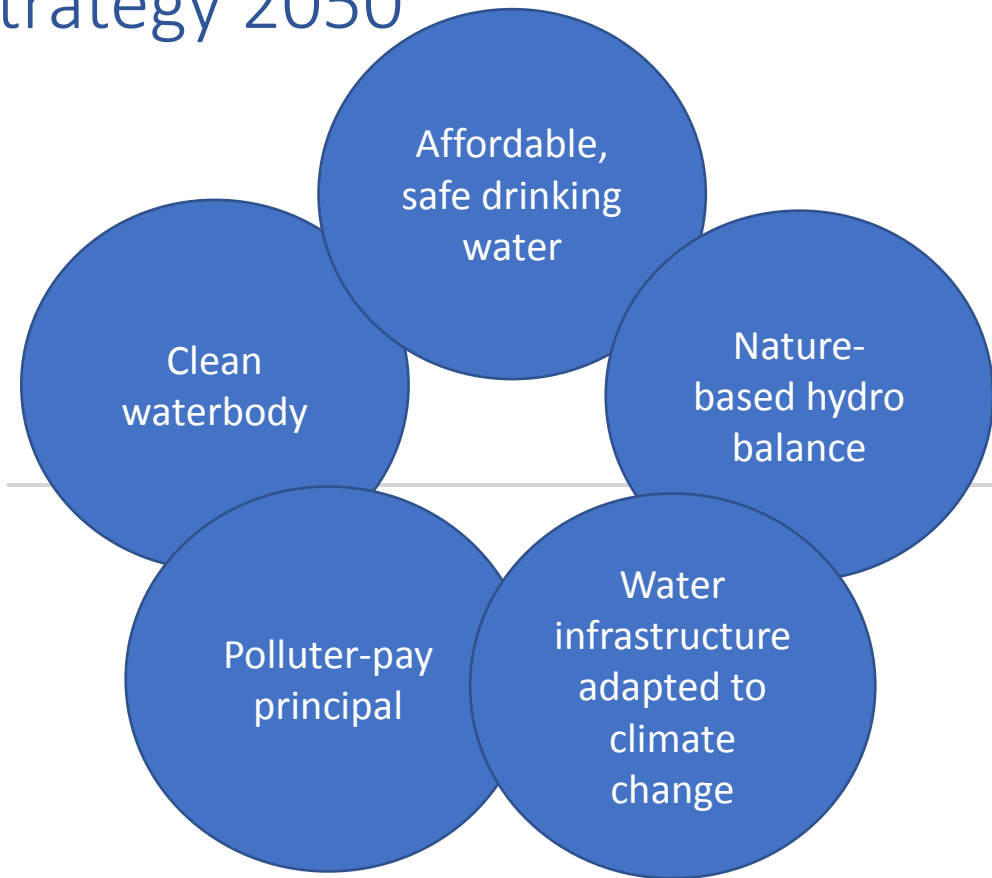
- ▶ What are the significant issues in the river basin?
- ▶ What are the quality objectives for water bodies?
- ▶ What are the actions to undertake in order to reach the objectives?



Smart
Adaptation:

Nature-based
Solutions:

Germany's Water Strategy 2050



Conclusion

Are we prepared?

Climate Change:

We are all in the same boat – global eye-level learning

Smart Adaptation:

On the basis of future projections and (worst case) risk assessments

Nature-based Solutions:

E.g. Slow Water and Sponge City Concept

Funding:

Payments for Environmental Services (PfES) and Polluter-Pays-Principal

Plan:

Ambitious and realistic – involvement of citizens and media

Multilaterlism:

Together we are stronger and smarter – apply standards and principals (EU, MRC, ASEAN)