



Target-setting in Luxembourg

Climate sensitive targets

Bruno ALVES

Ministère de l'Environnement, du Climat et du Développement durable

**Strategic Roundtable on Increasing Resilience to Climate Change in
the Water and Sanitation Sector**

13 – 14 November 2023 | Geneva

1. Water context in Luxembourg
2. Climate Change in Luxembourg – Impacts on Water
3. Target Setting under Article 6 of the Protocol
4. Upcoming Update of national targets

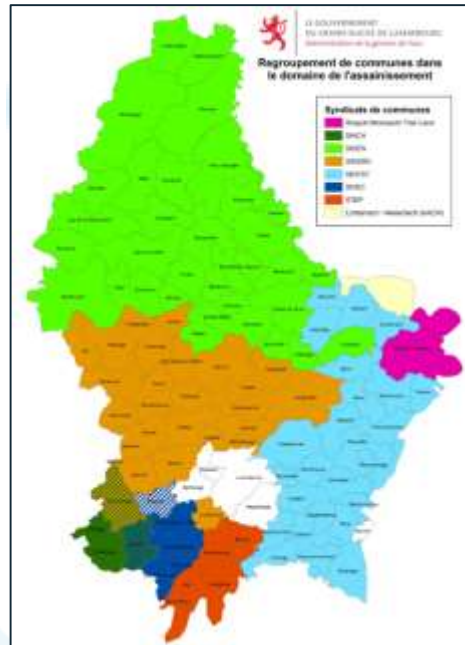
1. Water context in Luxembourg



National Context

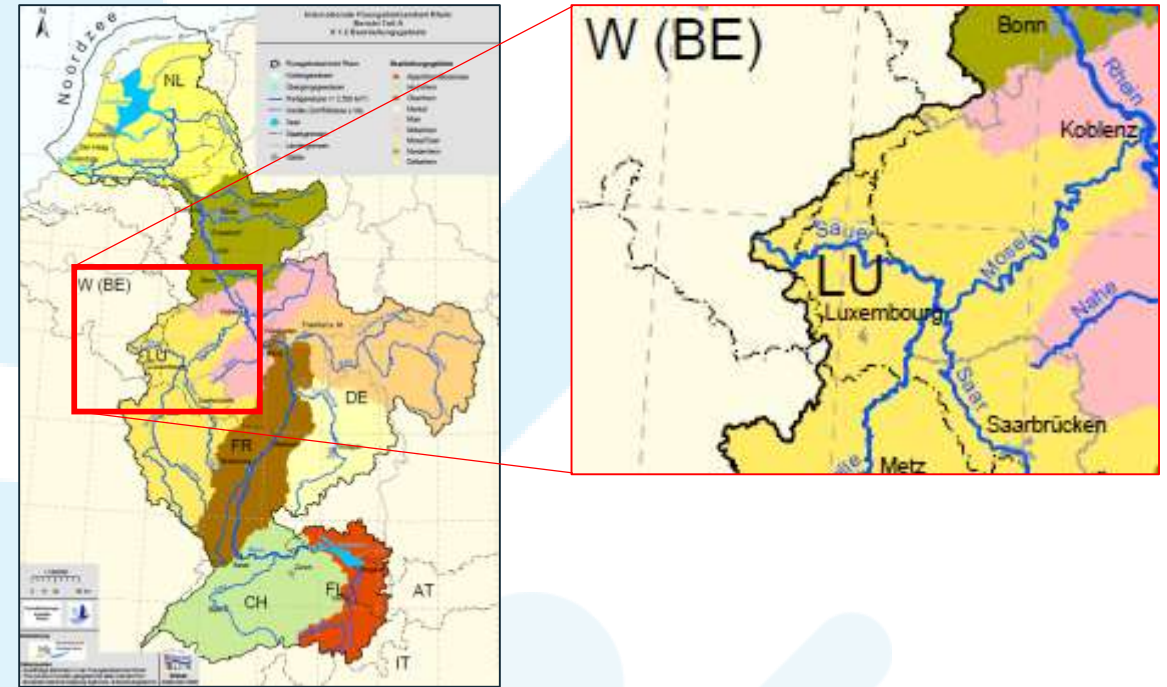


Drinking water



Wastewater

International Context

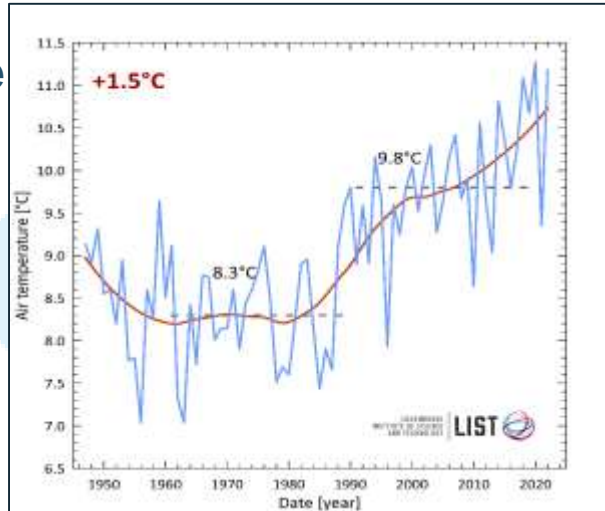


Rhine Basin

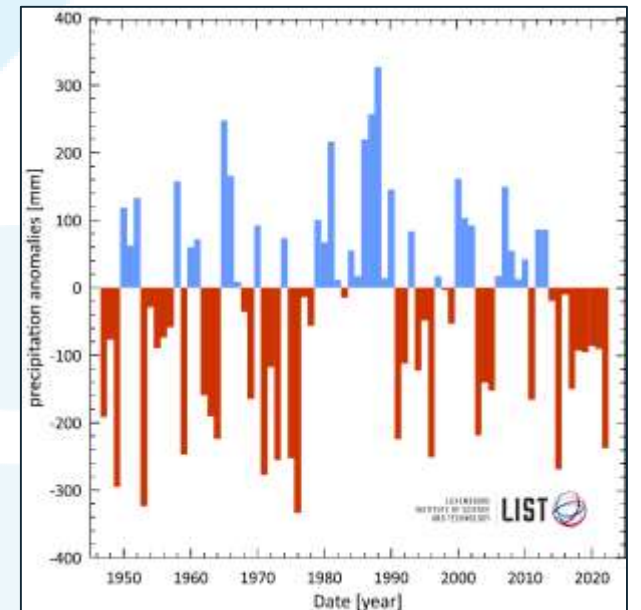
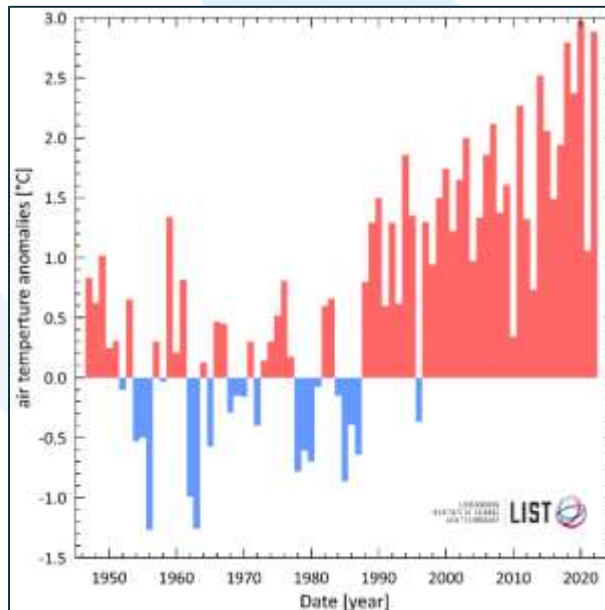
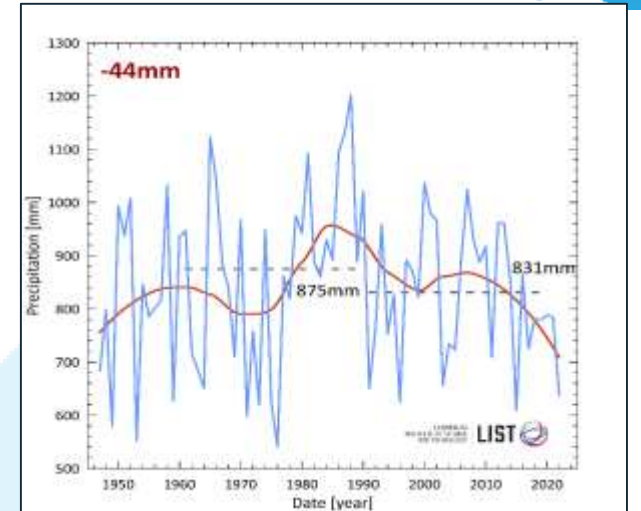
2. Climate Change and Water in Luxembourg



Temperature increase



Variation in precipitation



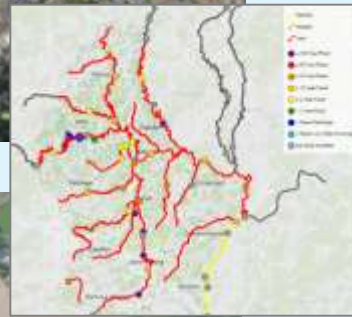
2. Climate Change and Water in Luxembourg



Flashfloods
(June 2016 & 2018)



Floods
(Juli 2021)



Drought
(2022)



Cyanobacterial bloom
(2023)



3. Target setting under Article 6 of the Protocol

- National Targets were **set in 2017**
- The main objective is to **maintain the current quality despite all pressures**
- Many objectives also **covered by European obligations**
- Target setting under the **Protocol on Water and Health can help to increase resilience to the challenges of climate change**

3. Target setting under Article 6 of the Protocol

Secure the long-term supply of drinking water

- Objective a.1 - Maintain drinking water quality
- Objective a.2 - Raising awareness of the importance of drinking water
- Objective f.1 - Defining drinking water protection zones
- Objective f.2 - Develop “Water Safety Plans”
- Objective m.3 - Study potential for savings and future need for drinking water

3. Target setting under Article 6 of the Protocol



Secure the long-term supply of drinking water

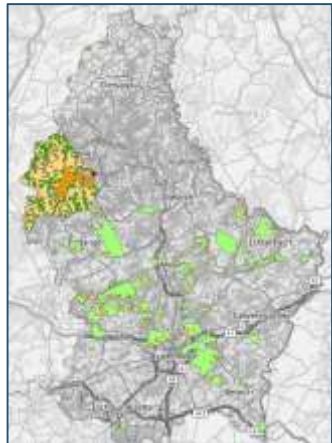


Inauguration of a new drinking water treatment plant (2023)

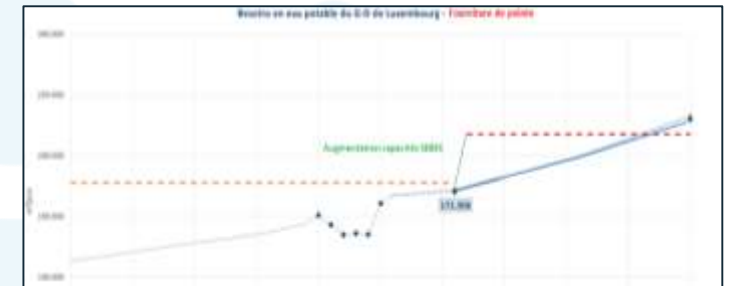


"Drèpsi" Quality standard certification for municipalities

Drinking water awareness raising campaign (2021)



Drinking water protection zones
(100 % surface water / 80 % Groundwater)



Study on future need for drinking water

3. Target setting under Article 6 of the Protocol



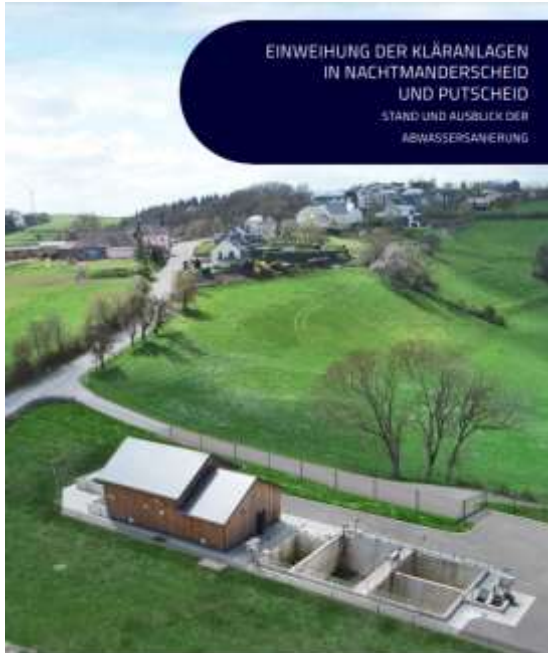
Secure the water quality and protection of rivers

- Objective d.1 - Connect 100% of the population to a wastewater treatment plant
- Objective d.2 - Modernise and replace mechanical wastewater treatment plants
- Objective g.2 - Installation of rainwater retention basins and storm water basins

3. Target setting under Article 6 of the Protocol



Secure the water quality and protection of rivers



Construction and modernization of Wastewater treatment plants



Planning for Quaternary treatment



Natural Rainwater retention basin

3. Target setting under Article 6 of the Protocol



Eutrophication of the Upper-Sûre Lake

- Objective f.4 - Cross-border cooperation on wastewater treatment, protection of drinking water catchments and monitoring of the nitrates directive

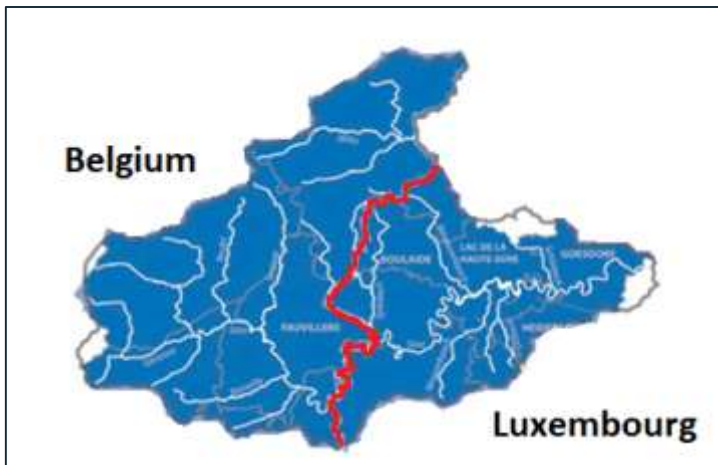
3. Target setting under Article 6 of the Protocol



Eutrophication of the Upper-Sûre Lake



Upper-Sûre Lake



Catchment area of the Upper-Sûre Lake



09/04/2019 - Signing of a framework agreement to strengthen cross-border cooperation on water protection

4. Upcoming Update of national targets



3rd River Basin Management Plan (2022)



2nd Flood Risk Management Plan (2023)



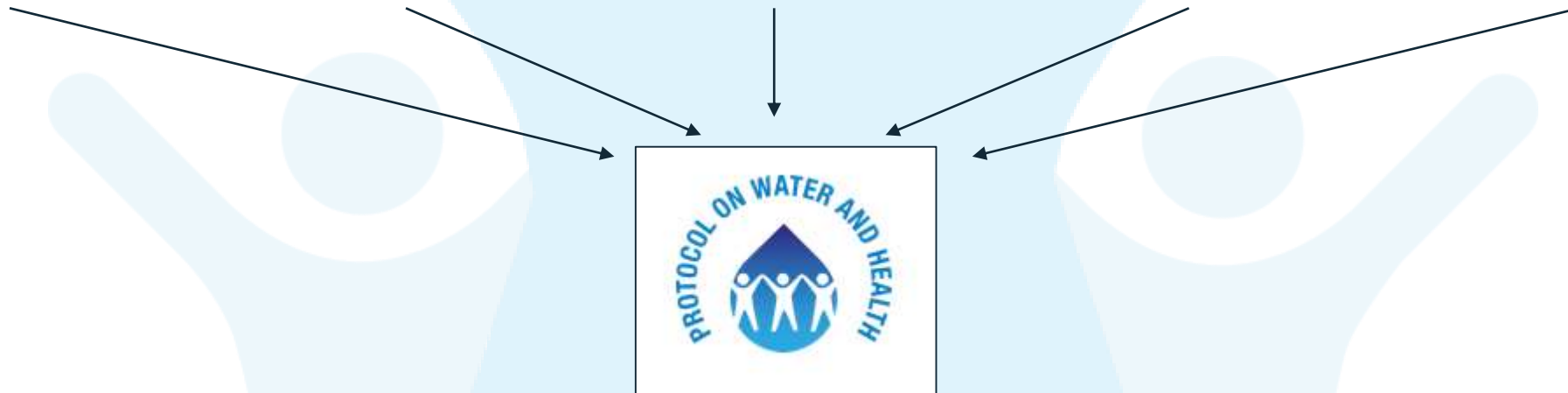
Flash-Flood Risk Management Plan (2023)



3rd Nature Protection Plan (2023)



National Adaptation Strategy (update in 2024)



Update of National Targets under Article 6

Thank you!

Bruno ALVES

LE GOUVERNEMENT DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Environnement, du Climat et du Développement durable

4, place de l'Europe, L-1499 LUXEMBOURG

Tél. (+ 352) 2478-6864

E-mail : bruno.alves@mev.etat.lu

www.emwelt.lu



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère de l'Environnement, du Climat
et du Développement durable

