

# LIFE Eau&Climat project

Supporting long-term local decision-making for cimate-adapted Water Management

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Office International de l'eau



Masterclass Europe Climate Adaptation 14/12/2022



### Adaptation to climate change at local scale, in France?



#### **National scale:**

**2<sup>nd</sup> National Plan for Adaptation to Climate Change** 

(58 actions) 2018-2022

declined at the regional scale

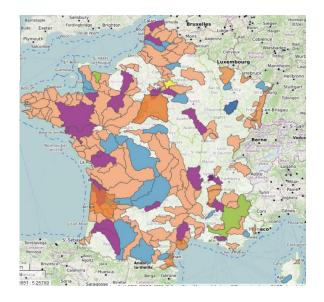
Basin plans for ACC



WFD implementation

12 River Basin Disctricts

How is it declined at the local scale
PTGE, HMUC
(territorial strategies)



Sub-river Basins => 193 SAGE (Schemes for water management)

=> 12 SDAGE (Master planning schemes for water management)

## Once upon the time .. The LIFE Eau&Climat project





French National event (2018):

« Any needs at local scale for adapting to climate change? »



https://www.gesteau.fr/life-eau-climat

5 scientific partners



coordinator









9 territorial partners





















21 SAGE (>10%) Involved in the project

# 4 NEEDS expressed by local water managers



Tools to design tailored adaptation

Action C1

Data easily accessible

Action C3

**Support from scientists** 

Action C4

Advises to mobilise actors

> Action C2









White paper on the DO and DON't for modelisation at local scale





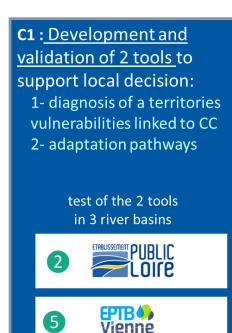




toolbox

### 4 main themes & 21 demonstration actions at local scale















Syndicat Mixte Syndicat I

Bassin Versant des Lacs du Born

: récupération eau de pluie,

formation sur les pratiques

Syndicat du bassin hydrauliques de plans d'eau

herbagères adaptées, diagnostics



# Action 3: concerted quantitative management study « Hydrology, Environments, Uses, Climate »





Objective: testing the climate data service access in 4 sub river basins ("French SAGE")

Mobilisation of updated climate projection data in order to improve the study of the impact of climate change on the management of the Naussac and Villerest hydraulic dams (see photo)

Increase stakeholders awareness (communication and meetings) on the actual and future impact of climate change on water resources



Source: https://www.eptb-loire.fr



# Action 8: Citizen observatory to create a territorial spirit to face future climate change impacts





Objective: testing the climate data service access in 4 sub river basins ("French SAGE")

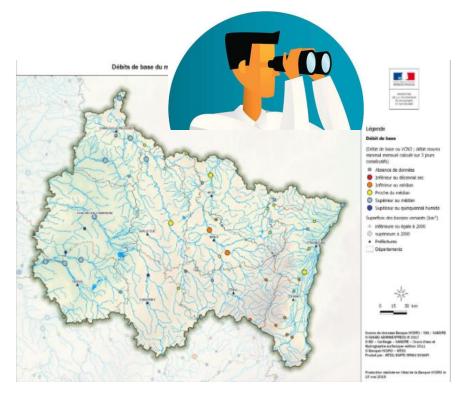
This territory (Eastern France) is not yet really impacted by CC.

Need to mobilize all the actors: water managers, policymakers and citizens with the support of scientific to bring evidence base

Idea: Create a "territory spirit" about the topic of CC

#### How? By creating a citizen observatory:

- Identification of relevant data to be collected by citizen
- Identification of usefull indicators calculable with these data
- Creation of a web interface and a mobile app for results vizualisation



Source: DREAL Grand-Est



# Action 10: pedagogical water level gauges installation under bridges





Objective: assess the effects of climate change on river flows & raise citizen awareness

What? Installation of water level gauges and low-water markers on certain tributaries of the Lignon river

#### Why? Multiple purpose:

- For water managers: measuring water levels (which can be converted into flows) and warning of the severity of low water
- For all river users: information availability (water level, temperature) with explanations on how to interpret data (explanatory panel)
- For all the citizen: creation of a water observatory centralising all the data on the catchment area to allow visualization and communication



Source: EPAGE Loire Lignon



### Creation of a European Group



### Adaptation to climate change for water resources management needs:

- ❖ To involve all the stakeholders with concerted actions
- ❖ To explain again and again what is climate change and what are the current and probable future impacts on resources:
  - With simple words (need of scientific mediations to be pedagogical)
  - Based on robust scientific knowledge and figures (with an explanation of the uncertainties)
- **To facilitate access to hydro-climatic data** to carry out impact studies
- ❖ To move from thinking to action with local adaptation plans legally binded





# Thank you for your attention

# **QUESTIONS?**

For more information, please contact:

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https://www.gesteau.fr/life-eau-climat