The project LIFE Eau&Climat (LIFE19 GIC/FR/001259)
has received funds from the LIFE programme of the European Commission

LIFE Eau&Climat project

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

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9ème Forum Mondial de l'Eau | Dakar 2022

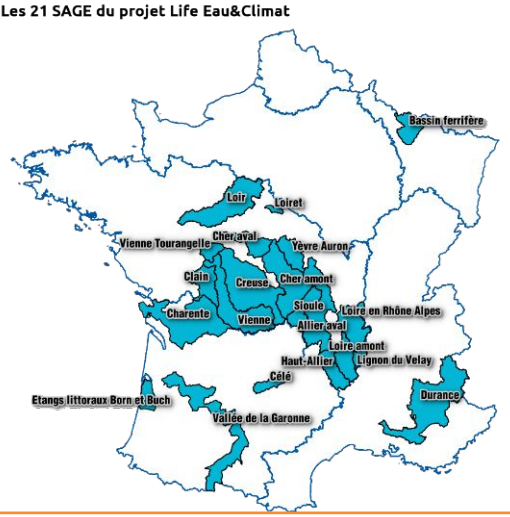
Session 3C2 - Développer le partage d'expériences en matière de gestion des ressources en eau pour faire face à la pénurie chronique d'eau et aux catastrophes liées à l'eau (y compris les inondations et les sécheresses).

Session coordinated by INBO
(International Network of Basin Organisations)

The project in a nutshell

3,7 M € Total Budget	**2 M €** EU funding
4 years	**14** partners

Start 1er Sept 2020



10% of the french river basin management schemes (SAGE) involved

Our strengths?

9 territorial partners having different maturity levels in terms of adaptation to climate change -> enable exchanges between pairs and with scientific experts to ensure the relevance of the tools developed

Le consortium de projet :

coordinateur

5 partenaires techniques et scientifiques

OiEau Office International de l'Eau — acterra Environnement Climat — HYDREOS — INRAE la science pour la vie, l'humain, la terre — METEO FRANCE

9 partenaires territoriaux

Syndicat Mixte Bassin Versant des Lacs du Born — smeag Syndicat Mixte d'Etudes & d'Aménagement de la Garonne — EPAGE Loire Lignon — Smavd Durance — Syndicat du bassin Célé – Lot médian

EPTB Charente Etablissement Public Territorial de Bassin Charente — Etablissement Public Loire — EPTB Vienne Etablissement Public Territorial de Bassin — Grand Est Alsace Champagne-Ardenne Lorraine L'Europe s'invente chez nous

Main objectives

- **Develop decision-making tools for local stakeholder** to assess the vulnerabilities of the territory and plan adaptation to climate change;
- **Facilitate the mobilization of local stakeholder** through recommendations based on an analysis of practices;
- **Improve access to hydro-climatic data** with the provision of online data and recommendations on collection and valorization of data;
- **Strengthen the knowledge transfer and exchanges between researchers and managers,** in particular to assist in decision-making;
- **Ensure replicability and transferability** of results.

4 main themes & 21 demonstration actions at local scale

C1 : Development and validation of 2 tools to support local decision:

1- diagnosis of a territories vulnerabilities linked to CC

2- adaptation pathways

test of the 2 tools in 3 river basins

- 2 – Etablissement Public Loire
- 5 – EPTB Vienne
- 14 – Syndicat Mixte Bassin Versant des Lacs du Born

C2 : Stakeholders mobilisation – practices analysis and recomendations

- 6 – EPTB Vienne – Réalisation d'un guide et organisation de réunions par SAGE
- 9 – EPAGE Loire-Lignon – Création de supports de comm et organisation de réunions publiques et techniques
- 12 – Smavd Durance – Nomination d'1 Ambassadeur Climat pour sensibiliser et communiquer sur le CC
- 15 – Syndicat Mixte Bassin Versant des Lacs du Born – Réalisation d'une étude prospective pour définir uns stratégie d'adaptation concertée
- 17 – smeag – Création d'un réseau de référents CC pour favoriser l'émergence de dynamiques locales
- 20 – Syndicat du bassin Célé – Lot médian – Sensibilisation aux économies d'eau : récupération eau de pluie, formation sur les pratiques herbagères adaptées, diagnostics hydrauliques de plans d'eau

C3 : Ease the access to hydroclimatic data

- 3 – Etablissement Public Loire – Etude de gestion quantitative (HMUC) pour la mise en œuvre du CTGQQ
- 8 – Grand Est – Création d'un observatoire citoyen et identification des données/indicateurs possibles
- 10 – EPAGE Loire-Lignon – Suivi de cours d'eau par installation d'échelles limnimétriques et de repères d'étiage
- 13 – Smavd Durance – Utilisation d'images et de données satellitaires pour améliorer l'irrigation agricole
- 18 – smeag – Etablissement de nouveaux indicateurs CC pour alimenter le tableau de bord SAGE
- 21 – Syndicat du bassin Célé – Lot médian – Suivi de plans d'eau par installation de sondes et formation des propriétaires

C4 : Reinforce exchanges between pairs and between water managers and scientists

- 1 – EPTB Charente – Modélisation hydrologique du BV (transfert superficiels et souterrains)
- 4 – Etablissement Public Loire – …ganisation de journées d'échanges chercheurs-gestionnaires
- 7 – EPTB Vienne – Mobiliser les chercheurs pour réaliser une étude prospective (restitution cartographique)
- 11 – EPAGE Loire-Lignon – Etude globale HMUC et définition d'une stratégie quantitative
- 16 – Syndicat Mixte Bassin Versant des Lacs du Born – Développement d'un outil de modélisation adapté aux plans d'eau littoraux
- 19 – smeag – Etude socio-économique de l'impact des démarches d'adaptation au CC (projet PYGAR)

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”)

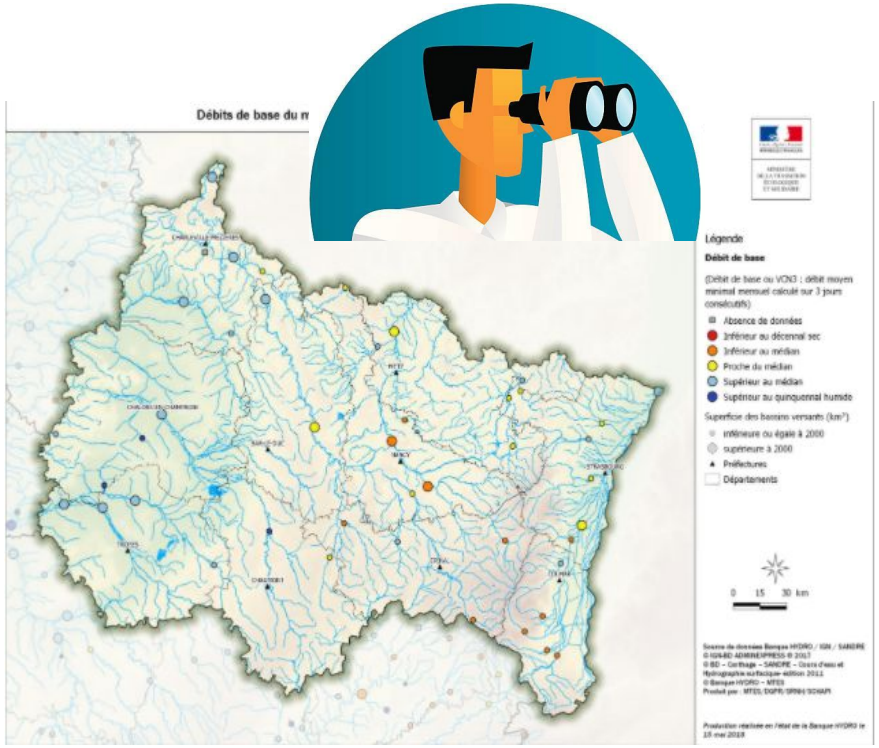
This territory (Eastern France) is not yet really impacted by CC.

- 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

Key messages

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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