



Project



LIFE Eau & Climat



2020 - 2024

3,7 M €
Overall budget

2 M €
European funding

14
Partners

Coordinator  **OiEau**
International Office
For Water

Goals

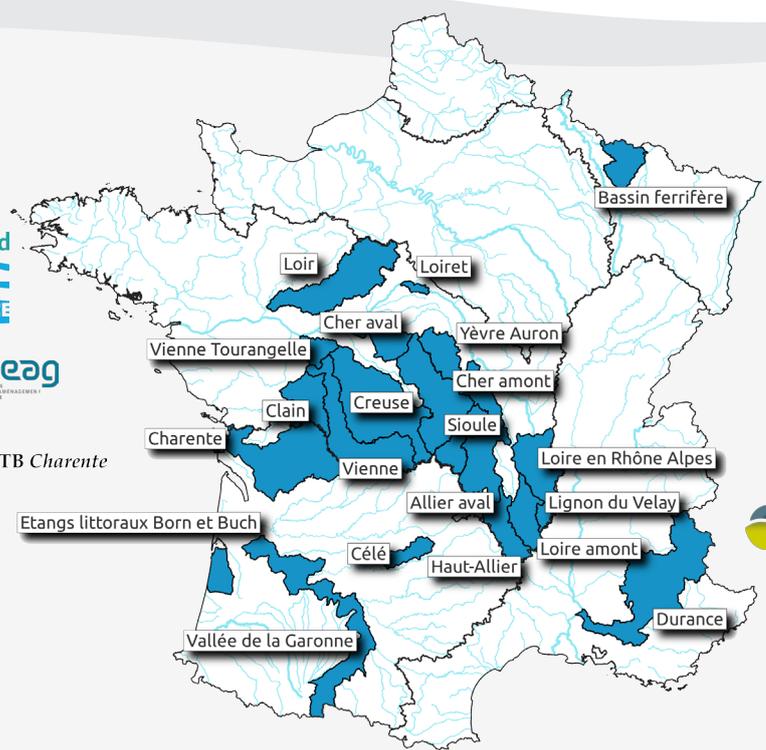
The **LIFE Eau&Climat project - Supporting long-term local decision-making for climate-adapted Water Management** (LIFE19 GIC/FR/001259) – started on September 1st, 2020 for a period of 4 years.

The objective is to support local water resources managers, especially in the framework of the **SAGE** ("Schéma d'aménagement et de gestion des eaux", the French planning tool for the balanced and sustainable management of water resources), to assess the effects of climate change, to take them into consideration in their planning tools and to implement adaptation measures.

Partners



9
territorial actors
in charge of local
water management
through one or several
SAGE, implementing
actions on their
territory



5
partners,
bringing scientific
and technical
support



The 21 SAGE involved in the LIFE Eau&Climat project



DEVELOP DECISION SUPPORT TOOLS

➔ Produce two tools enabling local water managers to plan the adaptation of their territory to climate change.

- 1 Guide for diagnosing local vulnerabilities**, which is an adaptation at the SAGE scale, of the method used by some French Water Agencies to produce vulnerabilities to climate change maps inserted in their adaptation plans
- 2 Web tool and guide allowing to design adaptation pathways**, including different adaptation scenarios and strategies identified in a participatory and operational way, on the basis of the *Objectif Climat Trajectoires*, tool developed by ADEME
- 3 Demonstration and validation** of these tools on three territories:

The Yèvre Auron SAGE, the Sioule SAGE and the Garonne Valley SAGE will serve as demonstrators to test, make evolve and validate these tools and methods, with the objective to make final versions available to all the French SAGE for free



FACILITATE THE MOBILIZATION OF LOCAL STAKEHOLDERS

➔ Analyze stakeholders' mobilization initiatives in order to identify the most appropriate practices according to targets and objectives.



- 1 Guide with recommendations** about stakeholders' mobilization
- 2 Six local demonstration actions** to test and validate the recommendations:



Conduct of a prospective study to define a concerted adaptation strategy



Development of an approach to support inter-municipalities in adapting to climate change and production of a dedicated guide



Recruitment of "Climate Ambassadors" to carry out mobilization and awareness actions on water resources and climate change



Organization of information and exchanges meetings



Creation of a network of climate change referents to encourage the emergence of local dynamics, development of a communication plan, development of partnerships with the agricultural sector



Awareness-raising about water saving through rainwater harvesting, study on the adaptation of livestock to climate change and impacts diagnosis followed by work on lakes



IMPROVE ACCESS TO HYDRO-CLIMATIC DATA

➔ Allow local stakeholders to identify useful and relevant data (types and sources) to take into account the impacts of climate change in territorial water management and facilitate the access to these data.

- 1 Extension "water" of the DRIAS portal** to ensure the provision and the assistance in the use of hydro-climatic data consistent with the reference climate scenarios in France
- 2 Recommendations** for the creation of "SAGE and climate" observatories
- 3 Six field actions demonstrating** local management of data:



"HMUC" quantitative study (hydrology, environments, uses and climate)



Creation of a citizen observatory and identification of possible data/indicators to be collected



Monitoring of watercourses by installing water level gauges, low-water markers and thermal probes



Use of satellite data to improve the knowledge of irrigated agricultural areas on the territory



Creation of new indicators on climate change to feed the SAGE dashboard



Monitoring of lakes by installing probes and collecting and analyzing samples



STRENGTHEN KNOWLEDGE TRANSFER AND EXCHANGES BETWEEN RESEARCHERS AND MANAGERS

➔ Enable interactions between researchers and field actors, and facilitate the appropriation of scientific results by making the information understandable to local stakeholders.

- 1 Methodological guide** about the relevant hydro climatic-data and models to be used or not, to conduct prospective studies of water availability at local scale (SAGE scale)
- 2 Compendium of projects** on the theme of "water and climate change" to broke knowledge
- 3 Six actions to demonstrate** local mobilization of researchers:



Hydrological modeling of the catchment basin (surface and underground transfers)



Organization of researchers-managers' exchange days



Mobilization of researchers to carry out a prospective study on climate change and its effects on water resources



"HMUC" quantitative study (hydrology, environments, uses and climate)



Development of a modeling tool adapted to coastal lakes



Socio-economic study about the impact of the climate change adaptation approach chosen

Ensure coherence of project's actions carried out at local scale with regional, national and European policies

➔ Follow up of the project progress and provision of advice by:

The "GTI" group, an Institutional Working Group: Ministry of Ecological Transition, Ministry of Agriculture and Food, Agency for the Environment and Energy Management, French Office of Biodiversity, Water Agencies, Water Offices of Guyana and Martinique, New Aquitaine Region, New Aquitaine Chamber of Agriculture

The EAC group ("European Assessment Committee"): group of representatives of European basin organizations

ENSURE THE REPLICABILITY AND TRANSFERABILITY OF THE RESULTS IN FRANCE AND IN EUROPE



More than 10% of the French SAGE participate in the project, the objective is to replicate the results in all the SAGE in France and to transfer them to other European territories.



Ensure results transferability through specific actions

- 1** 6 information sessions (one per river basin district)
- 2** Technical trainings for the private sector
- 3** Tool and guides description sheets
- 4** Networking in France and in Europe
- 5** Common final conference with the Explore2 project

A word from the coordinator



"The LIFE Eau&Climat project was built to address the needs expressed by local water managers to plan the adaptation of their territory to climate change and to take action!

Its main objective is thus to conduct a collective discussion on the actors/ data/science triptych in order to produce concrete tools and guides for the entities in charge of SAGE and for their local water commission, while ensuring coherence between the 21 actions carried out locally and the regional and national policies.

This work is based on a partnership composed of 14 partners including 9 territories that can exchange between peers and share their experiences."

PhD Sonia SIAUVE

Project Manager - Water Innovation,
OiEau Coordinator of the LIFE Eau&Climat project



The project partners at the general assembly held in Limoges (September 2021).

Main results



September 1st, 2020
Start of the project

2
0
2
0

Section LIFE Eau&Climat on gesteau.fr

2
0
2
1

Version 1 - Compendium of projects on "water and climate change"

Version 1 - DRIAS-Eau future portal

Methodological guide on the best way to conduct prospective studies of water availability at SAGE scale ("Do - don't guide")

2
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2

Final version online - DRIAS-Eau Portal

Guide for diagnosing local vulnerabilities

Web tool and guide for designing local adaptation pathways

Recommendations for the creation of "SAGE and Climate" observatories

2
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2
3

Final version - Compendium of projects on "water and climate change"

Recommendations for the mobilization of local stakeholders

Summary report of the project results

Joint final conference with the Explore2 project

August 30, 2024 - End of the project

2
0
2
4

Tool description sheets
Training courses

For more information

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