LIFE Eau&Climat project
Supporting long-term local decision-making for climate-adapted Water Management

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Office International de l’eau

20th International Conference
Europe-INBO
Adaptation to climate change at local scale, in France?

National scale:
2nd 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 Districts

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

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

Sub-river Basins
=> 193 SAGE (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? »

3,7 M €
Budget

2 M €
EU funding

4 years

14 partners

1st Sept 2020
Start

21 SAGE (>10%)
Involved in the project

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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
4 main themes & 21 demonstration actions at local scale

C1: Development and validation of 2 tools to support local decision:
1. Diagnosis of territories vulnerabilities linked to CC
2. Adaptation pathways

- Test of the 2 tools in 3 river basins

C2: Stakeholders mobilisation – practices analysis and recommendations

- Realisation of a guide and organisation of reunions by SAGE

C3: Ease the access to hydroclimatic data

- Etude de gestion quantitative (HMUC) for the mise en œuvre du CTQGG

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

- Modélisation hydrologique du BV (transfert superficiels et souterrains)

- Organisation de journées d'échanges chercheurs-pensionnaires

- Mobiliser les chercheurs pour réaliser une étude prospective (restitution cartographique)

- Etude globale HMUC et définition d'une stratégie quantitative

- Développement d’un outil de modélisation adapté aux plans d'eau littoraux

- 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

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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 useful indicators calculable with these data
- Creation of a web interface and a mobile app for results visualisation

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

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Mid-term -> key first 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**
Notes – exchange with the room
Creation of a Group of European Actors

Co-financement EU
Echanges constants avec la Commission Européenne

Comité Européen d’Evaluation (CEV)
groupe d’experts européens membres de l’Euro-RIOB allant suivre les résultats du projet

Autres acteurs français
Nombreux contacts pendant le projet

Groupe de Travail Institutionnel (GTI)
MTE, DEB, ADEME, OFB, 6 AE, 2 ODE, la Région Nouvelle Aquitaine, le MAA et 1 Chambre d’agriculture

Consortium du projet
14 partenaires
5 scientifiques et 9 territoriaux

Opportunity to take part
Interested in being an expert in that group?
-> make yourself known!!

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Thank you for your attention

QUESTIONS?

For more information, please contact:

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