

Fact
sheet
N°1

Tool

Diagnosis of vulnerability



LIFE Eau
& Climat



Context

The vulnerability diagnosis guide is one of the tools created to enable local water management stakeholders to plan the adaptation of their territory to climate change.



Referent

ACTERRA is an engineering consultancy specialising in research and innovation on climate change adaptation.

Description

- This diagnostic tool is based on a declination, at SAGE level, of the method used to map of the vulnerability of the basin to climate change for 2030 and 2050, which is used in most of the water agencies' adaptation plans.
- This method combines climatic, hydrological and environmental indicators to calculate a vulnerability index for each of the main compartments of the hydrosystem.
- In particular, by analysing the climatic parameters measured in recent years, these diagnoses make it possible to establish a detailed projection that enables local variations to be assessed. In this way, they help to provide sufficiently accurate data to raise awareness and mobilise local actors to adapt to climate change.

Guide contents

Please note: This approach doesn't involve modelling, and is not an impact study either. It is an invitation to combine scientific knowledge of climate change with local knowledge and vulnerabilities in order to identify adaptation needs.

1

A step-by-step approach offering methodological elements of a technical or leadership/steering nature.

2

Technical and guidance sheets for each stage of the guide.

3

A common thread, an example of how to implement the approach (selected indicators, example of results summary sheet).

For whom?

Any stakeholder
in the territory
with water
management
skills

Objective

By cross-referencing the analysis of hydroclimatic trends with that of regional characteristics, this tool highlights the areas and issues with the most pressing adaptation needs.

How to use it?


The guide sets out a 5-step process to be followed step by step. Human and technical resources need to be mobilised in advance to achieve the goals set by the diagnosis.

To find out more

The guide is available in paper format or as a web version via this link.

 contact@acterraconsult.com

 <https://www.gesteau.fr/life-eau-climat/resultats>

 @gesteau

Method

1 Framing and definition the stakes



Frame control and animation of the approach.

Mobilisation plan: Define themes targeted by the diagnosis and the different scenarios to be considered.

RESULT

Diagnostic roadmap defined

2 Identification of vulnerability factors



Identify the priority impacts of climate change on the region in relation to the issue under consideration and break them down into several levels of impact of increasing intensity.

RESULT

Identification of impacts and associated climatic and non-climatic vulnerability factors.

3 Selection of vulnerability indicators



For each impact, select the indicators needed to assess climatic and non-climatic vulnerability factors.

Define the hydroclimatic simulations to be used and specify the working scale.

RESULTS

Selection of indicators of changes in factors.
Refined study zoning

4 Assessing vulnerabilities



Identify and characterise actions that meet adaptation objectives. Gather and analyse the information needed to prioritise and sequence actions.

RESULT

A vulnerability score per study area and per impact, for each hydroclimatic scenario.

5 Summary and formatting results



Analysing and formatting the results.

Communicate the vulnerability results obtained.

RESULTS

Vulnerability maps for territory, divided into study zones.

And/or a summary sheet presenting the results graphically.



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