explore 2070

Water and climate change:

The possible adaptation strategies

Over a short time, climate change has become a major source of concern. By modifying the environmental water cycle, (rain, watercourses, water table, coast, etc.), this phenomenon now affects human, animal and plant life. Although the scientific community is still honing its understanding of the strength and dynamic of these changes, political leaders now feel that it is vital to forecast these changes, to allow our societies to adapt.

Explore 2070 offers a systemic vision to the impacts linked to water cycle changes and aims to work on adaptation strategies for mainland France but also overseas departments between now and 2070. The project identifies the risks and costs linked to various climatic, demographic and socio-economic scenarios and assesses the ability of adaptation strategies to minimise them.

Calling upon around one hundred experts for a period of two years, Explore 2070 is bringing together the best national experts, from research establishments and specialised centres. The project features an original integrated approach and is long awaited by the political and scientific communities. It will be promoted on several occasions on a national, European and international level.

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RÉPUBLIQUE FRANÇAISE
Ministère de l'Écologie, du Développement durable et de l'Énergie

Ministry for Ecology, Sustainable Development and Energy

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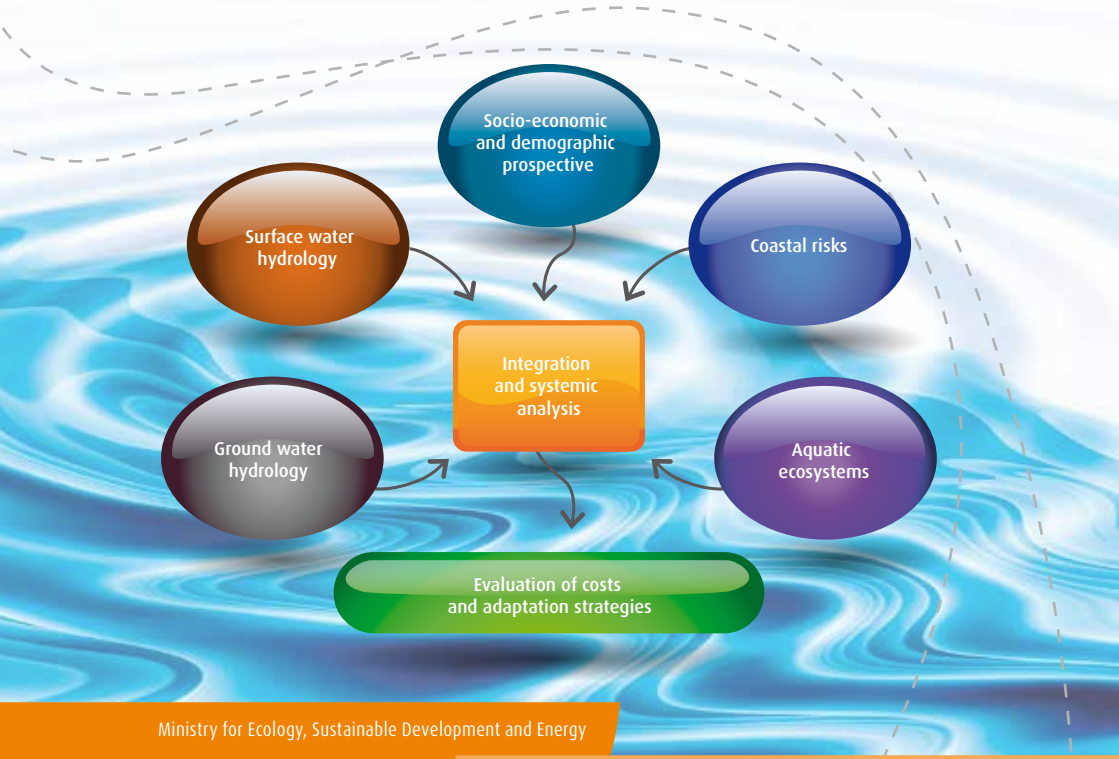
The aim

Explore 2070 aims to assist national, regional and local public leaders in their decision-making process in the field of climate change adaptation. It constitutes a source of reference for the scientific world as well as a source of information and awareness raising for the public at large.
All of these stakeholders could take advantage of an original and global approach regarding the following major issues:

- Water resource availability and needs;
- Preservation of aquatic ecosystems;
- Protection of coastal areas;
- The risks caused by climate hazards;
- Integrated water management;
- Adaptation of economic sectors, whose activity is water-related;
- Social transformations.

The perimeter

The specificity of Explore 2070 is to offer an integrated approach on multiple themes, with a national perimeter for 2050-2070.



The dynamic

1. Choose the scenarios

Imagine the climate, demographic and socio-economic scenarios.

2. Take inventory of the impacts of climate change

Create a model of climate change impacts on natural environments and humans.

3. Identify risks and organise them into a hierarchy

Preserve human existence, protect the environment, safeguard our heritage and adapt our societies.

4. Define adaptation strategies

Draw up adaptation strategies based on the fixed priorities, with a view to minimising identified risks and the associated costs.

5. Supply assistance for decision-making

Build a tool to help with decision-making, allowing us to test choices and understand their consequences.

6. Appraise costs

Appraise the costs of all adaptation strategies on both a regional and local level.

Stakeholders

Management

- **Ministry for Ecology, Sustainable Development and Energy**
  - Directorate General for Land Planning, Housing and Nature (DGALN)

Associated stakeholders

- **Ministry for Ecology, Sustainable Development and Energy**
  - Directorate General for Risk Prevention (DGPR)
  - Directorate General for Energy and the Climate (DGEC)
  - General Commissariat for Sustainable Development (CGDD)
  - Regional Directorate for the Environment, Land Planning and Housing
  - Centre for Technical, Maritime and River Study
- **National water and aquatic environment office (ONEMA)**
- **Water agencies**

The projet's service providers

Contact

- **Underground Water and Water Resource Office (DGALN)**
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