

# The necessary adaptation

Integrating climate change challenges into the management of protected natural areas

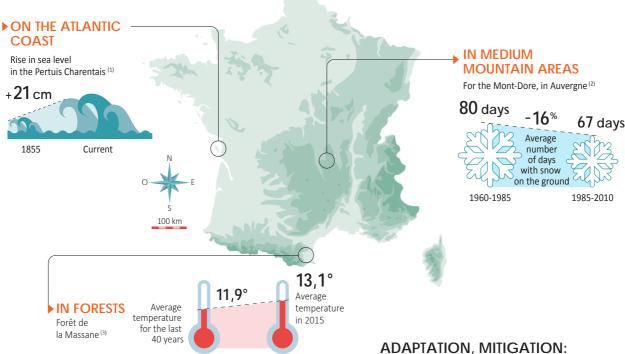


# **CLIMATE CHANGE** IS ALREADY OBSERVED

#### IN NATURAL AREAS ...

The reality of climate change can be measured due to noticeable effects on a local scale.

The examples below are taken from a large quantity of data collected around mainland France from areas close to nature reserves.



 Climate change is affecting our job as managers, here and now.

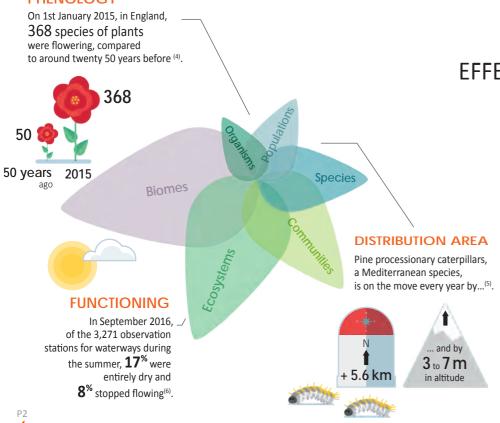
We are facing a collective challenge: adapting our protected area management practice to this new context.

# WHAT ARE WE TALKING ABOUT?

- An activity helps to mitigate climate change if it contributes to the stabilisation of greenhouse gases in the atmosphere.
- An action helps with adaptation to climate change when it limits the negative impacts of climate change or takes advantage of the positive effects.

Sources: see references on the last page

#### **PHENOLOGY**



... AND HAS DIRECT EFFECTS ON BIODIVERSITY AND ECOSYSTEMS

> Biodiversity is affected by the ongoing changes, across all levels, from the organism to the biome.

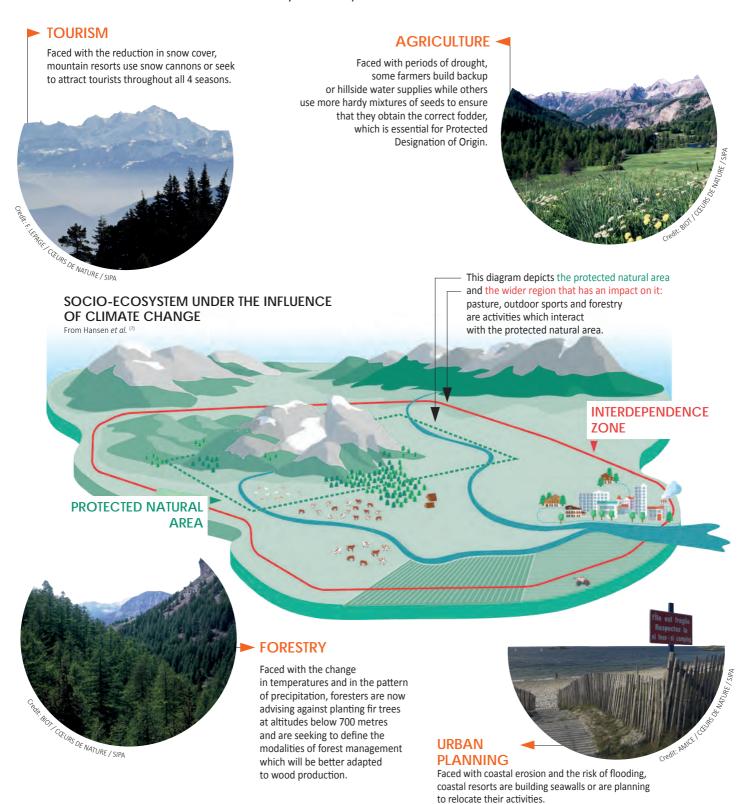
• The effects of climate change on natural areas are already being observed in France and in Europe. It is difficult to anticipate as little is known about them. Our management must nevertheless evolve, even if not all of the relevant facts are under control.

# **ALL INTERCONNECTED: INDIRECT EFFECTS**

# WILL ALSO OCCUR

#### A protected natural area does not function like an isolated system:

a variety of uses (agriculture, tourism, forestry...) and many stakeholders influence the protected area from inside or from outside. Climate change shaking up "socio-ecosystems" within which protected areas exist. It creates a context in which all sectors of society must adapt.



• In a context of climate change, protected natural areas require a greater degree of reflection in terms of interdependence with the way land is used as well as with other stakeholders.

Options for adaptation taken by some stakeholders must not create increased pressure on others, notably on natural areas. Compatible actions must be sought.

# ANTICIPATE TO SUPPORT THE ADAPTATION OF PROTECTED NATURAL AREAS: LIFE NATUR'ADAPT

Currently, in France and in Europe, adaptation is not sufficiently taken into account due to a lack of appropriate tools.

Réserves Naturelles de France and a partners network have decided to address these issues and to put forward the **LIFE NATUR'ADAPT project.** 

"A dynamic collective learning process for Climate Change Adaptation in Europe's protected Areas"

## THE NATUR'ADAPT PROJECT

Natur'Adapt aims at triggering a transition towards the adaptive management of protected areas while laying the foundations of a dynamic collective learning process. It will provide managers with methodological tools which will be trialled and tested on pilot sites.

Within 10 years, RNF is seeking to guide 80% of Nature reserves with adaptation to climate change through adaptative management, planning and governance.

#### Principles of the project:

#### ▶ RELIANCE ON FRAMEWORKS THAT HAVE BEEN TESTED IN OTHER CONTEXTS

Solutions exist at international level.

Adaptation has become a dominant tendency in the management of protected natural areas in countries such as the USA and Mexico.

#### ▶ RELIANCE ON THE REQUIREMENTS AND EXPERIENCE OF MANAGERS

The aim is to develop operational tools that meet the requirements and are best adapted to the practices of users.

The main tools developed will provide several layers of implementation that are adapted to the situations and resources of administrators.

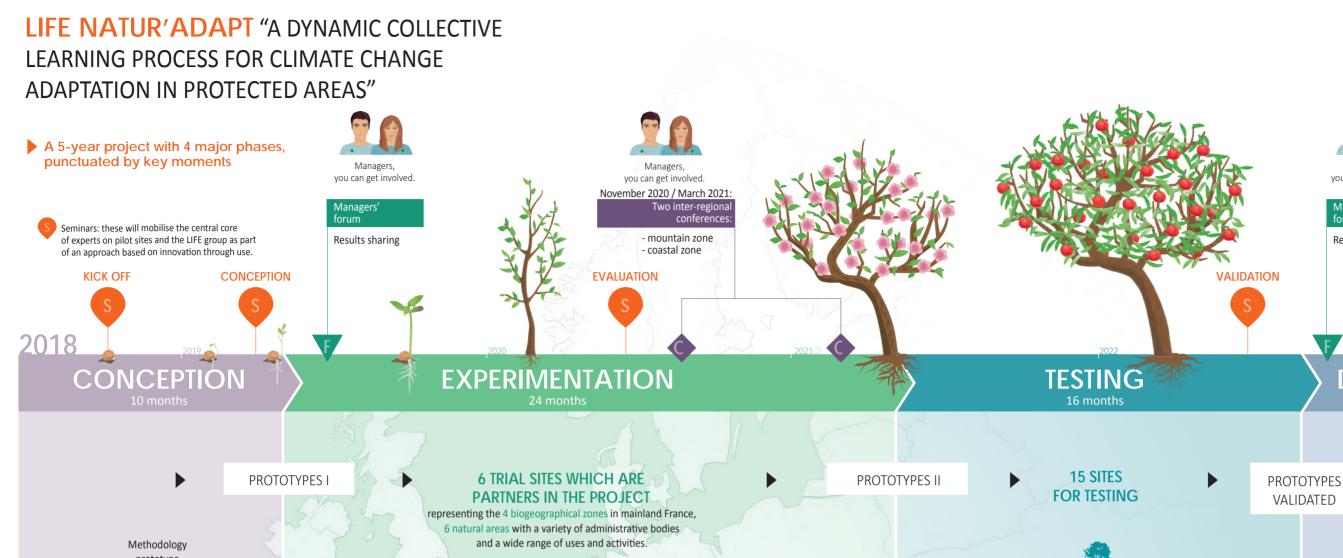
#### ► RELIANCE ON COLLECTIVE INTELLIGENCE AND PARTNERSHIP

One of the project's strengths is the cross-expertise provided by ten partners with a wide and complementary range of skills. This expertise is enriched by a network of stakeholders that has progressively been set up. The user of these tools is both the co-creator and the tester of the solutions.

#### **▶** RELIANCE ON EXPERIMENTATION

The tools developed (prototypes) are trialled on six pilot nature reserves, which are partners in the project, then tested on fifteen other protected natural areas.







Managers,

you can get involved.



Managers, you can get involved.

European conference EUROPARC 2023

Results sharing

2023

DISSEMINATION

**TRANSFER** 

**IN FRANCE** 

AND IN EUROPE

# **Deliverables**

- Tools for learning and professionalisation to integrate climate change, including a methodology for carrying out a vulnerability diagnosis and an adaptation plan.
- A collaborative platform of resources for adaptation to climate change in protected natural areas.
- Experience feedback from administrators in France and in Europe.
- Communication tools adapted to different audiences to facilitate a change in behaviour.

A dynamic in France and in Europe to adapt nature protection to the challenges of climate change.

you can get involved.

### Protected natural areas, places of experimentation for local ecological transition, laboratories providing solutions for territories

Are you the manager of a protected natural area? You can get involved in the project.





#### **Project coordinator**



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#### Partners involved in the project



















#### **Project co-financers**







The NaturAdapt project has received funding from the LIFE Programme of the European Union

#### LIFE 17 CCA/FR/000089-LIFE #CC #Naturadapt

(1) Gouriou, T. (2012) "Évolution des composantes du niveau marin à partir d'observations de marégraphie effectuées depuis la fin du 18 ene siècle en Charente-Maritime", Thesis, University of La Rochelle, 492p

(2) Serre, F. (2015) Les singularités du climat et son évolution récente dans le massif des Monts Dore et dans la réserve naturelle nationale de Chastreix-Sancy Parc naturel régional des Volcans d'Auvergne, 48p

(3) Garrigue, J. et al. (2016) Climatologie - Analyse des données 2015, Travaux de la Massane, Volume n° 106, 34p (4) www.mnhn.fr

AFB (2017) Waterways flow during the summer months, Summaries n°15, 12p, www.eaufrance.fr