

Égalité Fraternité



# PARTIAS REGIONAL NATURE RESERVE

2017 - 2050



## **IDENTITY CARD**

GEOGRAPHICAL LOCATION

Puy-Saint-André (05)

#### TARGET ADAPTATION ISSUE(S)

• Diversification of tree species to combat forest dieback

HABITAT(S) CONCERNED

Forest ecosystems

#### TYPE(S) OF NBAS

Preservation of ecosystems: adaptation of a mountain forest to climate change

#### PROJECT LEADER(S) AND ASSOCATED PARTNER(S)

- Birds Protection League -Provence-Alpes-Côte d'Azur (LPO PACA)
- Puy-Saint-André municipality
- Provence-Alpes-Côte d'Azur region
- Serre-Chevalier ski resort
- Nature 2050 Programme -CDC Biodiversité

#### **FUNDERS AND BUDGET**

• Nature 2050 Programme -CDC Biodiversité: 30000€

In addition, the Partias RNR and CDC Biodiversité will cover the cost of maintaining and monitoring the project until 2050.





#### REGULATORY CONTEXT OF THE PROJECT

preserve silvicultural resources and develop eco-tourism activities.

- Regional nature reserve
- « Massif du Pelvoux » listed site

## **CONTEXT AND ISSUES**

The Partias Regional Nature Reserve is a 685-hectare mountain area rising from an altitude of 1600 m to 2900 m in the Briançonnais region (Hautes-Alpes department).

LPO PACA and the municipality of Puy-Saint-André have been appointed co-management bodies by the Provence Alpes-Côte d'Azur region. The first management plan for the period 2011 - 2016 identified the conservation of forest species as a priority.

The Reserve is home to the Swiss Pine, a hardy and rare conifer adapted to high mountain habitats, growing at altitudes of between 1700 and ,500 m. This central European mountain species is threatened by pressure from sheep grazing, its slow growth rate and competition with Larch, a species favoured for forestry. Its disappearance has a negative impact on the biological diversity of mountain forests.

# ACTIONS IMPLEMENTED

Begun in 2018, the work involved:

- Diversifying the forest massifs by restocking with Swiss Pine (planting 3 000 saplings over 7 hectares through a 10-day participative worksite involving 148 volunteers). Llamas and horses carried the equipment to the area. To reduce the pressure of pastoral activities, a programme of mediation and support for livestock farmers was developed to facilitate the colonisation of the upper part of the forest (where grazing is forbidden for at least 20 years).
- Tagging 300 Swiss Pines out of the 3000 trees planted in late 2018, i.e. 10%, to monitor their reestablishment.
- Restore the ropes demarcating the anti-disturbance areas for Black Grouse

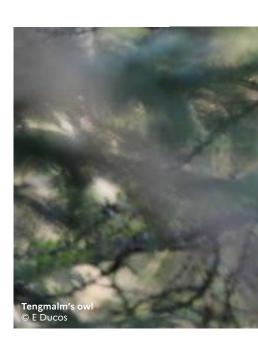
## GOVERNANCE ADOPTED

In the long term, the Partias RNR will be responsible for managing, maintaining and monitoring the planted trees. The RNR is also supported by CDC Biodiversité via the Nature 2050 programme and its scientific partners for defining and monitoring indicators until 2050, in addition to funding the action. From the outset, the project has been firmly rooted in the local area, supported by a wide range of contributions from local residents, businesses (in particular Compagnie des Alpes), associations and public partners.

### **SCHEDULE**

#### **PROJECT LIFESPAN**

	2018	2019	2021
Work	Planting 3000 Swiss Pines over 7 ha.		Restoring ropes demarcating anti- disturbance areas
Monitoring and assessment		Monitoring marked trees and Nature 2050 programme indicators until 2050.	



# BENEFITS AND CONTRIBUTIONS OF THE PROJECT



## BENEFITS REGARDING TARGETED ADAPTATION ISSUES

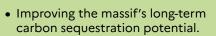
- Preventing soil erosion.
- Diversifying tree species and thus improving the resilience of the forest massif to climatic conditions.

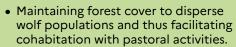
#### BENEFITS FOR BIODIVERSITY



- Increased habitats for populations of heritage species, in particular Black Grouse.
- Reduced disturbance from sheep farming and tourism.

#### OTHER BENEFITS





# MONITORING INDICATORS

#### Adaptation to climate changes

 Ecosystem evolution/maturity: measurements to assess soil conditions and the natural abundance of Nitrogen 15 in leaves

#### **Biodiversity**

- Temporal monitoring of common birds (Vigie Nature)
- Song and bioacoustic counts and surveys of Black Grouse burrows
- Monitoring of wintering areas and Black Grouse populations
- Introduction to SPRING (Strengthening Pollinator Recovery through Indicators and Monitoring) projects
- Monitoring small mountain owls
- Monitoring mammals using camera traps
- Studying ground fauna with INRAE
- Hoverfly survey to determine the state of health of the RNR's habitats

#### LEVERS FOR SUCCESS

#### TECHNICAL ASPECTS AND PROJECT DESIGN

- Choosing species adapted to the habitat: Swiss Pine is not the most resistant species to climate change, but it is the most adapted to mountain habitats. The plants come from a nursery in the Hautes-Alpes, from the Bois des Ayes (8-10 years old) and Piedmont in Italy (3-4 years old).
- Taking local issues into account: the planting area was chosen on the basis of avalanche paths, grazed or forestry plots and the habitats of Black Grouse, which feed on Swiss Pine needles and can therefore find refuge there in winter. Priority was given to well-lit forest edges and wooded slopes.
- Pooling equipment: for this type of participative work, you need pickaxes and heavy-load carriers provided free of charge by local organisations (CPIE, SIVM de Serre Chevalier, ONF, etc.).
- Communicating extensively to recruit volunteers: the best information vector for recruiting volunteers is the network of partners or by email, LPO volunteers and word of mouth. Communication via posters in the municipality, the distribution of flyers, through the press and social networks also proved effective in mobilising volunteers.

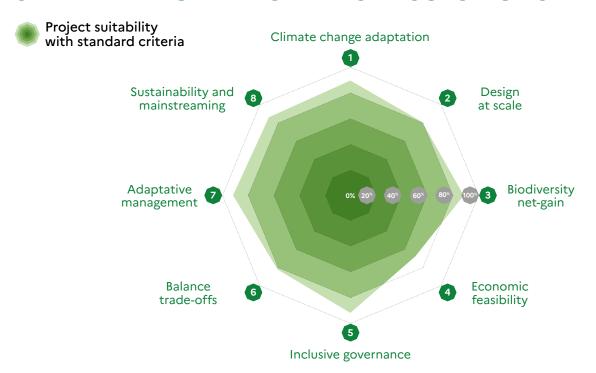
#### STAKEHOLDER COMMITMENT

- Public consultation: sharing and raising awareness of forest issues with the general public and explaining the Nature 2050 ecological restoration project.
- Visitor awareness: alerting groups to the risk of Black Grouse disturbance in both winter and summer.
- Reconciling uses: organising consultation meetings with livestock farmers to reduce the pressure from sheep on planted trees.

## MONITORING AND REPLICABILITY OF THE ACTION

- Long term management: drawing up a 2021-2030 management plan for the RNR with monitoring actions for the Nature 2050 project.
- Monitoring saplings: of the 3000 saplings, we chose to monitor 300 (117 large 8 to 10-year-old saplings and 183 small 3 to 4-year-old saplings).
   In 2022, 70% of these saplings were still alive. The small saplings proved to be more robust in the face of challenges such as the weather, animals and disease.

# ANALYSIS ACCORDING TO THE IUCN'S GLOBAL STANDARD FOR NATURE-BASED SOLUTIONS



#### FOR FURTHER INFORMATION

- Webpage (in French) of the Nature 2050 programme
- Webpage (in French) of Réserves Naturelles de France
- Webpage (in French) of LPO des Hautes Alpes

# CONTACT DETAILS OF THE PROJECT LEADER

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#### **DATE**

March 2023 January 2024

## DATE AND FACT FILE EDITOR

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