

# BEAU SOLEIL DES LANDES

## 2018 - 2050

### IDENTITY CARD

#### GEOGRAPHICAL LOCATION

Maisdon-sur-Sèvre (44)

#### TARGET ADAPTATION ISSUE(S)

- Mitigation of very high temperatures
- Runoff control

#### HABITAT(S) CONCERNED

Agricultural ecosystems

#### TYPE(S) OF NBAS

Sustainable management of ecosystems : recultivation and regeneration of former vineyards through agroforestry practices and rotational grazing

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

- Beau Soleil des Landes Farm
- « Trees for the Future » contest 2018 – Pur Project, Accor
- Nature 2050 Programme – CDC Biodiversité
- League for the Protection of Birds (LPO)
- Mission Bocage
- Sèvre et Maine Emploi Solidaire (SEMES)



Trees planted close to the hen coop  
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#### FUNDERS AND BUDGET

- « Trees for the Future » contest grant– Nature 2050
- Owner's funds

Total budget : **16 650€**

Plus the cost of sustaining and monitoring the project until 2050, to be covered by the Beau Soleil des Landes farm and CDC Biodiversité.



## PROJECT OBJECTIVES

- **For adapting to climate change :** mitigate the effects of climate change through the creation of microclimates, improve the infiltration of rainwater and control runoff.
- **For biodiversity :** create conditions favouring the return of biodiversity and a refuge for local species.
- **For the local area :** integrate these developments in local added-value economic activities.



## CONTEXT AND ISSUES

The project is located in the municipality of Maisdon-sur-Sèvre, in the touristic metropolitan area of Clisson, Loire-Atlantique. The site is situated in the historic Muscadet wine-growing area, which now has many abandoned vineyards, with urban sprawl gradually eating away at agricultural land. The soils of these abandoned vineyards have been impoverished by more than 20 years of conventional monocultural winegrowing. The Beau Soleil des Landes farm has made the transition to organic farming and is leading one of the few agroforestry projects in the Loire-Atlantique department. Its activity is divided between the extensive raising of about twenty dairy cows and egg-laying hens, and diverse market gardens partially processed on the farm (jams). The produce of the farm and other producers in the area are sold directly at the farm shop or to local organic shops and restaurants.

The planted areas extend over a 7-ha site characterised by a soil that has been impoverished, polluted and compacted by 20 years of conventional agricultural practices. The adoption of agroecological practices, notably the planting of hedges, improves the infiltration of water and favours the proliferation of beneficial organisms, which in turn improve the resilience of the farm.

Creation of a pond to complement  
the planting operations  
© CDC Biodiversité

### REGULATORY CONTEXT OF THE PROJECT

- The Pays du Vignoble Nantais Territorial Coherence Scheme (SCoT)
- The Pays de the Loire Regional Ecological Coherence Scheme (SRCE)

## ACTIONS IMPLEMENTED

Begun in 2018, the works consisted in :

- Creating 1000 metres of mounds, fertilising and mulching, and planting 2348 trees and shrubs suited to the pedoclimatic context (including 248 agroforestry trees, 300 fruit bushes and 1000 berry bushes).
- Planting 200 linear metres of fruit trees and 600 linear metres of hedgerows; alternating two lines of fruit trees and one line of nitrogen-fixing trees over a surface area of 4L8 ha. The lines follow the contours manually determined using a laser measurement tool at night.
- Deploying other green infrastructure for the management of runoff, in particular ponds, muddy areas and ditches, which proved to act as refuges for biodiversity and as carbon sinks.
- The works were carried out by means of participative worksites and maintenance is performed by several employees, notably through a mentoring system that puts the farm in contact with refugees. The replanted areas concerned approximately 5% of the young plants, especially in the wetlands, where willow and poplar cuttings were preferred. The farm's business model is fairly diversified, and includes renting out land for camping and hosting teleworkers.

## GOVERNANCE ADOPTED

In the long term, the owners take responsibility for the management, maintenance and monitoring of the trees, bushes and hedges planted.

The farm is also supported by CDC Biodiversité through the Nature 2050 programme and its scientific partners for defining and monitoring indicators until 2050, in addition to co-funding the action.

## SCHEDULE

PROJECT LIFESPAN				
	2018	2019	2020	2021
<b>Works</b>		Start of works : preparation of the soil, creation of mounds and first planting phase	End of works and replanted areas (5%)	
<b>Life of the project</b>	4 <sup>th</sup> edition of the « Trees for the future » contest	The farm joins the LPO « Paysans de nature » programme Initial survey of biodiversity on the farm with the LPO		Building upon the Nature 2050 programme : acquisition of 1 ha of vineyards to plant a wood to act as a barrier to the phytosanitary excesses on neighbouring land
<b>Monitoring and assessment</b>			Monitoring of indicators until 2050	

# BENEFITS AND CONTRIBUTIONS OF THE PROJECT



## BENEFITS REGARDING TARGETED ADAPTATION ISSUES

- Regenerating and stabilising the soil : the soil is structured and fertilised by the root systems of the trees and shrubs.
- Controlling runoff : trees assist the deep infiltration of rainwater and its filtration in the soil.
- Mitigating very high temperatures : enhanced shade to create cool areas on the farm.



## BENEFITS FOR BIODIVERSITY

- Protecting the biodiversity of the farm from pollution and very high temperatures : using the windbreak effect of the trees to act as a barrier to pesticide residues and increase the shade provided to improve the well-being of farm animals.
- Creation of habitats propitious to wildlife : the hedges are a refuge for wildlife, notably beneficial organisms, and naturally fertilise the soil via their root systems.

## OTHER BENEFITS



- Sequestration of carbon.
- Enhancing the food sovereignty of the local area.
- Integration in local added-value economic activities (use of firewood, commercialisation through partners, fuelwood sector, etc.).

## MONITORING INDICATORS

### Adaptation to climate changes

- Evolution/maturity of the ecosystem: measurements to assess the health of the soil and the natural abundance rate of Nitrogen 15 in the leaves.

### Biodiversity

- Wildlife surveys (birds, reptiles, amphibians, insects), continuous biodiversity monitoring with the LPO, notably in the framework of the « Paysans de nature » charter, to which the farm is signatory, pedological analysis.



# LEVERS FOR SUCCESS

## TECHNICAL ASPECTS AND PROJECT DESIGN

- **Adapting to local conditions** : the choice and mound-planting of tree species were determined by the hydromorphic situation, however maintenance proved complicated (more practical to work on the flat). Regular maintenance with a rotary slasher is required for the first three years.
- **Innovating** : using green fertiliser made from oats to depollute the soil.
- **Seeking an economic balance** : planting berry bushes provides additional income for the farm.

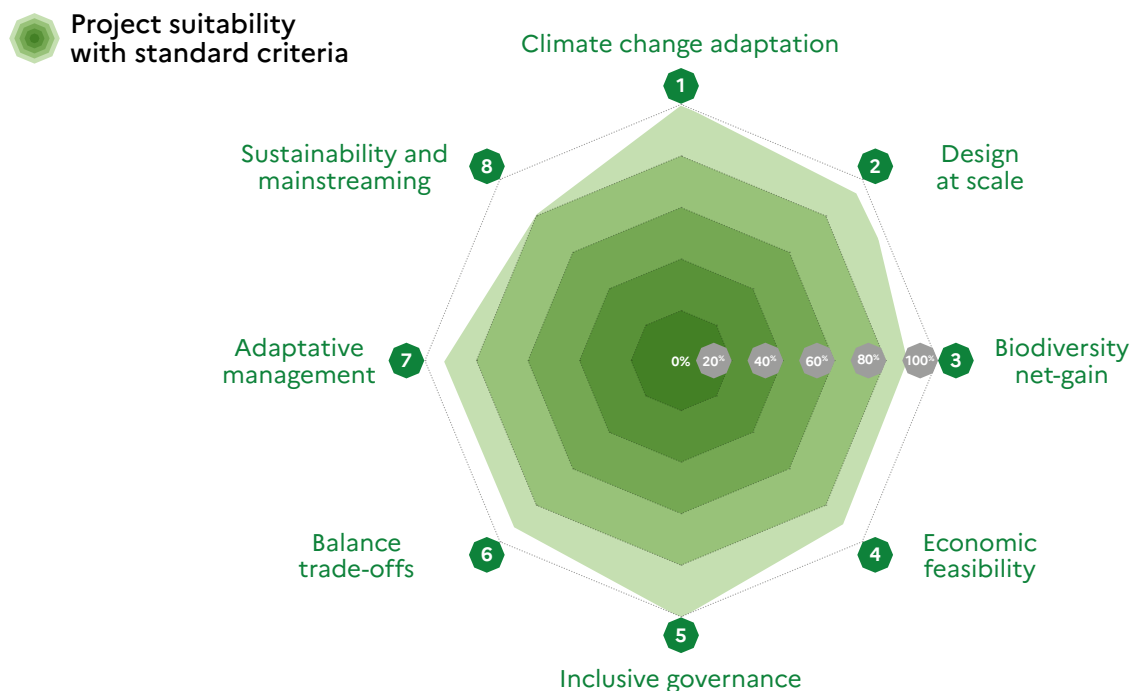
## STAKEHOLDER COMMITMENT

- **Benefiting from expert advice** : the farm was assisted by local stakeholders (nurseries, associations, etc.) in the selection of tree species and farming practices.
- **Getting involved in local production** : the farm supplies its wood to the local area.
- **Consulting with local decision makers** : the farm can count on the support of the municipality.

## MONITORING AND REPLICABILITY OF THE ACTION

- **Assessment** : the regular monitoring of species abundance by the LPO and indicators of soil and plant health by CDC Biodiversité enable the benefits of agroecological practices to be assessed scientifically.
- **Replicability and influence** : through its « introductions to self-sufficiency » and participative worksites organised throughout the year, the farm contributes to the dissemination of knowledge and the training of agroecological project leaders.
- **Sustaining the project over time** : its integration into the Nature 2050 programme will ensure the sustaining of monitoring until 2050.

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



## FOR FURTHER INFORMATION

- Webpage (in French) of [the farm](#)
- Webpage (in French) of [the Nature 2050 programme](#)

## CONTACT DETAILS OF THE PROJECT LEADER

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<https://www.beausoleildeslandes.com/contact/>

## DATE

July 2023  
January 2024

## DATE AND FACT FILE EDITOR

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**CDC** BIODIVERSITÉ

