

# European Volunteer Team for the Environment 2015

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# The team

**Mélissa**



**Mirjam**



**Marta**



**Marine**



**Baptiste**



**Antiopi**





# **Our main goal**

**Create a scientific culture center in  
Brocéliande country :  
« The Sciences and Nature Gate ».**





# **Our missions**

- **Scientific : increase the knowledge about fauna and flora of the area, communication about the datas and communication.**
- **Manual work : increase the station environnement**
- **Cultural : Open the station for the non-scientist public with animations, events...**

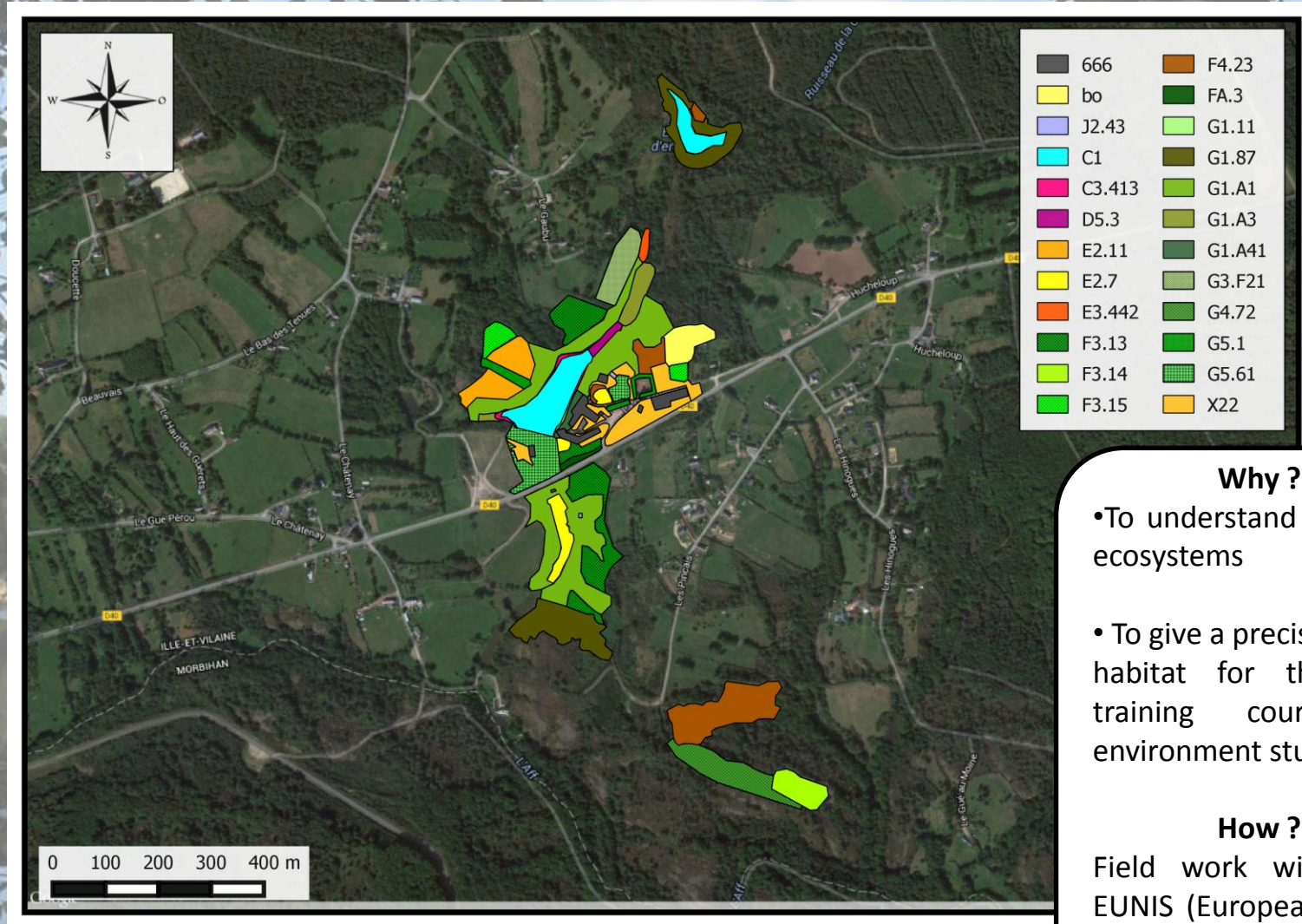




# **The scientific missions**



# Natural Habitat Inventory



## Why ?

- To understand the local ecosystems
- To give a precise map of habitat for the futur training courses of environment student

## How ?

Field work with the EUNIS (European Nature Information System) classification



# Natural Habitat Inventory



Surface standing waters



# Natural Habitat Inventory



**Quercus - Fraxinus - Carpinus betulus woodland on eutrophic and mesotrophic soils**



# Natural Habitat Inventory



**Atlantic Erica - Ulex heaths**



# Natural Habitat Inventory



Swamps and marshes dominated by *Juncus effusus* or other large *Juncus* spp.



# **Local Biodiversity of Brocéliande Observatory**

- **Proofreading and correction of the 2013 report for publication**
- **Writing the 2014 report of the observatory (for public communication)**
- **Synthesys of all the results since 2012 from the Rovenec land plot**



# Local Biodiversity of Brocéliande Observatory



Station Biologique de Valpont

## Mise en œuvre d'un Observatoire de la Biodiversité Locale sur le Massif de Brocéliande (Année 2)



Décembre 2013  
Marie-Camille DECOCK  
Daniel CLUZEAU  
Relecture : Marine BLIN et Baptiste BREGET

La Figure 20 présente l'abondance moyenne des papillons en fonction des différents types de bordures sur les parcelles. Si deux types de bordure sont présents sur une même parcelle, alors l'abondance des papillons est comptée par parcelle pour chaque bordure. Les trois bordures qui semblent influencer positivement sur l'abondance des papillons sont les bordures de lisière de bois, les haies et les chemins.

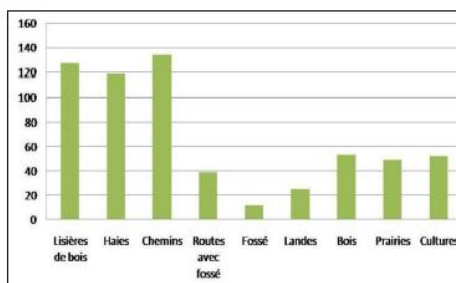


Figure 20 : Abondance des lépidoptères en fonction du type de bordures des parcelles observées

## 2.5 Plaques à Invertébrés terrestres

Différentes espèces ou groupes d'espèces d'invertébrés ont été dénombrés sur le territoire d'étude parmi les insectes (coléoptères, fourmis et fourmières, grillons, diptères, thysanoures et collembolles), les myriapodes, les araignées, les isopodes terrestres et les gastéropodes (Figure 21).

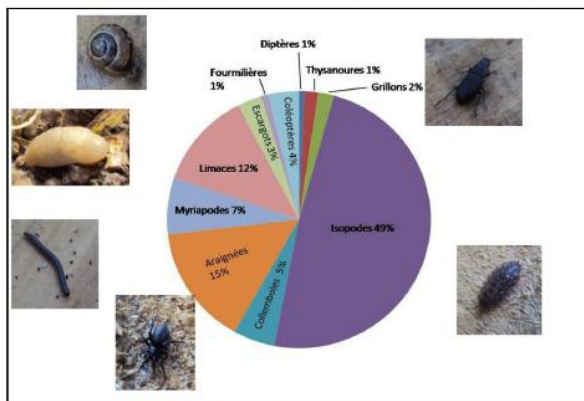


Figure 21 : Principales espèces ou groupe d'espèces d'invertébrés du sol observées entre juin et septembre 2013 sur l'ensemble des stations des 4 zones d'études de Brocéliande

## 1.3.4 Protocole plaque à invertébrés terrestres adapté aux landes du Val Sans Retour

Le protocole d'étude des invertébrés terrestres a été modifié sur deux landes du Val sans Retour afin de prendre en compte leur hétérogénéité. Le nombre de plaques a été augmenté de 3 à 7 et elles ont été disposées en transect, espacées les unes des autres de 3 à 5 mètres (Figure 10 et Figure 11). Le transect 1 (117, 118, 122, 123) est bordé de résineux et de feuillus. Le centre du transect est très marqué par le piétinement du à la fréquentation touristique.

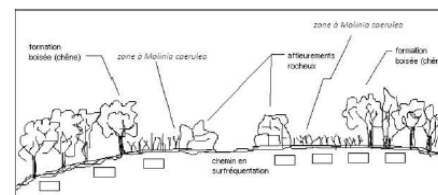


Figure 10 : Position des plaques du transect 1 et description de la végétation de la lande

Le transect 2 traverse la parcelle 99 et est bordé par le GR37 très fréquenté, surtout en période estivale. Les effets combinés de la sur-fréquentation et de l'érosion marquent la lande en mettant à nu le socle schisteux. La végétation présente est constituée principalement de bruyère et d'ajonc.

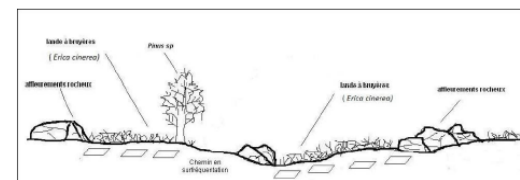


Figure 11 : Position des plaques du transect 2 et végétation de la lande

## 1.3.5 Types des bordures des parcelles

Les bordures des parcelles peuvent varier sur un même site ou d'une parcelle à une autre (chemin, fossé, haie, route...). La diversité de ces bordures peut influencer les résultats des observations c'est pourquoi ils seront pris en compte dans ce rapport. Les protocoles les plus influencés sont ceux étudiant les pollinisateurs. Si les nichoirs à abeilles ne sont placés que sur une seule bordure de



# **Differenciated green managment**

- **Writing the managment plan**
- **Create communication documents**
- **Information and consciousness raising panels**





# Differenciated green managment

Gestion différenciée à la Station biologique de Paimpont

## Why ?

- To work with more efficiency
- To protect some interesting habitat like the banks of the pond

## How ?

- Create a map of different managment (from « natural area » to « structured area »)
- Establish a precise planning of the different task for each type of area

## Légende

- Zone 2 - Zone structurée
- Zone 3 - Zone d'accompagnement
- Zone 4 - Zone champêtres
- Zone 5 - Zone naturelle
- Fontaine
- Spirale
- Batiment

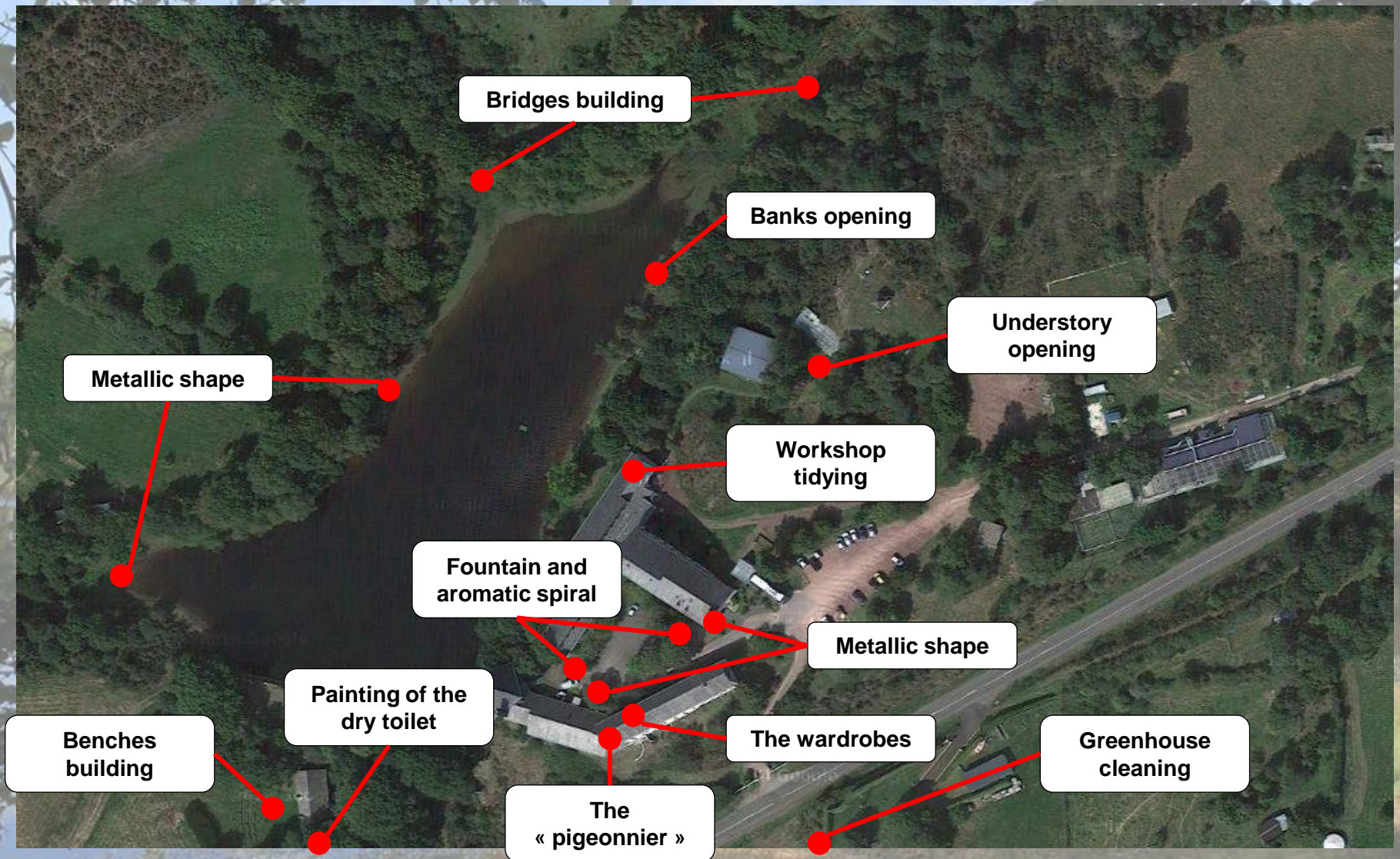


A scenic photograph of a calm lake reflecting the sky and surrounding greenery. In the background, two modern buildings are visible: a white, multi-story structure on the left and a more prominent building with a steep, dark roof and large glass windows on the right. The scene is framed by the dark, leafy branches of trees in the foreground. The sky is blue with scattered white clouds.

# Manual Work



# Manual realizations





# Inside and outside signage project

## Overview of the result

### Why ?

- The present outside signage isn't clear and there is not enough signs to find the important location.
- The inside signage is needed because there is a lot of different levels and rooms in all the buildings





# Inside and outside signage project

## Overview of the result



### How ?

- Presenting a global project with different type of signs for the outside and the inside.
- Including a first projected budget
- Get the validation of the administration for the future works



# Inside fitting : the « pigeonnier », leisure room

## Why ?

- The room was in a very bad state
- Volunteers , trainee and students didn't have a common room, except the little kitchen

## How ?

- Moving all the furnitures
- Repairing the walls
- Paint the walls
- Build a custom made table

Before





# Inside fitting : the « pigeonnier », leisure room

The « green  
paint mistake »





# Inside fitting : the « pigeonnier », leisure room

After





# Inside fitting : the « pigeonier », leisure room

The custom-made table





# Inside fitting : the wardrobes in the rooms

First experience with wood cutting

Christoph  
NICOLAI



Why ?

- A unique shelf in each room, not enough to put all the things needed during 4 or 6 months

How ?

- Adding three made-to-measure shelves in each room



The result



# Inside fitting : new shelves in the kitchen





# Outside fitting : the aromatic plants spiral



**Before**



**During**



**After**

## **Why ?**

The spiral was built by the previous EEVE team but was half destroyed already : the mortar used wasn't strong enough and people used to sit on the spiral.

## **How ?**

We removed all the unstable stones, emptied the spiral, added new stones with a proper lime mortar and used this mortar to embed all the stones.  
We also add a protection around the spiral to avoid that people sit on it.



# Outside fitting : the fountain

## How ?

As an art piece, we weren't even supposed to touch it, but we decided to clean it, to remove the leaves and use high pressure water.



## Why ?

The fountain was not maintained for a long time, a lot of leaves was inside, mosses were growing and nobody noticed this art piece anymore.



**Before**

**After**



# The abandoned greenhouse

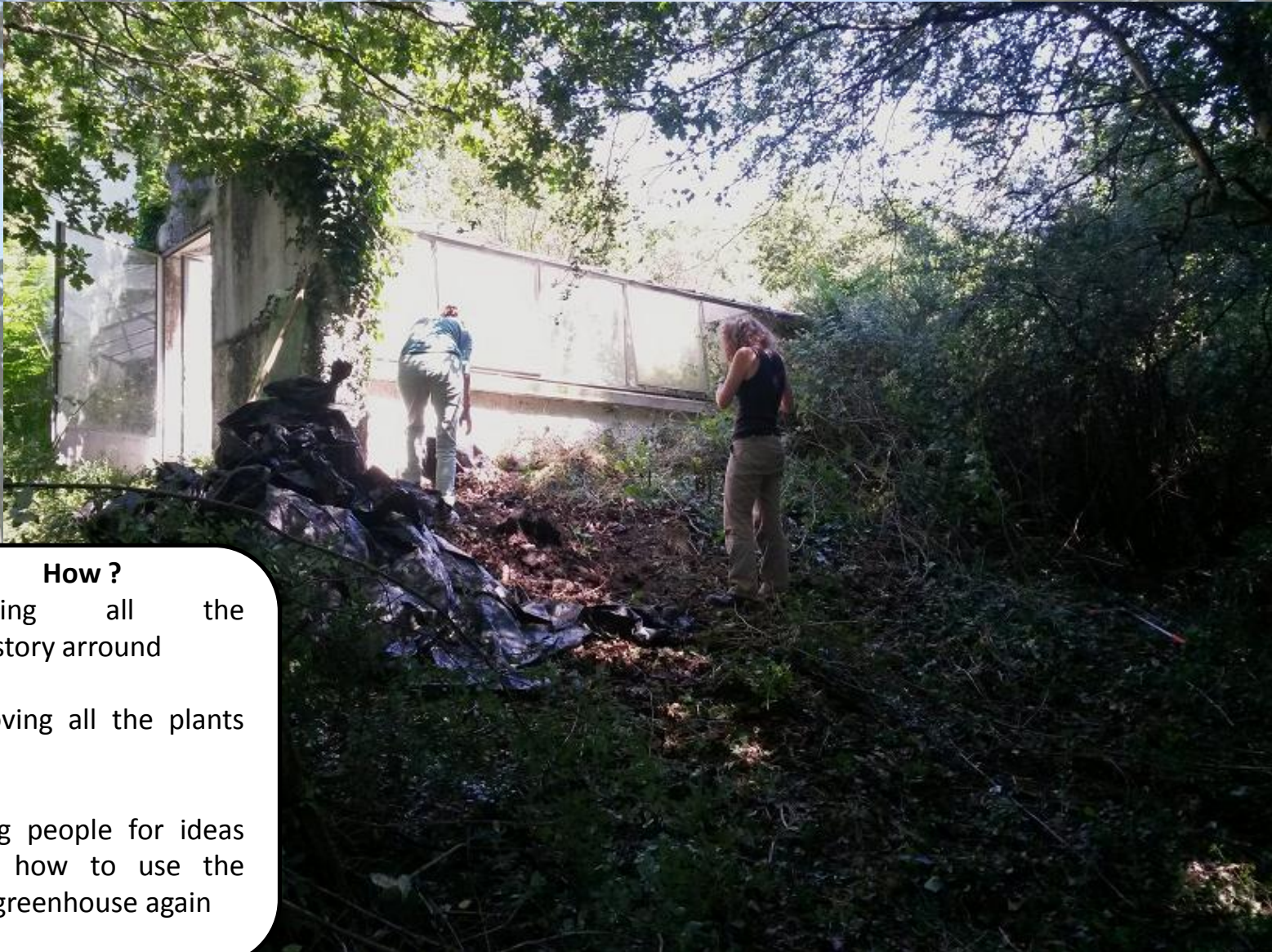
## Why ?

The place was completely abandoned, plants were growing inside the greenhouse and it was unusable





# The abandoned greenhouse



## How ?

- Cleaning all the understory around
- Removing all the plants inside
- Asking people for ideas about how to use the clean greenhouse again



# The abandoned greenhouse





# The abandoned greenhouse



**Before**



**After**



# Outside fitting : the bridges

## Why ?

During the winter season the path around the pond of the station is very muddy

## How ?

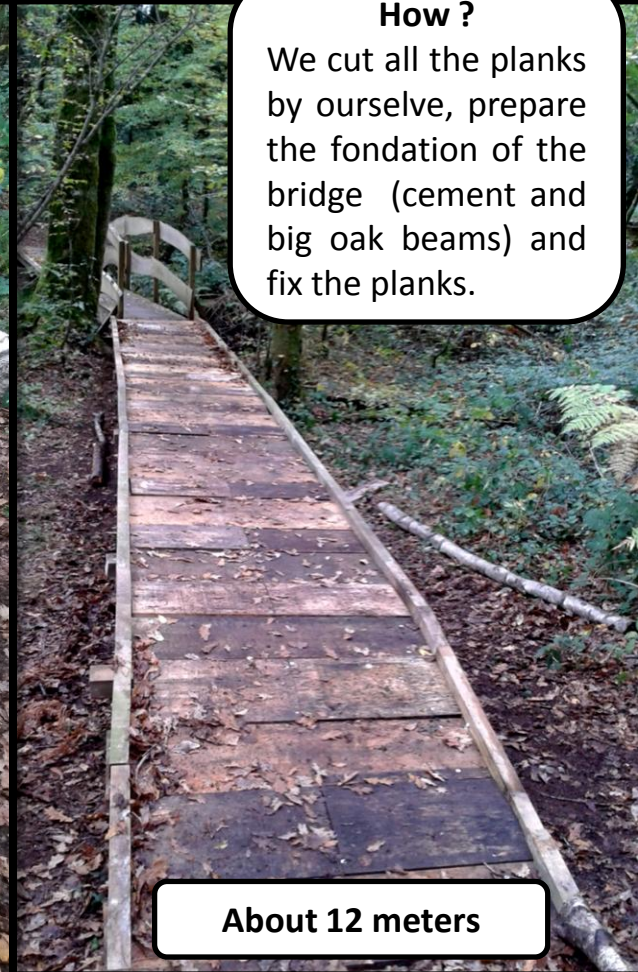
We cut all the planks by ourself, prepare the fondation of the bridge (cement and big oak beams) and fix the planks.



Before



During



About 12 meters

After



# Outside fitting : the bridges



**During**



**About 16 meters**

**After**



# Outside fitting : metallic shapes and sculptures

## Why ?

To improve the esthetic around the station and have visual support for environment education animation

## How ?

- With the Études et Chantiers team of Mine de la Brutz
- Plasma cutting
- Welding





# Outside fitting : the bench

## Why ?

Nowhere to sit outside, that lead to people to sit on the spiral.

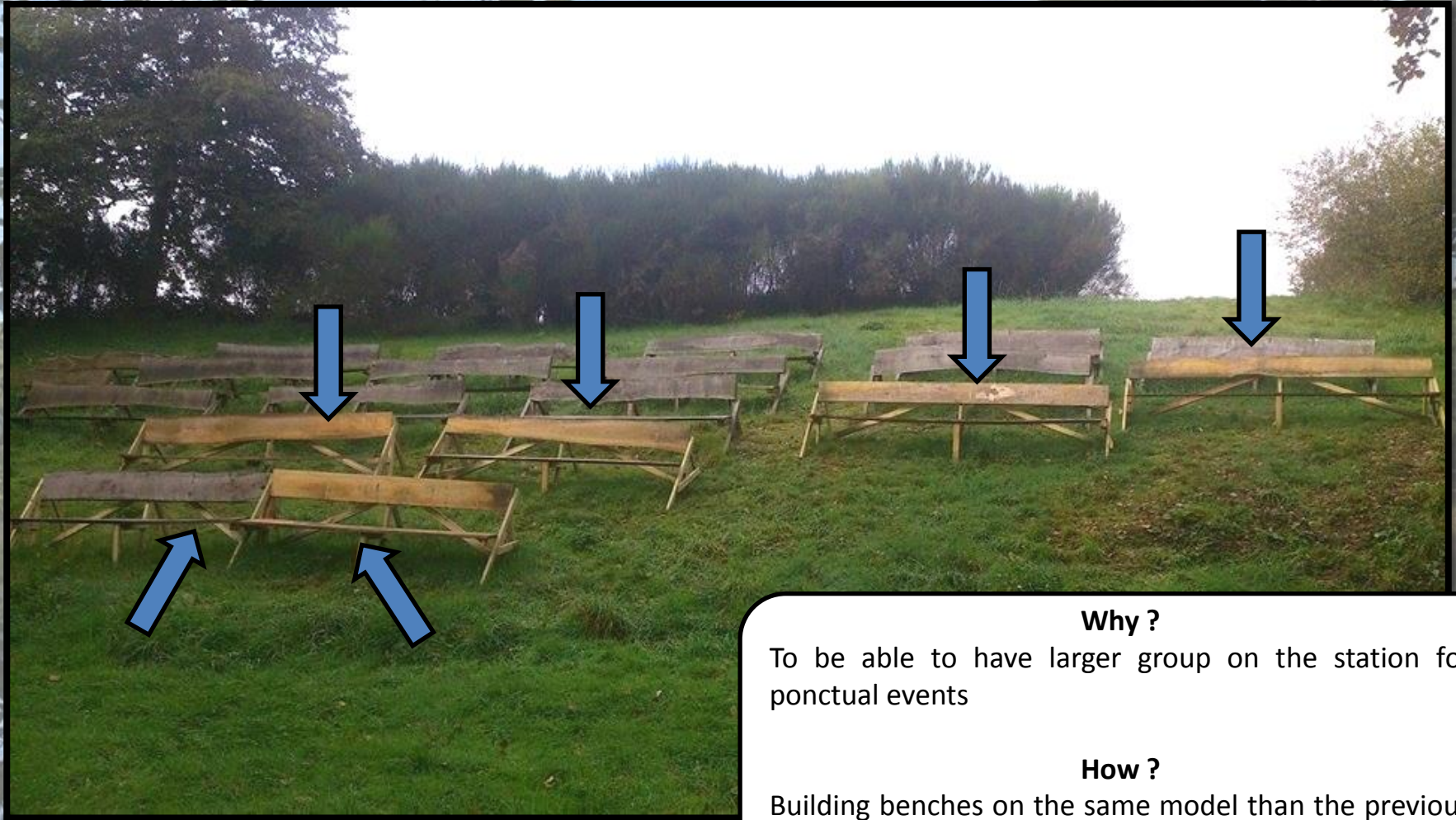
## How ?

- Extract a bench from an old amphitheater
- Protecting it with wood stain
- Fixing it on oak beam for the stability





# Outside fitting : the green amphitheater



## Why ?

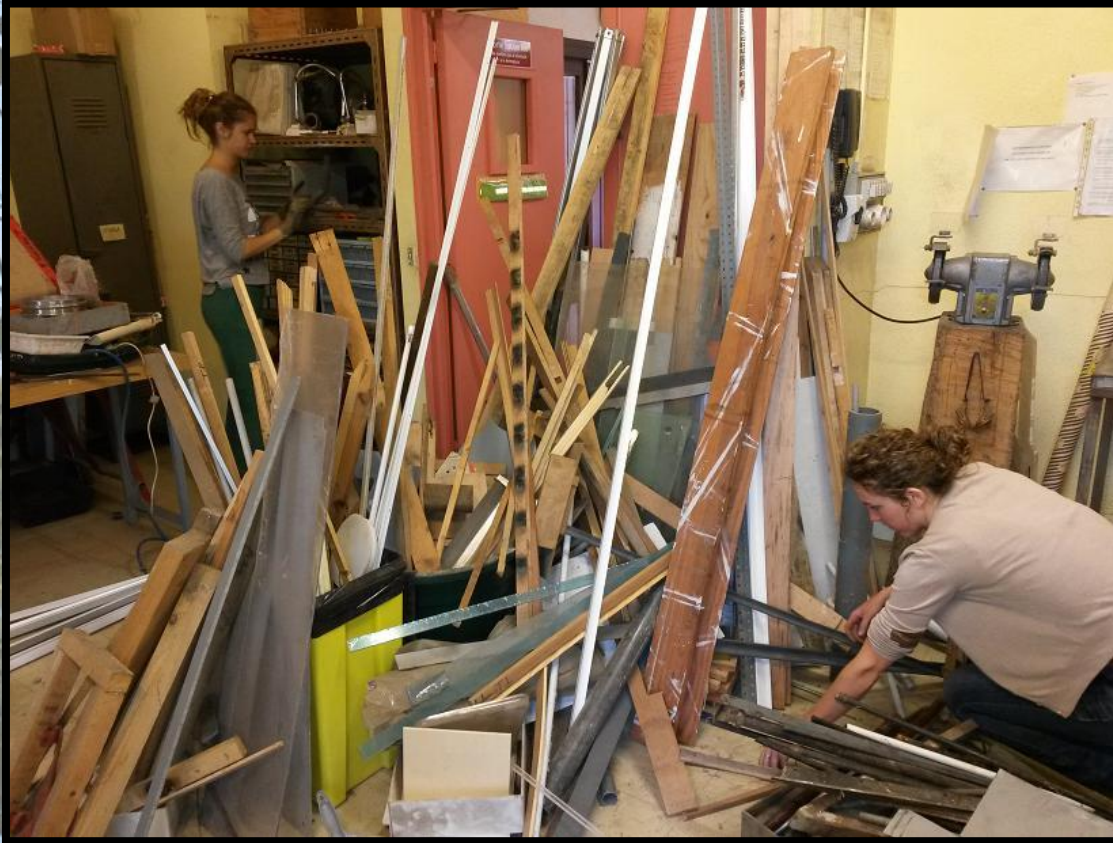
To be able to have larger group on the station for ponctual events

## How ?

Building benches on the same model than the previous years with large oak planksty



# Various work : workshop tidying





# Various work : painting the dry toilet





# Various work : banks of the pond maintenance





A scenic photograph of a calm lake reflecting the sky and surrounding greenery. In the background, a modern building with a prominent glass facade and a chimney is visible, partially obscured by trees. The foreground is framed by the dark, leafy branches of trees on the left and right sides. The text "Cultural missions" is overlaid in the center of the image.

# Cultural missions



# Geocaching



## Why ?

- To open the station to a larger public

## How ?

- Creating a « geocache »
- Participating the « Event La Forêt d'Excalibur », a geocaching event



# GEOCACHING



# Alimenterre festival

DES IMAGES ET DES MOTS SUR LES  
DÉSORDRES ALIMENTAIRES DU MONDE

## ALIMENT**TERRE** FESTIVAL DE FILMS DOCUMENTAIRES



Tout le programme sur [www.festival-alimenterre.org](http://www.festival-alimenterre.org)

## Ceux qui Sèment



We organized a projection of a movie, followed by a debate on the theme « familial agriculture » with Jean Merlin ETOBE a cameroonian engineer the novembre 27th.

This event take part to the Alimenterre Festival.