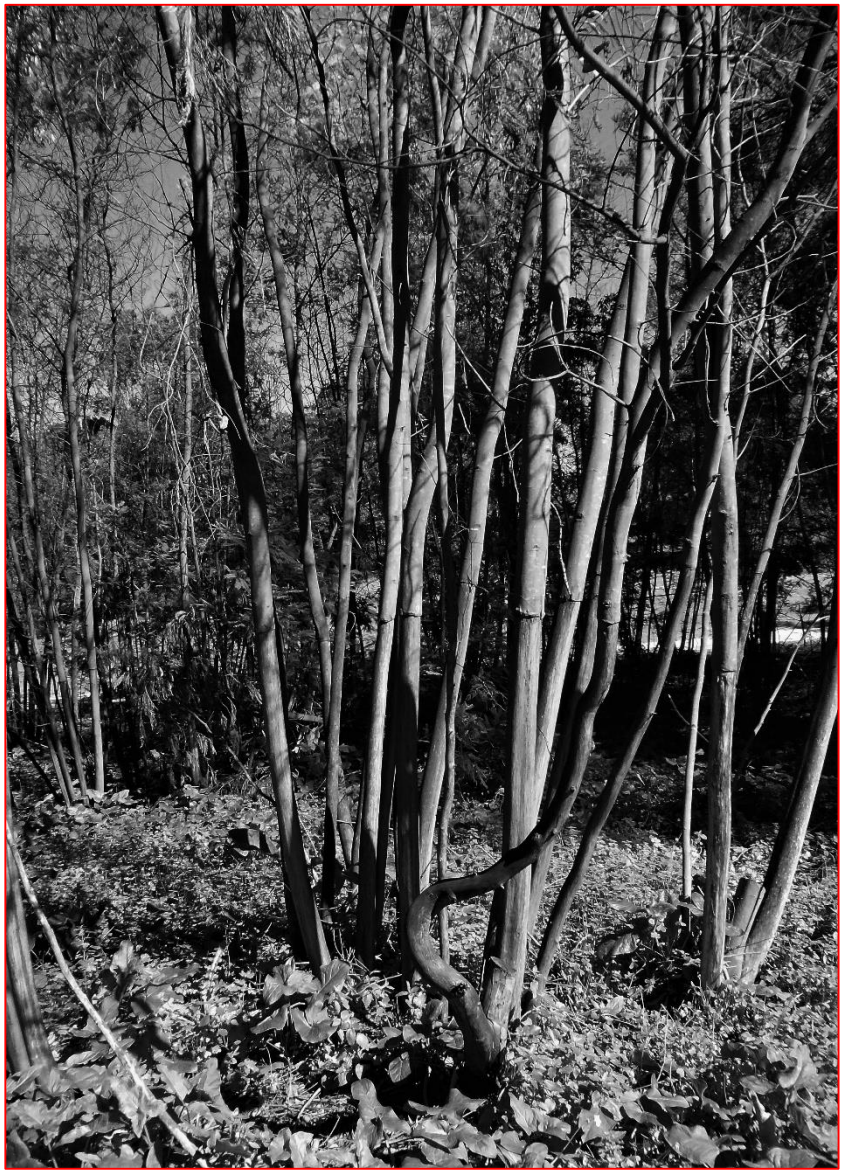
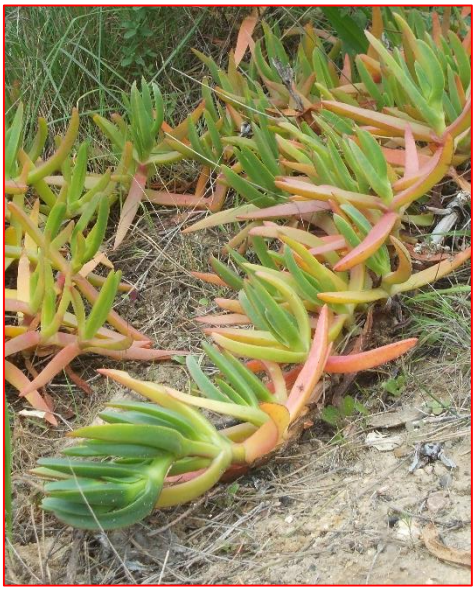




EVALUTION REPORT – FEBRUARY - MARCH 16’

De Kuyper Noor

CONTENT

INTRODUCTION

The local nature reserve is located in the municipality of Barreiro and immersed by marshland. The Reserve is +/- 375 hectares and is important for the surrounding residents.

The forest was originally built for the timber of ships, but was also used for extraction of clay for making furnaces, work material, bowls and plates. Now it's used as a recreational park for the neighborhood residents, sporters and naturelovers. The recreational function of the reserve is progressive and diverse. Daily visited a lot a people the park for diffrents activities as walking, running, camping, picknick, ect.

The forest is a mosaic of habitats full of food sources and hiding places for different species. It has a high botanical value. This value of biodiversity is important for the identity of the nature reserve Mata da Machada. But the area has experienced many invasive species. These species are harmful for the the autochthonal species in the reserve.

The project focuses on two dominant species, the *acacia* and the *Carpobrotus edulis*, in the hope that it will gradually disappear. By working step by step in a natural way.

The CEA (Centro de Educação Ambiental da Mata Nacional da Machada e do Sapal do Rio Coina) engages different activities in and around the nature reserve with the aim of providing information about nature conservation, biodiversity and the function of it. This can range from scientific studies, searches for mushrooms to a nocturnal trip through the forest. Also activities around the project Life Biodiscoveries are important to inform volunteers and visitors about their daily actions and techniques of controling invasieve species.

(Life Cooler, 2016) , (Life Biodiscoveries , Observação de Aves, 2016), (CM Barreiro, 2016)

Why this report?

This report describe the situation of the evaluation in February and March 2016. The result are the condition, the evaluation of the project, the covertness and the difficulties of each plot. It is a temporary summary of the work and the global evaluation of 46 plots.

This evaluation has a description for each plot and is shown in an overview of a map. Each plot can have a strong evolution, a medium evolution, a small evolution or no evolution.

The work evolution and the global evolution can be different. It depense of the invasieve species, the degree of the impact, the frequentie and what remains to be done.

Has the work evolution a strong impact, means that there did a lot of work and interaction in the plot.

If the global evolution is strong in case of the plots with acacia, means that the trees have a strong impact or are almost dead. A small impact means there is a light degree of the impact.

A strong global evolution in the plots with *Carpobrotus edulis*, means that there are almost no spots of the species or everything is gone.The medium impact is a value between a strong and small impact.

Somethimes there is no evolution. This means, that there is no signs of workproces or the species don't show an impact and are still present in the area.

THE PROJECT

The project was born out of demand for more protection of native species of the local nature reserve Mata da Machada and the surrounding marshland Sepal do Ria Coina . With the help of many voluentueers, they destroy and control invasieve species that are dominate and dangerious for the native, valuable vegetation.

The project has many objects, including destroying en control of invasive species, the occurrence and recover of the biological ecosystem,

volunteering and raising awareness of the importance of the nature reserve in an urban environment, ect.

The aim is't to make the reservation hundred percent free from invasive species, because it's impossible to exterminate this aggressive species. So The project focuses on protecting of the local area by destroying and control invasive species with the help of volunteers. Each group of volunteers (this can be a school, a family, pensioners or a company) addopt a plots.

The volunteer learns to be responsible for the control of the invasive species. Each volunteer also receives the appropriate work materials and professional assitens guide them and giving advice in their work.

After the disappearance of the dominant invasive species, there will be expected a natural regeneration of native vegetation such as cork oak, heather, ect.

The main objective of the project is'n only to control invasive species for the next five years. But as well as creating a network where volunteers learn to apply to management and to control. So they continue to repeat the technique, even if the project ends.

The technique

In the reserve are two invasive species include six acacia species that has come over from North America and the aggressive African species Carpobrotus edulis (L.).
This last species is manually pulled from the soil, and collected on a plastic sail.

Destroying of this species are relatively easy in respect to the control of the acacia. Children are therefore suitable to carry out this work. They can easily move it and there is also a lot of fun. For older people is it better to destroy acacia's. Because they can work safer and better with a knife and the position of their body to do this work is heather.

The acacia is contested by stripping the tree. They make a shallow cut in the bark and pulls the cut around the trunk. The height of the cut is not important. The most people work at breast height. Because it is a pleasant and convenient position. After cutting, they peel the tree to the roots.

It is important that the cut is not too deep. It is dangerous because the tree will stimulate the advancing roots so that the plant will massively settle elsewhere.

Also a soft cut has the risk that the tree remains alive and not die.

After stripping, the tree will die and not removed. The tree shall devour in a natural way to promote the ecosystem. Let nature take its course is also one of the objectives of the project.

SUPPLIES

It is important that the volunteer learns to handle with a correct technique and simple tools. Two pairs of gloves and a sharp knife is enough to get started.

For the species Carpobrotus edulis we need two pairs of gloves and a strong plastic sail.

WHY NOT CHEMICALS

The reserve is all handled in a natural way, so this means there is no using of chemicals to destroy invasive species. Chemicals can be very dangerous in an ecosystem, it may destroyed not only the undesirable plants, but chemicals are a risk of the whole area. Soil can be demage, whereby other plant will not by able to confirm anymore. Some plant will have also adverse en negative effects. There is a risk that animals will eat those bad plants and will die or will be eating by another species.

The results

The first impression of the result is different from each plot. The results describe a amny situations and constantly different evaluation.

Some of them has a strong glabal and work evolution, what means that almost all the trees are debarked and having a strong impact or are dead. But some of them can have a a strong workevoluation and a small global evaluation. This means that they did a lot of work in the plot, but the species are not gone or they don’t showing an impact.

Plots that have a small global and work evolution, means that the species has a small impact and they still have work to do.

Remarkable is that plots with a high groundcover and difficult to reach, are less active than plots with no difficulties. Also plots near by the border of the military domain have a higher risk in the furure for an early relapse of invasive species. Because there are almost no control of the species.

Smaller plots are easier to control then big plots. The danger of the big plots has to do with the fact that there is't only more work, there must visited the plot frequently to prevent the dispersion of species.

So far we know, we don't have a statement or explication for the facts.

Because some plots are assessed positively and others negatively , it's difficult to make a conclusion on the possible problems. It will take time and patience to describe an effective review.

THE DESCRIPTION OF THE PLOTS

Number area	Plot 1
Date evaluation	March
Name of volunteer and date of adoption	CEA_Iniciativas 5/02/2015 3 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by CEA_Iniciativas and consisting mainly of the species Carpobrotus edulis. It's has a high groundcover and it's the first plot of the project. The global evolution and the work evolution are both strong. But there is a high risk of new invasieve species in the southwest of the plots . **Carpobrotus edulis evaluation :** Not removed : O% Removed : 100 %

Number area	Plot 2
Date evaluation	March
Name of volunteer and date of adoption	CEA_Iniciativas 6/12/2014 18 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by CEA_Iniciativas and consisting mainly of the species Carpobrotus edulis. It's has a high groundcover and is one of the first plot of the project. The global evolution is small and the work evolution is medium, because they did a lot of work in the north of the plot, but there is still work in the rest of the area. There is a high risk of new invasieve species from the many spots in the south, west en east. **Carpobrotus edulis evaluation :** Not removed : 40% Removed : 60 %

Number area	Plot 3				
Date evaluation	March				
Name of volunteer and date of adoption	CEA_Iniciativas 6/12/2014				
Group volunteer	Company	Family	School	Association	single Person
	Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by CEA_Iniciativas and consisting mainly of the species Carpobrotus edulis. It's has a high groundcover and sometimes difficult to reach. The plot is one of the first in the project. The global evolution and the the work evolution are both strong, but in the southeast of the plot, there are still spots of the invasieve species. There is a high risk of new invasieve species from the border of the plot. **Carpobrotus edulis evaluation :** Not removed : 15% Removed : 85 %				

Number area	Plot 4				
Date evaluation	March				
Name of volunteer and date of adoption	CEA_Iniciativas 6/12/2014 18 volunteers				
Group volunteer	Company	Family	School	Association	single Person
	Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by CEA_Iniciativas and consisting mainly of the species Carpobrotus edulis. It's has a high groundcover and is one of the first plots in the project. The global evolution and the the work evolution are both small, because in west are no impact of the species, but it's a big problem in the rest of the plots. There is a high risk of new invasieve species from the border of the plot. **Carpobrotus edulis evaluation :** Not removed : 90% Removed : 10 %				

Number area	Plot 5
Date evaluation	February
Name of volunteer and date of adoption	Rui Silva 6/11/2014 3 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small evolution medium strong
Work evolution of the location	No evolution Small evolution medium strong
Discription	This small plot is adopted by Rui Silva and consists only of the species acacia. The ground couver percent is medium and has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution is strong, almost every trees have been treated. The work evolution is medium, because of the reaction of the trees. **Trees evaluation :** Not stripped = 3 No impact = 6 Light impact = 2 Medium impact = 10 Strong impact = 9 Dead = 8

Number area	Plot 6
Date evaluation	February
Name of volunteer and date of adoption	José marcos/Patricia 6/11/2014 4 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small evolution medium strong
Work evolution of the location	No evolution Small evolution medium strong
Discription	This small plot is adopted by José marcos/Patricia and consisting mainly of the species acacia. The ground couver and canopy couver percent is low and the plot has a few risks to danger of new invasion from the surrounding locations.The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution is medium, because there still have to strip a few trees. The work evolution has a strong impact. **Trees evaluation :** Not stripped = 20 No impact = 1 Light impact = 2 Medium impact = 2 Strong impact = 10 Dead = 15

Number area	Plot 7
Date evaluation	February
Name of volunteer and date of adoption	Familia Rainho 6/11/2014 4 volunteers (2 children and 2 adult)
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Smal medium strong
Discription	This small plot is adopted by Familia Rainho and consists only of the species acacia. The ground couver percent is low, the closeness of the canopy is high and the plot has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution and the work evolution are both strong, because there are no trees any more to treaded. **Trees evaluation :** Strong impact = 2 Dead = 45

Number area	Plot 8
Date evaluation	February
Name of volunteer and date of adoption	Familia Neves Simão 1/11/2014 1 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work Evolution Of The Location	No evolution Small medium strong
Discription	This small plot is adopted by the family Rainho and consisting mainly of the species acacia. It's a semi-enclosed area and has a few risks to danger of new invasion from the surrounding locations. The plot located between a row of several small plots and was one of the first test surfaces. It has a strong evolution. Only a few trees must still be striped or removed. **Trees evaluation :** Not stripped = 18 Licht impact = 2 Medium impact = 3 Strong impact = 10 Dead = 11

Number area	Plot 12
Date evaluation	February
Name of volunteer and date of adoption	Sara Portugal 11/10/2014 110 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	High risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	This small plot is adopted by Sara Portugal and consisting mainly of the species Carpobrotus edulis. It has a high groundcover and has a few risks to danger of new invasion from the surrounding locations. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species and of the dead collected plants. **Carpobrotus edulis evaluation :** Not removed : 0% Removed : 100 %

Number area	Plot 13				
Date evaluation	March				
Name of volunteer and date of adoption	SPB 16/12/2014				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by SBP consisting mainly of the species Acacia. It has a high groundcover and a few risks to danger of new invasion from the surrounding locations and the species in the plot. The most of the acacia's are very young. There is no evolution or work process in the plot **Trees evaluation :** Not stripped = al of the trees				

Number area	Plot 14				
Date evaluation	March				
Name of volunteer and date of adoption	SPB 16/12/2014				
Group volunteer	Company	Family	School	Association	single Person
	Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by SPB consisting mainly of the species Acacia. It has a high groundcover and a few risks to danger of new invasion from the surrounding locations and the species in the plot. The most of the acacia's are very young. There is almost no evolution in the plot **Trees evaluation :** Not stripped = a of the trees Dead = two stacks of small acacias				

Number area	Plot 15				
Date evaluation	March				
Name of volunteer and date of adoption	SPB 16/12/2014				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by SPB consisting mainly of the species Acacia. It has a high groundcover and a few risks to danger of new invasion from the surrounding locations and the species in the plot. The most of the acacia's are very young. There is almost no evolution in the plot **Trees evaluation :** Not stripped = a of the trees Dead = two stacks of small acacias				

Number area	Plot 16
Date evaluation	March
Name of volunteer and date of adoption	SPB 16/12/2014
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by SPB consisting mainly of the species Acacia. It has a high percentage of invasieve species and a few risks to danger of new invasion from the surrounding locations and the species in the plots. The most of the acacia's are very young and are collected together. This is a big problem for the accessibility of the plot. There is no evolution or work process in the plot **Trees evaluation :** Not stripped = al of the trees

Number area	Plot 17
Date evaluation	February
~~Name of volunteer~~ and date of adoption	CNE_690_Exploradores 24/01/2015 3 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	risk to the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by CNE_690_Exploradores and consisting mainly of the species Carpobrotus edulis. It has a high groundcover and has a few risks to danger of new invasion from the surrounding locations. The plot is located next tot he militairy border. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species . **Carpobrotus edulis evaluation :** Not removed : 0% Removed : 100 %

Number area	Plot 18
Date evaluation	February
Name of volunteer and date of adoption	José marcos/Patricia 9/01/2015 1 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk to the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by José marcos/Patricia and consisting mainly of the species Carpobrotus edulis. It has a high groundcover, sometimes there are a few spots active . The plot is located next tot he militairy border. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species . **Carpobrotus edulis evaluation :** Not removed : 5% Removed : 95 %

Number area	Plot 19
Date evaluation	February
Name of volunteer and date of adoption	João Carlos Silva 2/01/2015 4 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk to the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by João Carlos Silva and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. The west of the plot has no impact of the invasieve species, but the species is still active in the east of the plot. The plot is located next tot he militairy border. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species and the spots in the east of the plot . **Carpobrotus edulis evaluation :** Not removed : 25% Removed : 85 %

Number area	Plot 20
Date evaluation	March
Name of volunteer and date of adoption	Ricardo Duarte Cruz 19/12/2014 25 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk to the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	This plot is adopted by Ricardo Duarte Cruz and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. The most parts of the plot has no impact of the invasieve species, but the species is still active in the middle of the border of the west. The plot is located next to the militairy border. The global evolution is medium and the work evolution is strong but there is a high risk of distribution of the neighboring species and the spots in the west of the plot . **Carpobrotus edulis evaluation :** Not removed : 25% Removed : 85 %

Number area	Plot 21				
Date evaluation	February				
Name of volunteer and date of adoption	CNE_690_Exploradores 3/01/2015 4 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border				
Global Evolution of The Location	No evolution	Small evolution	medium	strong	
Work evolution of the location	No evolution	Small evolution	medium	strong	
Discription	This small plot is adopted by CNE_690_Exploradores and consisting mainly of the species acacia. It's a semi-enclosed area and has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global and work evolution aere both strong because almost every trees have been treated and have a strong impact. **Trees evaluation :** Not stripped = 12 No impact = Light impact = Medium impact = 2 Strong impact = 23 Dead = 42				

Number area	Plot 22				
Date evaluation	March				
Name of volunteer and date of adoption	Escola do Mato 3/01/2015 4 volunteers				
Group volunteer	Company	Family	School	Association	single Person
	Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Few risk				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by Escola do Mato and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. It has a few risks to danger of new invasion from the surrounding locations. The most of the plot has no impact of the invasieve species, but the species is still active in the middle of the east of the plot and a spot in the southeast. The global evolution and the work evolution are both strong **Carpobrotus edulis evaluation :** Not removed : 10% Removed : 90 %				

Number area	Plot 23
Date evaluation	March
Name of volunteer and date of adoption	Familia Rainho 3/01/2015 7 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk of the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by Familia Rainho and consisting mainly of high pine trees. The plot is located next to the militairy border. There is a lot of shadow present and no high groundcover . The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species. **Carpobrotus edulis evaluation :** Removed : 100 %

Number area	Plot 24				
Date evaluation	March				
Name of volunteer and date of adoption	Familia Rainho 19/12/2014 25 volunteers				
Group volunteer	Company	Family	School	Association	single Person
	Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk of the military domain border, surrounding locations and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by Familia Rainho and consisting mainly of high pine trees and heathland vegetation. The plot is located next tot he militairy border. The east part of the plot exit mainly of pine trees and there is a lot of shadow present and no high groundcover and no impact . The west part of the plot exit mainly out heathland vegetation and has a small impact in de beginning. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species and for the plot itself. **Carpobrotus edulis evaluation :** Not Removed : 10 % Removed : 90 %				

Number area	Plot 25				
Date evaluation	March				
Name of volunteer and date of adoption	Rumo- Técnicos 23/01/2015 13 volunteers				
Group volunteer	Company	Family	School	Association	single Person
	Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis and Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by Rumo- Técnicos and consisting mainly of the species Acacia. Also there is a beginning of the occupation of the species Carpobrotus edulis. It has a high groundcover and because of the traingle location a few risks to danger of new invasion from the surrounding locations. There is no evolution in the plot. **Trees evaluation :** Not stripped = a of the trees **Carpobrotus edulis evaluation :** Not removed : 2%				

Number area	Plot 26
Date evaluation	March
Name of volunteer and date of adoption	José Marcos/Patricia 24/01/2015 4 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk of the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by José Marcos/Patricia and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. All the parts of the plot has no impact, but there are some dead tracks. The plot is located next to the militairy border. The global evolution and the work evolution are both strong, but there is a high risk of distribution of the neighboring species . **Carpobrotus edulis evaluation :** Not removed : 0% Removed : 100 %

Number area	Plot 27
Date evaluation	February
Name of volunteer and date of adoption	Familia Rainho 24/01/2015 4 volunteers (2 children and 2 adults)
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia and Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk of the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by the familia Rainho and consisting mainly of the species Carpobrotus edulis. It has a high groundcover and has a few risks to danger of new invasion from the surrounding locations. The plot is located next to the militairy border. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species . **Carpobrotus edulis evaluation :** Not removed : 0% Removed : 100 % **Trees evaluation :** Not stripped = 1

Number area	Plot 28
Date evaluation	February
Name of volunteer and date of adoption	Familia Rainho 24/01/2015 4 volunteers (2 children and 2 adults)
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia and Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk of the military domain border and surrounding locations
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by Familia Rainho and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. The plot is located next to the militairy border and has a few risks to danger of new invasion from the surrounding locations. The global evolution and the work evolution are both strong but there is a high risk of distribution of the neighboring species . **Carpobrotus edulis evaluation :** Not removed : 0% Removed : 100 %

Number area	Plot 30
Date evaluation	February
Name of volunteer and date of adoption	Rui Carvalho 25/02/2015 1 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	This small plot is adopted by Rui Carvalho and consisting mainly of the species acacia. It's a semi-enclosed area and has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution is medium because there still have to strip a few tree. The work evolution has a strong impact. **Trees evaluation :** Not stripped = 19 No impact = 9 Light impact =9 Medium impact = 7 Strong impact = 10 Dead = 25

Number area	Plot 31
Date evaluation	March
Name of volunteer and date of adoption	Agr. Palhais 26/02/2015 90 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	High risk at the border and escalation of the species
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by Agr. Palhais and consisting mainly of the species Carpobrotus edulis. It has a high groundcover and exit in tree differents parts. In the east you have a open structure of pine trees, in the middle you have vegetationstructure of heather and bushes. In lowest part of the west of the plot you can find again lots of pine trees, but there is a more closed structure. The global evolution is medium and the work evolution is strong, because there are a lot of spots cleaned but there still be parts active. This is a risk that the species may extend further. There is a strong impact in the west of the plot. Dead tracks of the species in the eastsouth of the plot. Also there is an emergence of new parts of the species. **Carpobrotus edulis evaluation :** Not removed : 45% Removed : 55 %

Number area	Plot 33
Date evaluation	March
Name of volunteer and date of adoption	Vera Matrins 7/03/2015 2 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by Vera Matrins and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. The plot is located next tot he militairy border. The global evolution is medium and the work evolution is strong. In the North, east and south of the plot is the Carpobrotus edulis gone, but there is a great presents of the species in the middle and the east of the plot. This problem is a high risk of distribution for the neighboring plots and for the plot itself. **Carpobrotus edulis evaluation :** Not removed : 20 % in the south Removed : 80 % in the north

Number area	Plot 34
Date evaluation	February
Name of volunteer and date of adoption	João Castellano Rodrigues 4/03/2015 1 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small evolution medium strong
Work evolution of the location	No evolution Small evolution medium strong
Discription	This small plot is adopted by João Castellano Rodrigues and consisting mainly of the species acacia. The ground couver percent is low, the closeness of the canopy is high and the plot has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution and the work evolution are both medium because there still have to strip a lot of tree and not al of the trees are dead of have a strong impact. **Trees evaluation :** Not stripped = a lot of trees (<50%) No impact = 29 Light impact =30 Medium impact = 18 Strong impact = 27 Dead = 38

Number area	Plot 36				
Date evaluation	February				
Name of volunteer and date of adoption	Grupo da Patricia 21/03/2015 2 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border				
Global Evolution of The Location	No evolution	Small evolution	medium	strong	
Work evolution of the location	No evolution	Small evolution	medium	strong	
Discription	This small plot is adopted by Grupo da Patricia and consists only of the species acacia. The ground couver and canopy couver percent is low and the plot has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution and the work evolution are both strong .There are no trees anymore to treaded. **Trees evaluation :** Strong impact = 1 Dead = 76				

Number area	Plot 37
Date evaluation	February
Name of volunteer and date of adoption	Edite Cabaço/Leonor Ramos 21/03/2015 6 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	This small plot is adopted by Edite Cabaço/Leonor Ramos and consisting mainly of the species acacia. It's a semi-enclosed area and has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots and was one of the first test surfaces. The global evolution is small because there still have to strip a lot of tree. The work evolution has a strong impact. **Trees evaluation :** Not stripped = a lot of trees (< 50%) Light impact =7 Medium impact = 8 Strong impact = 9 Dead = 20

Number area	Plot 38				
Date evaluation	March				
Name of volunteer and date of adoption	Mónica Lemos 21/03/2015 4 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work Evolution of The Location	No evolution	Small	medium	strong	
Discription	The plot is addopt by Mónica Lemos and have a risk of new invasion from the surrounding area. Large acacia trees dominate the view, but there is also a lot of natural vegetation present. Most of the biggest tree are stript and showed a light infecion. But not all the big trees show an impact . It is a fairly closed area. The work evolution is strong. **Trees evaluation :** Not stripped = a lot of trees (> 50%) No impact = 30 Light impact =20 Medium impact = 6 Strong impact = 9 Dead = 93				

Number area	Plot 39				
Date evaluation	March				
Name of volunteer and date of adoption	Escola Augusto Cabrita 24/05/2015 120 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by Escola Augusto Cabrita and consisting mainly of the species Carpobrotus edulis. It has a high groundcover and has a risk for the surrounding location. The global evolution and the work evolution are both medium, in the west of the plot, there are dead tracks of the species. Also there is an emergence of new parts of the species. **Carpobrotus edulis evaluation :** Not removed : 45% Removed : 55 %				

Number area	Plot 40				
Date evaluation	March				
Name of volunteer and date of adoption	Esc.Alvaro Velho Clube de Ambiente 22/05/2015 14 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work evolution of the location	No evolution	Small	medium	strong	
Discription	The plot is adopted by Esc.Alvaro Velho Clube de Ambiente and consisting mainly of the species Carpobrotus edulis. It has a high groundcover and has a risk for the surrounding location. The global evolution and the work evolution are both medium, a part of the plot has dead tracks of the species in the southeast of the plot. Also there is an emergence of new parts of the species. **Carpobrotus edulis evaluation :** Not removed : 35% Removed : 65 %				

Number area	Plot 41
Date evaluation	March
Name of volunteer and date of adoption	Paulo Cardoso 15/05/2015 45 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	None
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	The plot is adopted by Paulo Cardoso and consisting mainly of the species Carpobrotus edulis. The high groundcover making it difficult to reach some places. The north of the plot has no impact of the invasieve species, but the species is active in the south of the plot. There is no evolution. **Carpobrotus edulis evaluation :** Not removed : 100% Removed : 0 %

Number area	Plot 46				
Date evaluation	February				
Name of volunteer and date of adoption	Grupo EDP 2/06/2015 28 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work Evolution of The Location	No evolution	Small	medium	strong	
Discription	This plot is adopted by Grupo EDP and mainly of the species acacia. The plot is close to the border and has a few risks of new invasion from the surrounding area. Large acacia trees dominate the view, but there is also a lot of natural vegetation present. Most of the biggest tree are stript and showed a light infecion. It is a fairly closed area and know a medium proces . **Evaluation trees :** Not stripped : 8 – 10 trees No evolution : 31 trees Licht evolution : 35 trees Medium evolution : 45 trees Strong evolution : 43 trees Dead : 38 trees				

Number area	Plot 48				
Date evaluation	March				
Name of volunteer and date of adoption	Campos de férias de verão 2015 22/06/2015 150 volunteers				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work Evolution Of The Location	No evolution	Small	medium	strong	
Discription	A large plots is adopted by Campos de férias de verão 2015 and consisting mainly of the species Carpobrotus edulis. A small part of the plot has been cleared, but there is still much to do. Especially the northeast and the southeast have a big impact and there is also a spot in the west of the plot. There are a lot of dead marks in the middle. **Carpobrotus edulis evaluation :** Not removed : 85% Removed : 15 %				

Number area	Plot 49
Date evaluation	March
Name of volunteer and date of adoption	Grupo Flamingo 24/07/2015 8 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work Evolution of The Location	No evolution Small medium strong
Discription	The plot is addopt by Grupo Flamingo and has a few risks of new invasion from the surrounding area. Large acacia trees dominate the view, but there is also a lot of natural vegetation present. The plot exist in two part, the east of the plot exist in a acacia forrest and the west part of the plot a field with grass. In the middle of the plot stands a waterreserve and some parts are difficult to reach. There is no evolution or work process in the plot, accept a few trees are stript. **Trees evaluation :** Not stripped = a lot of trees (> 50%) No impact = 4 Light impact =2

Number area	Plot 50				
Date evaluation	February				
Name of volunteer and date of adoption	EPM 13/07/2015 1 voluntueer				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work Evolution Of The Location	No evolution	Small	medium	strong	
Discription	This plot is adopted by EPM and consists only of the species acacia. They started the stripping work in the centre of the plot. The global and work evolution are both small, because the treated trees shows a light impact and there are a lot of trees to strip. **Trees evaluation :** Not stripped = a lot of trees (> 50 %) No effect : 10 Licht impact = 17 Medium impact = 7 Strong impact = 4 Dead = 11				

Number area	Plot 58				
Date evaluation	March				
Name of volunteer and date of adoption	EPM 10/09/2015				
Group volunteer	Company	Family	School	Association	single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis and acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work Evolution Of The Location	No evolution	Small	medium	strong	
Discription	This plots is adopted by the company EPM and consisting mainly of the species Carpobrotus edulis. The plot can split in two different parts. The north of the plot exists only out the species Carpobrotus edulis and is an open area. The south of the plots has a mix of the two species and is a very closed area. The work and global evaluation are both small. Because there is no evolution of the species Carpobrotus edulis , but the big acacia's are stript en the most of them are dead or having a strong impact. But there are also some young acacia trees that need to be stripped. **Carpobrotus edulis evaluation :** Not removed : 100% Removed : 0 %				

Number area	Plot 69
Date evaluation	March
Name of volunteer and date of adoption	Ricardo Marques 6/02/2016 1volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border
Global Evolution of The Location	No evolution Small medium strong
Work Evolution of The Location	No evolution Small medium strong
Discription	The plot is addopt by Ricardo Marques and has a few risks of new invasion from the surrounding area. Large acacia trees dominate the view, but there is also a lot of natural vegetation present. Most of the biggest tree are stript and showed a light infecion. But not all the big trees show an impact . The global evaluation is medium and the work evaluation is strong, but there still has to strip a few small trees. **Trees evaluation :** Not stripped = a few trees (< 50%) No impact = 14 Light impact =41 Medium impact = 13 Strong impact = 16 Dead = 65

Number area	Plot 78
Date evaluation	February
Name of volunteer and date of adoption	Faternidade Nuno Alvares 24/11/2015 11 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	None
Global Evolution of The Location	No evolution Small medium strong
Work evolution of the location	No evolution Small medium strong
Discription	This small plot is adopted by Faternidade Nuno Alvares and consisting mainly of the species acacia. It's a very closed area and has a few risks to danger of new invasion from the surrounding locations. The plot is located between a row of several small plots.The global evolution is small, because there's still have to strip a lot of tree. The work evolution has a medium evolution. **Trees evaluation :** Not stripped = a lot of trees (> 50%) No impact = 1 Light impact =2 Medium impact = 4 Strong impact = 4

Number area	Plot 79
Date evaluation	March
Name of volunteer and date of adoption	EPM 2/12/2015
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis + Acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species
Global Evolution of The Location	No evolution Small medium strong
Work Evolution Of The Location	No evolution Small medium strong
Discription	This small plot is adopted by EPM consisting mainly of the species Carpobrotus edulis. The plots is located next the highway. The risk of danger of new invasion from surrounding location is smal. There is a strong global evolution because almost al the trees are stripped. There is a danger of the occupation of Carpobrotus edulis. The treated acacia trees show a light evolution. **Trees evaluation :** Not stripped = 2 Licht impact = 18 Medium impact = 7 Dead = 3 **Carpobrotus edulis evaluation :** Not removed : 10%

Number area	Plot 80				
Date evaluation	February				
Name of volunteer and date of adoption	EPM 4/12/2015				
Group volunteer	Company Family School Association single Person Other : _____				
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix				
Kind of invasive species	Carpobrotus edulis + Acacia				
Coverage invasive species in %	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Ground cover in percentage	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Closeness of the canopy	< 10%	10%-35%	35%-55%	55%-75%	> 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species				
Global Evolution of The Location	No evolution	Small	medium	strong	
Work Evolution Of The Location	No evolution	Small	medium	strong	
Discription	This plot is adopted by the company EPM and consists mainly of the species acacia. The plot is located near the border of the highway. The risk of danger of new invasion from surrounding location is smal. There is a strong evolution of the destruction of the Carpobrotus edulis, But a big part of the north and the south of the plot must still removed and most of the acacia's are not traeted The big acacia trees show a light evolution. **Trees evaluation :** Not stripped = a lot of trees (> 50%) No efFect : 22 Licht impact = 28 Medium impact = 7 Strong impact = 5 Dead = 0 **Carpobrotus edulis evaluation :** Not removed : 40% Removed : 60 %				

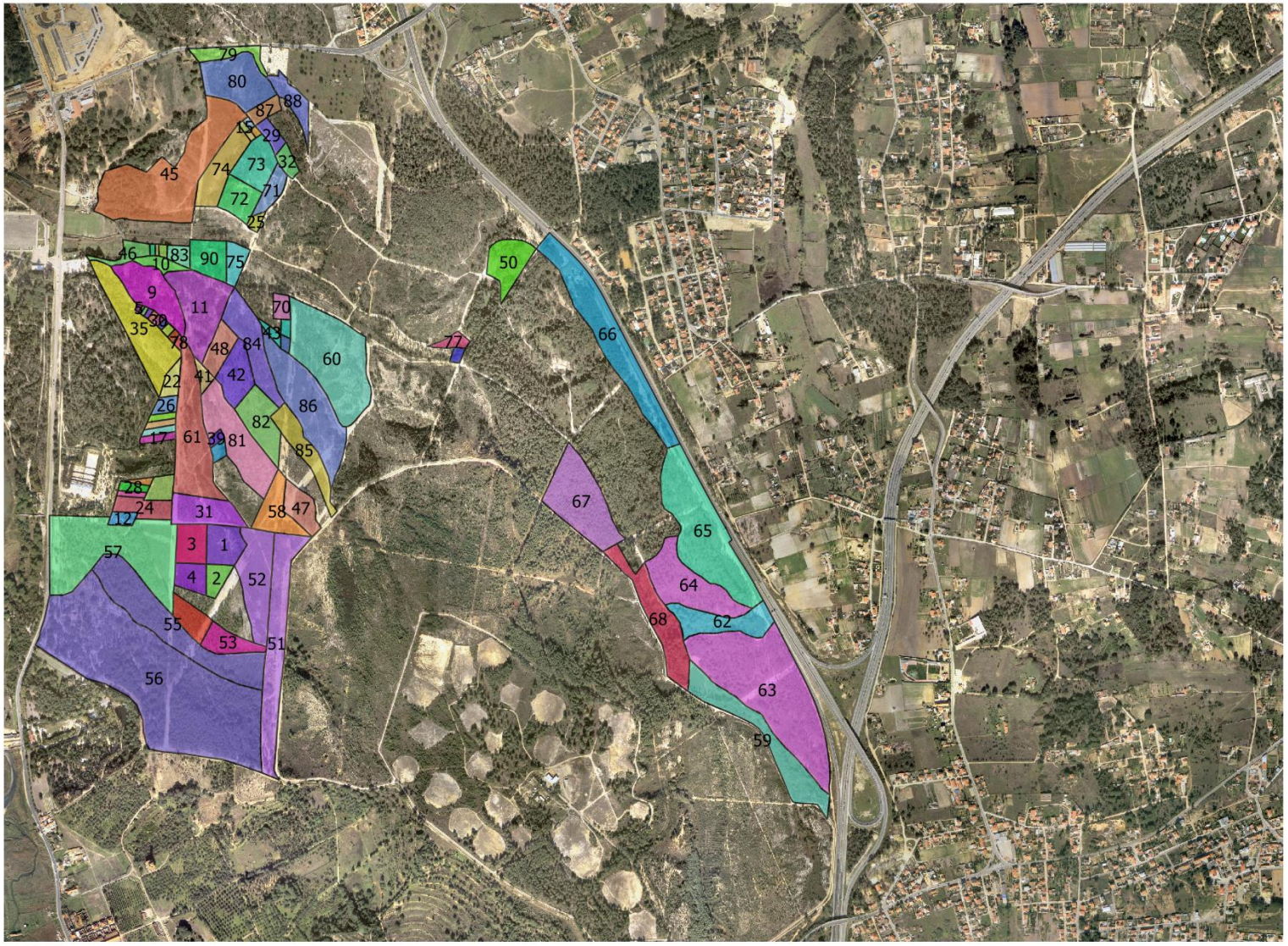
Number area	Plot 81
Date evaluation	February
Name of volunteer and date of adoption	25/11/2015 Escola Alvaro velho 35 volunteers
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	Carpobrotus edulis and acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Risk at the border and escalation of the species
Global Evolution of The Location	No evolution Small medium strong
Work Evolution Of The Location	No evolution Small medium strong
Discription	This large plots is adopted by the school 'Alvaro velho' and consisting mainly of the species Carpobrotus edulis. A great part of the plot has been cleared, but there is still much to do. Especially on the higher parts of the south of the plot proliferates the invasive species. There are also some acacia trees that need to be stripped. **Trees evaluation :** Not stripped = a few trees (<50%) No effect : 1 Licht impact = 4 **Carpobrotus edulis evaluation :** Not removed : 35% Removed : 65 %

Number area	Plot 83
Name of volunteer and date of adoption	/
Group volunteer	Company Family School Association single Person Other : _____
Vegetation	Only invasive species/ Natural vegetion/Some invasive species in a natural matrix
Kind of invasive species	acacia
Coverage invasive species in %	< 10% 10%-35% 35%-55% 55%-75% > 75%
Ground cover in percentage	< 10% 10%-35% 35%-55% 55%-75% > 75%
Closeness of the canopy	< 10% 10%-35% 35%-55% 55%-75% > 75%
Danger of new invasion from Surrounding	Few
Global Evolution of The Location	No evolution Small medium strong
Work Evolution of The Location	No evolution Small medium strong
Discription	The plot is addopt by …. and has a few risks of new invasion from the surrounding area. Large acacia trees dominate the view, but there is also a lot of natural vegetation present. Most of the biggest tree are stript and showed a light impact. The high groundcover, the lake and the natural vegetation making it difficult to reach some places. The work evoluation is small and global evolution is medium. **Trees evaluation :** Not stripped = a lot of trees (> 50%) No impact = 69 Light impact =26 Medium impact = 1 Strong impact = Dead = 10

PLOT NUMBER

FEBRUARI 16'
MARCH 16'

Biodiscoveries
Mata da Machada e Sapal do Rio Coina



Legenda

Plots

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44
45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67
68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 90

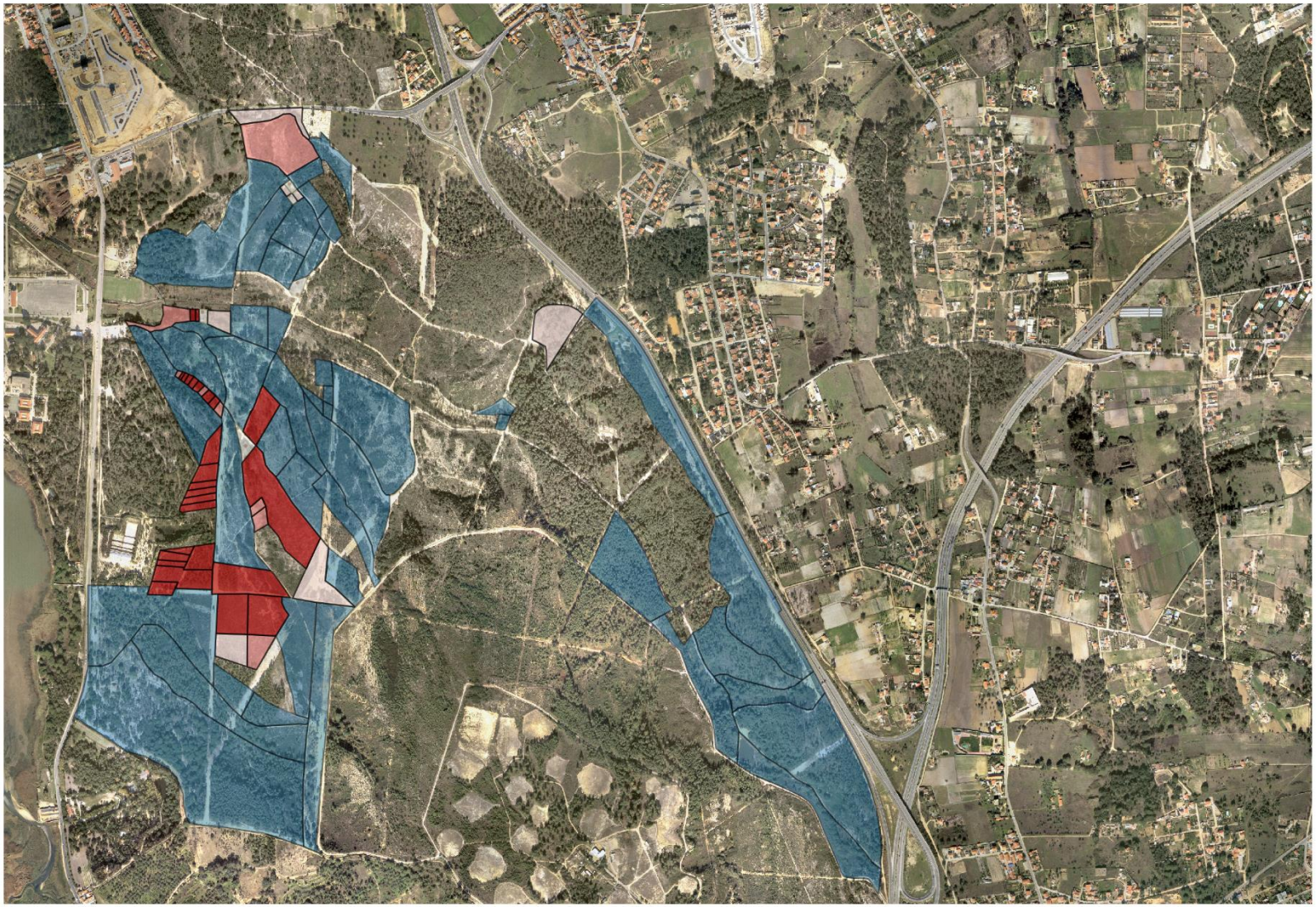
N

250 0 250 500 750 1000 m

WORK EVOLUTION

FEBRUARY 16
MARCH 16'

Biodiscoveries
Mata da Machada e Sapal do Rio Coina



Mata Nacional da Machada
Work evaluation
Noor De Kuyper
15-04-2016

Legenda

work evolution

- Not evaluated
- No evolution
- Light
- Medium
- Strong

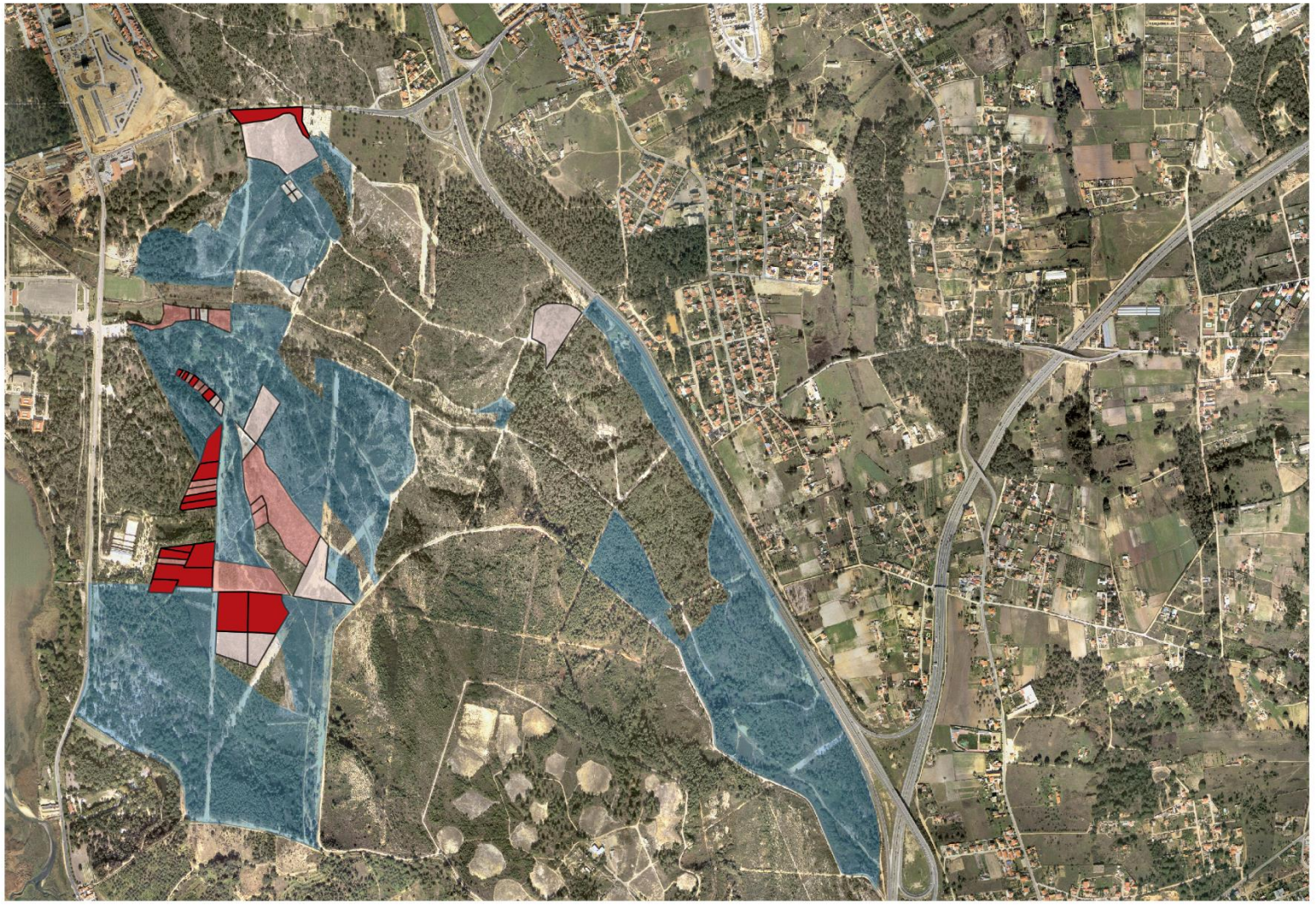
N

400 0 400 800 1200 1600 m

GLOBAL EVOLUTION

FEBRUARY 16'
MARCH 16'

Biodiscoveries
Mata da Machada e Sapal do Rio Coina



Mata Nacional da Machada
Global evaluation
Noor De Kuyper
15-04-2016

Legenda

global evolution

- Not evaluated
- No evolution
- Light
- Medium
- Strong

N

400 0 400 800 1200 1600 m

SOURCES

CM Barreiro. (2016, Maart 19). *CEA - Centro de Educação Ambiental da Mata Nacional da Machada e do Sapal do Rio CoinaCEA - Centro de Educação Ambiental da Mata Nacional da Machada e do Sapal do Rio Coina*. Opgehaald van CM Barreiro: http://www.cm-barreiro.pt/pages/828

Life Biodiscoveries . (2016, Februari 26). *Observação de Aves*. Opgehaald van Life Biodiscoveries: http://www.lifebiodiscoveries.pt/node/37

Life Cooler. (2016, Maart 19). *Mata Nacional da Machada*. Opgehaald van Life Cooler: http://www.lifecooler.com/artigo/passear/mata-nacional-da-machada/393860/