

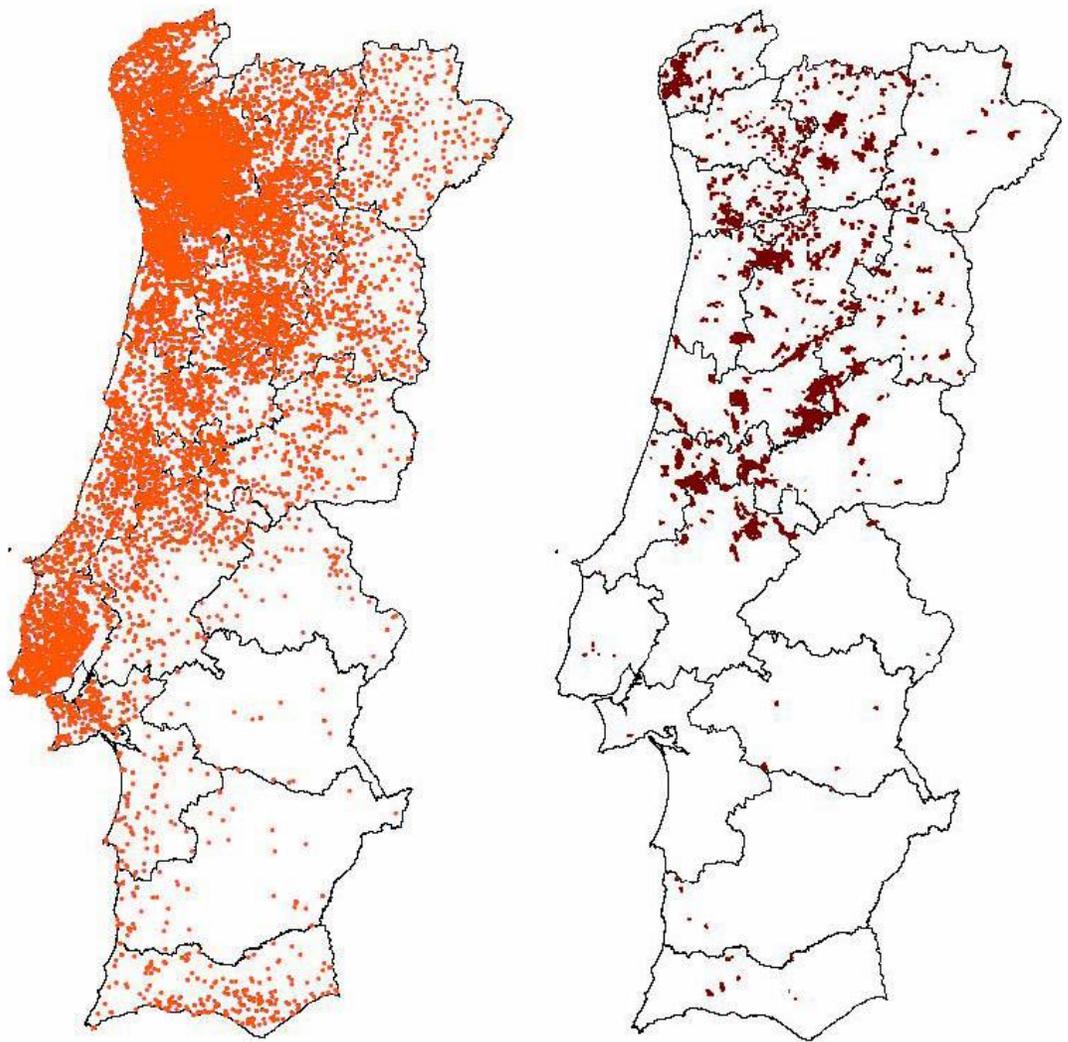
# LIFE-RELICT

## Preserving Continental Laurissilva Relicts

Meireles C., M. Raposo, M. Machado, F. Vasquez, A. Fonseca, S. Martinho, A. Silva, A. Silva  
C. Pinto-Gomes

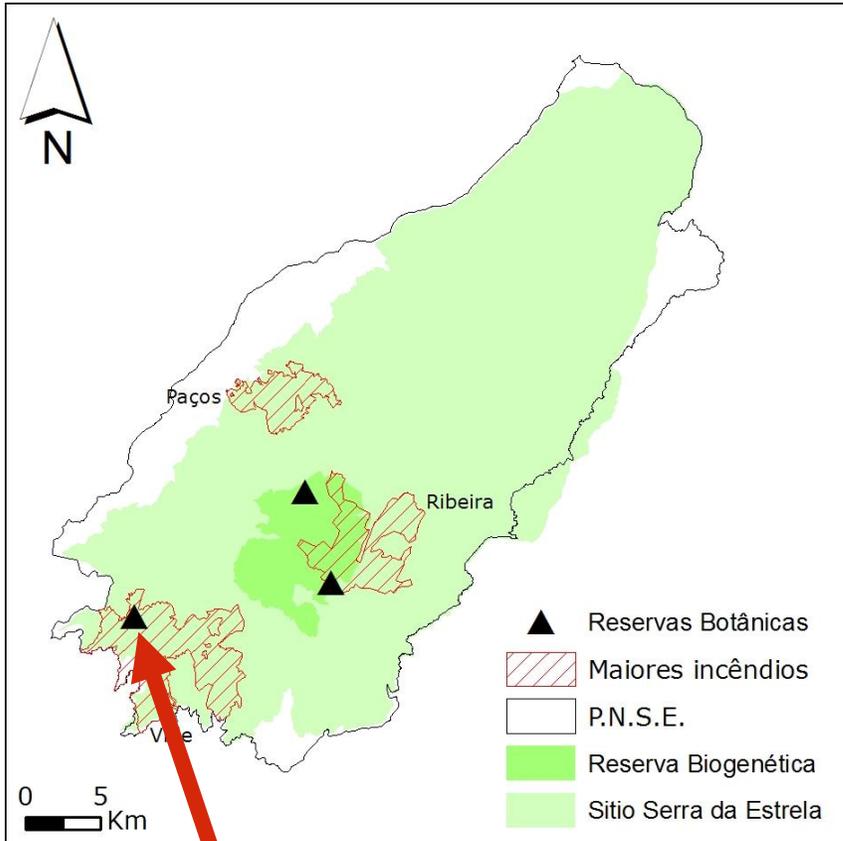


Com a contribuição do programa LIFE da Comissão Europeia  
Foto: F. Clamote



● Ocorrências ■ Áreas ardidas, Modis 2005





Casal do Rei

Before



After





Casal do Rei

# LIFE-RELICT

Preserving Continental Laurissilva Relicts



Com a contribuição do programa LIFE da Comissão Europeia  
Foto: F. Clamote



# Consortium

Universidade de Évora - Coordenador

ADRUSE

CYCITEX

Município de Monchique

Município de Seia



CENTRO DE INVESTIGACIONES  
CIENTÍFICAS Y TECNOLÓGICAS  
DE EXTREMADURA



**Total amount:** 1.654.899 €

**% EC Co-funding:** 75%

**DURATION: Start:** 01/10/17

**End:** 30/09/22

# Objective

Improve the conservation status of the priority habitat 5230\* - Arborescent matorral with *Laurus nobilis* - in Portuguese Natura 2000 Network.

Currently= (“Inadequate”)

## Their most important plant communities:

*Prunus lusitanica* community

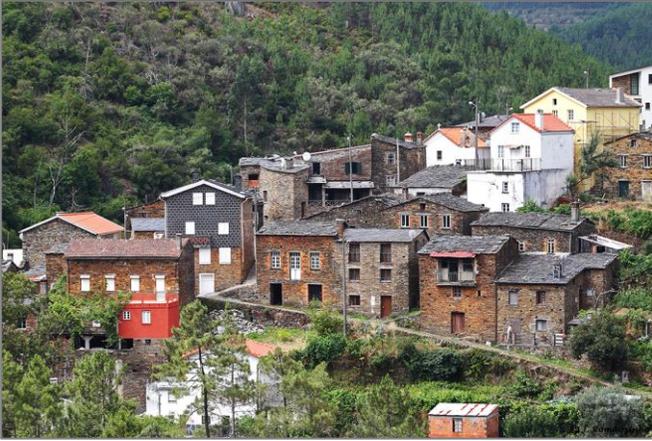
*Rhododendron ponticum* subsp. *baeticum*  
community



*Prunus lusitanica*



*Rhododendron ponticum* subsp. *baeticum*



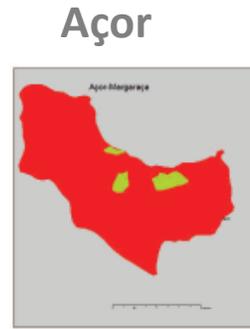
Estrela: Vide e Casal do Rei



Açor: Mata da Margarça



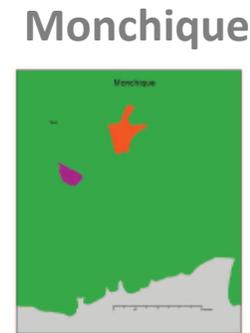
Monchique: Foia



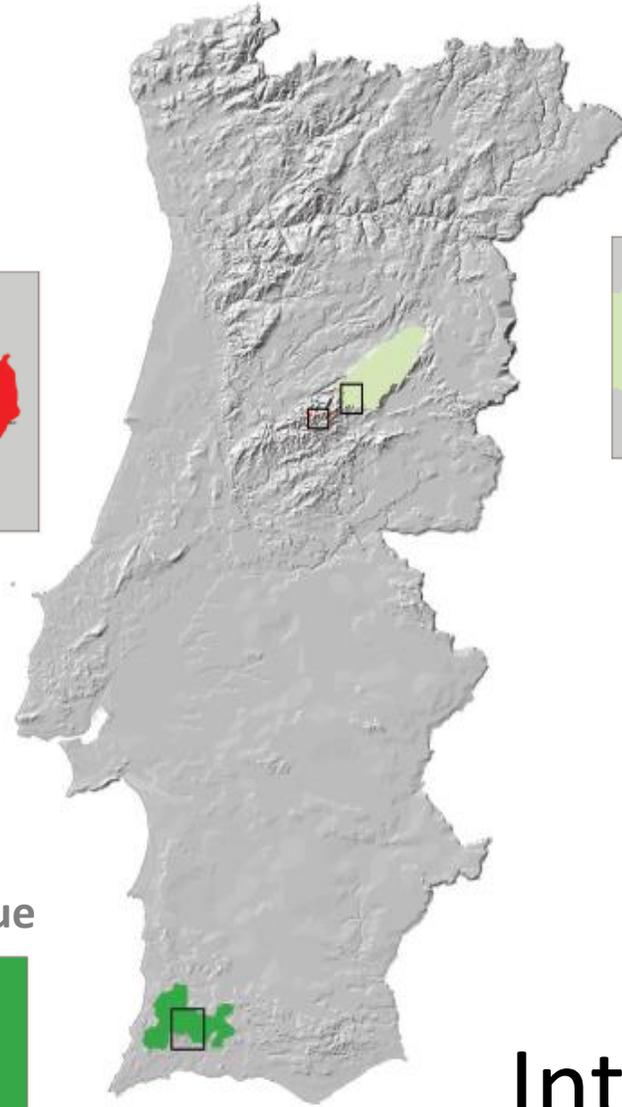
Açor



Estrela



Monchique



Intervention areas



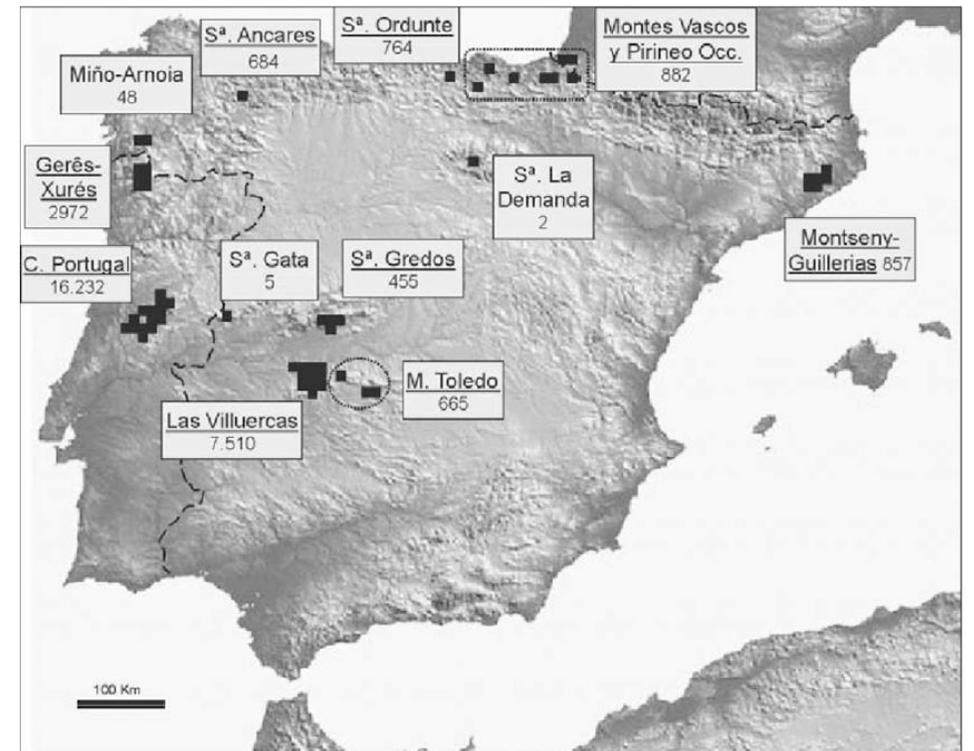
# Azereirais

Communities of *Prunus lusitanica*.

*Prunus lusitanica* (azereiro) is a rare species, endemic from SW France, P. Iberian and N of Morocco.

In Portugal is present in embedded valleys, with a more thermic and humid climate.

*Mata da Margaraça* is considered the best example of these communities, and the largest *Prunus lusitanica* population, is present in the center of Portugal.



Distribution and population sizes of *Prunus lusitanica* in the Iberian Peninsula (CALLEJA et al. 2009).



# Adelfeirais

Comunidades de *Rhododendron ponticum* subsp. *baeticum*.

It's a rare species, **endemic to the SW of the Iberian Peninsula**.

In Portugal, is present in only two areas within the Natura2000 Network (Serra do Caramulo and Serra de Monchique).



# Threats

**1. Fire**



**4. Climate change**



**2. Invasive**



**5. Limited capacity to install new plants**

**3. Man interventions**



# Expected Results

Improve habitat quality  
about 11ha (+- 50% of  
the current area)



Improve the **diversity** of characteristics  
species and habitat **structure** – **cut,**  
**plantations**

Increase Habitat área  
20.5 ha



New habitat areas – **plantations**

Decrease major threats  
Fire: 104 ha  
IS: 4 ha



Control of Invasive Species – **sta. art**  
**technics (4 ha)**  
Control of heliophytic vegetation (**104ha**)  
Create buffers of Native forests –  
**plantations (11,4 ha)**



**A. Preparatory**



**C. Conservation**



**D. Monitoring**



**E. Awareness and dissemination**

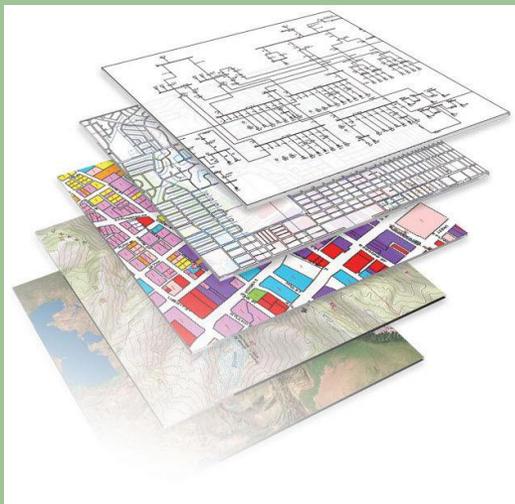
**F. Project Management**





## ACTION A.1

Reference state update

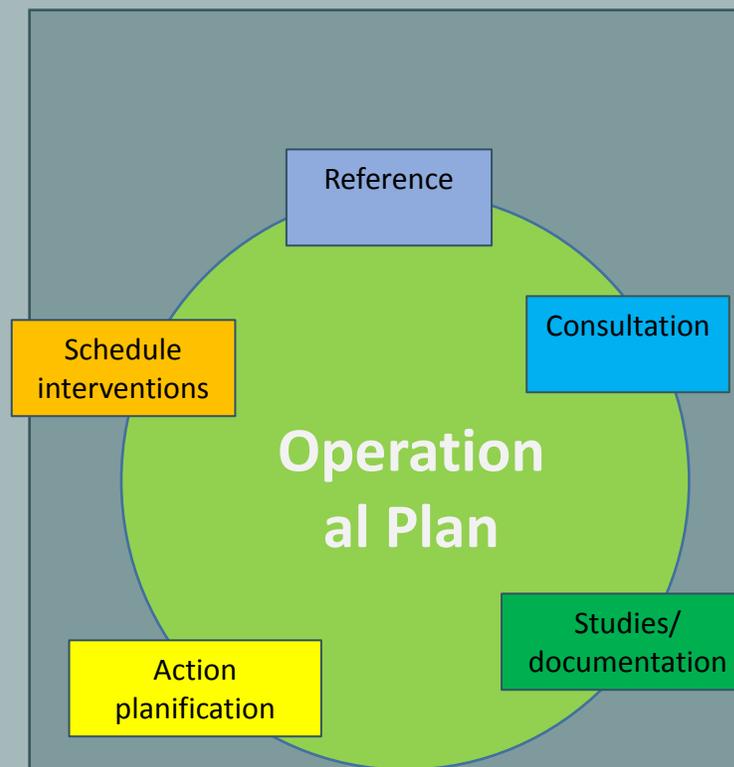


1. Collection and complement of essential information
2. Long-term commitment letters from land owners **(more than 50 owners).**



## ACTION A.2

Operational Plan



1. Execution of an operational plan



## ACTION A.3

Assessing the regeneration capacity of *Rhododendron ponticum*



Is there seminal regeneration?  
In what conditions?

So far we confirmed that there is almost no seminal regeneration.

## Ação C.1 Seed collection and plant propagation



**First campaign:** oct. to dec. 2017

**Second campaign:** scheduled to begin in October 2018

### Collected seeds and other propagating material

*Prunus lusitanica*: > 2000  
*Rhododendron ponticum*: 4000  
*Quercus canariensis*: 1000  
*Quercus broteroana*: 1200  
*Ilex aquifolium*: 350  
*Sorbus aucuparia*: 35 propágulos  
*Ruscus aculeatus*: 150  
*Quercus occidentales*: 400  
*Arbutus unedo*: 200  
*Viburnum tinus*: 300

**ACTIONS C.2. and C.3.**  
Improve habitat quality  
(azereirais and adelfeirais)



**ACTIONS C.4. and C.5.** Increase of  
habitat area (azereirais and adelfeirais)

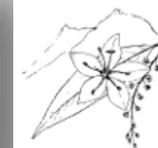


**ACTION C.6.** Control of exotic  
invasive species.



**ACTION C.7.** Decreased fire  
risk

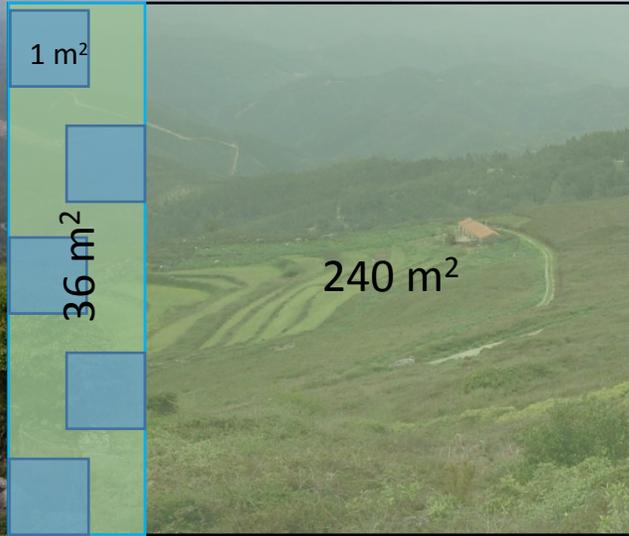




LIFE-Relict

&

ECOMED



- Permanent transect, randomly installed ( 6 per project area/ type of intervention)
- Cover / species
- Stratified inventory (herbs, shrubs and Trees)

**ACTION D.1** Monitoring the impact of project conservation actions



**ACTION D.2** Monitoring project social and economic impact



**ACTION D.3** Monitoring the project impact on ecosystem function



**ACTION D.4** Monitoring project cost\efficiency



**ACTION D.5** Monitoring project performance indicators





**Web:** <http://www.liferelict.ect.uevora.pt/>

O projeto LIFE-RELICT nasceu da vontade de preservar um habitat raro na Europa, dominado por plantas testemunhas das florestas de laurissilva que ocuparam a Península Ibérica em épocas geológicas passadas, quando o clima era tropical. Nesta situação estão os raros azereais e adelfeirais. Venha saber mais sobre eles e colabore connosco na sua proteção!

## Cabeça – Aldeia Natal



**ACTION E.1.** Communication to general public



**ACTION E.2.** Environmental education



**ACTION E.3.** Promotion of nature based tourism



**ACTION E. 4.** Technical and scientific dissemination



**ACTION E.5.** Networking and replication efforts



# Jornada Técnica

O projeto LIFE-RELICT convida-o para a jornada

## Valorização e Gestão dos Azereiras Mediterrânicos

(habitat prioritário para a conservação)

### Objetivos:

1. Aprender a reconhecer o habitat
2. Identificar o seu estado de conservação
3. Conhecer as suas potencialidades turísticas e científicas
4. Técnicas de gestão

Dia: 8 de Junho de 2018  
Local: Mata da Margarça



Inscrição gratuita através do email: e-mail: vspp@uevora.pt

Vagas limitadas: 25 participantes



Formadores: Carlos Pinto Gomes e Catarina Meireles (Universidade de Évora)



Ação E.1: Communication to general public



ACTION E.2. Environmental education



ACTION E.3. Promotion of nature based tourism



ACTION E. 4. Technical and scientific dissemination



ACTION E.5. Networking and replication efforts



# SEMINÁRIO LIFE RELICT 17<sup>o</sup> ENCONTRO NACIONAL DE ECOLOGIA

15 e 16 de Novembro 2018 | Colégio Luis António Verney, Évora



Inscrições online em [www.speco.pt](http://www.speco.pt)  
Submissão de resumos até 15 de Julho de 2018

Mais informações no site e através de [info@speco.pt](mailto:info@speco.pt)



**Ação E.1:** Communication to general public



**ACTION E.2.** Promotion of nature based tourism



**ACTION E.2.** Promotion of nature based tourism



**ACTION E. 4.** Technical and scientific dissemination



**ACTION E.5.** Networking and replication efforts



moltes gràcies



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Foto: F. Clamote