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FINANCIAMENTO

COFINANCIAMENTO





SPEA

The Portuguese Society for the Study of Birds (SPEA) is a non-profit environmental NGO, whose mission is to work for the study and conservation of birds and their habitats, promoting a development that ensures the viability of the natural heritage for the benefit of future generations.

 We have headquarters in Lisbon, São Miguel
 (Azores) and Funchal (Madeira) and work on projects abroad (Europe, Cape Verde and São Tomé)

- We currently have more than 4,500 members
- We involve about 500 volunteers per year in our projects
- We are BirdLife International in Portugal, the world's largest nature conservation Partnership



spea

It was 2003...

"is the most endangered passerine bird and the second rarest bird species in all of Europe"



				\frown		
LEAST CONCERN	NEAR THREATENED	VULNERABLE	ENDANGERED	<pre>< CRITICALLY < ENDANGERED></pre>	EXTINCT IN THE WILD	EXTINCT
LC	NT	VU	EN	CR	EW	EX



- Endemic bird to the eastern part of S. Miguel Island.
 - Very small, localised distribution
- In 1996, the estimated population was 60-200 couples









Jaime Ramos, 1995

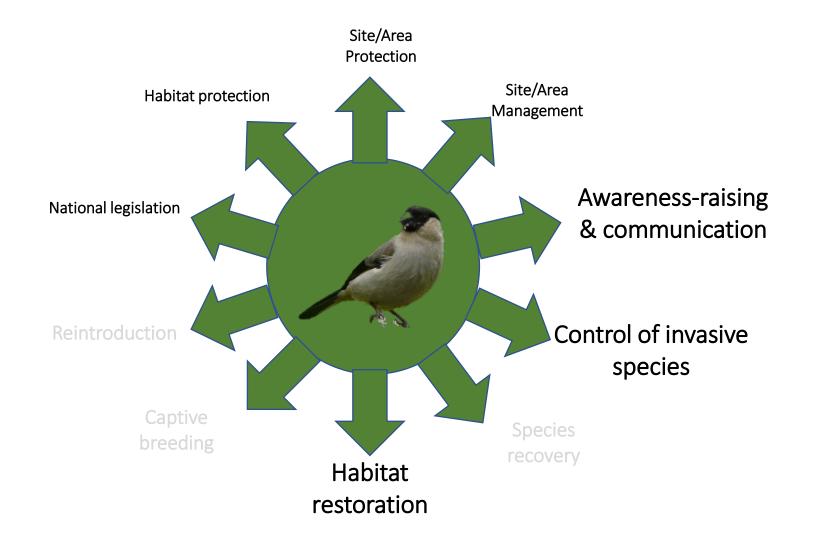
1st ACTION PLAN FOR THE AZORES BULLFINCH

Threats and limiting factors

- Habitat loss critical
- Food shortage during late winter critical
- Food shortage in summer low/medium
- Random demographic and environmental factors low/medium
- Predation unknown
- Low breeding success and natural mortality unknown

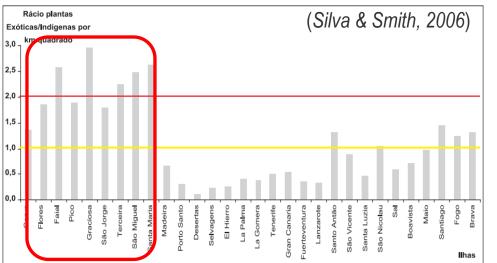


Conservation actions for critically endangered species



Critically endangered Birds - A Global audit (BirdLife International 2007)







IMPACT OF IAS ON AZOREAN ECOSSYSTEMS:

- More than 60% of the vascular flora of the Azores considered exotic
- Total replacement of endemic communities by IAS in low/medium altitude habitats (riparian galleries).
- Main invasive specie *Pittosporum undulatum* "presence in 49% of all forest area of the Azores".

Conterts lists westable at ScienceDirect
Forest Ecology and Management
EVIER
journal homeopage: www.elevier.com/locate/forece

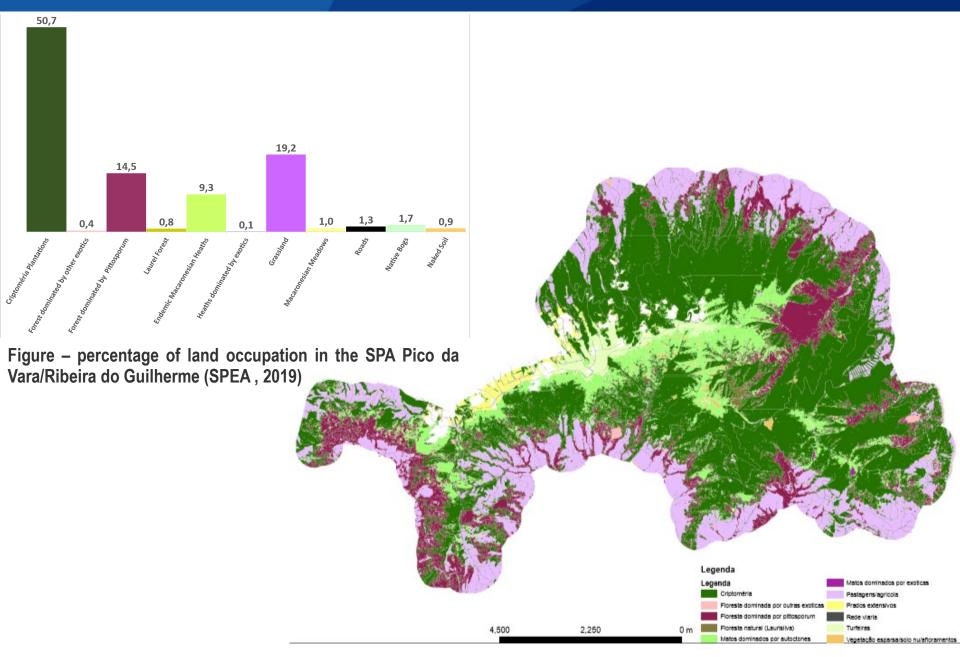
Distribution, habitat and biomass of *Pittosporum undulatum*, the most important woody plant invader in the Azores Archipelago

Patricia Lourenço^{3,4}, Vasco Medeiros⁶, Artur Gil³, Luís Silva³ (2000 (2019, depademento de Weighe, Normaniade des Apres, Apertado 160, 2009 401 Press Regula, Peragul "Remote Representation de retrorem frestante des Apres de Constants, 2004-001 Press Debada, Peragul

ARTICLE INFO

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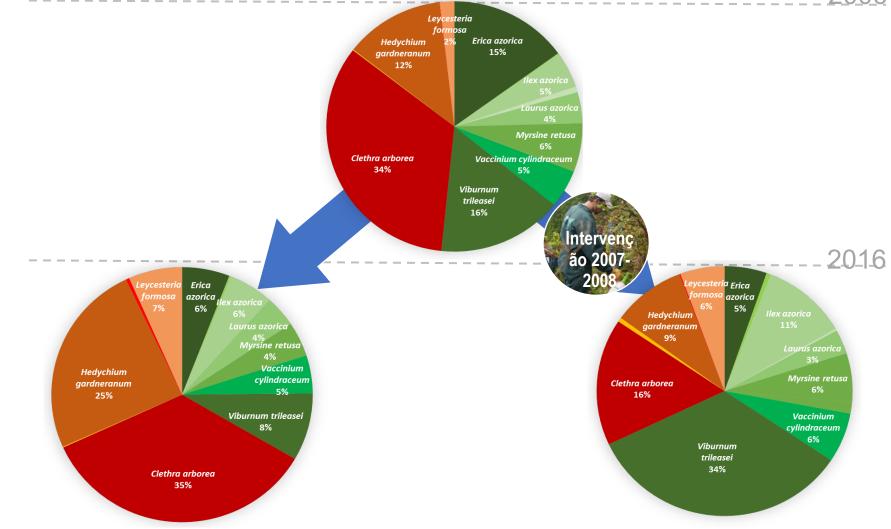




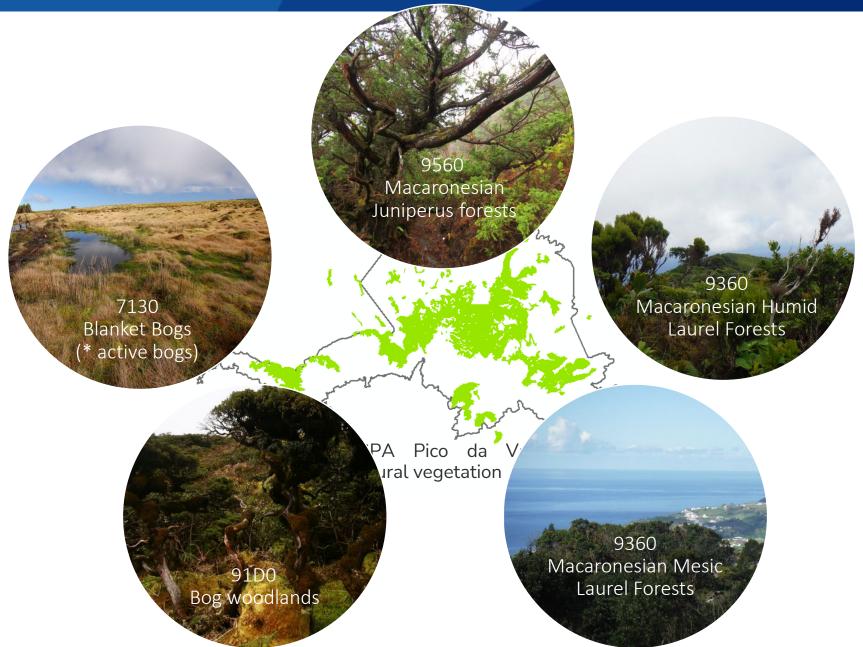


Evolution of Humid Laurel Forests in Lands of Priolo

2006













Biodiversity hotspot

Key Biodiversity Areas (KBAs)

PTZPE0033

PTMIG0024







DIFFERENT STAGES IN THE PROCESS OF ENVIRONMENTAL RESTORATION OF ECOSYSTEMS IN THE AZORES

- IAS control With Acquired Experience
- Management of IAS Biomass With Acquired Experience
- Soil stabilization New(2014)
- Reintroduction of native vegetation With
 Acquired Experience *
- Riverine ecosystems resilience New(2017)
- Long term maintenance unknown





IAS CONTROL – ACQUIRED EXPERIENCE

Development of selective IAS control methodologies

Control of *Hedychium gardnerianum* :

- Manual techniques not feasible due to high densities
- Adaptation of a methodology developed in New Zealand
- Selective "Cut & Paint" technique

Control of Pittosporum undulatum:

- Unsuccessful manual techniques
- Selective trunk injection technique
- Issued Emergency permit for Azores Roundup Ultra Max (SPEA+DRRF+DRAg)

• Training and capacity building of the operational team





MANAGEMENT OF IAS BIOMASS – ACQUIRED EXPERIENCE

• Large volumes of invasive biomass resulting from logging operations (ex. 100.000 Ton. in Gradient area)

• whenever possible use of mulching equipments

 In areas of difficult access the only alternative is burning







SOIL STABILIZATION (RIVERINE ECOSSISTEMS) - NEW (2014)

• Test and adapt best methodologies (natural engineering - *nature based solutions*)

• Vegetative material only from endemic and native species of the Azores flora



• Test and adapt best methodologies







living grid



Planting



Live Piling



Hidroseeding

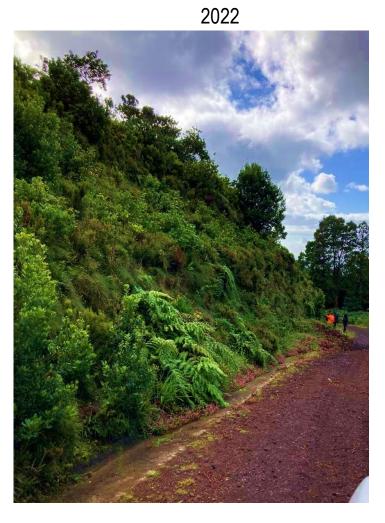


• Vegetative material only from endemic and native species of the Azores flora

Fanésia	Nemeral	Tipo de propagação			
Espécie	Nome vulgar	Vegetativa	Plantação	Sementeira	
Laurus azorica	Louro	Х	Х	-	
Picconia azorica	Pau branco	-	Х	-	
Morella faia	Faia	Х	Х	Х	
Erica azorica	Urze	-	Х	Х	
Juniperus brevifolia	Cedro do mato	-	Х	-	
Prunus azorica	Ginga do mato	Х	Х	-	
Frangula azorica	Sanguinho	-	Х	-	
Vaccynium cylindracenum	Uva da serra	Х	Х	-	
Viburnum cylindracenum	Folhado	Х	Х	-	
Calluna vulgaris	Queiró	-	Х	Х	
Hypericum foliosum	Malfurada	Х	Х	Х	
Leontondon rigens	Patalugo	-	Х	Х	
Tolpis azorica	Tolpis	-	Х	Х	
Luzula purpureosplendes	Sargasso	-	Х	Х	
Holcus spp.	Holcus	-	-	Х	
Festuca francoi	Bracel	-	Х	Х	

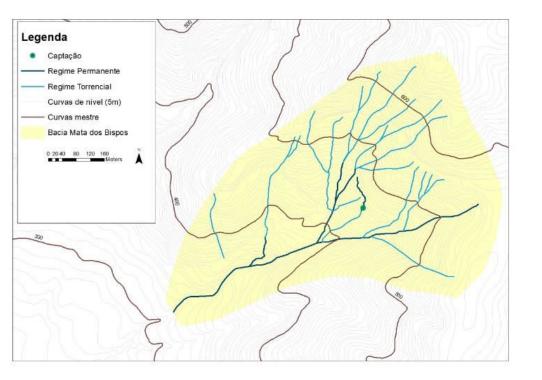








MATA DOS BISPOS HYDROGRAPHIC BASIN INTERVENTION AREA



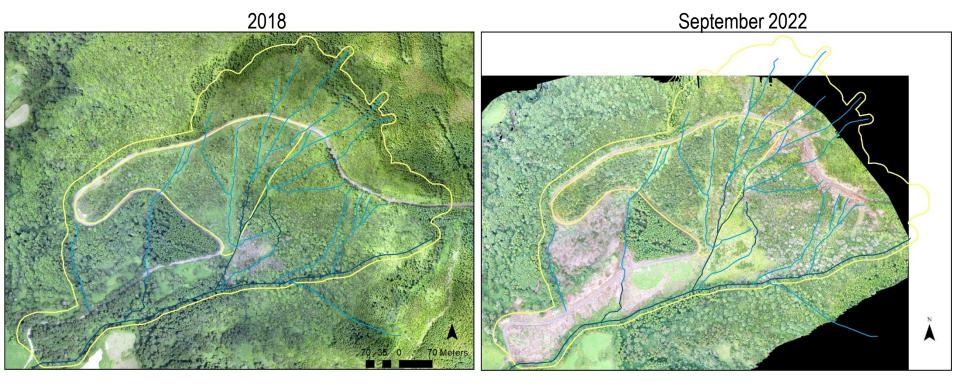
• The aim is to restore the water dynamics at micro-basin level

 Ecological Restoration of 41ha of natural habitats

- 5.5km of water courses
- 1.5 km of which are of permanent flow



IAS Control & Biomass managment







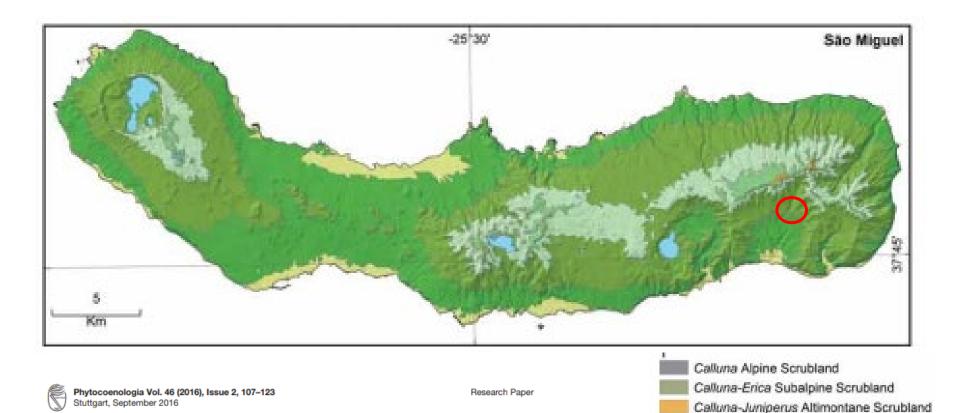
Juniperus Montane Woodland

Juniperus-Ilex Montane Forest

Erica-Morella Coastal Woodland

Laurus Submontane Forest Picconia-Morella Lowland Forest

REINTRODUCTION OF NATIVE VEGETATION



Natural zonal vegetation of the Azores Islands: characterization and potential distribution

Rui B. Elias*, Artur Gil, Luís Silva, José M. Fernández-Palacios, Eduardo B. Azevedo & Francisco Reis



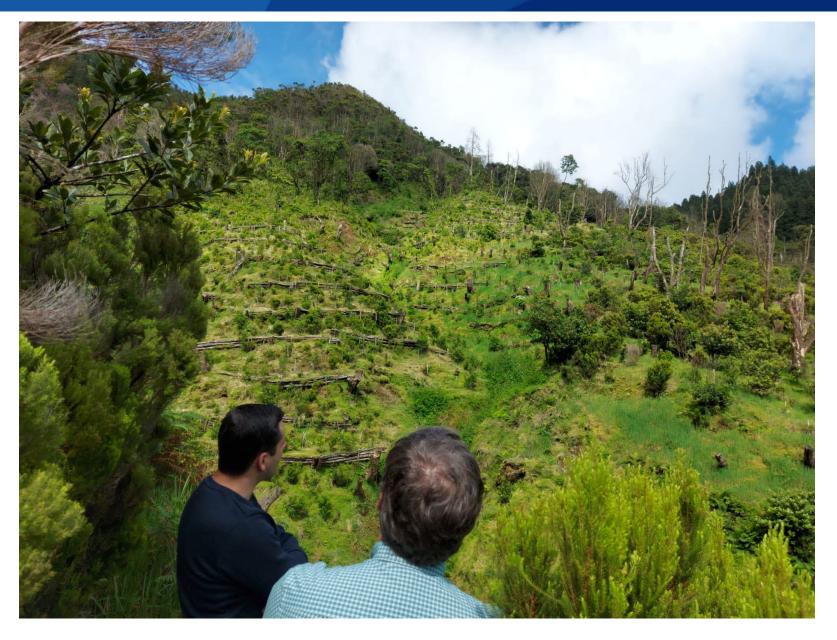
ESTABLISHMENT OF ENDEMIC AND NATIVE STANDS



• The last 3 years 90.000 plants instaled in the terrain









2023

EXAMPLE - ECOLOGICAL RESTORATION ACTION (GRADIENT SITE)



2015

2016

- Clear cutting on 9 hectares
- Estimated removal of 10,000

tonnes of invasive biomass

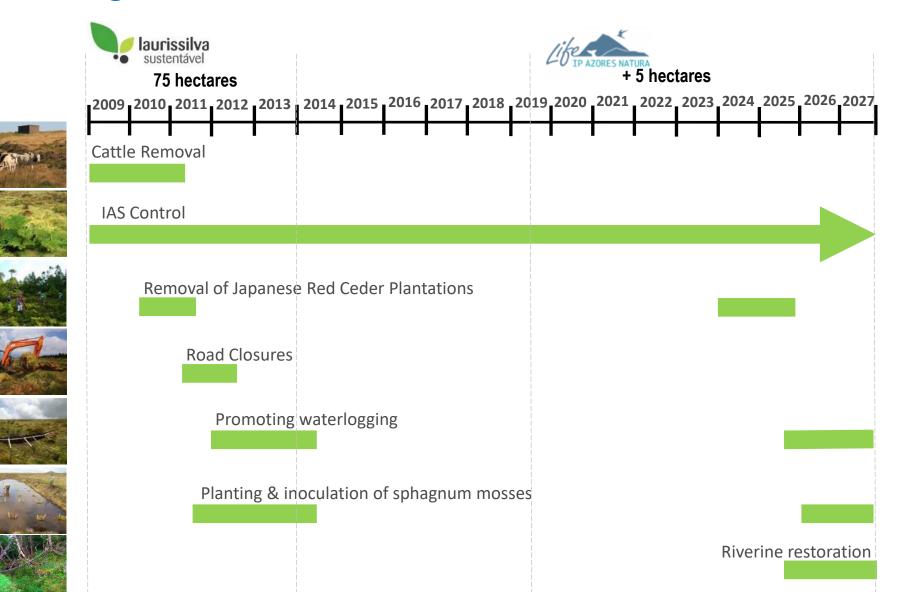
2018

155,000 native plants planted





Peatbog restoration: Promoting the development of plant communities and water dynamics

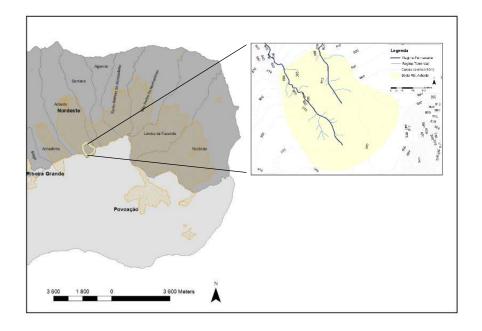






Ecological Restoration of HB in Peatbogs - Graminhais

Removal of japanese red cedars



Area to be interveeened 39 ha - scheduled to start in 2024



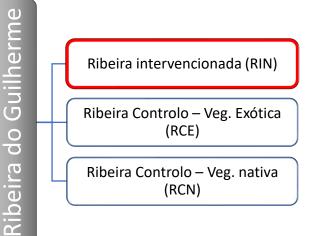
Japanese Red Cedar

Native riparian vegetation



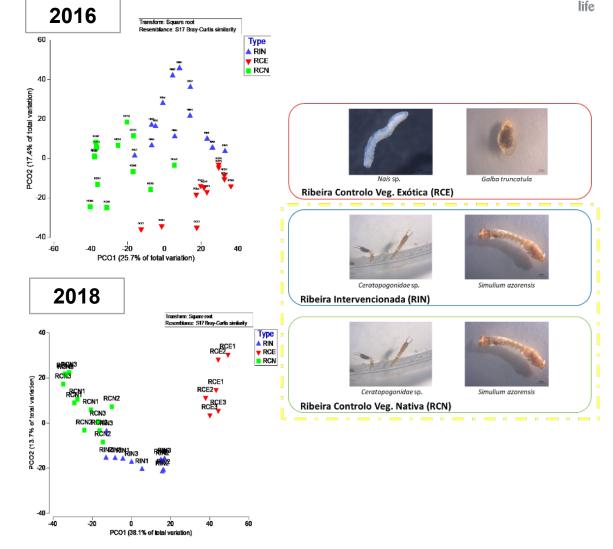
do priolo

MONITORING - biological community structure



Preliminary results

The macroinvertebrate community in the intervened stream approached the community of the native Veg. control stream by the year 2018.



04 Conservação do Priolo e seu habitat

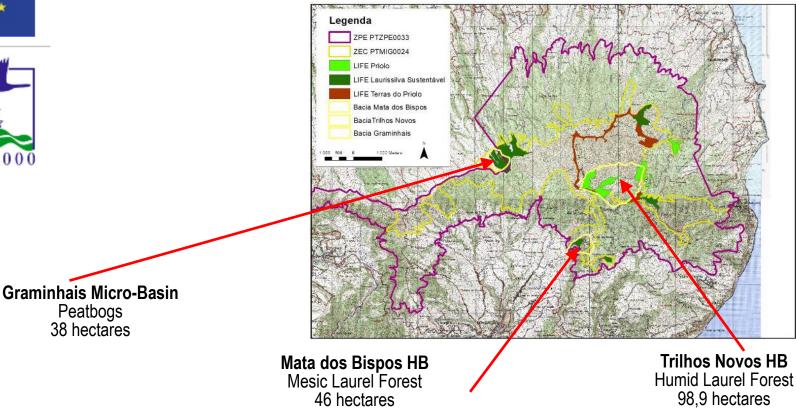








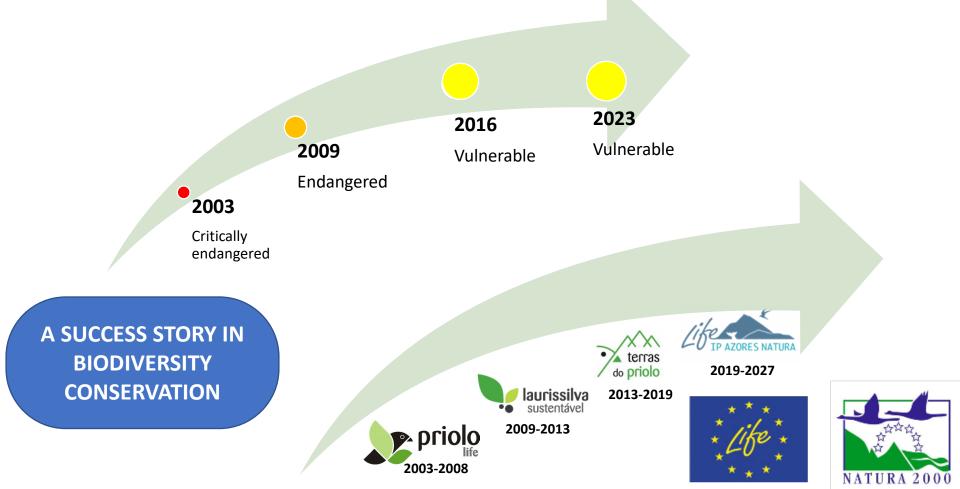
Total of 443 Ha Intervened by 2019





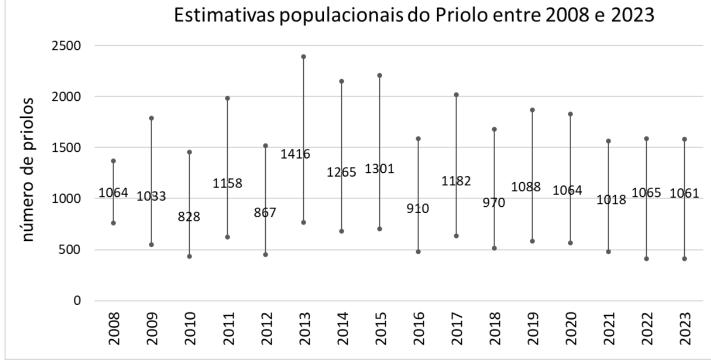
2003 – 2023

20 years working to conserve the PRIOLO and its habitat

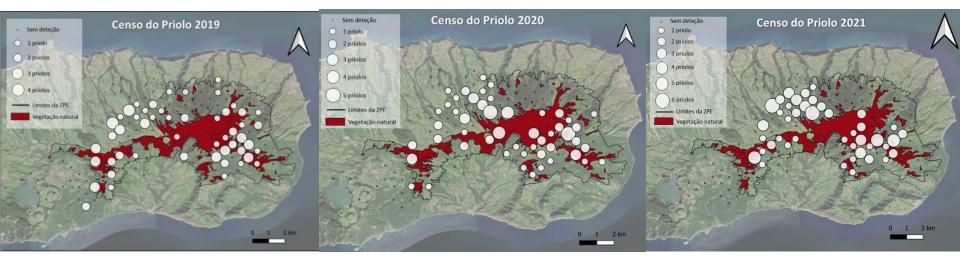


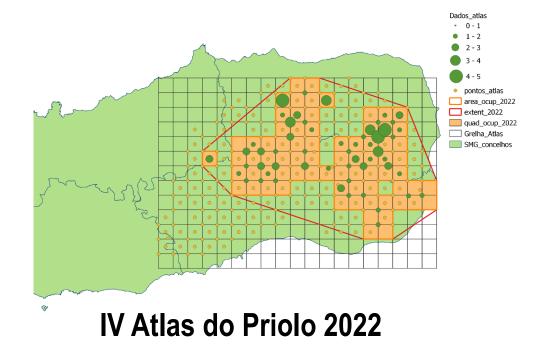






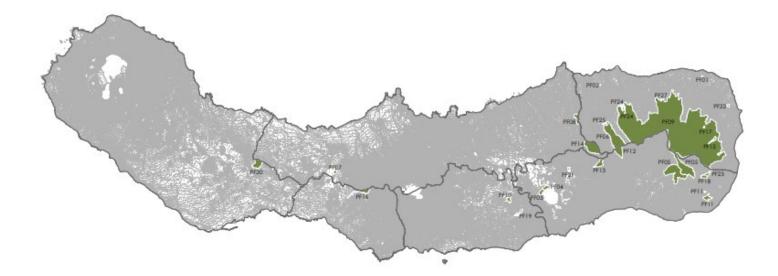








\pm 50% OF THE JAPANESE RED CEDAR PLANTATIONS IN THE SPA ARE UNDER PUBLIC MANAGEMENT



Legenda

Perímetro Florestal e Matas Regionais

PF01_Britadeira do Serviço Rorestal do Nordeste PF02_Casa de Guardo da Achadinho PF03_F03 dei Robaços PF04_Mata da Ceiná PF05_Mata da Ceiná PF05_Mata Regional dos Bipos\ Labaçal PF05_Mata Regional dos Bipos\ Labaçal PF07_Niciteo Rorestal da Achadinha PF07_Niciteo Rorestal do Lamba de São Redro PF09_Niciteo Rorestal dos Bana da Toroqueira PF10_Niciteo Rorestal das Birás Lagoos PF11_Niciteo Rorestal das Telás Lagoos PF11_Niciteo Rorestal das Erigida de Dentro PF12_Niciteo Rorestal dos Sato da Cavalo PF14_Rico María do Casta PF15_Reservo Florestal de Recreio da Concello do Cinzeiro PF16_Reservo Florestal de Recreio da Chã da Macelia PF12_Reservo Florestal de Recreio da Chã da Macelia PF12_Reservo Florestal de Recreio da Cajú do Rodiĝo PF18_Reservo Florestal de Recreio da Agua Retorto PF19_Reservo Florestal de Recreio do Vineiro da Nordeste PF21_Reservo Florestal de Recreio do Vineiro da Nordeste PF22_Reservo Florestal de Recreio do Vineiro da Nordeste PF23_Reservo Florestal de Achodán PF24_Vineiro Florestal da Achodán PF24_Vineiro Rerestal da Achodán PF24_Vineiro Rerestal da Achodán PF24_Vineiro Rerestal da Cancela do Cinzeiro PF24_Vineiro Rerestal de Cenado dos Bazerros







REGIÃO AUTÓNOMA DOS AÇORES SECRETARIA REGIONAL DA AGRICULTURA E FLORESTAS Direção Regional dos Recursos Florestais

Plano de Gestão Florestal

Perímetro Florestal e Matas Regionais da Ilha de São Miguel

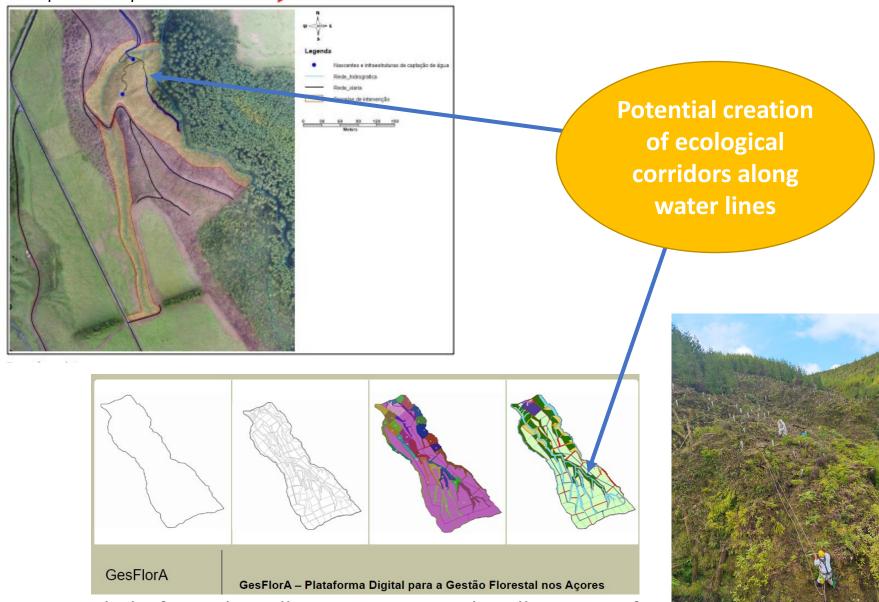
> Direção Regional dos Recursos Florestais Janeiro de 2017

http://drrf.azores.gov.pt/areas/cert/Documents/PGF_do_Perimetro_ Florestal_e_Matas_Regionais_da_Ilha_de_Sao_Miguel_2017.pdf





Example of an Operational unit







SPEA and the other agents (loggers and Perimeter Management Entity-DRRF) working in the area covered by this Forest Management Plan (PGF) are subject to **ANNUAL audits**.





Plano de Auditoria Remota de Gestão Florestal

Por favor note que se a auditoria for cancelada com aviso inferior a uma semana, será cobrada uma taxa de cancelamento

Antes de uma auditoria de acompanhamento assegurar que:

- Por favor assegure que as Políticas Governamentais ou Corporativas relacionadas com restrições do COVID-19 (Coronavirus) estão disponíveis.
- As acções correctivas em aberto foram resolvidas (ver página Findings no último relatório)
- Existe um resumo com as vendas certificadas
- Verificado se o âmbito do certificado precisa de ser alterado (ex. âmbito / n de stes) ou se ocorreram quaisquer alterações ao sistema de gestão
- · Existe um resumo de qualquer uso de químicos
- Verificar se a área florestal alterou (para cálculo da taxa do FSC®).
- · A Soil Association Certification é contactada em caso de quaisquer dúvidas.

Data da auditoria	28 de Maio e 2 de Junho de 2021		
Nome do Cliente e número do	Direcção Regional dos Recursos Florestais (SA-FM/COC-004293)		
certificado (caso exista)			
Localização / Âmbito	Certificação individual		
Tipo de auditoria	3ª Auditoria de monitorização		
FSC AAF	Confirmado.		
Membros da equipa auditora	Filipa Gouveia (Auditor coordenador).		
	Andreia Silva (observador, a avaliar Filipa Gouveia)		
Objectivo da auditoria	Avaliação da conformidade com as normas relevantes.		
	Poderão ser consultados algumas partes interessadas durante a auditoria.		
Normas utilizadas - Incluir o	- FSC-STD-PRT-01-2016 Portuguese all scope EN		
número da versão e data	- FSC Trademark Standard 50-001 V2-0.		
Evidência da razão oficial	As evidências oficiais que permitem a realização de uma auditoria remota serão		
para a realização da auditoria	registadas como parte da auditoria. A empresa deve assegurar que as Políticas internas		
remota	da entidade certificada relacionadas com restrições do CÓVID-19 (Coronavírus) estão		
	disponiveis.		
Metodologia	Esta é uma auditoria remota devido a restrições do COVID-19 e está a ser realizada após		
	a Derrogação do FSC FSC-DER-2020-01 (ou subsequentes atualizações) e / ou Diretrizes		
	do PEFC sobre o COVID-19.		
	Nesta auditoria remota, a Soil Association Certification utilizará a tecnologia da		
	informação e comunicação (TIC) para avaliar todos os requisitos do plano anual de		
	auditoria na medida do possível. As auditorias devem ser conduzidas com base em		
	reuniões / entrevistas virtuais com pessoas relevantes do detentor do certificado e das		
	partes interessadas, documentos e registros relevantes, imagens de satélite (sempre que		
	possível) e outras melhores informações disponíveis.		
Principios e Critérios a serem	Princípios 2, 5, 10 - na totalidade:		
avaliados	Critérios 6.4; 6.6; 9.4 e 10.3 por existirem FAVC:		
	10.7, devido à entrada em vigor da FSC-POL-30-001 V3-0 EN FSC Pesticides Policy);		
	Indicadores onde sejam observadas não-conformidades durante a auditoria.		
Servicos de Ecossistema	Não aplicável. Serviços de Ecossistema não são avaliados na auditoria.		
Tópicos do relatório	Será entregue um relatório após a auditoria, que inclui informação de auditoria, um		
	checklist preenchida e quaisquer acões corretivas que sejam emitidas.		





Despite all the successes achieved, the fact is that still no mechanisms have been developed that allow active management in the long term, jeopardizing all the results achived.



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RUI BOTELHO Coordenador SPEA Açores



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