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Payment for environmental results in the Portuguese Montado:

progressing in local co-construction

Teresa Pinto-Correia, Isabel Ferraz de Oliveira,

Maria Helena Guimarães and José da Veiga

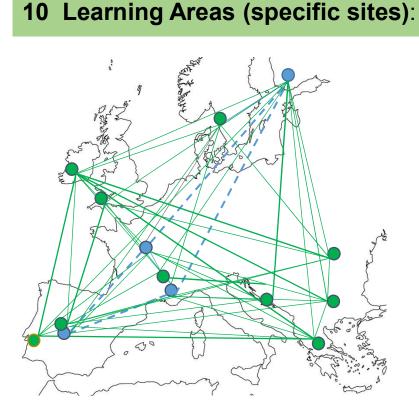
ICAAM, Universidade de Évora



The HNV-Link project (H2020-CSA) 2016-2019



- Focus on HNV: High Nature Value Farming
- Development and sharing of innovative strategies and practices which support HNV farming systems and the communities that interact with them



Western Stara Planina, Bg Eastern Hills of Cluj, Ro Dalmatian Islands, Hr Thessalia, El Causses & Cévennes, **Fr** Sítio de Monfurado, **Pt**

La Vera, Estremadura, Es Vastra Gotaland, Se Dartmoor, **UK** The Burren, le

improving economic viability & environmental eficiency

multi-actor clusters

participatory methods for co-construction

cross-visits to the **Learning Areas**





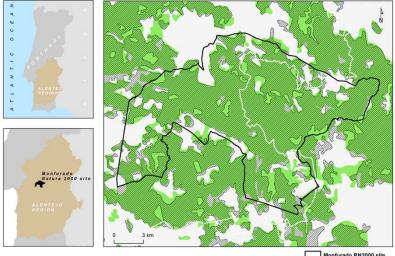


Portuguese Learning Area: Monfurado Natura 2000 site

Montado



Regeneration of tree cover Consevation of biodiverse pastures Conservation of healthy and functional soil Preservation of diversity and habitats Promotion and branding of specific and unique products



MONFURADO NATURA 2000 SITE Distribution of montado in 1960 and 2006









intados (2006)

which tools ?.... result-based agri-environmental schemes

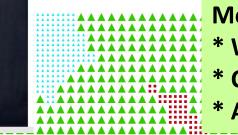


»» a more flexible and performance based CAP »» HIGHER the ambition on environmental and climate action

https://ec.europa.eu/info/food-farming-fisheries/key-policies/common-agricultural-policy/future-cap_en#working

» Farmers play a key role: they have the possibility to contribute further & be rewarded for going beyond mandatory requirements

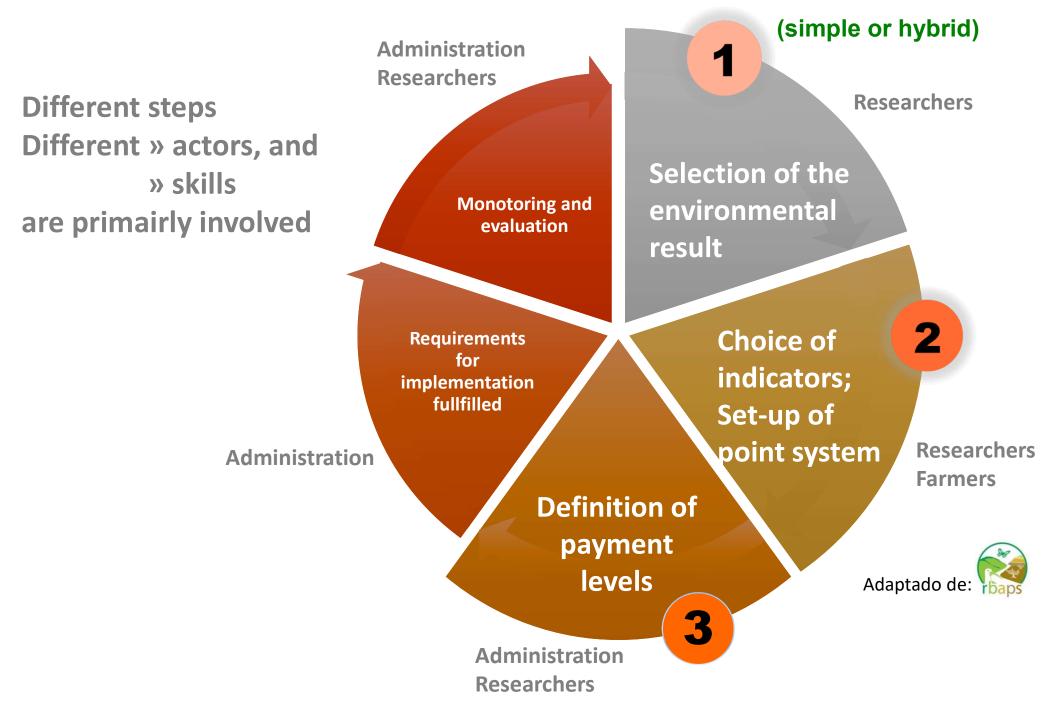
»» place to innovate and experiment »» calls for NEW ways to incentivise farmers to deliver environmental benefits



Monfurado / HNV-Link farmers * Willing to experiment

- * Willing to experiment
- * Co-construction with research and administration
 * Aiming for a pilot scheme
- •

How to build a scheme: Result Based Payments



Selection of the environmental result

The environmental result has to be clear:

Be dependent on the farm practices

1

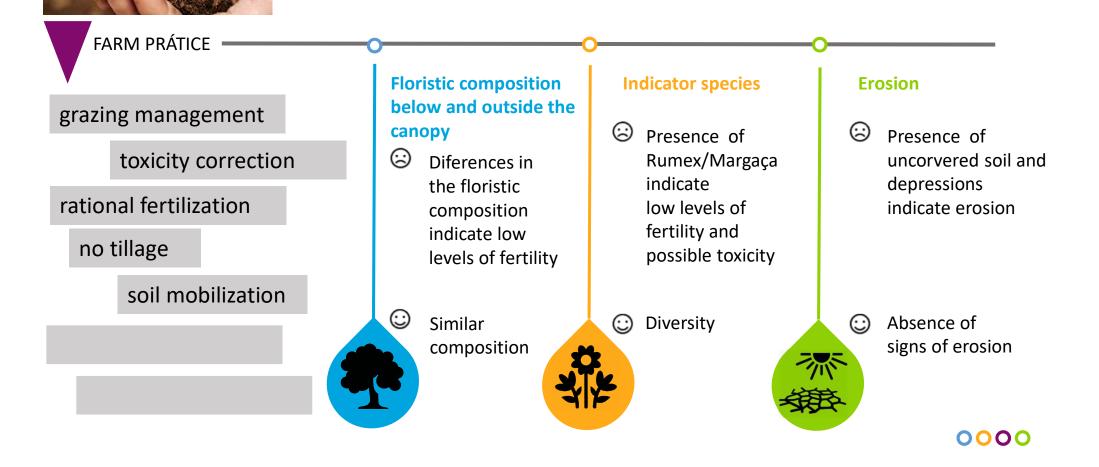
- Be an objective of a known conservation state (conservation priority at Nacional ou Regional level)
- Be object of scientific knowledge that allow the selection of indicators for its evaluation.

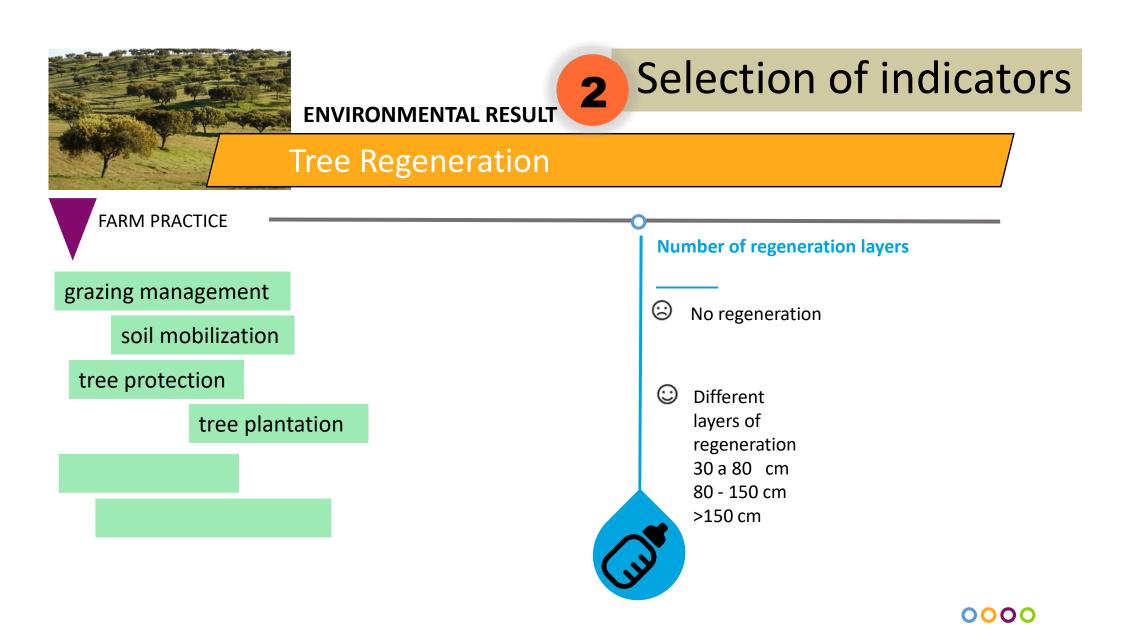
Selected results for the Montado **Patches of schrub** Small woodlets of Quercineas / Pinus **Tree regeneration** Mediterranean biodiverse pastures Water lines with riparian galery Mediterranenan A healthy soil with all the temporary pounds required functions The de tre Street

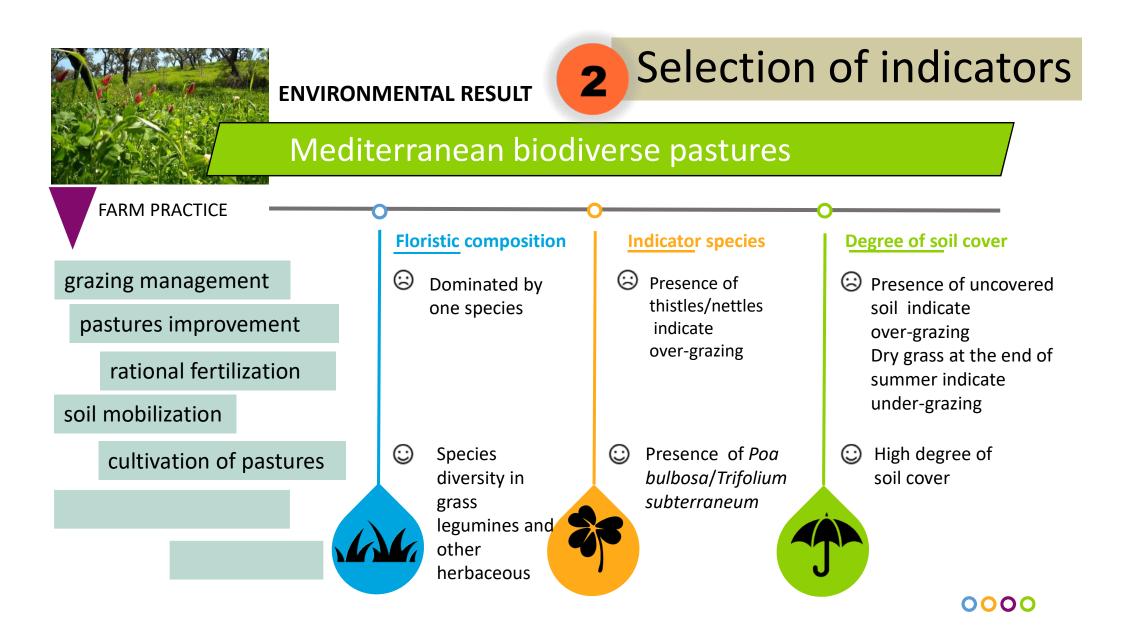
ENVIRONMENTAL RESULT

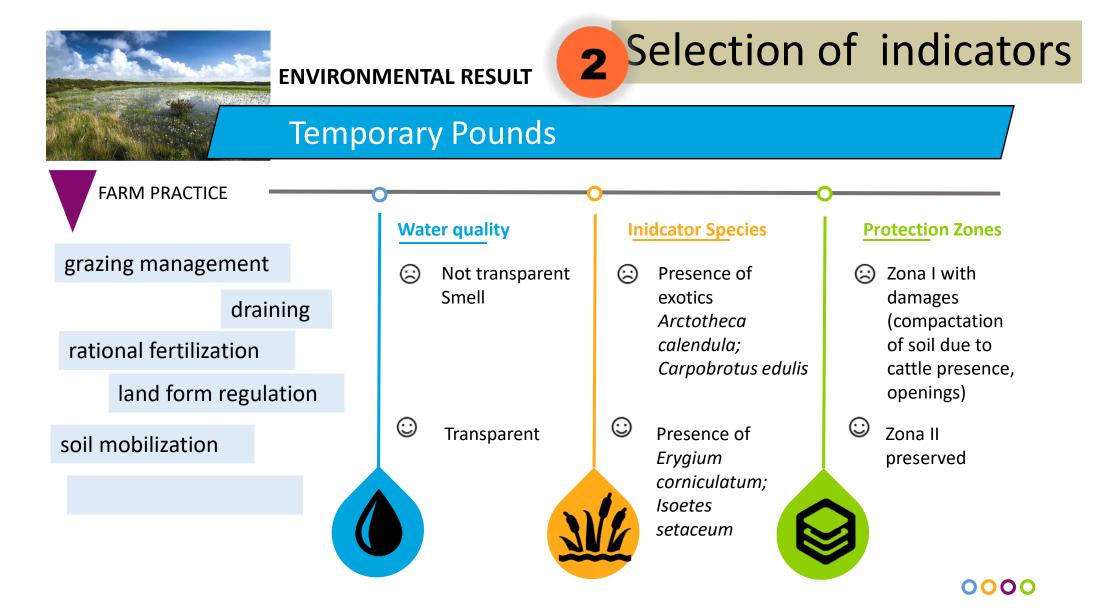
2 Selection of indicators

Healthy soil with all its functions











Point System:

1 – 10

✓ Indicators have to be quantifiable

Indicators must reflect the condition of the defined Environmental Result

✓ Need to check their applicability in the field



Programa Montado - Produzir e Conservar: uma proposta para a construção de um caso piloto de pagamentos por resultados

A. Healthy and functional soil

A1. Are there differences between the floristic composition under and outside tree canopies?

Very evident difference	Intermediate level	Some difference	Intermediate level	No diference
There are clear circles under the canopies with different floristic composition from that outside canopies		There are some patches of resistant herbaceous species		No visible differences in herbaceous floristic composition under and outside tree canopies

A2. What is the combined cover level of negative indicator species?

High	Intermediate level	Medium	Intermediate level	Negligable
>75% Predominance of rumex and/o	or			
Anthemis cotula or others with surviv	al	25-75%		<25%
capacity in low fertility soils				
I. Is there bare soil and erosion	signs			
3. Is there bare soil and erosion Very high	<mark>i signs</mark> Intermediate level	Medium	Intermediate level	Negligable

B. NATURAL REGENERATION

B1. Is there oak natural regeneration?

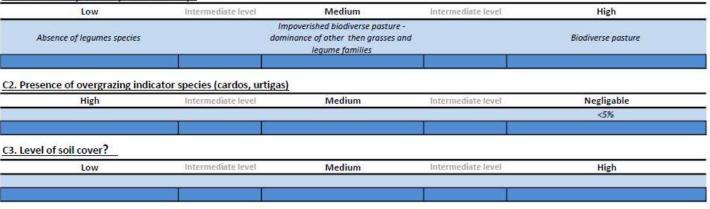
Absence	Intermediate level	Regeneration (< 1m)	Intermediate level	Regeneration (> 1m)
Total absence of regeneration				

B2. What is the density of regeneration?

Low	Intermediate level	Medium	Intermediate level	High

C. BIODIVERSE MEDITERRANEAN PASTURES

C1. What is the pasture specific diversity?



D. BIODIVERSITY PROMOTER UNIQUE ELEMENTS



Definition of payment levels

A Montado farm is a complex system, with plots and grazing inside and outside the Montado

multiple interacting factors to play with

Payment calculated on basis of

- Income loss
- Extra costs
- Costs of single investments

Extra costs » estimations based on

- Total farm budget calculation : too complex
- Value/price of pastures and grazing needs (UFs) per cow+veal : possible



EXAMPLE: Monfurado region: grazing in Montado x days/year

Need to reduce grazing period to improve recovery index of pasture's biodiversity ?

Payment level »» estimated based on * extra feed needs and * value of pastures in another plot ** reducing from 100 to 75 days of grazing in Montado so that the biodiverse pasture regenerate payment covers cost/cow = 25 days grazing x 8,25 UFs/day

BUT final payment always depends on RESULT

What have we learned so far ?

Innovation has good conditions to emerge when different knowledge, perspectives and skills are combined in a process where actors involved **feel empowered**.

Farmers can act as key drivers: researchers took the lead as initiators of the innovation process, but the result-based proposal for the Montado has, step-by-step, been appropriated by farmers

Follow up and **constant knowledge transfer and exchange** is key to find adaptive solutions »» fundamental support for successful schemes

Competitive research funding is a supporting mechanism, but **long term investment** is a pre-condition for the co-construction of such a result-based program

»»» next step – experimental implementation » pilot





Many Thanks for your attention Muito Obrigado pela vossa atenção

mtpc@uevora.pt

