Pearl Mussel Project EIP





An Roinn Talmhaíochta, Bia agus Mara Department of Agriculture, Food and the Marine



'The European Agricultural Fund for Rural Development: Europe investing in rural areas'.



Presentation Outline

- Overview of PMP
- Freshwater Pearl Mussel

requirements

- What are results-based payments?
- Pearl Mussel Project programme







Background

- Total budget of 10 million, 5 year project
- European Innovation Partnership (EIP)
- Funded by DAFM as part of Ireland's Rural Development Programme 2014-2020 (Article 35(1) of Commission Regulation (EU) 1305/2013)
- Project team based in Kenmare, County Kerry and

Westport County Mayo





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Project Aim

"To design and implement an innovative programme to contribute towards the long term conservation of critical Freshwater Pearl Mussel populations in Ireland by working with rural farming communities.

To support the development of a vibrant local economy."





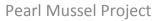
Top eight catchments

(c.748 eligible farmers)



	Number of farmers				
		Private farms	Commonage only	Area (ha) farmland	Average farm size (ha)
Glaskeelan	49	12		582	11.9
Bundorragha	94	11	. 83	4397	46.8
Dawros	60			4680	
Owenriff	115	85	30	4459	38.8
Owenagappul	88	39	49	1968	22.4
Caragh	150	137	13	10449	69.7
Currane	88	74	14	5927	67.4
Kerry Blackwater	104	93	11	8255	79.4
TOTAL	748	484	264	40717	

http://bit.ly/PMPcatchments





Freshwater Pearl Mussel

Margaritifera margaritifera

- Biology
 - Complex life cycle
 - Live to 120 years
 - Indicator of exceptionally clean and healthy environment
 - Endangered, nearly all Irish populations on verge of extinction
 - Top eight catchments are best remaining populations
- Pressures
 - Flow
 - Sediment
 - Nutrients
- Conservation
 - Concentrating efforts on those catchments with juvenile recruitment (top eight)







Nuts and bolts

Q1: What are results-based payments? Q2: How do we assess results in the PMP?





What are results-based payments?

- Payments are linked to the quality of the biodiversity (habitats &/or species)
- Result indicators are used to determine a quality score verified at field level
- A range of quality and scores exist, where higher quality = higher payment level
- Increased cost-effectiveness with money saved on poorer ecological quality



Creating a market

• Apply market value on the services that High Nature Value farmland provides







Environmental Services (products)

- Focus on Freshwater Pearl Mussel will deliver environmental services of high value to society
 - Clean water
 - Flood regulation
 - Climate regulation (carbon storage)
- Natural landscapes
- High levels of biodiversity
- Improved soil conditions
- Payment to farmers based on achieving targets that reflect provision of these services





PMP design approach

- Locally adapted, practical and results focused
- Balance incentivising higher quality output and overall scheme complexity
- Facilitate flexible and adaptive management on farm
- Build local trust and capacity
- Account for factors outside the farmers control





What result indicators can we use for Freshwater Pearl Mussel?

• Key habitats in target catchments





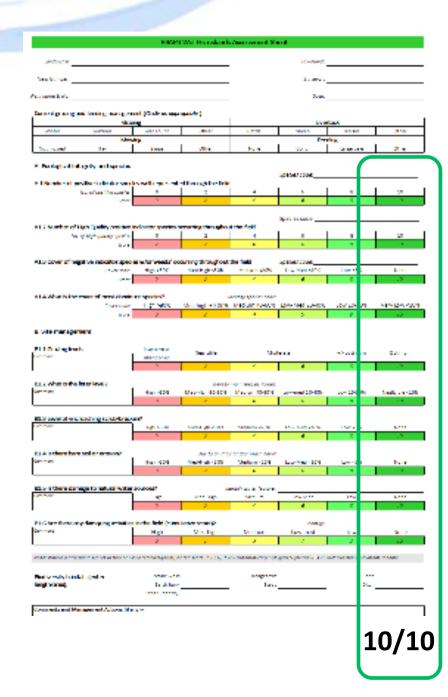
Scorecards for:

- Grassland
- Peatland
- Scrub
- Whole farm watercourse assessment





Scorecard



Guidance documents



Sample habitat quality Blanket bog / Wet Heath



Low quality (Score 0-3) € 0

Moderate quality (Score 4-6) €€€ High quality (Score 8-10) €€€€



Sample habitat quality Wet grassland



Low quality (Score 0-3) € 0 Moderate quality (Score 4-6) €€€ High quality (Score 7-10) €€€€



Connectivity with target

- Watercourses: streams and drains
- Whole farm approach
- Farm score adjusted based on result of assessment

0.3

- Good quality: 1.25
- Adequate quality: 1
- Poor quality: 0.6
- Very poor quality:







Payment streams

Results Payments

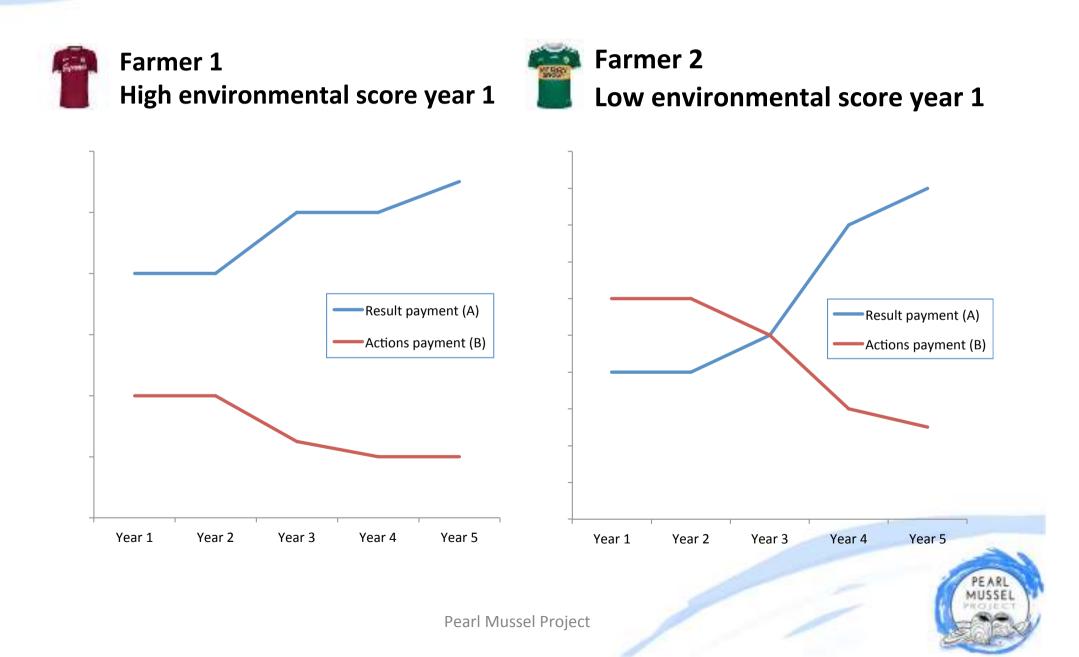
Environmental target is measured (scored 1-10) Better quality = Higher scores = Higher payments

Supporting Actions Payments

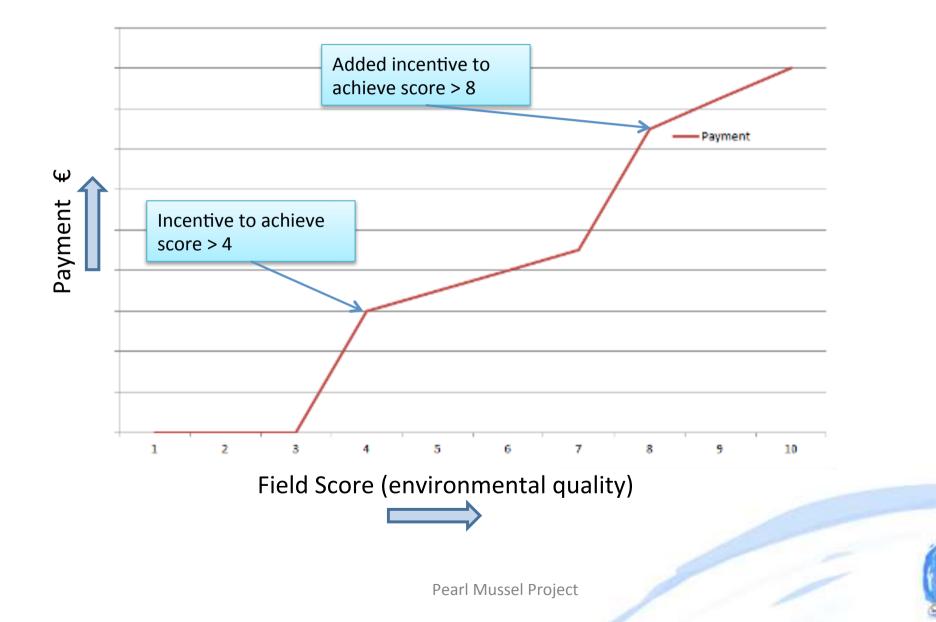
Payment to complete measures to help improve result



Sample payment profiles



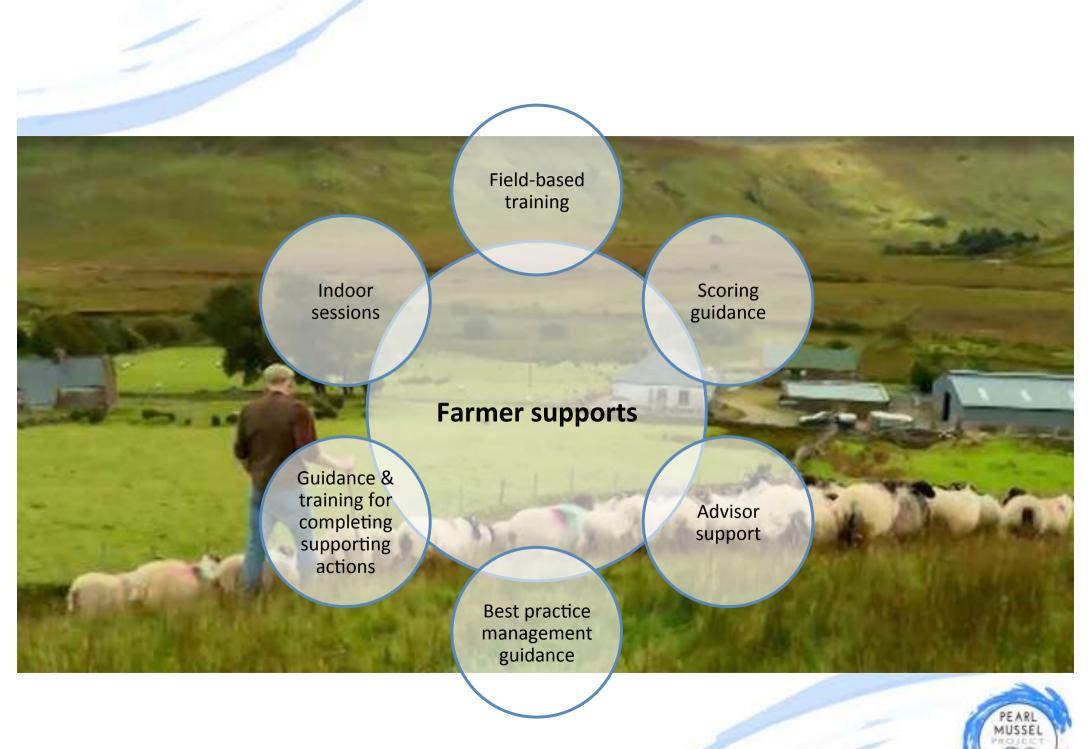
Result Based Payment Scale



PMP assessment process



PEARL



Priority Ranking

Private lands

Mussel river

Other watercourse

Other area of catchment

Commonage

Mussel river

Other watercourse

Other area of catchment



High

Next steps

- Recruit two catchment officers to join team
- Farmer meetings in each area (late 2018)
- Publish outline of scheme guidance documents, T&Cs
- Recruit participating farmers
- Advisor and farmer training



