

# Farm Payments for Ecology and Agricultural Transitions

Farming with nature in the midland raised bog landscape

# **Counting Carbon – Science and Practice Teagasc Conference**



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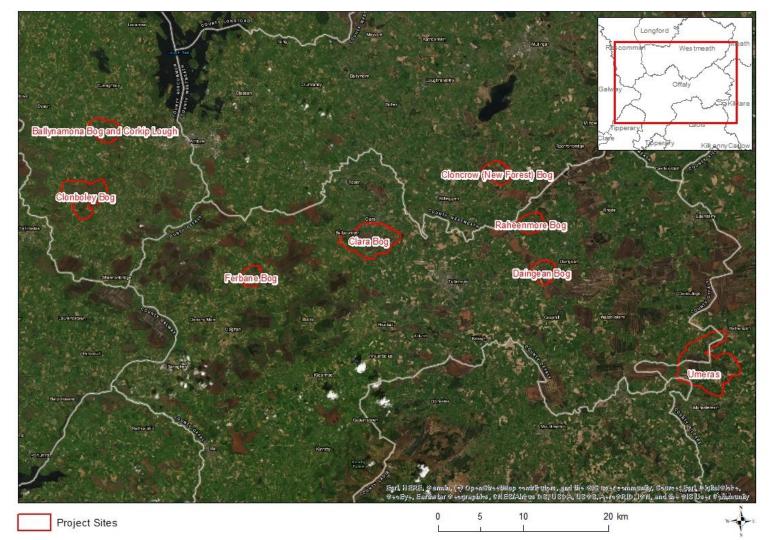
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www.farmpeat.ie

### **Project Aims**

- To work with farmers to design and trial a locally adapted results-based scheme for the lrish Midland Landscape
  - Design a scheme that will incentivise improved management of habitats on peat soils,
     benefitting climate, biodiversity and water
  - Reward farmers for maintaining and improving the local environment
- Increase awareness of the importance of raised bog habitats and the sustainable use of peatland soils in these areas.

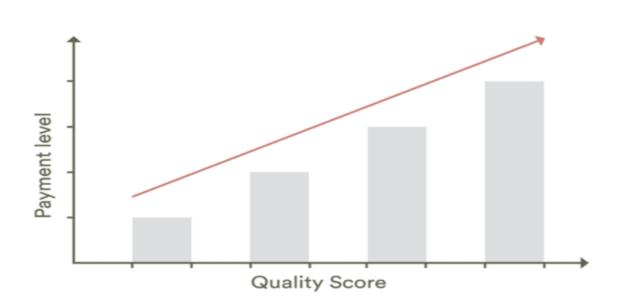








# Results-Based Approach



Payments are linked to the nature quality of your farm. **Higher Nature Quality = Higher Payment Level**. Each plot (Field) is scored out of 10 using a scorecard that captures high and low quality which reflect past and current management.









# Scoring







Low quality (Score 0-3) €0 - €75/ha

RESULTS
PAYMENT

(Habitat Quality

× Whole Farm
Adjustment)

Adjustment)

Adjustment

High quality (Score 7-10) € 300 - €450 /ha





# Score cards

The Fan	mPEAT Pr	oject I I	Habitat Sco	recard	<u>I</u> Pea	t/ Wet Grassland
FP Farmer ID:		Date:	To		Total Score:/10	00
Plot Number:		Survey	OF:		(A+B+	C)
(to be used on all grasslands on, or partly on, peat soils (even if they are not wet) and also onwet grasslands on non-peat soils)  **Circle the correct score. Eg: **Qi						
In Turlough:		Yes	O N	0 (		
Dominant Soil Type:		Peat	M	ineral (		
Dominant Habitat Typ Marsh Fen		Grassland	O Imp	proved A	gricultural Grassland	0
A. Ecological Integrity Score:/40						
Tick the positive indicators that occur.						
1. Bedstraws (small) and Stitchworts	$\circ$	12.ºMarsi	Cinquefoil	$\circ$	23. Selfheal or Bu	
2. Birdsfoot Trefoil (Common & Greater)	0	13.ºMarsi	n Marigold	$\circ$	24. <sup>o</sup> Sphagnum o mosses	r Branched
3.ºDevilsbit Scabious		14. ºMarsi	Pennywort		25. Sorrel (Sheep or Comm	on)
4.Eyebrights (all)		15.ºMarsi Meadow 1	n Thistle or Thistle	$\circ$	26. Tormentil (Co English)	mmon &
5.ºForget-me-nots (all)		16.ºMead	owsweet		27.ºUmbels large Valerian, Hogwee	
6.Heathers (all), total cover in grassland habitat < 25%	17. ºM ints (all) or Purple Loosestrife			00000	28. Umbels small Yarrow & Wild ca	(Pignut,
7. Knapweeds (Common & Greater)		18. Orchids (all)			29. Vetches/vetch	nlings
8.Lady's Mantle		19. Ox-eye datsy			30. Violets (all), F	farebell (
9.ºLady 's Smock		20.ºRagged robin			31. <sup>e</sup> Yellow Flag (	Iris)
10.ºLesser Spearwort			small (woodrus , heath rush)	h ()	32. Yellow-rattle	
1.ºLouseworts (Common & 22.ºSedges (all)				0	33. Yellow compo Ears, Hawkweeds Goats-beard) not	, Hawkbits,
How many positive indicators present in the plot?						
low 0 - 4	medium 5	-8	high 9 - 12		very high >12	
0	3		5		10	
A.2 What is the combined cover of positive species throughout the plot?						
Low: Positive indicators not very	Moderate: Positive indicators every		High: Positive indicator every		Very high: a number	
visible and hard to	few steps.		step.		of positive indicators every step.	
find. O	3		5		10	

#### Section A – Ecological Integrity

- Number and % cover of positive indicator species
- % cover of negative indicator species
- Quality of vegetation structure

#### Section B – Hydrology

- Presence of wetland indicator species
- Functionality of drainage features
- Water level in drains

#### Section C – Damaging Activities

E.g. burning, bare soil and erosion, turf cutting

# **Payments to Farmers**

# RESULTS-BASED PAYMENT RATES

#### 3 years

- Max. payment: €9,100
- Min. payment: €39 (€800)
- Average annual payment: €1,927

### **TOTAL PAYMENTS**

#### 3 years

- Max. payment: €11,686
- Min. payment: €39 (€800)
- Average payment: €2,442



# Case Study A









2 weeks later

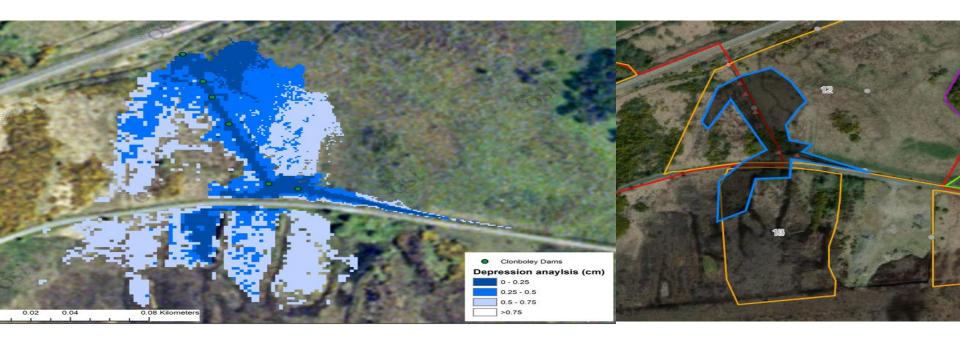


# **Case Study B**





# **Estimating Area Rewet**



RPS Depression Model indicates 0.8ha will be rewetted

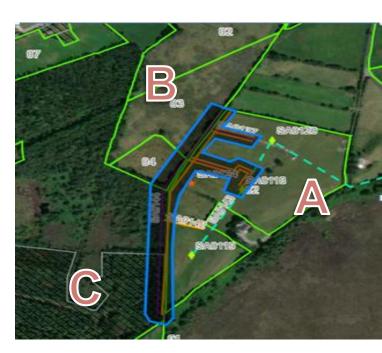
FarmPEAT Team estimate indicates 1.2ha will be rewetted

Based on 7 farmers undertaking drain management, FarmPEAT Team estimates a total of 7ha rewet.

# **Payments to Farmers**

#### PEAT RESTORATION TRAINING PAYMENT





Farmer A = 1.20ha = €900

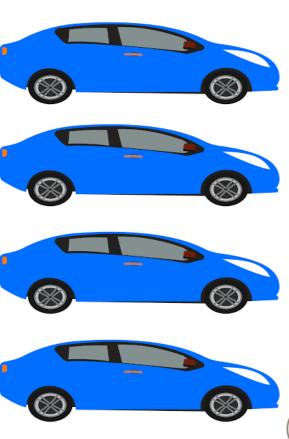
Farmer B = 0.24ha = €400

Farmer C = 0.21ha = €400



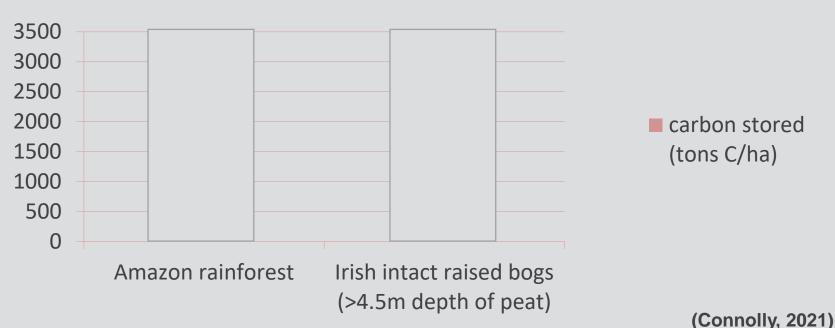
### **Knowledge Exchange – Key Messages**





# Carbon Storage in Intact Raised Bogs with >4.5m depth of peat vs the Amazon Rainforest

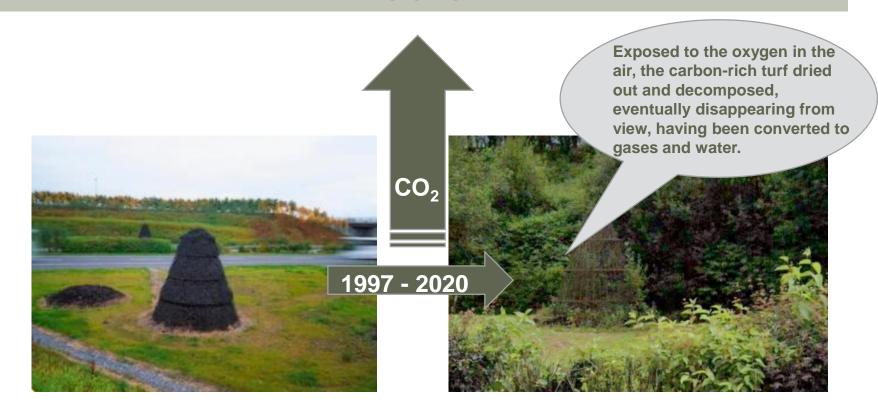




### **Knowledge Exchange – Key Messages**



# Monument at Portlaoise Junction of M7, Co. Laois, Ireland



### Feedback from Farmers

- Flexibility
- Personal interaction and relationships
- Learning from each other and from FarmPEAT
- Voluntary actions
- Sufficiently incentivised
- Long term commitment



### The Future...?

- What is the baseline?
- Where is the money going to come from for these farmers?
- Carbon Credit? needs to be strongly linked with biodiversity and water quality
- Commitment needs to be longer term 20yrs
- Price high enough but not too high.
- Verification needs to be of the highest standard



# If results-based is part of the future....

- Scorecard needs to be refined
- Thorough training to scorers to ensure consistency across farms and across years
- Research to determine distance from drain where water-table is impacted and the magnitude of such impacts



### **Thank You!**

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