





Q: How do you set up a large-scale peatland restoration project?



A: I don't know – it started small & grew!



Wildlife Trust What's the problem?

Yorkshire

Partnership

Peat

Yorkshire

• About 70,000ha of upland peatland in Yorkshire. Nearly all of it degraded

• In excess of 7000km of grips have been cut into Yorkshire's peatlands.

• In excess of 2500km of eroding gullies are present.

• There are at least 430 hectares of bare and eroding peat.





Scoping project funded by Yorkshire Dales NPA & Yorkshire WT

Need to tackle two aspects:

Drainage (grips only at that time)

Bare & Eroding Peat

Some grip blocking already taking place

 Significant NE funding available for peatland restoration through ERDP

•NE called on other partners to assist with delivery

•All partners recognised need for strategic coordination of restoration activity.

•But no appetite to establish another peat restoration organisation

Yorkshire Peat Partnership

 Preferred option is to have a branded Yorkshire Peat Partnership "umbrella" that staff from the partner organisations would deliver under. The "umbrella" would :

Provide a focus and secretariat for the partnership

Coordinate practical restoration programmes channelled through existing organisations (mainly using £8million ERDP funds – HLS)

Develop and coordinate an ecosystems research programme

>Develop a communications and raising awareness programme for the project





Partnership funded by:

Yorkshire Wildlife Trust Yorkshire Dales NPA North York Moors NPA Environment Agency Natural England Yorkshire Water



Other partners: National Trust, Nidderdale AONB, National Farmers Union, Moorland Association, landowners, gamekeepers, farmers.











Simple strong vision



To restore 50% (35000ha) of Yorkshire's blanket bog through a programme of grip blocking, gully restoration and bare peat revegetation by March 2017.











Latest technology - UAV







- RGB and Multi-spectral capabilities
- 24.4 mp RGB Camera

i band multi-spectral sensor, R, G, B, NIR, Red Edg



Latest technology - Satellites





High West & Lodge: SMI



Sphagnum Inoculation



The keystone species in the bogs are the *Sphagnums* which are planted in a number of ways

Dendritic Hagging





Yorkshire

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Peat

Heather bale sediment traps are installed which slow the water and alter the hydrology. Cotton grass and *Sphagnum* are applied to revegetate the bare peat.







We are doing something good for carbon
We are doing something good for water quality
We are doing something good for water quantity
We are doing something good for biodiversity

Yorkshire

Partnership

Peat

 How good do our numbers have to be before we stop apologising for the lack of data?

	The very best people worked too hard with limited resources and little or no job security in extreme conditions!
2009 - 5	Partnership
2010 - 7	
2011 - 7	
2012 - 8	Contraction of the second seco
2013 - 7	
2014 - 7	
2015 - 7	
2016 - 6	
2017 - 7	
2018 - 10.5	
2019 - 10.5	
2020 - ?	But still dancing in the snow!

- 5 band multi-spectral sensor, R, G, B, NIR, Red Edge