



Moors for the Future Partnership







Applying new technologies & Citizen Science to Protected Areas





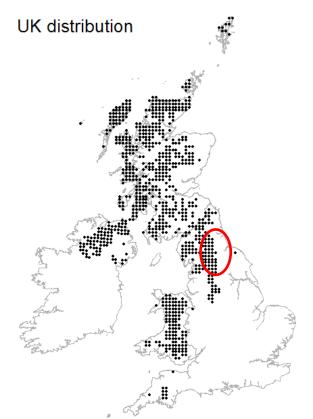
Peak District and South Pennine Moorlands

- Peak District National Park is within 1 hour's drive for 20 million people.
- Probably most visited moorlands worldwide with access across wide areas.
- 1951, first UK National Park.





- Water and mineral source comes from rainwater, mist & cloud-cover.
- Nutrient-poor and acidic, dominated by acid-loving plants, especially Sphagnum.
- 10–15 % global resource in UK.
- South Pennines represents most south-easterly





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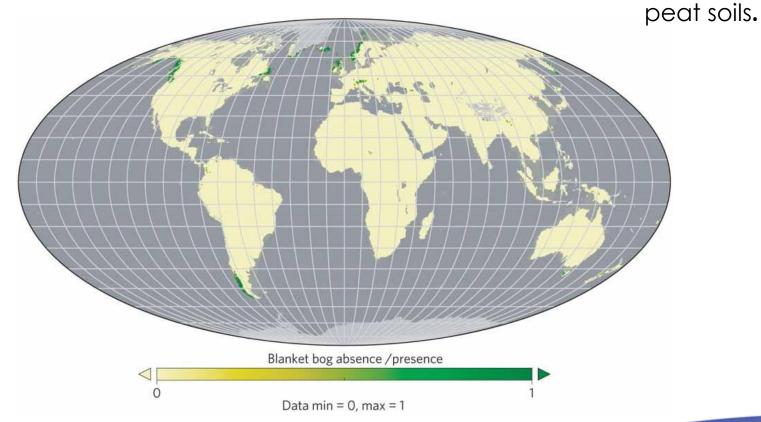






Blanket Bog

The UK is one of 20 countries that between them contain 92% of the world's



Gallego-Sala & Prentice (2013) Nature Climate Change

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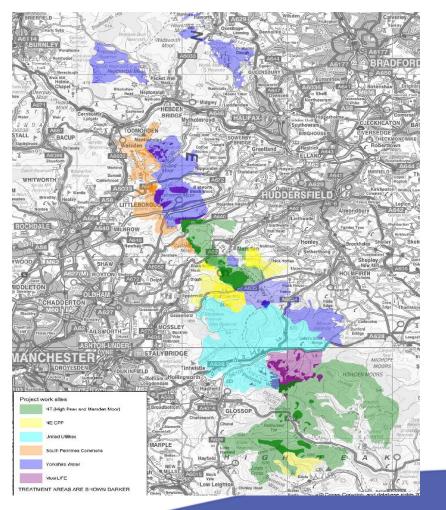


Restoration sites - Southern Pennines

- The Southern Pennines is the most degraded upland peat in the world.
- Atmospheric pollution and wildfires have created bare, eroding peat and led to an environmental catastrophe.

BIG problem needs a BIG solution

 Moors for the Future Partnership are delivering over 20 innovative



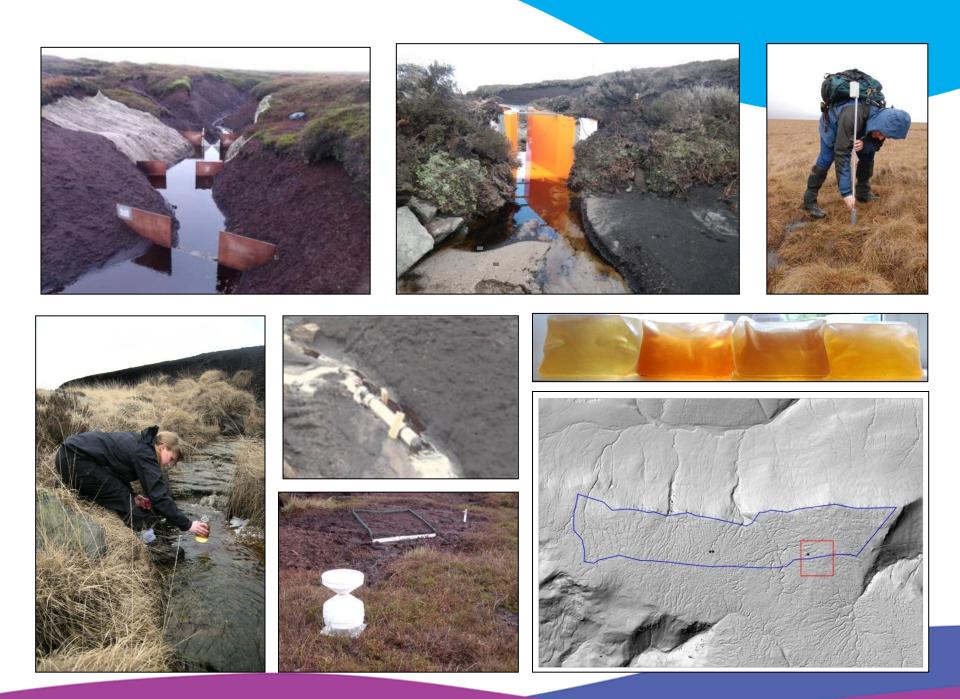




Conservation works











Conservation Works.



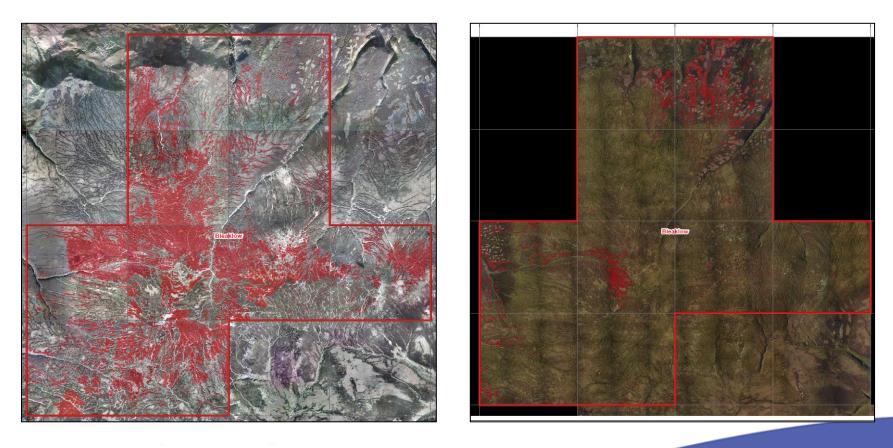
Black Hill 2011





Evidence – it works

Reducing bare peat (red) on Bleaklow plateau from 200ha (2004) to 13ha (2014).







New communications...

Citizen Science







Authority's mission statement

By inspiring millions of people together we will protect and care for our national park, for the enjoyment of all.





Citizen Science

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it is the only thing that ever has."

Margaret Mead, quoted in John M. Richardson (ed.), Making it Happen (1982).







Community Science Project (CSP)

The CSP aims to:

- Inspire people to record data over a long period of time
- Understand how moorlands and the species they support are responding to climate change.

Data collected will help to:

- Monitor changes in the physical environment
- Monitor moorland species' responses to climate change
- Inform future conservation land management.







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MoorCitizens - Opportunities to get involved

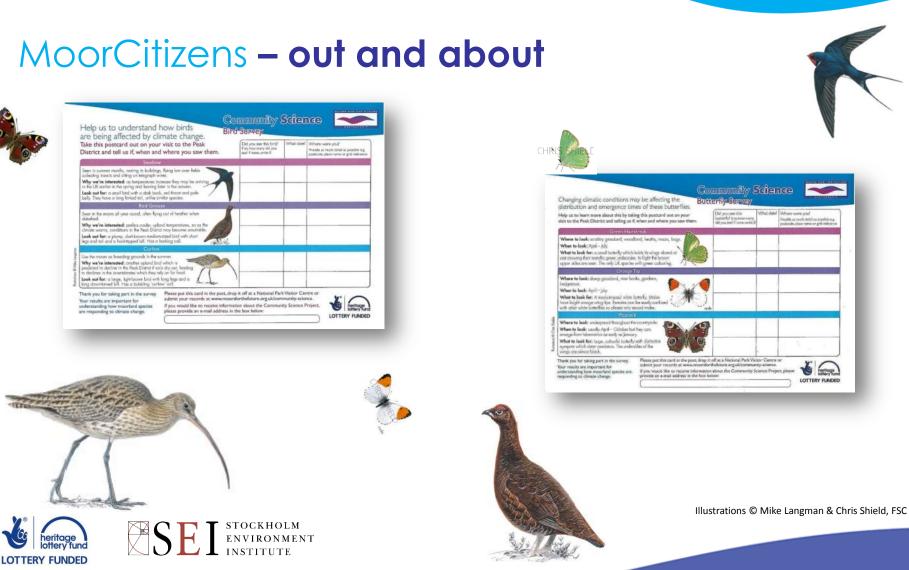
1. Casual recording

- For all moorland visitors; I spy and then iRecord.
- Opportunistic species surveys: birds & butterflies...
- 2. Targeted monitoring
 - For regular moorland visitors.
 - Repeat species surveys: bumble bees...
- 3. Environmental monitoring
 - For those who can commit more time.
 - Monthly monitoring of physical variables, e.g. water tables.











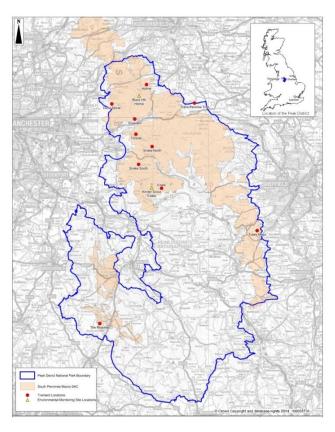


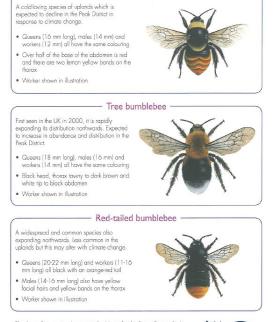
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MoorCitizens – targeted surveys





Bilberry bumblebee

Thank you for your involvement in the Moors for the Future Partnership's Community Science Policet, an important initiative to collect longterm data to help us understand how moorhands and the species they support are responding to climate change. For information about other surveys you can get involved in visit www.moorsforthefuture.org.uk/community-science



Moors for the Future Paraneship's Community Science Project is funded by the Heritage Lottery Fund, Environment Agency, Natural England, National Trust, United Utilities, Severn Trent Water and Yorkshine Water. All images (C Chris Shields 2013.







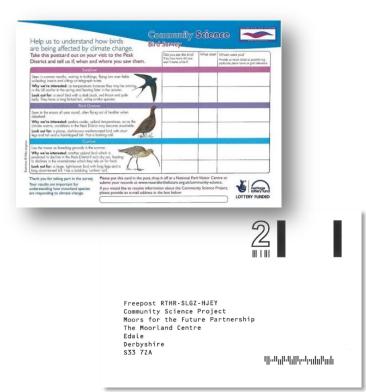


MoorCitizens – data recording

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iRecord (www.brc.ac.uk/irecord)

- Records passed on to Biological Records Centre.
- Records verified by volunteers.





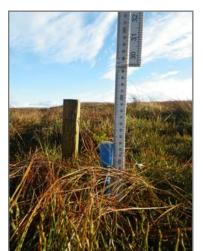




MoorCitizens – environmental monitoring











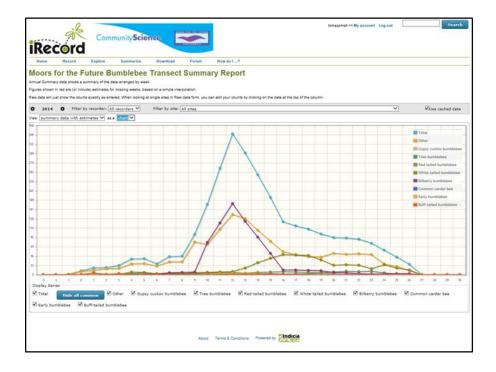


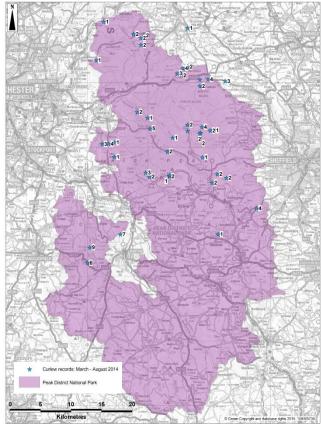






MoorCitizens – recording changes over time









MoorCitizens – volunteer comments

"I have not volunteered before at all. I just hadn't even thought this kind of *opportunity existed.*" Yvonne & Frank

"I feel *confident* now that I can go out and *do the transect myself* and identify bees." Vicky

"I feel like I want to give something back...I owe the environment a survey or two... *It put a smile on my face that no amount of money could.*" Swati











Thank You

Facebook.com/MoorCitizens Twitter.com/MoorCitizens Instagram: MoorCitizens www.moorsforthefuture.org.uk









Environment Agency

