

Identifying NFM Opportunities in the Upper Rother Catchment

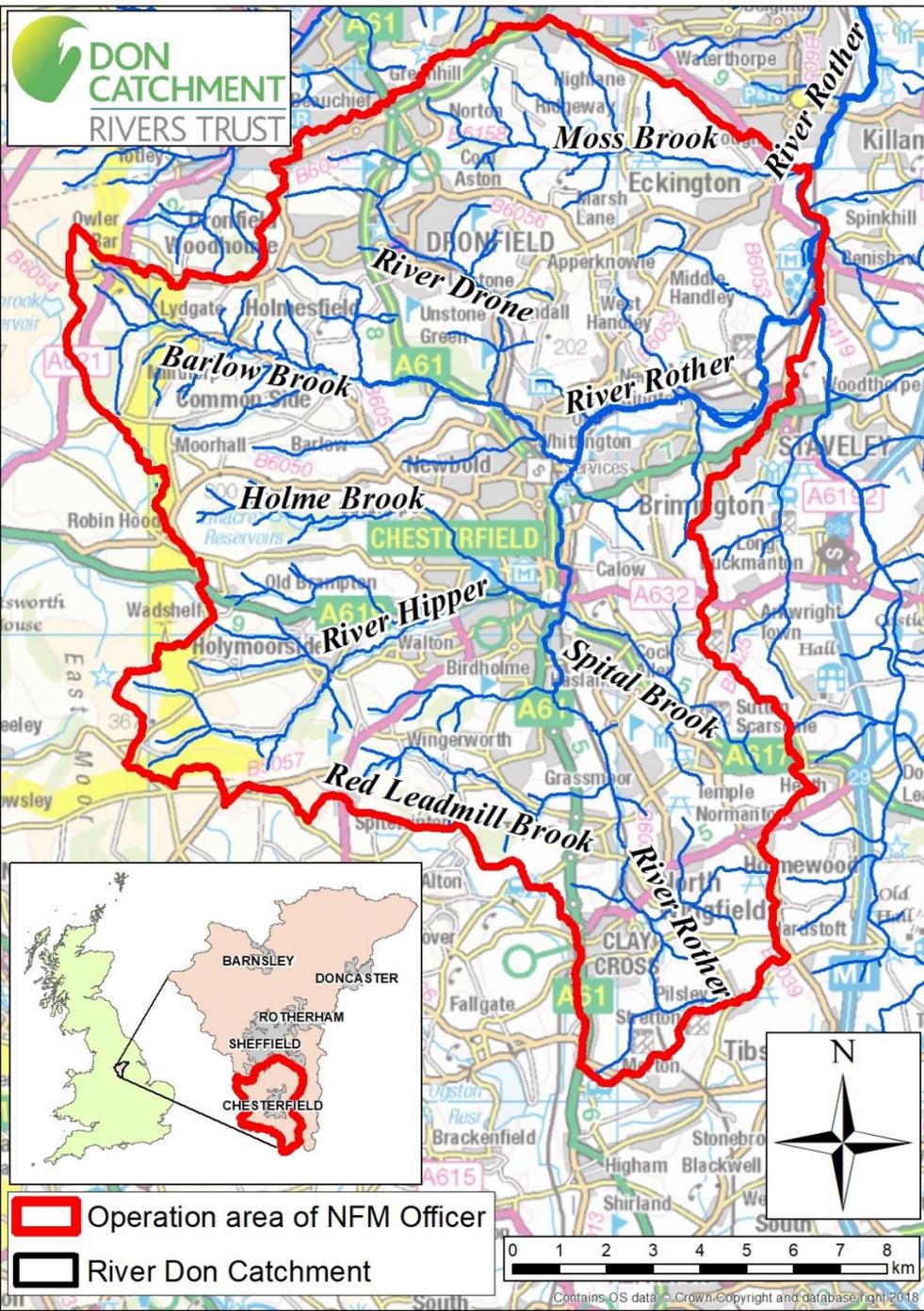
Debbie Coldwell, DCRT





Upper Rother Catchment

- Southeast subcatchment of the Don Catchment
- Major flood events – 2007, 2019, 2023



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'Catastrophic' Storm Babet wreaks havoc across UK

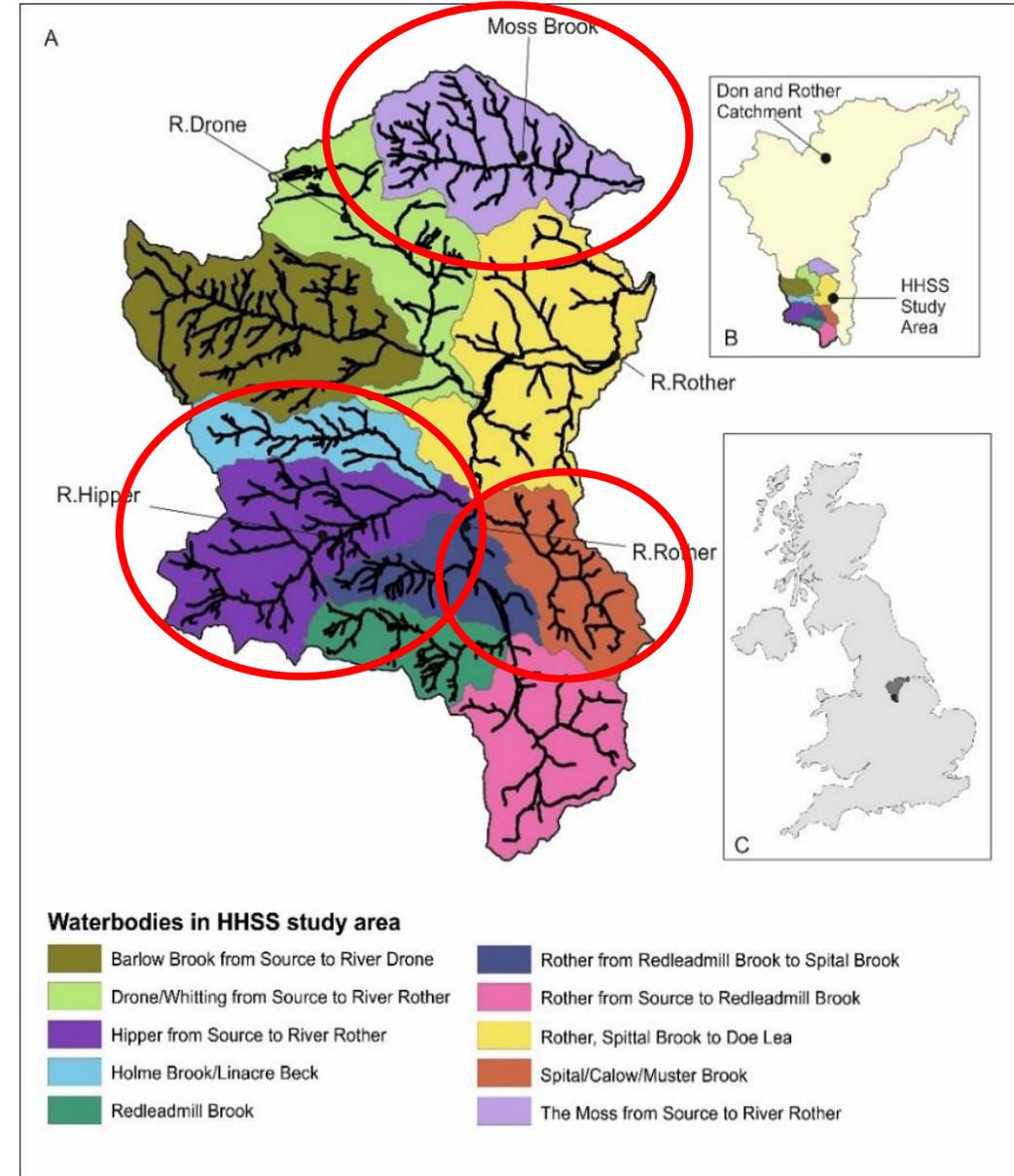
iCASP Project Aims

- Identify priority areas for NFM delivery
- Improve understanding of most effective NFM measures
- Allow DCRT to take a strategic approach to NFM



NFM opportunities in the Upper Rother

- SD-TOPMODEL
 - Rainfall-runoff model
 - Elevation, land cover and rainfall/runoff to model flow
- 3 sub-catchments: Moss Brook, River Hipper and Spital Brook
- 10% increase of:
 - soil permeability
 - water storage
 - surface roughness
- Impact at catchment and subcatchment scales on
 - Flow peaks
 - Flow volumes
 - Time to peak



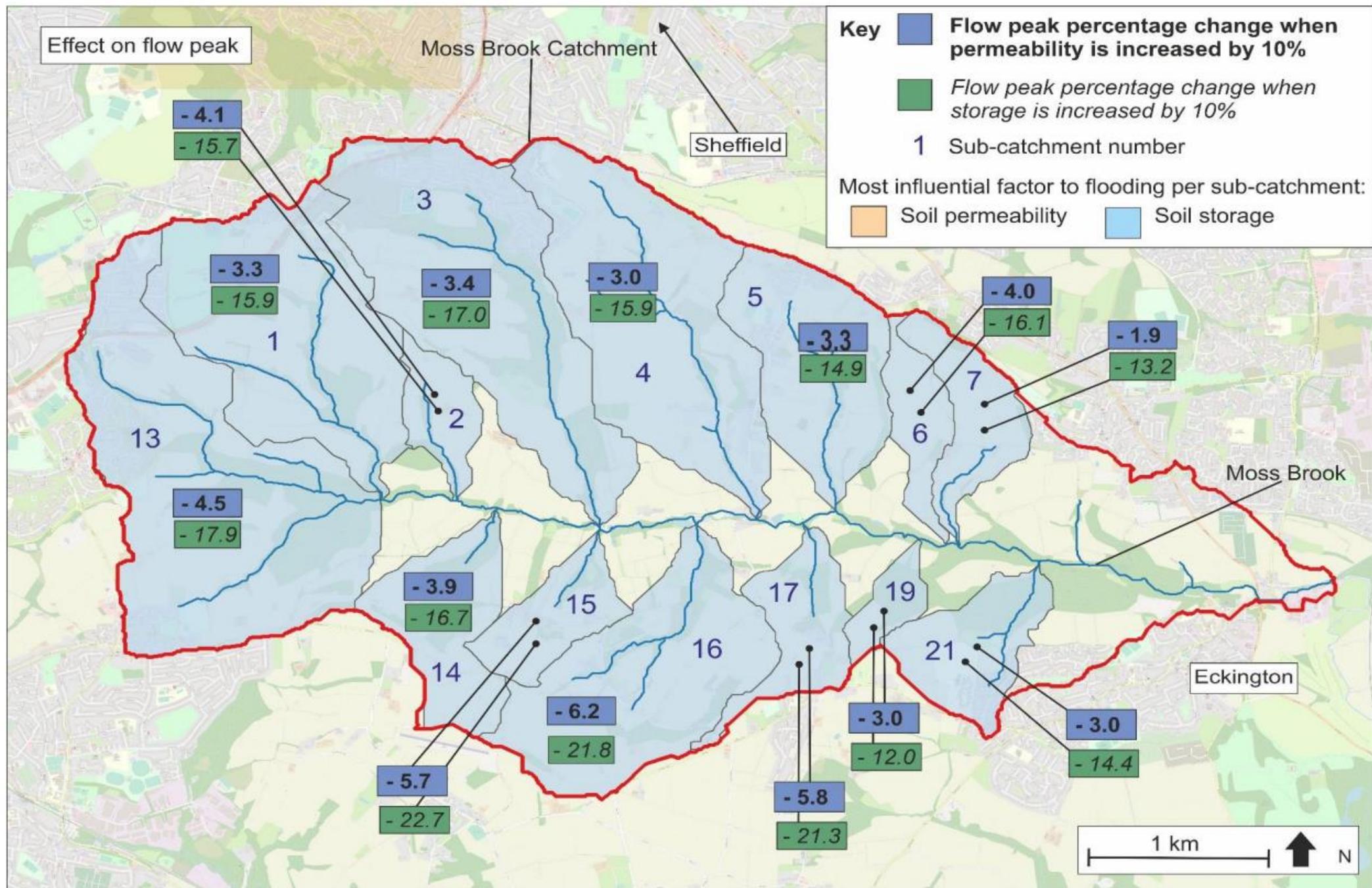


Figure 2: Map showing mean impact (% change) of changing permeability and storage by 10% on flow peaks.

Next Steps

- Expand on existing schemes
- Deliver strategic, catchment wide NFM
- Currently applying for funding





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[@DonCatchmentRT](https://twitter.com/DonCatchmentRT)

[@YorkshireiCASP](https://twitter.com/YorkshireiCASP)

More about this project, including final reports:

[iCASP website - Upper Rother project](#)

Working in partnership to deliver a sustainable future for the Skell Valley

Nabil Abbas, Project Manager



SKELL VALLEY PROJECT

Co-led by



National Trust



Nidderdale
Area of Outstanding Natural Beauty



Thanks to National Lottery Players



SKELL VALLEY PROJECT

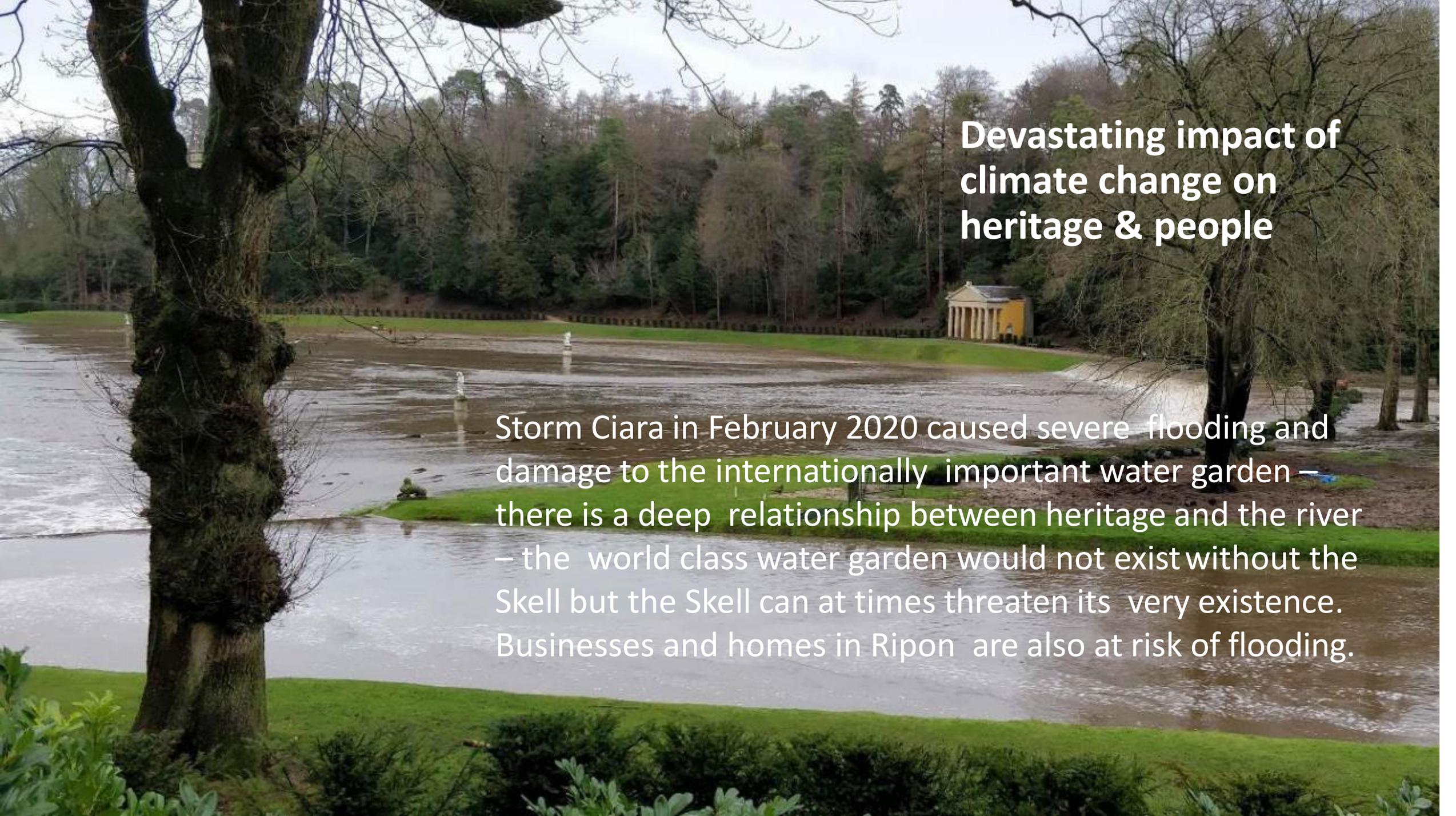
Co-led by



- NT and Nidderdale AONB lead a partnership of 16 organisations
- 4-year project
- £2.5 million funding
- 15 separate projects
- 4 project staff
- Many volunteers

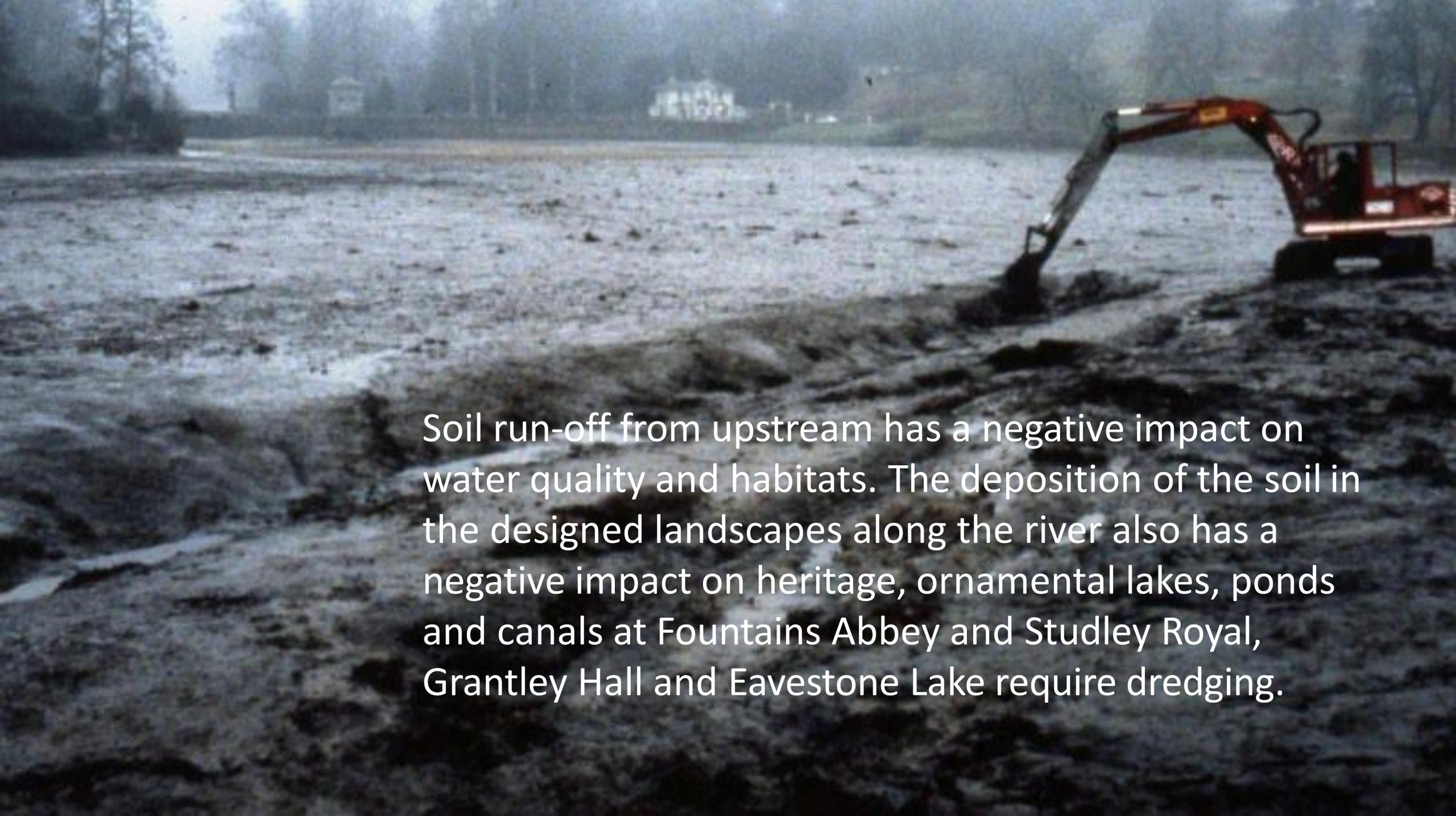




A photograph showing a flooded water garden. In the foreground, a large, dark tree trunk is on the left. The water is murky and brown, covering a large area of the garden. In the background, a small, yellow, classical-style building with columns is visible on a grassy bank. The sky is overcast and grey.

Devastating impact of climate change on heritage & people

Storm Ciara in February 2020 caused severe flooding and damage to the internationally important water garden – there is a deep relationship between heritage and the river – the world class water garden would not exist without the Skell but the Skell can at times threaten its very existence. Businesses and homes in Ripon are also at risk of flooding.



Soil run-off from upstream has a negative impact on water quality and habitats. The deposition of the soil in the designed landscapes along the river also has a negative impact on heritage, ornamental lakes, ponds and canals at Fountains Abbey and Studley Royal, Grantley Hall and Eavestone Lake require dredging.

Project Objectives

- Landscape is resilient
- Nature thrives
- Heritage is celebrated
- People are empowered



Skell Valley Project Team



Working together



A straightened channel...

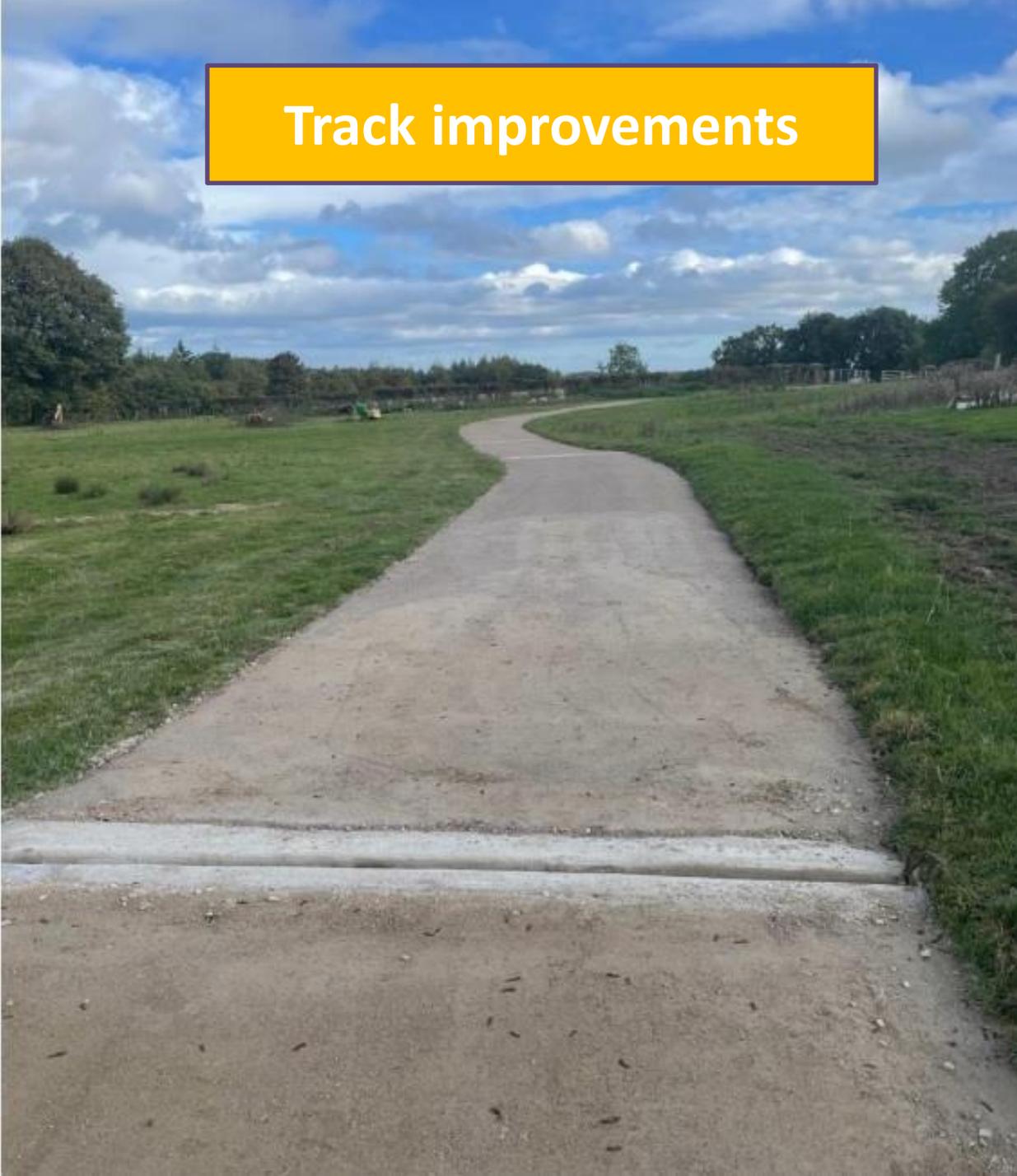
A natural, meandering river...



Protecting watercourses



Track improvements



New ponds



Leaky dams – slowing the flow



Hedgerow planting & restoration



Woodland Management & Restoration



NFM monitoring/innovation

- ICASP river flow & sediment monitoring
- NFM Payment by Results scheme
- Private Finance – working with North Yorks LEP & ‘Local Investment in Natural Capital’ project
- YDRT Watery Wildlife Project



Habitat restoration: Hell Wath



Hug An Ancient Tree



Researching & restoring heritage



Partnership working

Working alongside partners to engage people with the project in different ways:

1. Nature on Your Doorstep
2. Digging Deep in the Archives
3. Power of 10 project



1. Nature on Your Doorstep

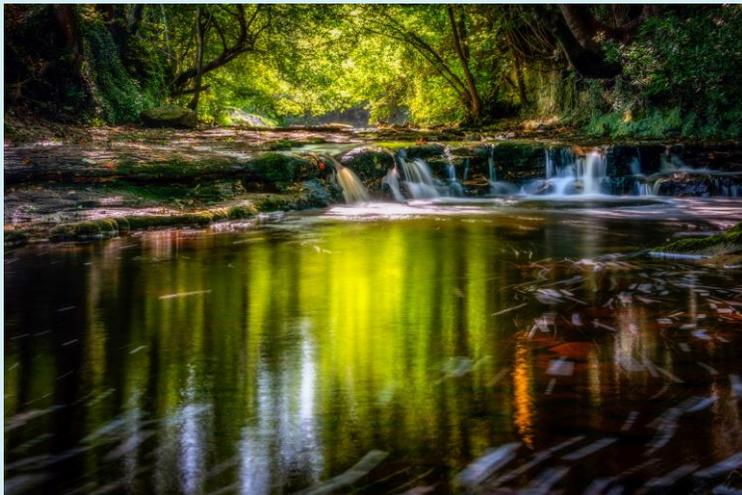
Skell Valley Project team are supporting local groups to improve public greenspaces:

- Workhouse Museum
- Ripon Walled Garden
- Ripon YMCA
- Picking Gill nature reserve
- Ripon Temple Gardens
- Hell Wath LNR



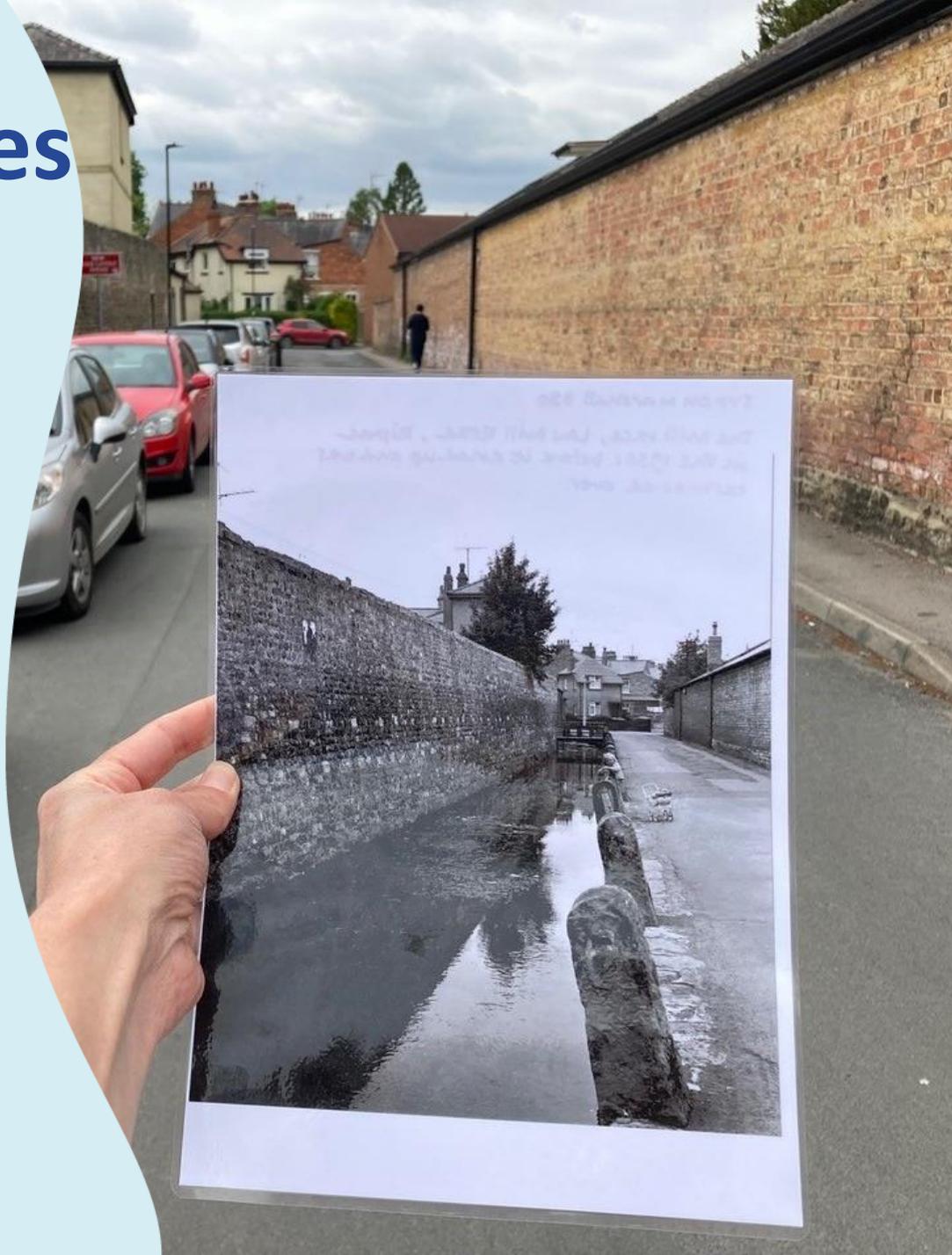
Photo Exhibition

- Competition for public run with Photo Soc.
- Outdoor display at Ripon Workhouse Museum
- Oct-Dec 2023
- Pop-ups in 2024



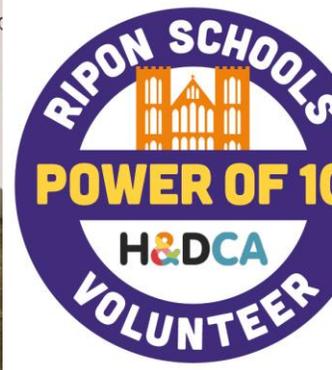
2. Digging Deep in the Archives

- **West Yorkshire Archive Service** are delivery partner
- 70 remote volunteers gave over 780 hours of their time to transcribe 735 docs
- Over 216,500 words have been added to archive descriptions in the catalogue
- 7 oral history volunteers have recorded 12 interviews so far
- 4 pop-up exhibitions, community reminiscence day held in local community
- 2 study weeks held in the archive
- Research will feed into interpretation for new walking trails



3. Volunteering City of Ripon

- Volunteering Development Officer employed for 18 months with SVP funding to support volunteering in Ripon
- Survey of vol/com groups identified need for youth volunteering
- ‘Power of 10’ scheme developed
- Developed links with Ripon BID, Library, YMCA, Boroughbridge Lions, local schools, etc
- Young people have given over 1650 hours of volunteer time
- Harry achieved first 100 hours: named Ripon young volunteer of the year



Volunteering City of Ripon

- Young people have given over 1650 hours of volunteer time
- Online training platform provided to 13 organisations, 80+ licences issued
- **HADCA have extended post until Dec 2023 & are seeking additional funding**



Publicity & media



News



In August 2022, the [UK National Commission for UNESCO](#) in partnership with the GREAT Campaign and UK Delegation to UNESCO, visited the World Heritage Site, owned and operated by [the National Trust](#), to see the Skell Valley project in action.

This case study forms part of a new report by the UK and Canadian Commission for UNESCO, [UNESCO sites for sustainable development: realizing the potential of UNESCO designated sites to advance Agenda 2030](#).

 [Watch the video](#)



