

# The severing

### As envisioned, the line

HS2 is England's biggest infrastructure project in modern times. If it goes ahead we believe it should be England's biggest nature restoration project too. But the current proposals are flawed, and we cannot support them

Our focus is on the environmental impact of HS2 but independent analyses of Phase 1 (London – Birmingham) indicate that the direct economic benefits of HS2 remain weak. It cuts through communities and mainly benefits people only near the few stations on the route. It also puts massive constraints on large-scale plans to restore and reconnect habitats in areas where the line will run.

HS2 has produced an environmental statement for Phase 1 but it doesn't identify or account for all the environmental damage the project will cause.

effect...

### will cut England in half

Much more must be done to avoid damaging special places for wildlife before mitigation measures and compensation are considered. The Environmental Audit Select Committee's report on HS2 is also critical of its environmental impact and the current lack of vision for mitigation. As it stands, thousands of hectares important to wildlife and communities will be lost forever, and ecosystems fragmented. But, if it does go ahead, and with a much reduced environmental impact, HS2 could be a means to put nature (and people's access to it) back into areas of lowland England where it has been lost – to raise our environmental baseline following decades of decline.



As planned, HS2 is a 330-mile barrier across the country

## Whether for people or wildlife, the divide is

### Marjorie Fox, volunteer warden at Broadwater Lake reserve, Herts

"The Colne Valley is a rare tranquil spot, precious to residents, bird lovers, cyclists and walkers. It is irreplaceable.'

### Sonia Liff, resident, Leicestershire

"I regularly walk in areas where HS2 is proposed to be sited. If it is built it will cut off many existing routes for walkers as well as wildlife."

### **Professor Mel Jones, local landscape historian, Sheffield**

"Smithy Wood is irreplaceable because it is ancient and part of our local heritage."

#### **Bechstein's bat**

One of the UK's rarest mammals, but the proposed HS2 line cuts through the middle of Bernwood Forest in Buckinghamshire, where it is found.

### Small blue butterfly

Northamptonshire's only population of this nationally scarce species is at Helmdon Disused Railway SSSI. Its habitat will be destroyed by HS2.

#### Red deer

Red deer and other deer species are present in Staffordshire but no assessment of populations or possible crossing routes have been made. The effect of severance has not been fully assessed.

# the same

Our local green space



# ...and how to transform it

### By restoring nature along the route – on a landscape scale

If HS2 goes ahead, then as a flagship infrastructure project it must demonstrate an exemplary regard for the environment.

This is not just to prevent further declines in species and habitats. Working with nature also makes social and economic sense. Benefits include happier, healthier people. reduced flood risk, returning wildlife and more resilient towns and countryside.

New wetland at the Great Fen in

Cambridgeshire, next to the East

Coast main line. This large-scale

over 3000ha for people and wildlife

partnership project is restoring

Our vision is a 1km ribbon of wildlife-rich landscape either side of the line - planned. established and run by a partnership of residents, landowners and local and expert groups. Recreated and naturally regenerated habitats would buffer, link and provide 'stepping stones' between wildlife sites. In time there would be new meadows. woodlands and wetland expanses to

explore, alongside existing farmland, communities and housing. Green bridges pathways and cycle tracks ('Low Speed 2') would reconnect communities cut through by the proposed line. This would spread the benefits of HS2 to many along the route, rather than just those near its few stations. Funding for ongoing maintenance would be part of the HS2 legacy.

### Why restore nature?

Seventy years of post-war development have given us a modern landscape dominated by built structures and intensive farming. Seminatural areas come a poor third.

For 15 years organisations such as The Wildlife Trusts, the National Trust and RSPB have been working at a landscape level, to put back wildlife that has been lost.

The Wildlife Trusts have 130+ Living Landscape projects across the UK's cities, towns and countryside. Each targets an area for ecological restoration - perhaps a river catchment, cluster of ancient woodlands or urban greenspace. Working with local people and landowners, often over a time frame of decades, our Living Landscapes restore what is unique and distinct about the area's nature, to benefit wildlife and people.

### Where we live



# Restoring nature makes financial and social sense

Our plan delivers much-needed ecosystem services to an already fragmented landscape

# Healthier, happier people

Research shows exercise in green surroundings has lifelong benefits to health and wellbeing, saving on future healthcare costs

# Sustainable transport

Footpaths and cycleways link people to each other and to their local natural environment. HS2 can contribute to the National Cycle Network

# Flood management

Well-sited wetlands and grasslands function as natural sponges, keeping flood water away from homes and businesses

# Cooler cities

Ecological restoration is for cities too. It lowers pollution and reduces the 'heat sink' effect of hot summers

# Returning wildlife

Plants and animals driven to the margins can become abundant once more

# **Carbon** storage

New grasslands, woodlands and wetlands can lock up atmospheric carbon for very long periods

# Access to nature

Playing in seminatural green space is essential for healthy development in children

# Resilient habitats

Bigger, betterconnected woods and wetlands are more able to withstand the impact of climate change

# What it will take to make this happen

Less than 1% of the HS2 budget – and a firm commitment to the environment



# It's time to restore nature

After all, it's everybody's life support system

If HS2 goes ahead, society has a choice: to keep on lowering the environmental baseline – or finally start to improve it. We believe our vision is a way of maximising the opportunity to restore nature, using local experience and knowledge to put the right connections in the right place. Crucially, our research shows that investing in green infrastructure, and habitat restoration and creation as part of HS2, is affordable and cost-effective.

We are throwing out this challenge to HS2 as a positive contribution to the debate around the project's environmental impact. Some habitats can never be recreated – but the least the HS2 project can do is to enhance the habitat network so that plants, animals and people can keep up with the pace of change it imposes on the landscape.



"Far more species are declining than increasing in the UK, including many of our most treasured species. The causes are

varied, but most are ultimately due to the way we are using our land and seas and their natural resources, often with little regard for the wildlife with which we share them."

Sir David Attenborough, President Emeritus of The Wildlife Trusts, introducing the State of Nature Report, 2013



# Act now Put nature at the heart of HS2

### If you are an MP, we ask that you:

- 1) Reduce the environmental impact of HS2, which at present is drastically understated.
- 2) Include environmental impact in the HS2 Select Committee's Terms of Reference.
- 3) Ensure HS2 Ltd commits to a significant net gain for nature and people's access to it not just 'no net loss'.

#### If you are a member of the public:

Visit <u>wildlifetrusts.org/HS2</u> for ideas on how to contact your MP and to download a copy of this report.

### **The Wildlife Trusts**

With more than 800,000 members, the 47 Wildlife Trusts are the largest UK voluntary organisation dedicated to conserving all the UK's habitats and species. We have a long history of working with landowners and building partnerships to create long-term benefits for wildlife and people.

#### How to find out more

Please contact us at: enquiry@ wildlifetrusts.org, 01636 677711. The Wildlife Trusts, The Kiln, Mather Road, Newark, Notts, NG24 1WT.

To read a longer reference report go to wildlifetrusts.org/hs2

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#### **About this document**

We called together conservation experts from the Wildlife Trusts along the HS2 route: London; Herts & Middlesex; Berks, Bucks and Oxon; Beds, Cambs and Northants; Warwickshire; Birmingham and the Black Country; Staffordshire; Cheshire, Lancashire; Leicestershire and Rutland, Derbyshire; Nottinghamshire; Sheffield; Yorkshire. Using their knowledge of local ecology and communities, they identified indicative habitat creation opportunities along the line.

The resulting strategic corridor ensures that HS2 helps to make up for the habitat destruction it causes, enhances ecological connectivity and gives people new access to nature.

The cost benefit analysis was carried out by researchers at Newcastle University. You can examine our methodology and indicative maps for habitat creation and restoration in the extended version of this report (see above).

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