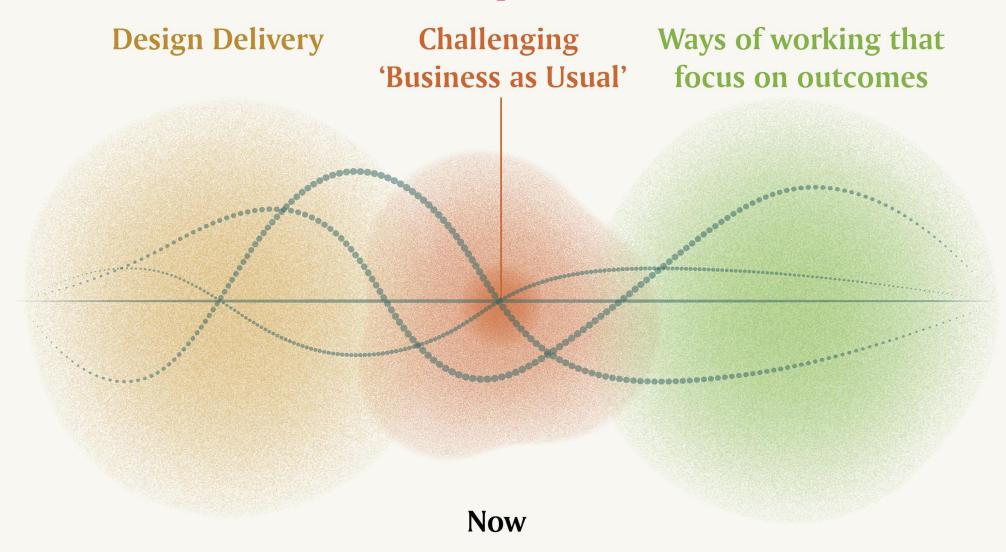
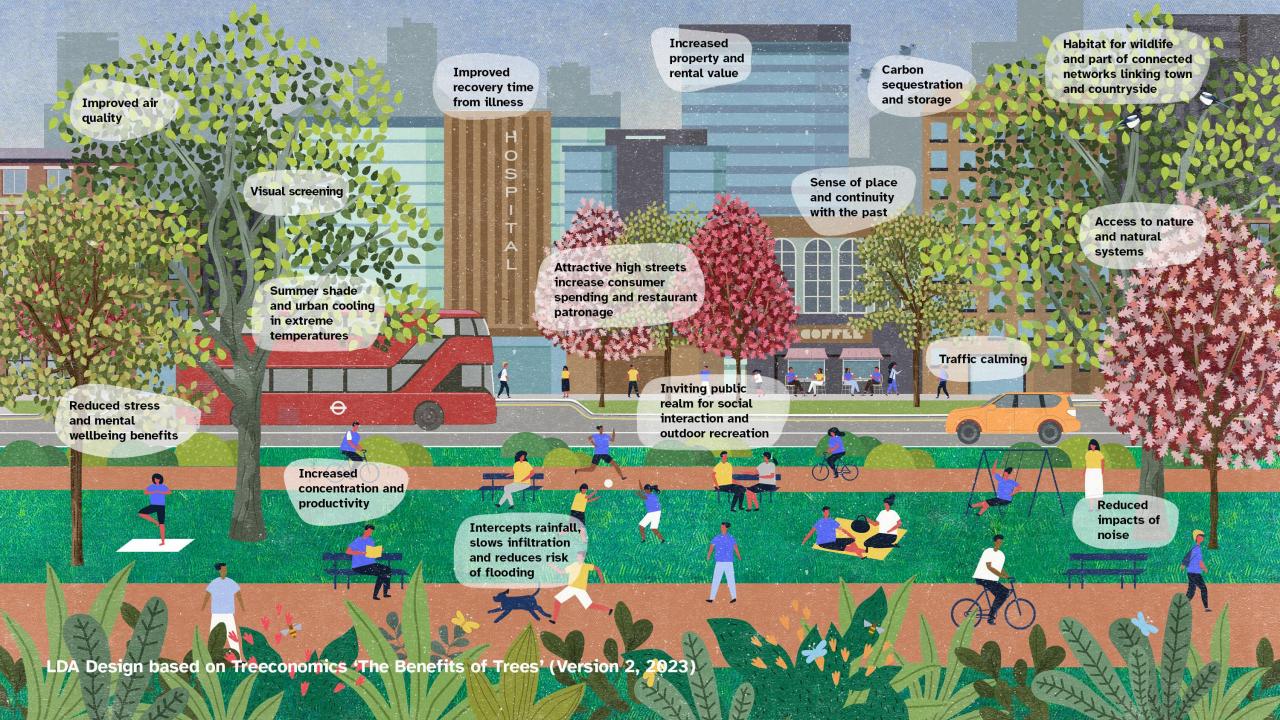


A time of rapid change

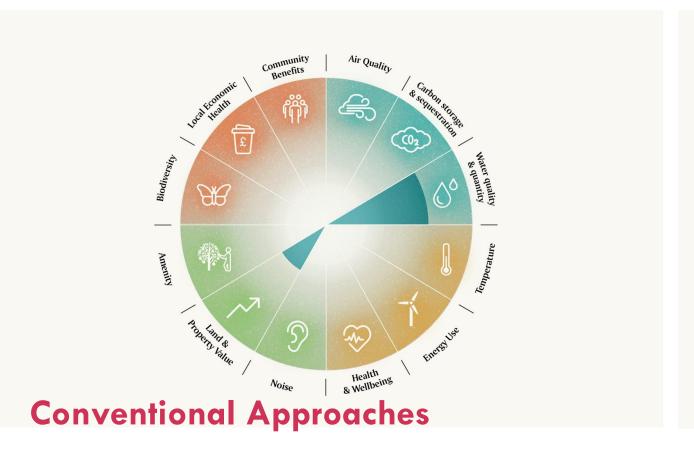


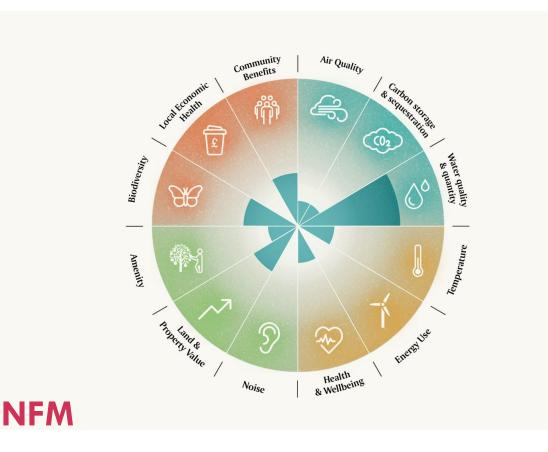






Example: Benefits of Nature Based Solutions to Natural Flood Management





Evidence built on Big Data is Essential

Example:

The Environment Agency has published a new **Working** with Natural Processes Evidence Directory updating the internationally recognised product first released in 2017.

Informed by significant scientific research including more than 700 papers, the directory summarises the latest evidence for 17 natural flood management (NFM) measures relating to river and floodplain, woodland, run-off, and coast and estuary management.

Julie Foley, Environment Agency Director of Flood Risk Strategy and National Adaptation, said:

"With climate change increasing the threats of flooding and coastal erosion, we must work together with nature to boost resilience across the country.

That's why the Environment Agency is mainstreaming the use of natural flood management alongside the use of traditional engineered defences.

Our £25 million Natural Flood Management Programme was shaped by the Working with Natural Processes Evidence Directory. Through this fund we are testing our approaches to future investment and the delivery of natural flood management".

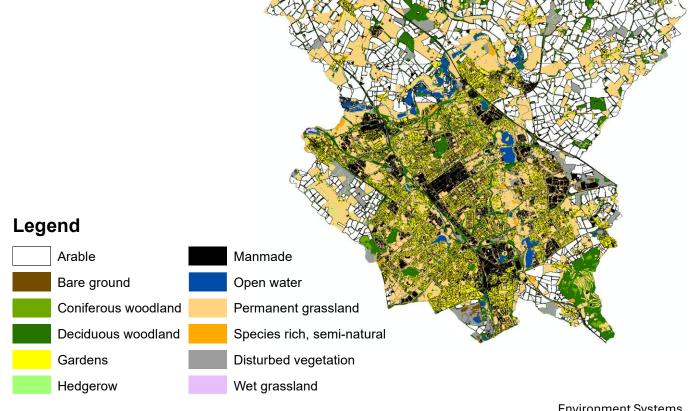
Satellite Imagery and modelling technology is used to produce the habitat map

Remote sensing / satellite and aerial imagery

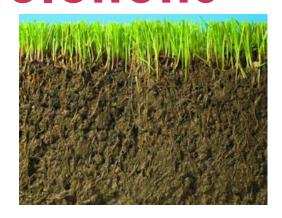
Field data and validation

Existing data sets





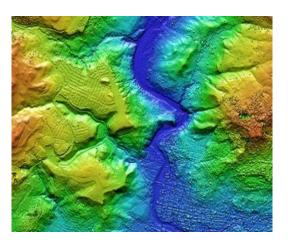
Computer modelling of natural capital assets and to optimise nature-based solutions



Soil & Geology



Management / Cultural



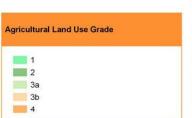
Landform & Hydrology

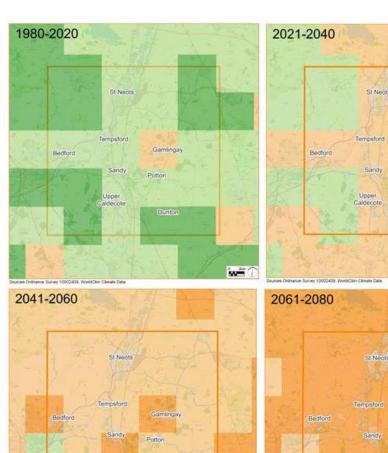


Habitat

Environment Systems

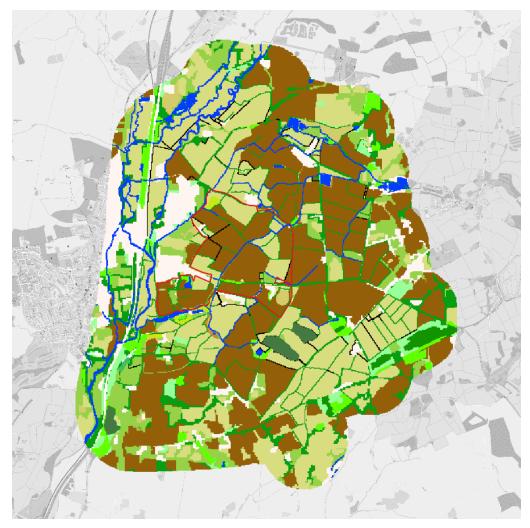
Modelling climate change scenarios to identify the potential effects, including to natural capital assets and their performance, will influence decisions in the way land is used.



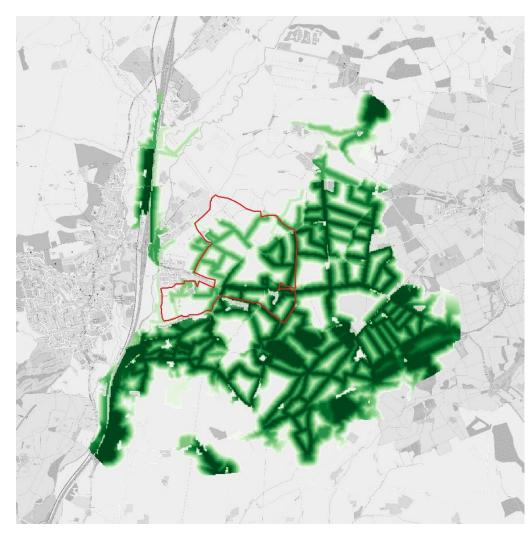


300









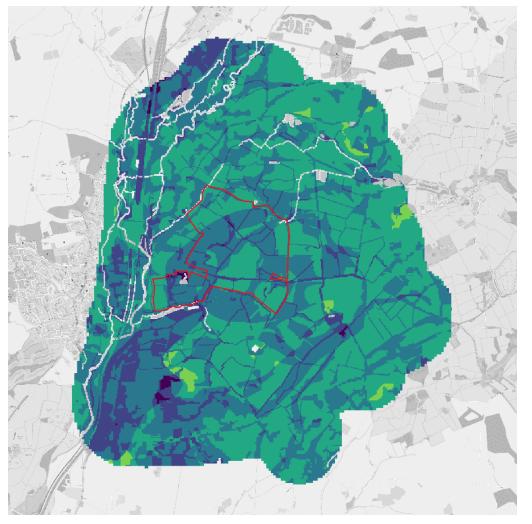
Woodland Network



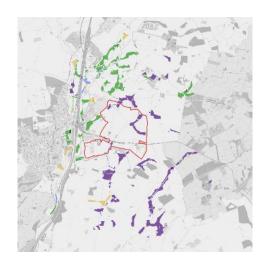
Carbon Stock



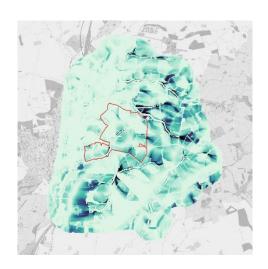
Carbon Opportunities



Natural Flood Management Stock



Natural Flood Management Opportunities



Erosion Risk

We have an opportunity right now to use advances in technology and data capture to significantly enhance our approach to placemaking, planning and design. An approach that enables us to confidently deliver 'good design' and the environmental outcomes needed to mitigate, adapt and build resilience to climate change and help nature recover.

This will go beyond the traditional mitigation of impacts and offsetting. It will enhance our mission to build and maintain beautiful and new development and infrastructure.

