



Scottish
Forestry
Coilltearachd
na h-Alba

Science and evidence needs to support policy for Scotland's net zero land use and nature commitments

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Edinburgh University Centre for
Sustainable Forests and Landscapes

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Scottish Forestry

Scottish Forestry is the Scottish Government agency responsible for
forestry policy, support and regulation

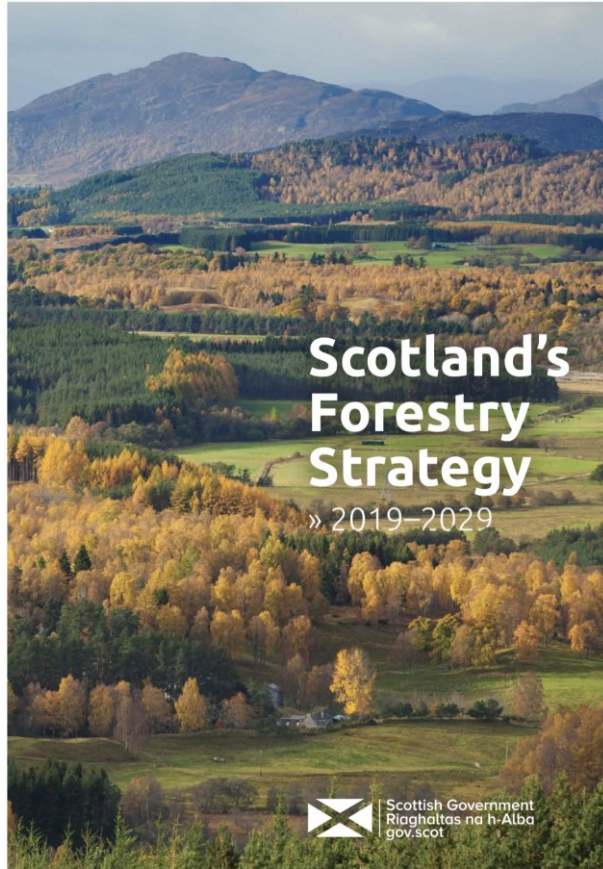
S e Coilltearachd na h-Alba a' bhuidheann-ghnìomha aig Riaghaltas
na h-Alba a tha an urra ri poileasaidh, taic agus riaghladh do choilltearachd



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Forestry in Scotland

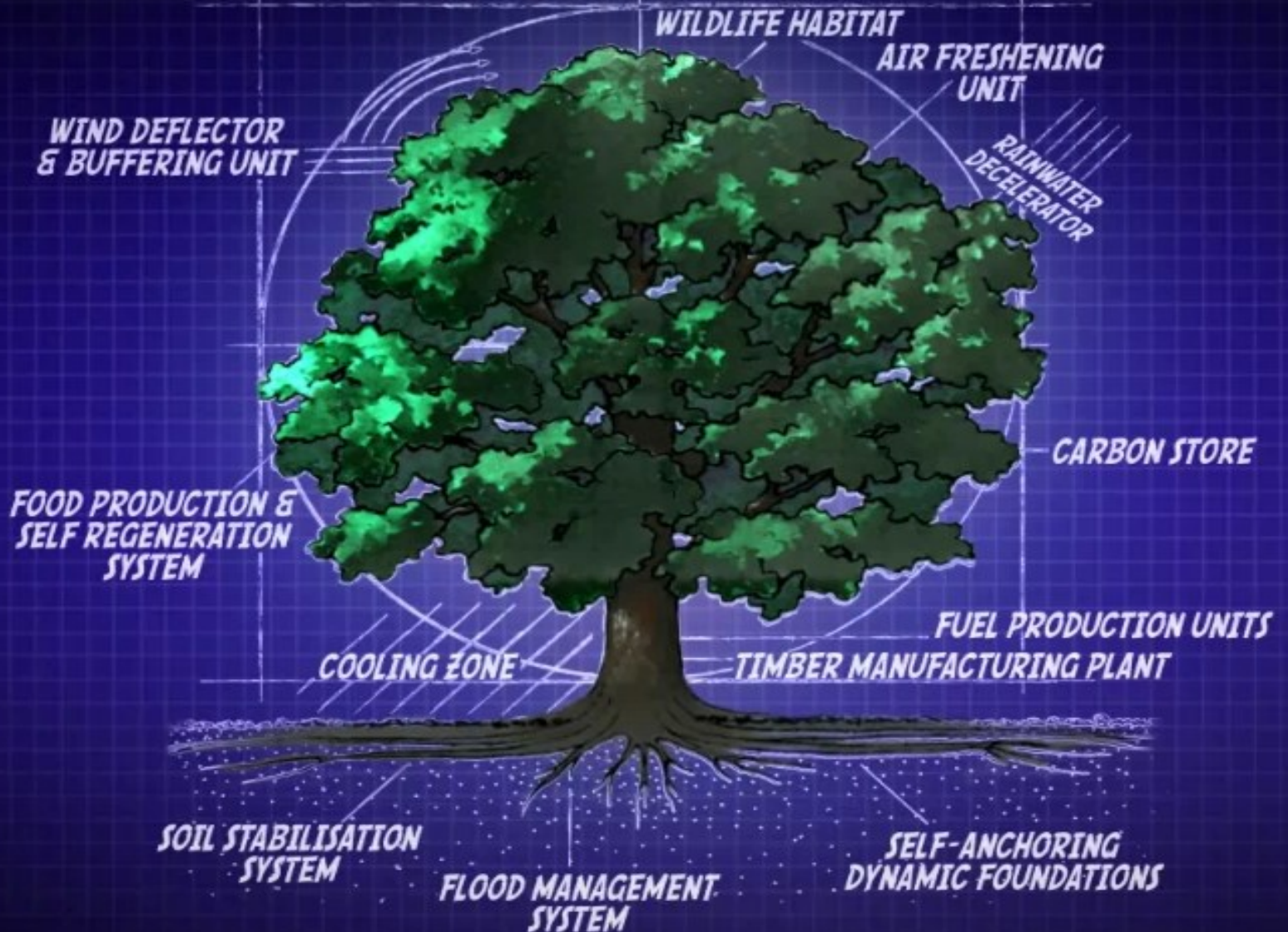


- Supports 34,000 jobs and contributes £1.1bn+ to Scotland's economy
- A net carbon sink, absorbing 7.5 million tonnes of CO₂ in 2020, c14% of Scotland's gross GHG emissions
- Woodland creation targets (set out in the SG Climate Change Plan). Scotland has been creating around 75% of all the new woodland in the UK
- Additional private finance under the Woodland Carbon Code



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“What did trees ever do for us?!”





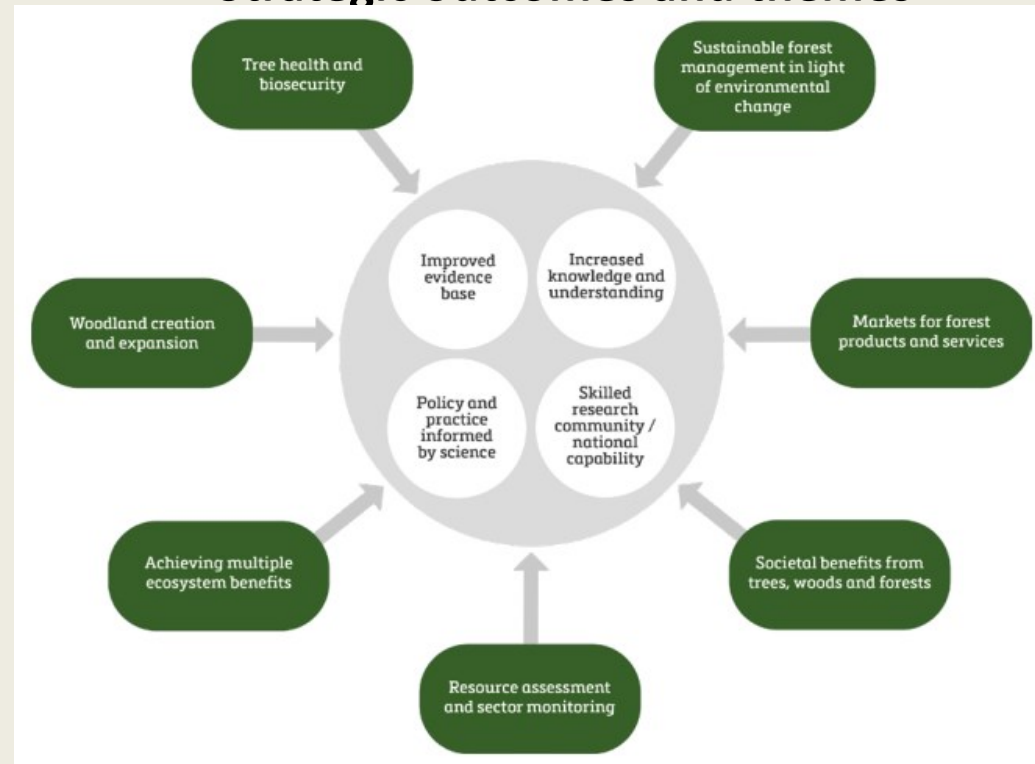
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Science and innovation strategy for forestry in Great Britain



Strategic outcomes and themes



Research impacts

Instrumental: changes to plans, decisions, behaviours, practices, actions, policies

Conceptual: changes to knowledge, awareness, attitudes, emotions

Capacity-building: changes to skills and expertise

Connectivity: changes to the number and quality of relationships and trust

Attitudes: towards knowledge being exchanged, and research impact itself

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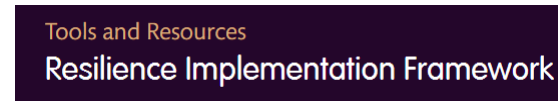
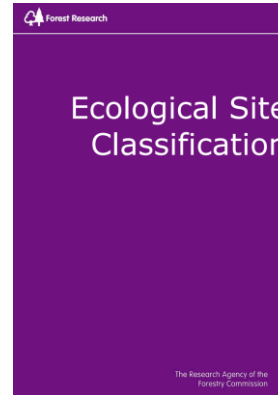
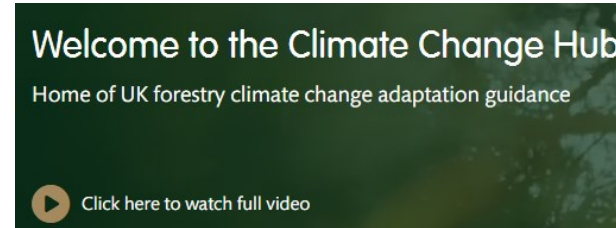
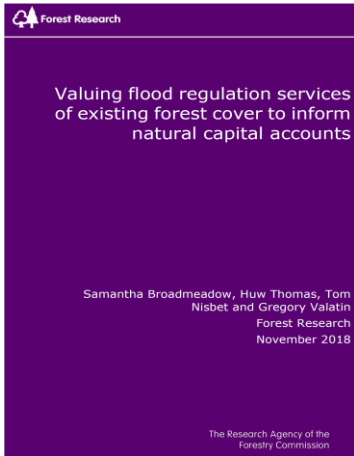
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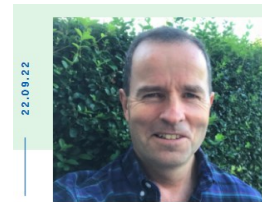
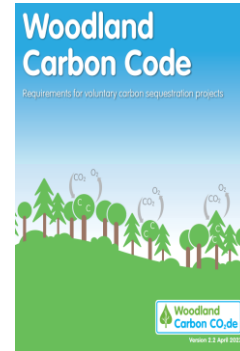
What do we need to know?

- Science – technical understanding
- Economics/social – values, behaviour



How will outcomes be delivered?

- Mechanisms
- Tools
- Engagement



Blog: Which Woodlands for carbon – A #ScotClimateWeek special

Scotland's forests and woodlands play a significant role in helping tackle climate change. Around 7.6 million tonnes of harmful CO₂ are soaked up by our forests each year. That's no mean ...

Looking forward: new technologies, geo-spatial data

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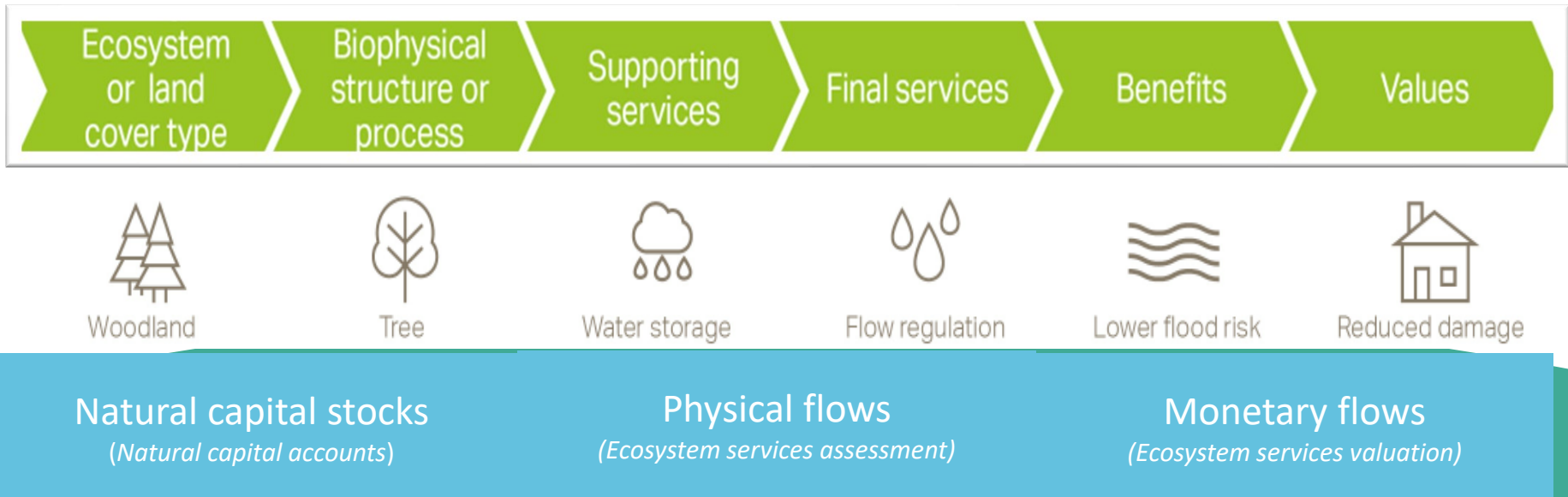


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The natural capital approach

A natural capital approach requires an evaluation of the stock of capital, the measurement of the physical flows from that stock and the valuation of the services provided from those flows.

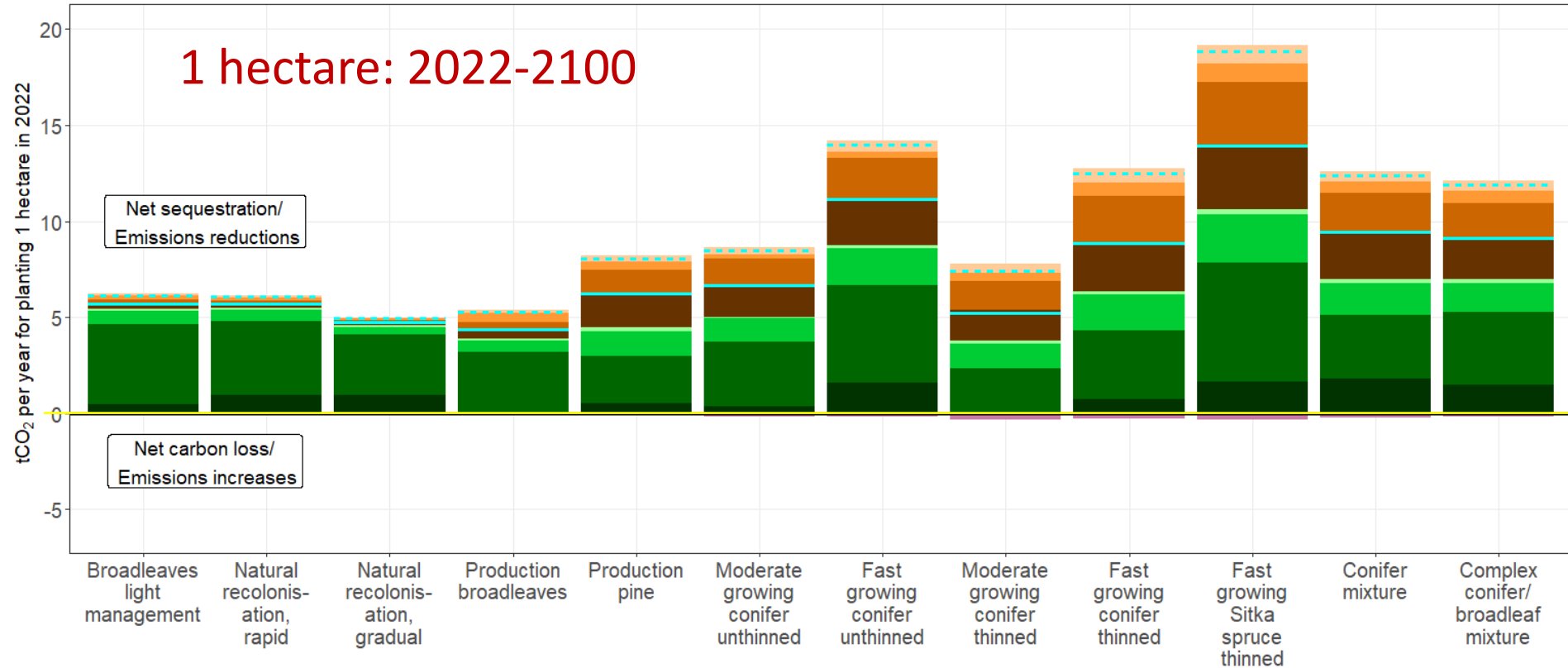




Quantifying the Sustainable Forest Carbon Cycle

— Net sequestration - - - Overall mitigation
 ■ Soil ■ Deadwood ■ Operations ■ Product displacement ■ Cascade displacement
■ Trees ■ Litter ■ Product carbon ■ Bioenergy displacement

1 hectare: 2022-2100



- Options are not “pure” (e.g. broadleaf component in coniferous woodlands); they are not interchangeable...