

Deep sea fishes and carbon capture and storage

Clive Trueman

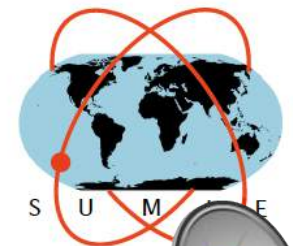
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Trophic interactions of fish communities at midwater depths enhance long-term carbon storage and benthic production on continental slopes

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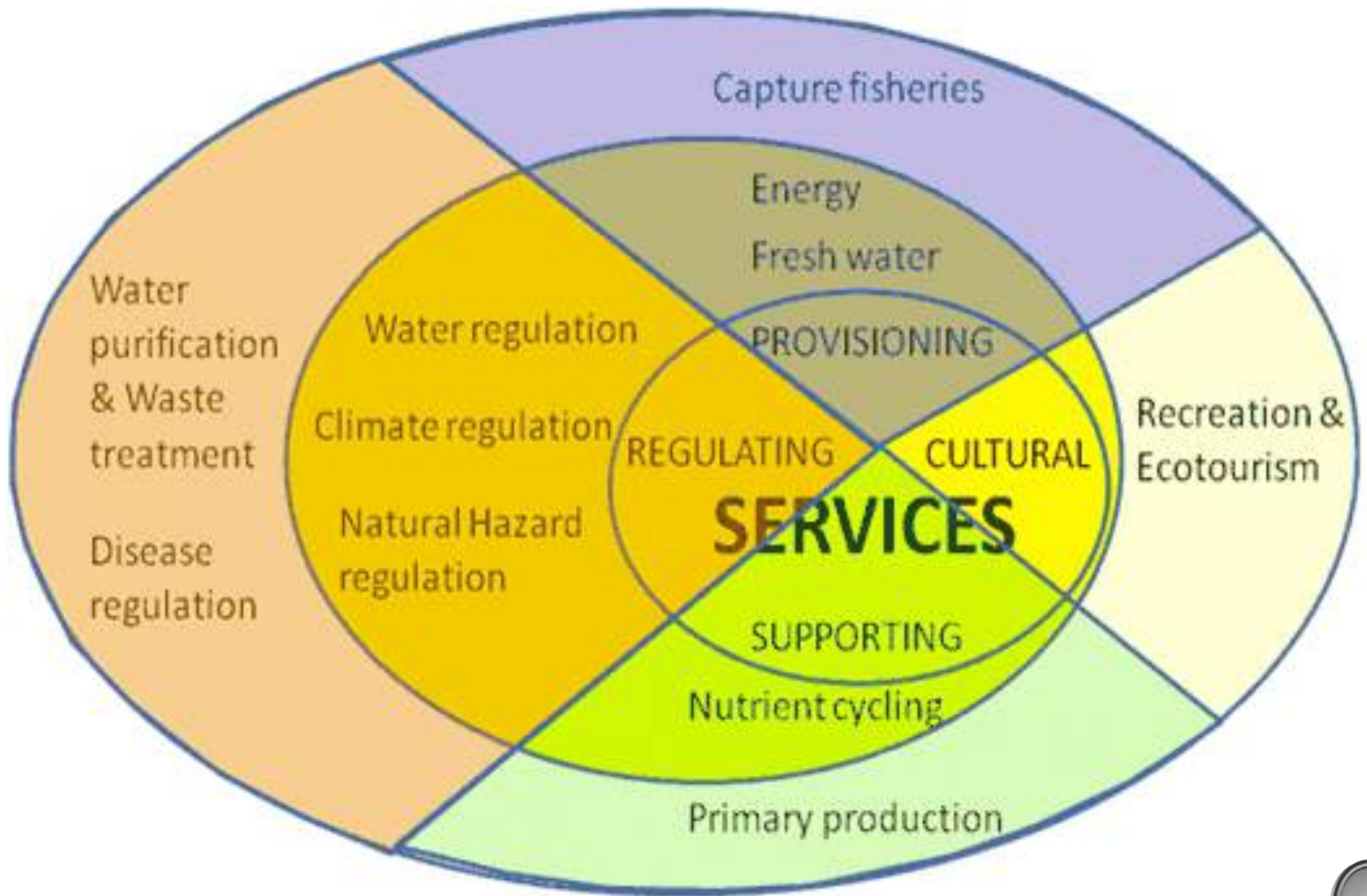
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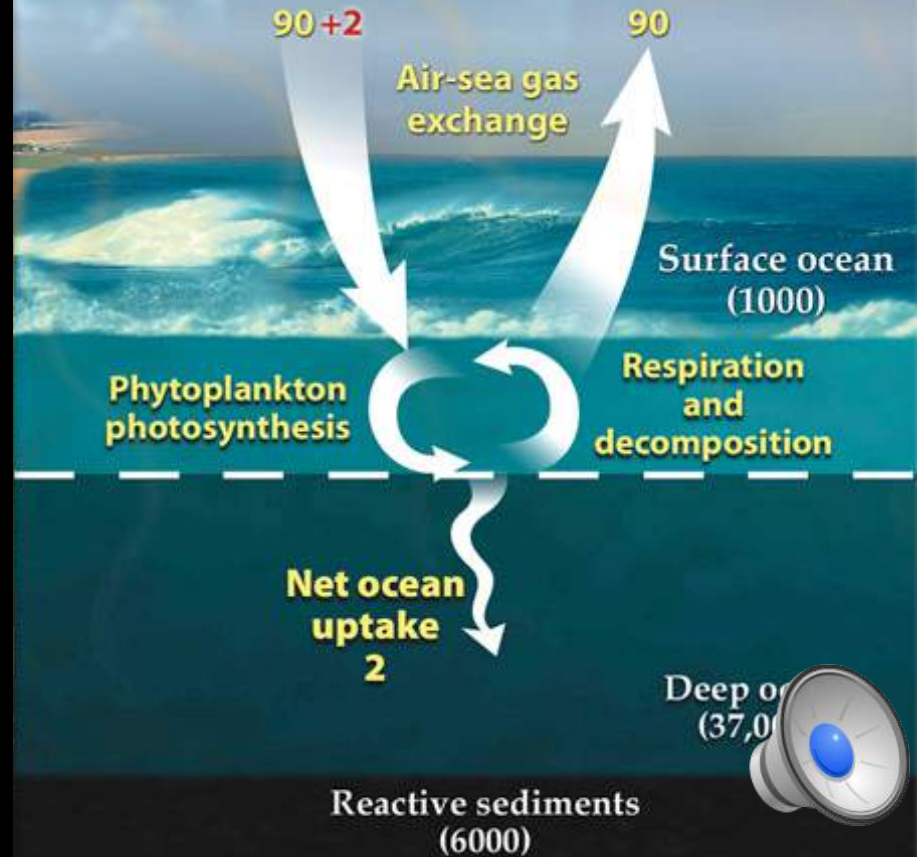


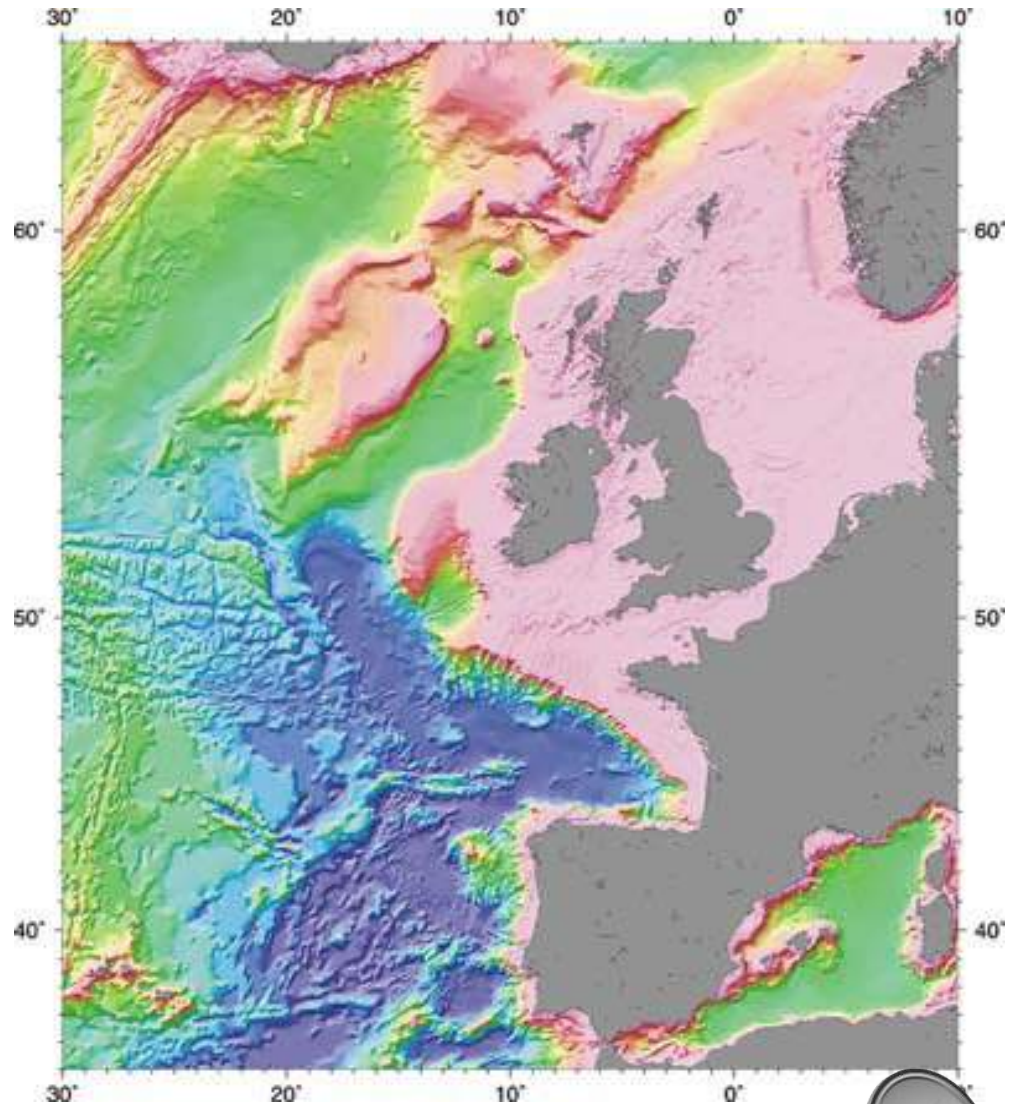


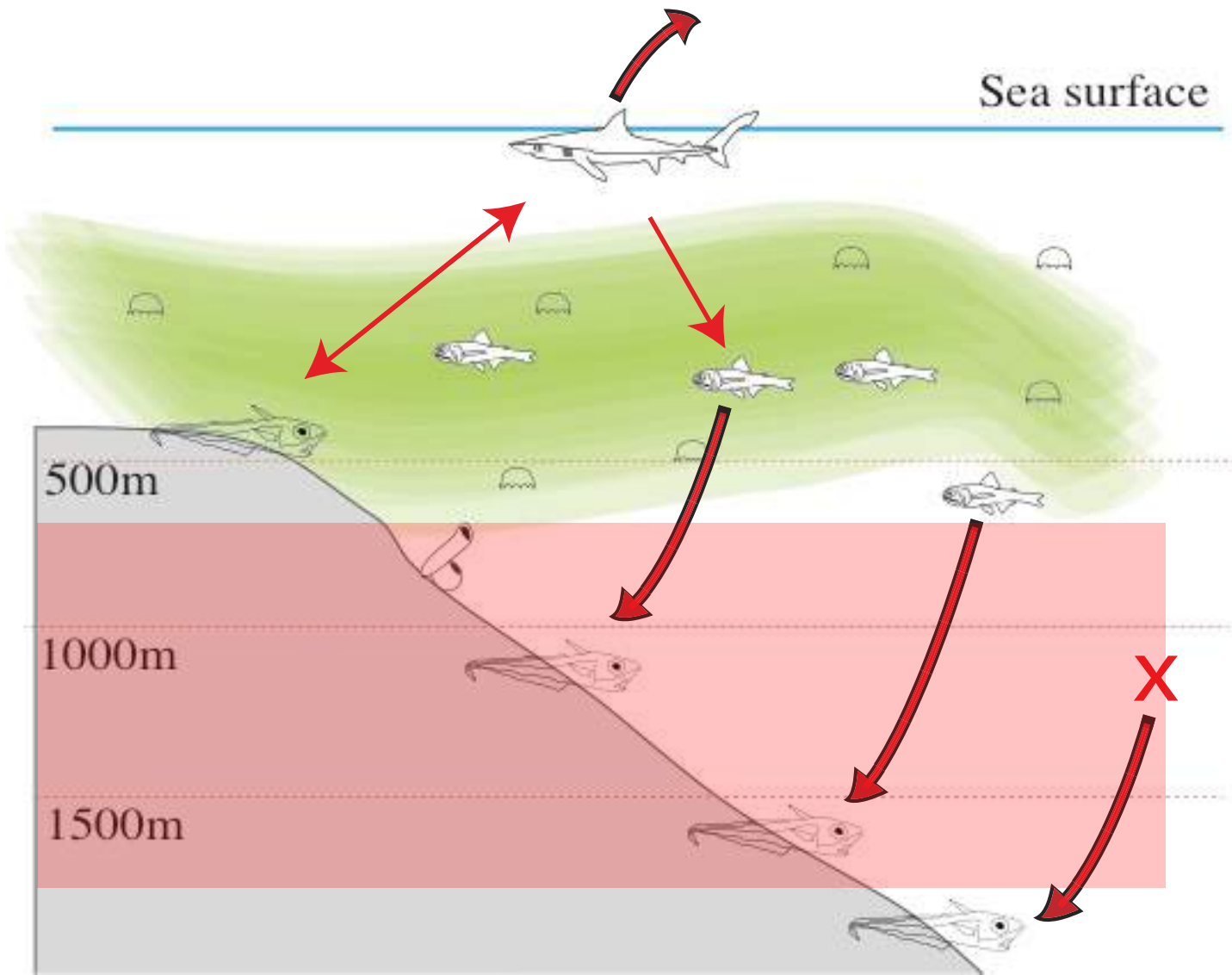


**Atmospheric
Carbon Net
Annual Increase**
4

**↑↑ GtC/y: Gigatons
of carbon/year**
*Numbers in parentheses
refer to stored carbon
pools. Red indicates
carbon from human
emissions.*







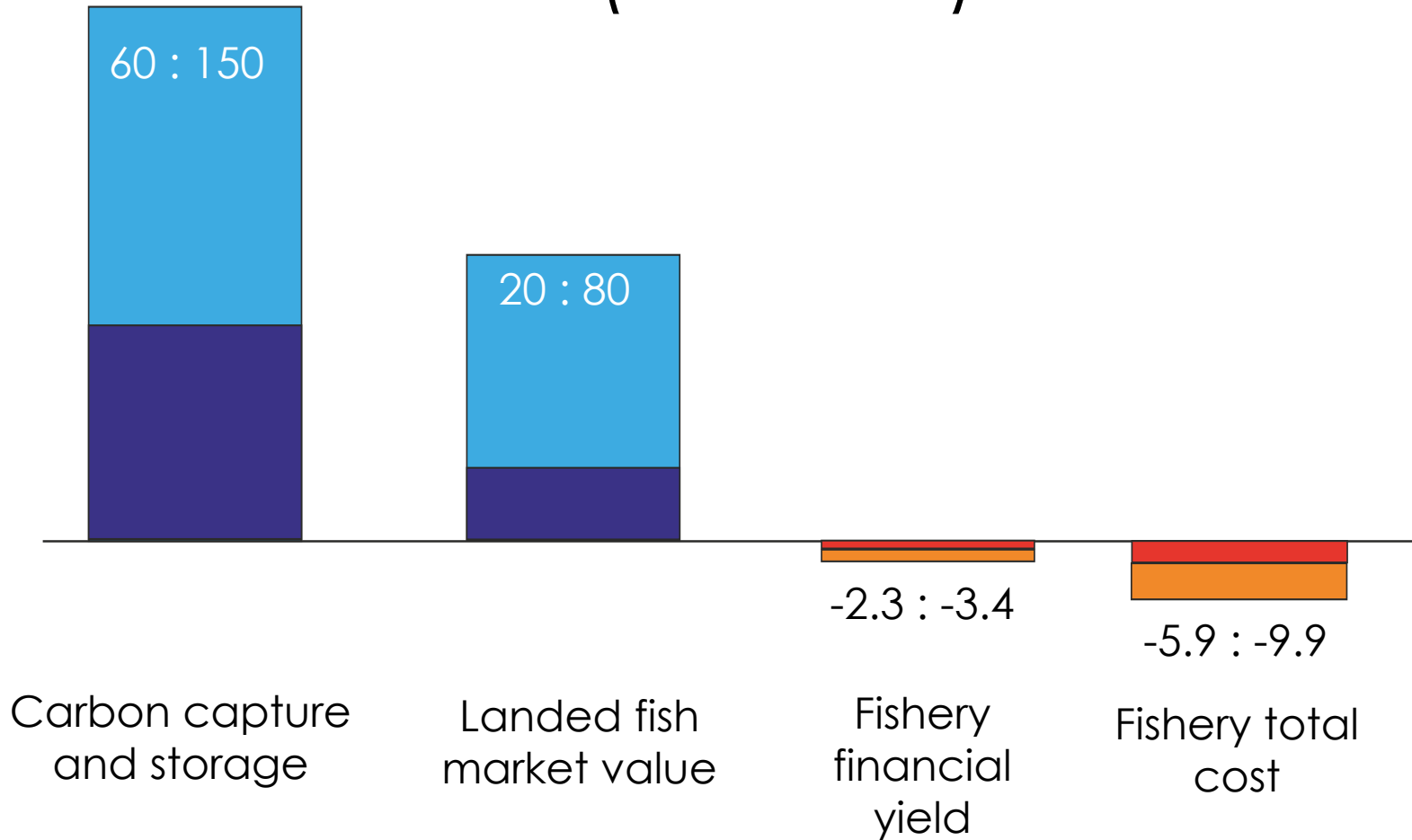
1 000 000 -2 500 000 Tonnes CO₂
captured and stored per year



£1 Billion



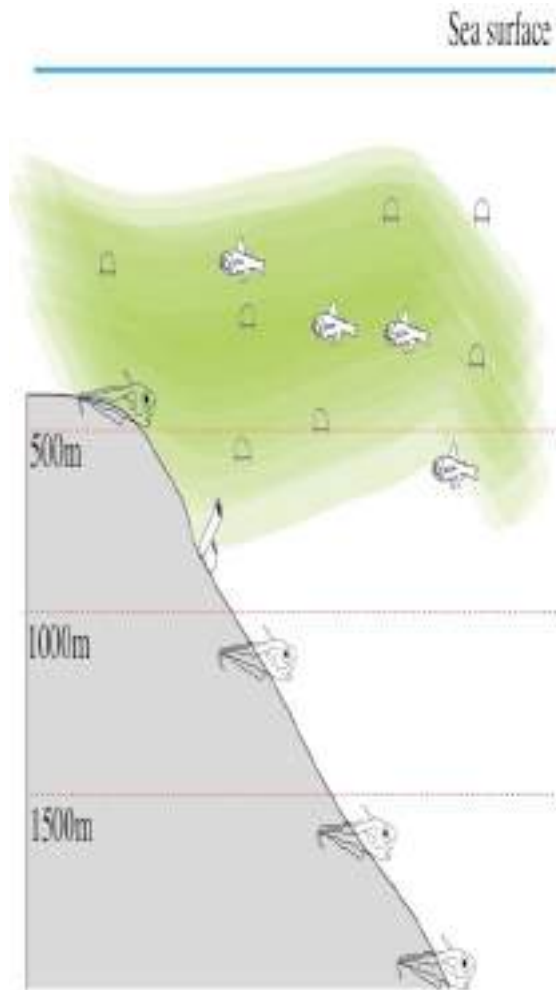
Estimated annual value or cost of deep water fish ecosystem services (£ Millions)



BLOOM 2013

NEF 2013





Fishes living in the CCS zone between 700-1800m provide an ecosystem service worth c. £100M per year

Socio-economic case for stopping DSBT - in addition to the compelling ecological argument

