

The economic benefits of trees and woodland



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Research Report

The Economic Benefits of Woodland

A report for the Woodland Trust
prepared by Europe Economics

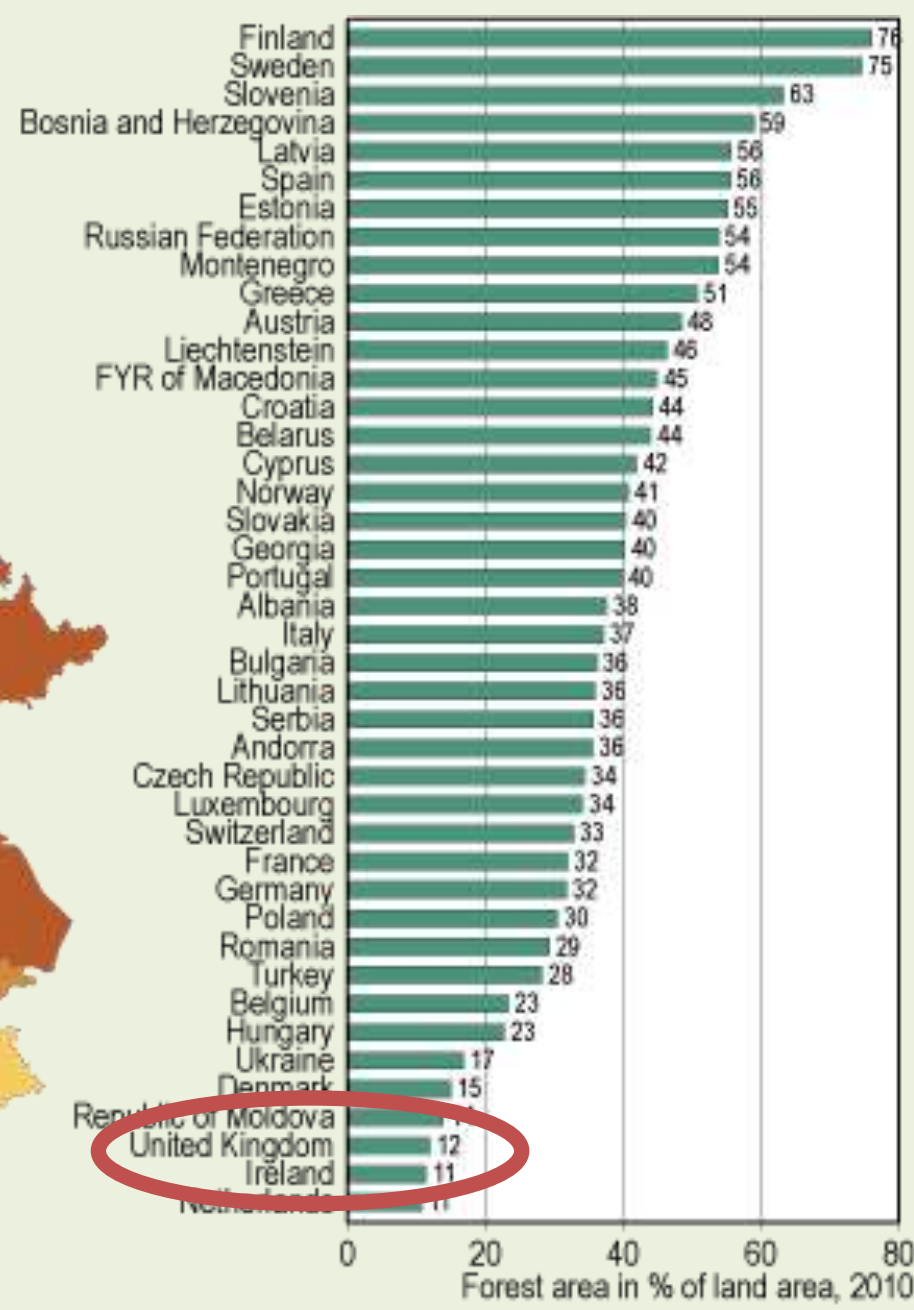
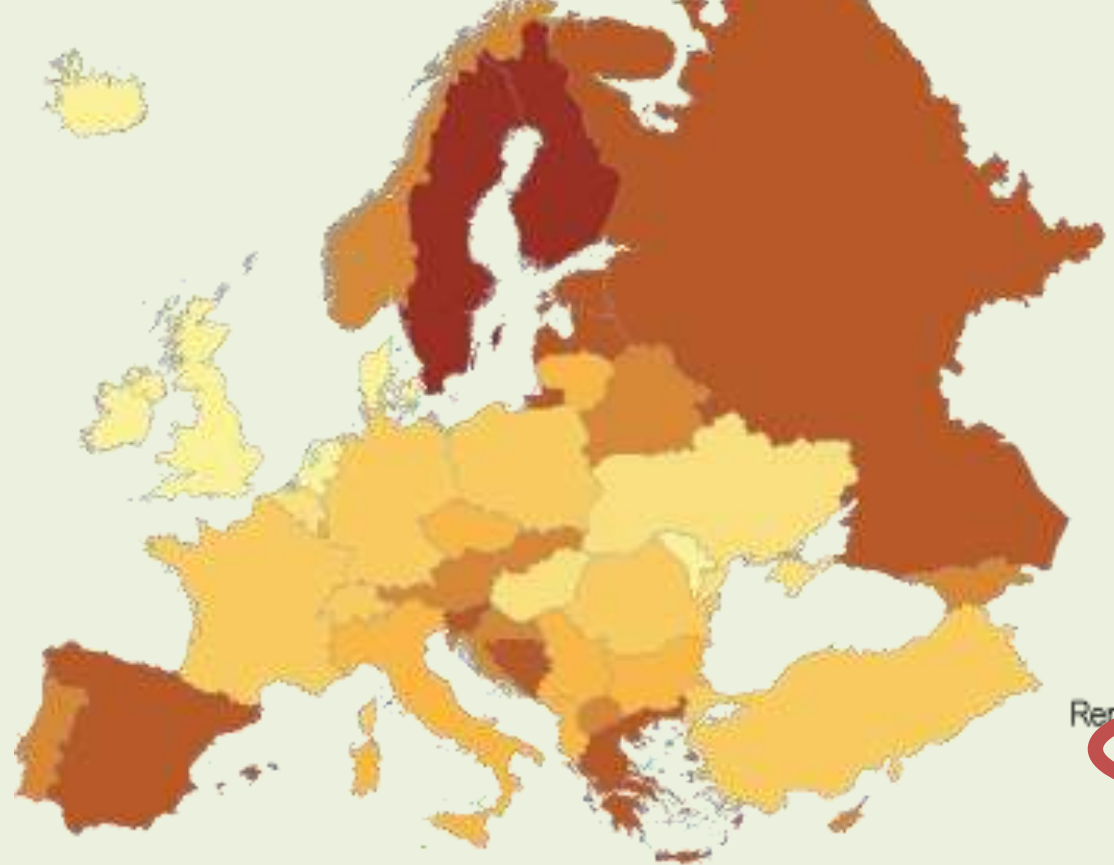
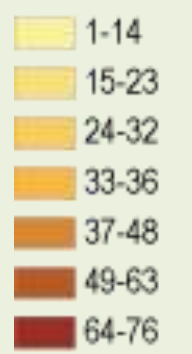
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The economics and the benefits of woods and trees

- Types of economic values supplied by trees and woodland
- The cross-cutting benefits of trees and woodland
- Why we need to invest in trees and woodland

Forest area in % of land area, 2010



Types of value

- Business
- Recreation
- Flood Management
- Health
- Water Management
- Aesthetics
- Climate change mitigation
- Existence values

Location, location, location...





Private costs v. Public benefits



Urban air quality



Green Streets, Manchester (Red Rose Forest)

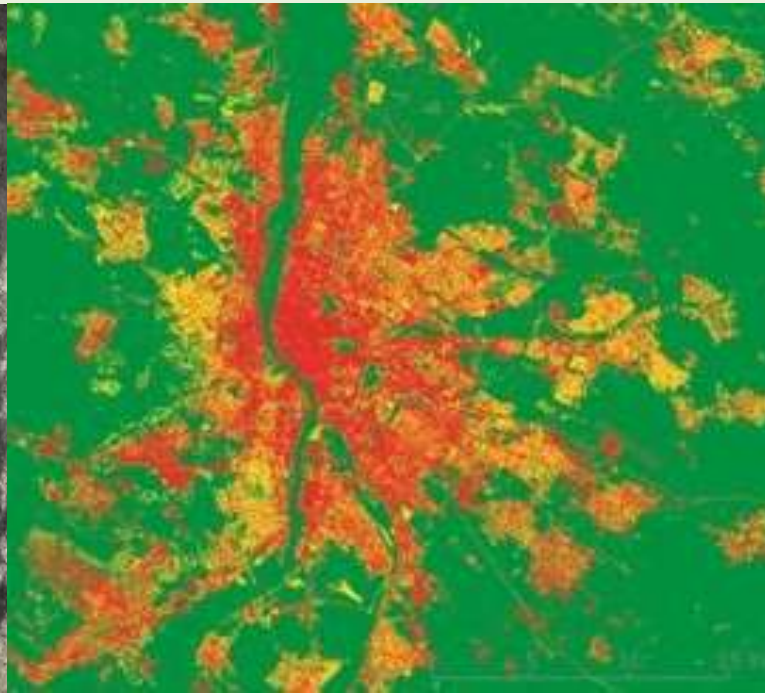


Pollutant	Tons removed per year	Value
Carbon monoxide (CO)	0.0005	£0.47
Nitrogen dioxide (NO ₂)	7.9	£52,000
Ozone (O ₃)	22.9	£149,000
Particulates (PM ₁₀)	18	£1,315,000
Sulphur dioxide (SO ₂)	1.3	£2,000

The value of pollutant removal

Woodlands in urban areas can make cities more healthier

Increasing greenspace cover by 10 per cent – in areas with limited green space – might eliminate the effects of urban heat island effect

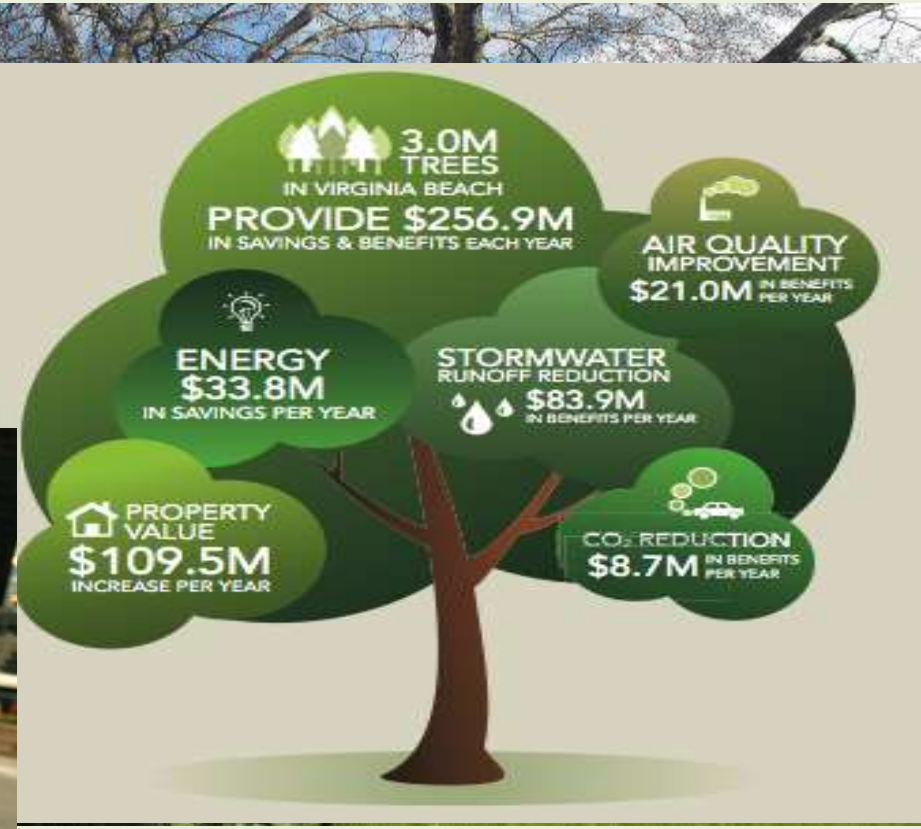


Tree loss



Ascribing value

- Aiding decision making
- Creating 'markets'



Values per Ha of Woodland

• Climate change mitigation	£16,000
• Health in urban areas	£6,800
• Aesthetic (seeing from home)	£11,000
• Aesthetic (seen from train)	£9,500
• Improvement of drinking water	£16,000
• Recreation	£23,000
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• Total for urban/peri-urban woods	£130,000
• Total for commercial forest	£55,000
• Total for lowland, broadleaved woods	£140,000

Trees have real value

- Trees, woodland have real economic values
- Those values are not trivial
- Trees can deliver across several policy areas simultaneously
- Investment is needed to protect and maintain tree cover
- Targeted increase in tree cover could have significant economic benefits
- Valuation can aid decision making and the creation of 'markets'

Thank you for listening



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<http://www.woodlandtrust.org.uk/publications/2015/03/the-economic-benefits-of-woodland>