Implementing a Carbon – based tree planting strategy Glenn Gorner MICFor



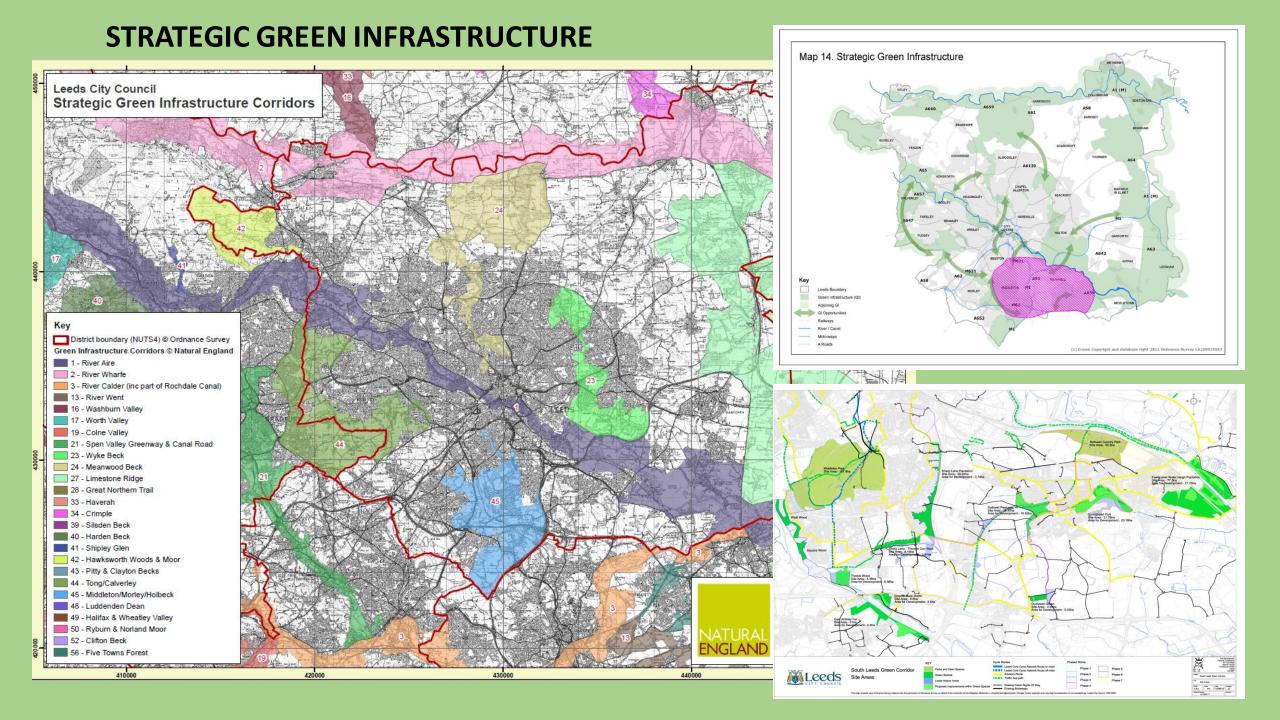


Tree planting targets : Challenges

- Mix of accessible urban trees and woodlands with increased rural planting. Includes the more challenging urban sites.
- Policy needs to catch up "clear, stable and well-designed policies" (CCC, 2019)
- Identify the challenges and blocks to tree planting such e.g. Post Common Agricultural Policy and the transition to Environmental Land Management schemes.
- The scale of planting (1970's 50,000 ha/yr, 1980's 30,000 ha/yr).
- Balance of other factors such as biodiversity, farming, landscape character, water quality.





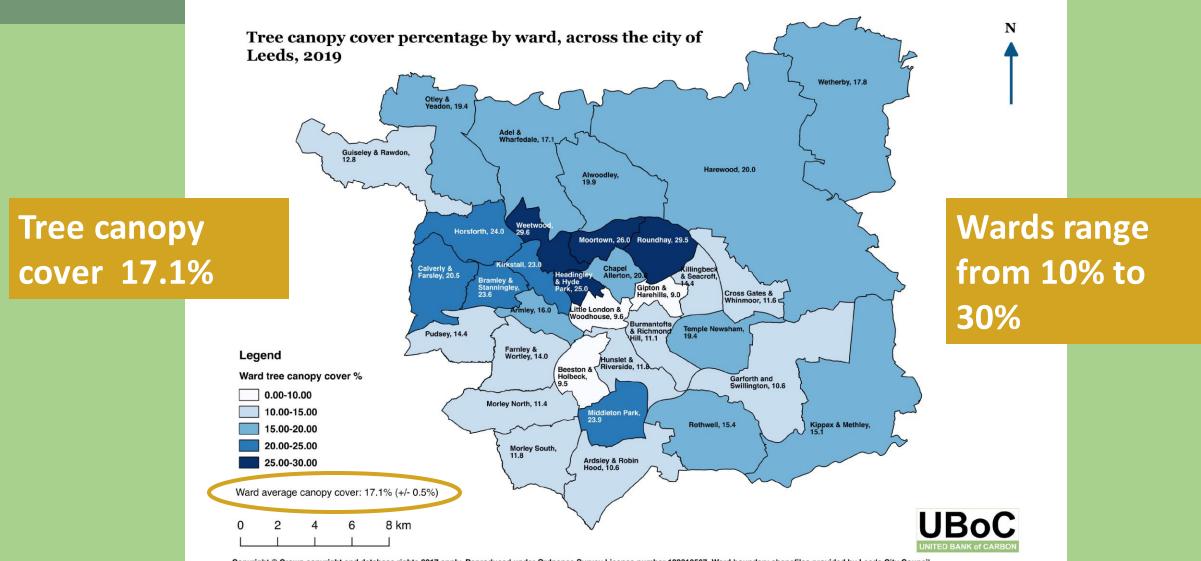






TREES NEED SOIL

Other Leeds4trees projects



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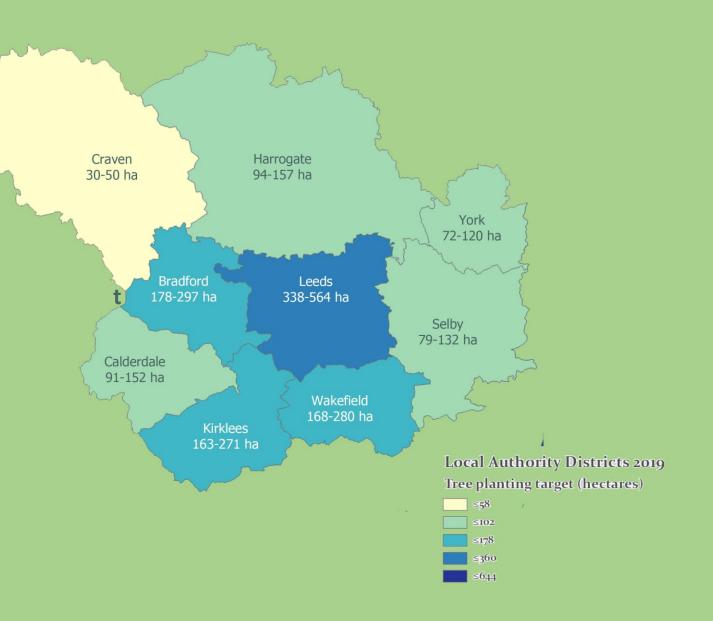
Figure 1. Map to show the estimated percentage tree canopy cover of Leeds wards. Canopy cover estimates calculated using surveys of 800 sample points per ward in i-Tree Canopy v6.1. Map produced using QGIS v2.18. Ward boundary shape-files provided by Leeds City Council.

WHITE ROSE FOREST DISTRICTS TREE PLANTING TARGETS BASED ON EMISSIONS

Local Authority Districts 2019 Tree planting target (hectares)

≤58
≤102
≤178
≤360
≤644

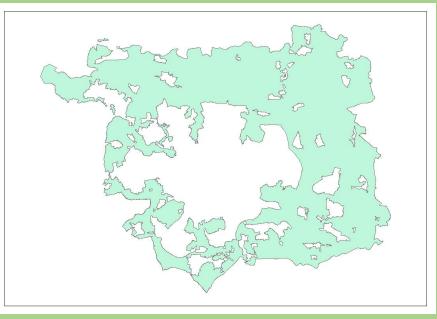
These figures are a theoretical responsibility and planting outside of the local authority area but within the UK maybe required.



THE CHALLENGE FOR LEEDS

LEEDS SCALE – current canopy cover = 17.1% (9,468 ha) Canopy increase to 33% (18,296 ha) Increase of 16% (8,828 ha) *e.g. approaching 300 ha per year*

PARKS & COUNTRYSIDE SCALE – area of land – 4,000 ha. This is 7% of City total (55,173 ha) TCC of P&C land = 39% (1,557 ha of woodland) Suggested canopy increase to 65% (2,807 ha) Increase of 1,250 ha over 25 years





SUSTAINABLE SUPPLY OF TREES

LCC Parks * Countryside are gearing up to sow and grow their own forestry planting stock

Growing our own trees to provide 222,200 trees for planting each year

Over 5.5 million trees over 25 years.









CHOOSING THE RIGHT TREE FOR THE RIGHT LOCATION IS IMPORTANT

3 BASIC WOODLAND PLANTING MIXTURES HAVE BEEN IDENTIFIED:

- i. 3 MAIN LOWLAND BROADLEAVED WOODLAND TYPES FOUND IN THE LEEDS AREA (W10, W16, W8)
- ii. THE MOST COMMON WET WOODLAND TYPE FOUND IN THE LEEDS AREA (W6)
- iii. WOODLAND ON RE-CLAIMED LAND

SPECIES CHOICE INFORMED BY THE NATIONAL VEGETATION CLASSIFICATION AND ECOLOGICAL SITE CLASSIFICATION

Woodland planting guidelines

Canopy species W10 community



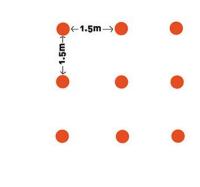


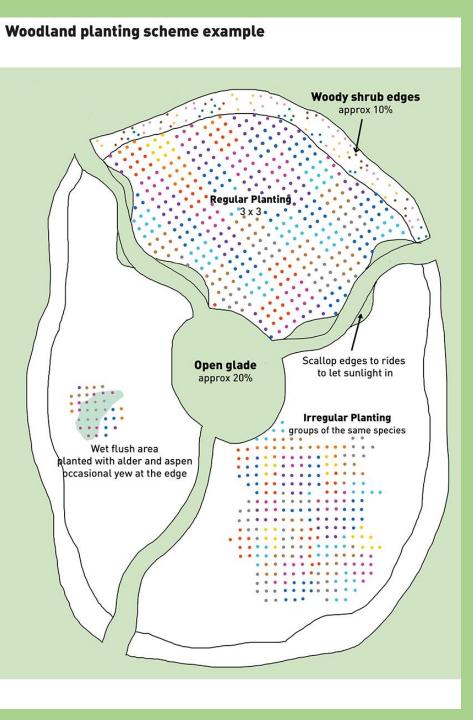
Block planting

each dot represents 1 tree

Regular planting e.g. 3 x 3	Irregular planting in groups of the same species
	Spacing
	whether regular or irreg
	the spacing between ea
	be approx 1.5m
	● ← 1.5m → ●
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Spacing whether regular or irregular planting the spacing between each tree should be approx 1.5m

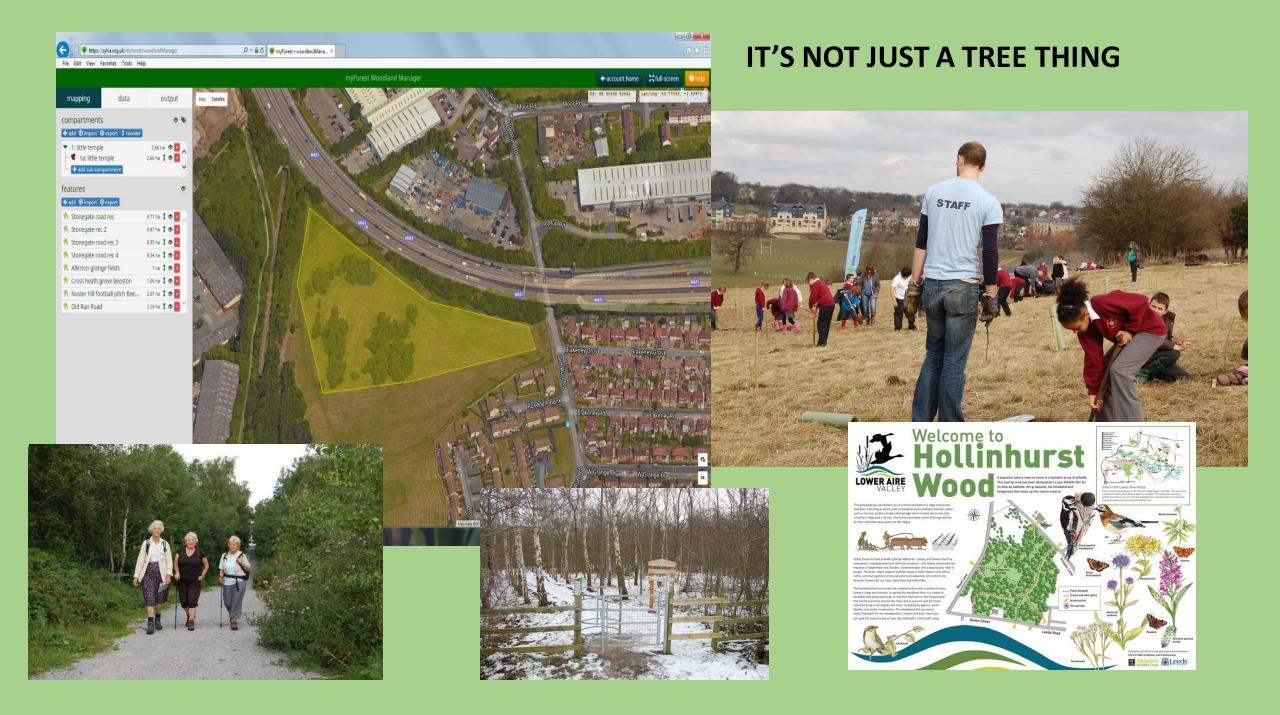






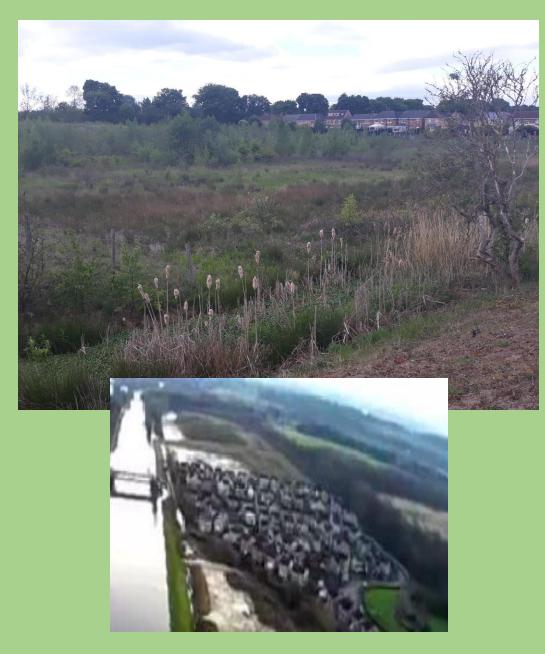
LAND PREPARATION AND THOROUGH ESTABLISHMENT MANAGEMENT ARE ESSENTIAL

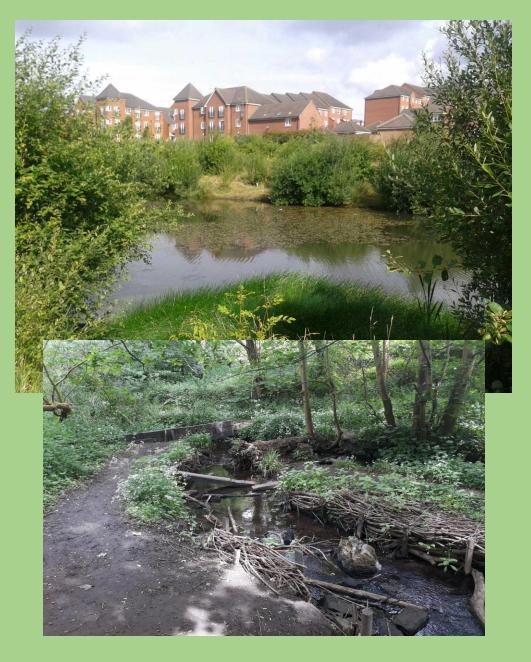
BUT HAVE A LONG-TERM VIEW





'NATURALISED' FLOOD MANAGEMENT – MAKING SPACE FOR WATER





GREEN STREETS – INCORPORATING GBI INTO HIGHWAY DESIGN

