
Clyde Climate Forest
The Clyde Climate Forest
GLASGOW
CITY REGION
The Clyde Climate Forest
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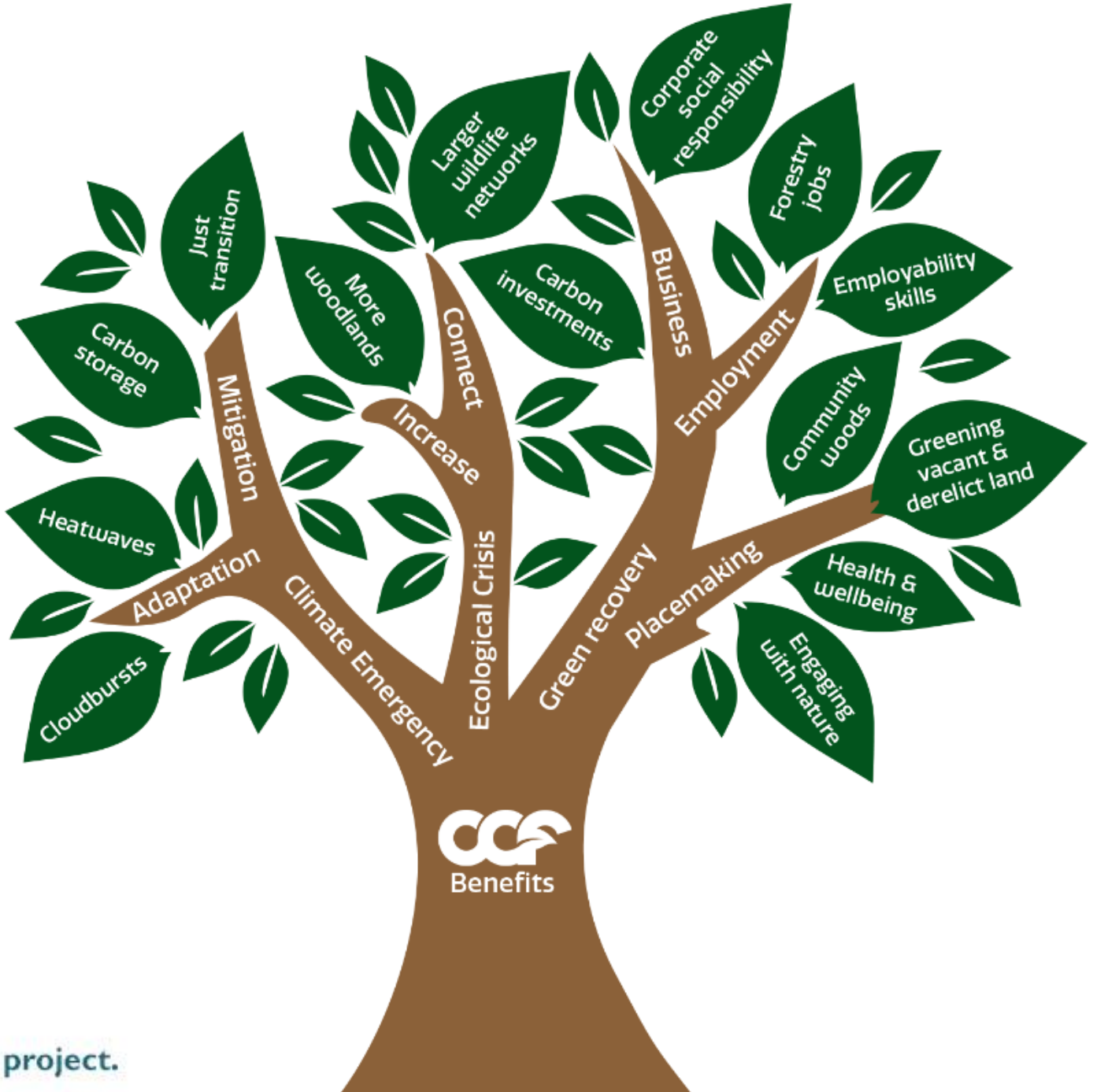
CANOPY . CONNECTIVITY . CARBON

The Clyde Climate Forest will:

- address climate change
- help nature's recovery
- contribute to Net Zero
- connect people to nature



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18 million trees over the next decade

The right trees in the right places!

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Canopy

Up to **1.5 million** new trees planted with local communities in urban areas.

Connectivity

Targeted planting of **101** native woodlands creating a migratory route for wildlife.

Carbon

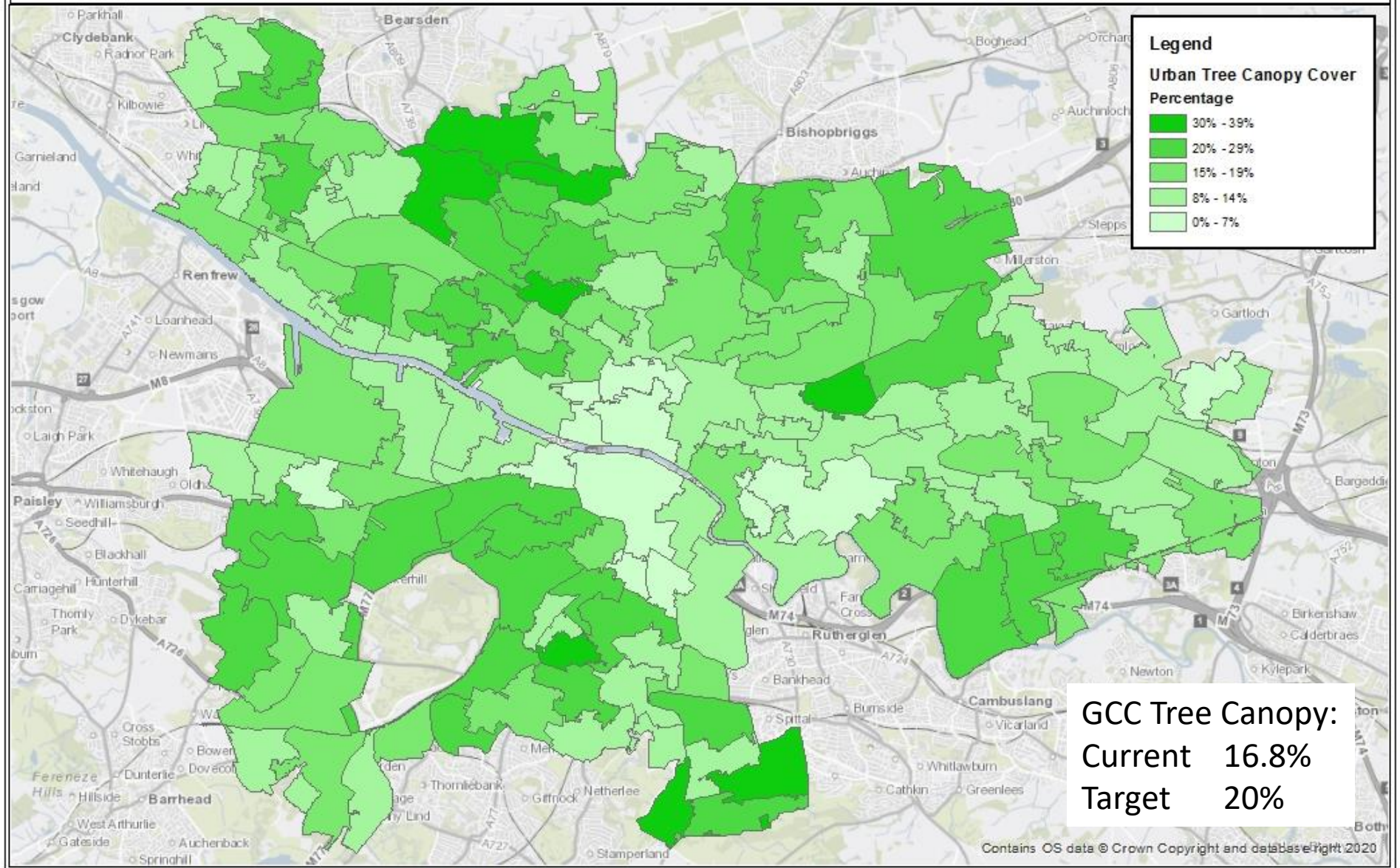
Up to **1,000 hectares** per year of new forests & woodlands planted across the region.

Where will the CCF be?

gcv green network **A Green Network Blueprint delivery project.**

Canopy

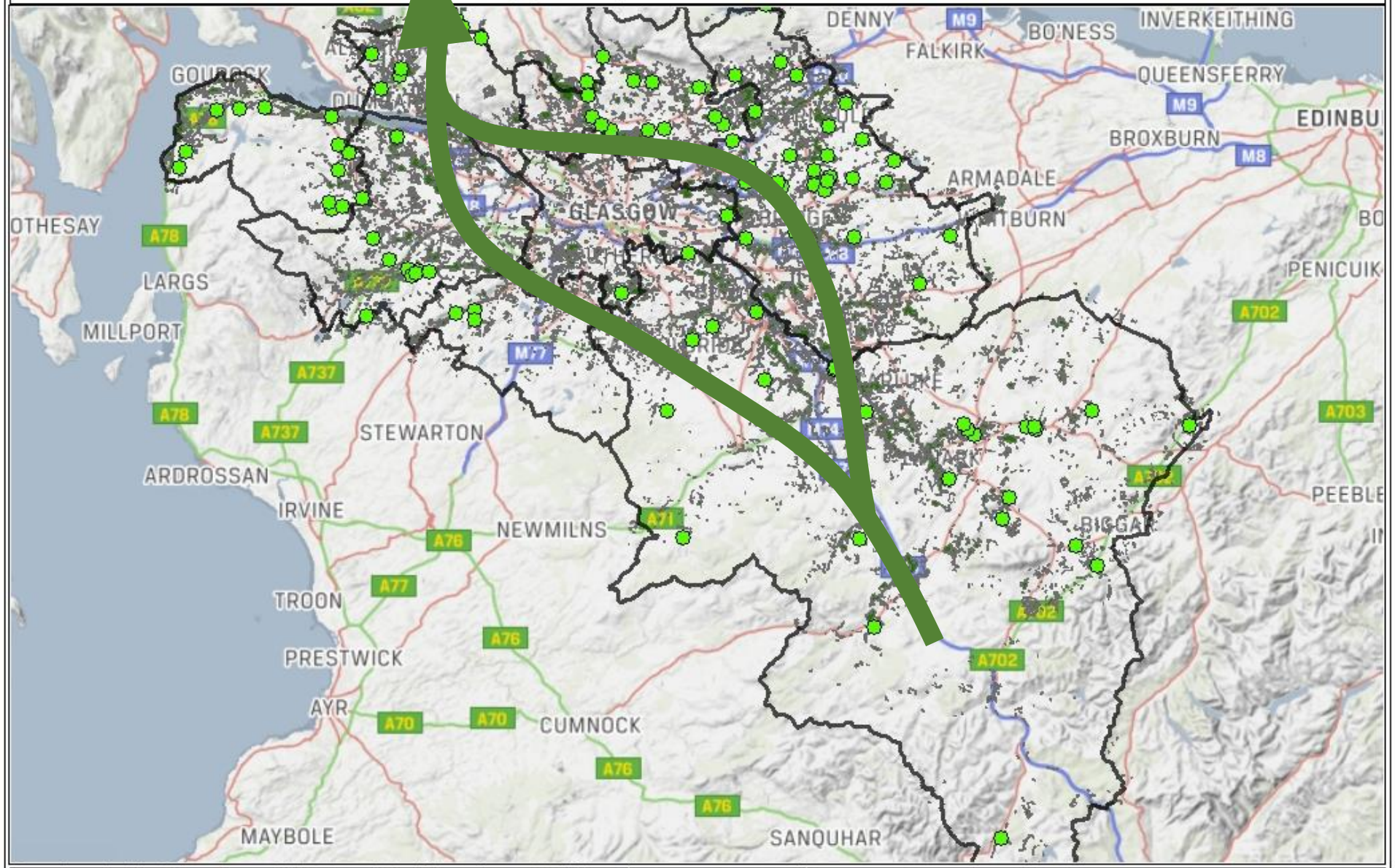
Tree Canopy Cover Percentage by Intermediate Zones



GCC Tree Canopy:
Current 16.8%
Target 20%

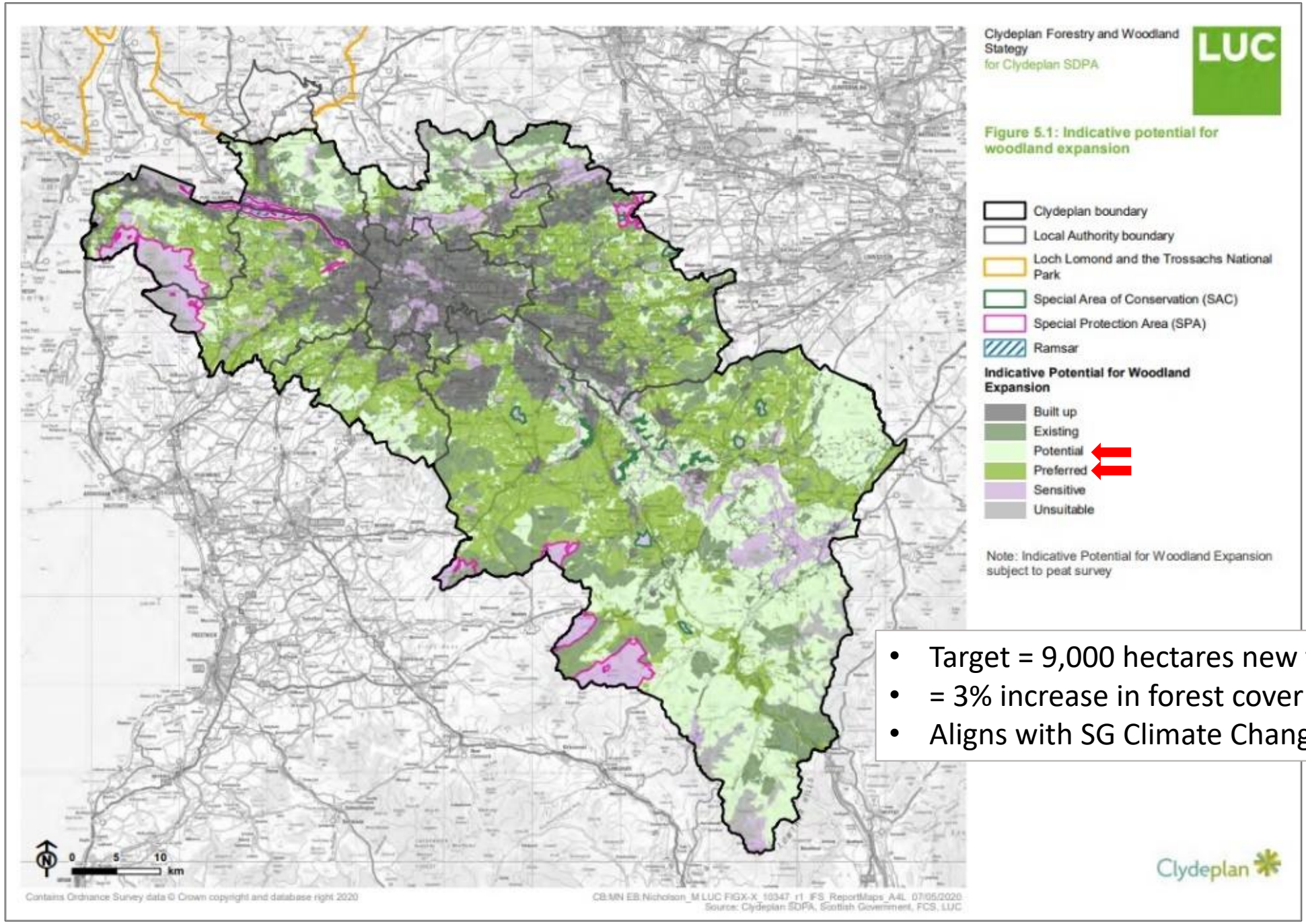
Connectivity

GCV Woodland Habitat & Realistic Opportuniy Areas



0 3.75 7.5 15 22.5 30 Kilometres

Carbon



- Target = 9,000 hectares new forests
- = 3% increase in forest cover
- Aligns with SG Climate Change Plan

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The Opportunity

Update to the Climate Change Plan
2018 – 2032

University of Glasgow

"A Dear, Green Place"
Towards a Climate Change Strategy and

Clydeplan (Glasgow and Clyde Valley Strategic Development Planning Authority)

Forestry and Woodland Strategy for the Glasgow City Region
2020

LUC

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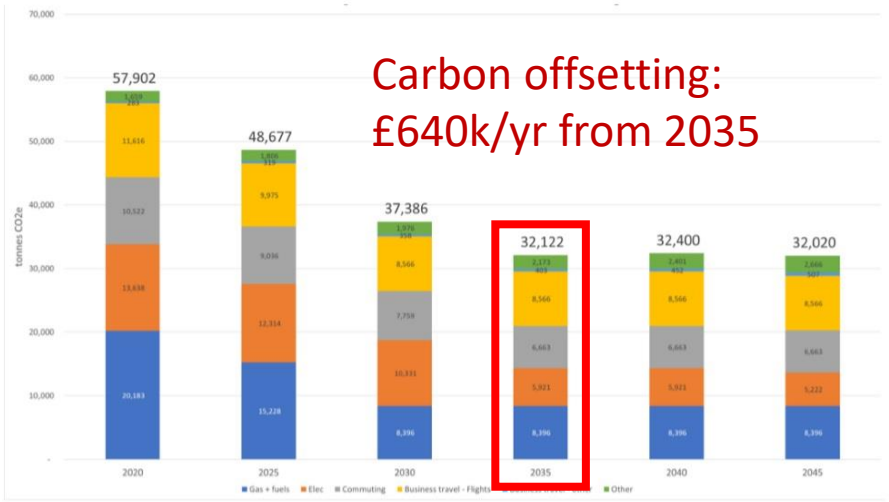
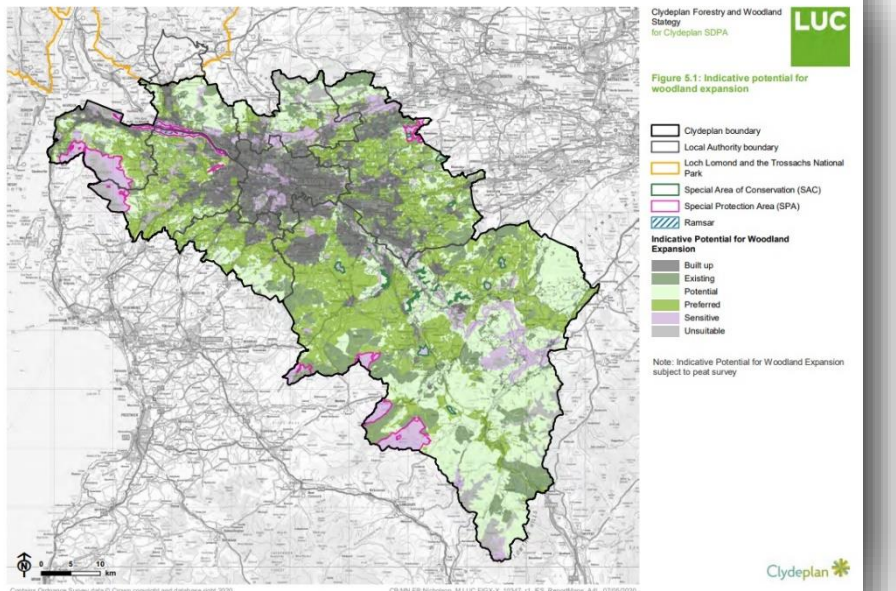
4.14 Policies to increase carbon sequestration include:

CC 1.1	Expand woodland cover within the Clydeplan area as a means of increasing carbon sequestration and reducing net carbon emissions.



Carbon offsetting:
£640k/yr from 2035

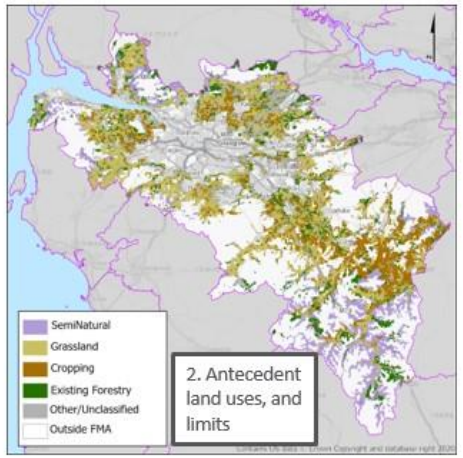
Figure 3: Projections for Aggregated CO_2 Emissions to 2045 (Taken from ARUP report September 2019)



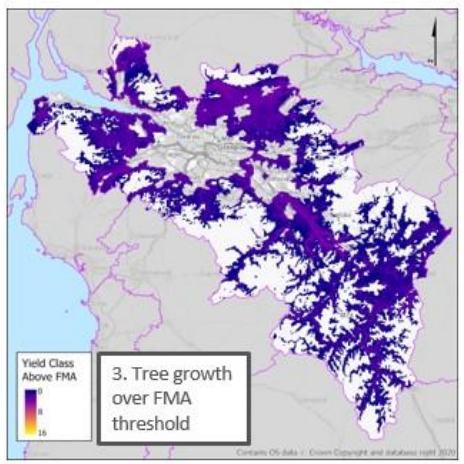
1. Multi-Purpose Broadleaf – FMA3

Yield Class 6, Moderate Thinning, 2.5m spacing, 80 year

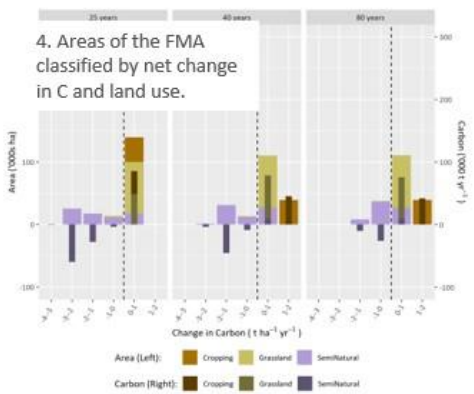
10,000ha FMA3
146,000 tonnes CO_2
by 2045



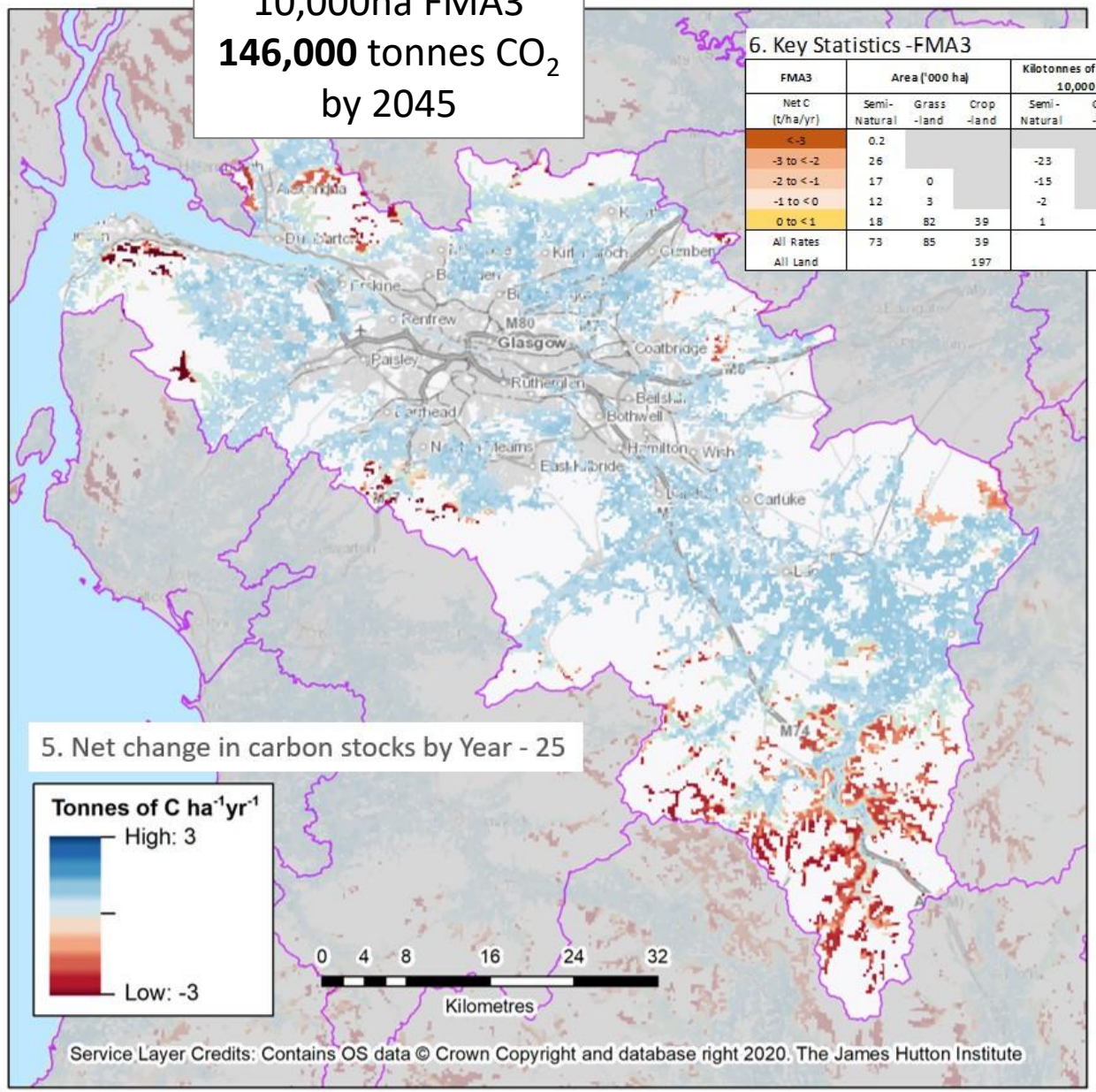
2. Antecedent land uses, and limits



3. Tree growth over FMA threshold



4. Areas of the FMA classified by net change in C and land use.



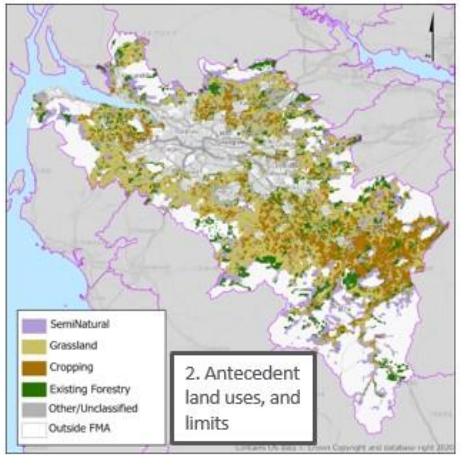
6. Key Statistics -FMA3

FMA3	Area ('000 ha)			Kilotonnes of C per annum for 10,000 ha planted		
Net C (t/ha/yr)	Semi-Natural	Grass-land	Crop-land	Semi-Natural	Grass-land	Crop-land
< -3	0.2					
-3 to < -2	26			-23		
-2 to < -1	17	0		-15		
-1 to < 0	12	3		-2		
0 to < 1	18	82	39	1	6	9
All Rates	73	85	39			
All Land			197			

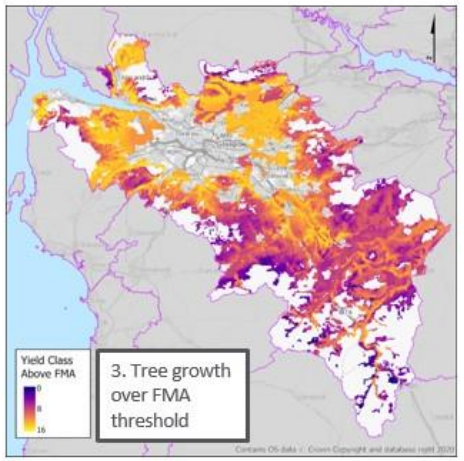
Authors - Keith Matthews*, Douglas Wardell-Johnson*, Dave Miller*, Gianna Gandossi*, Mike Perks**. *James Hutton Institute, **Forest Research.
Maps using data from Matthews, et al., (2020) *Not seeing the carbon for the trees? Why area-based targets for establishing new woodlands can limit or underplay their climate change mitigation benefits.* Land Use Policy, Vol 97. https://doi.org/10.1016/j.landusepol.2020.104690

1. Multi-Purpose Sitka Spruce – FMA4

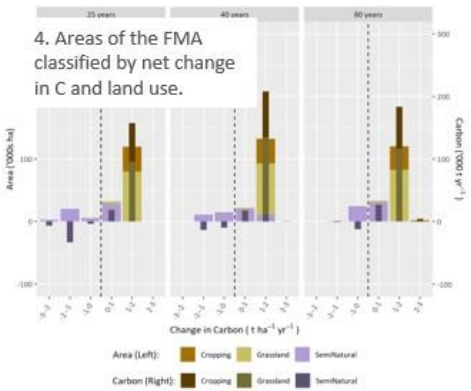
Yield Class 12, Moderate Thinning, 2.0m spacing, 50 year



2. Antecedent land uses, and limits



3. Tree growth over FMA threshold

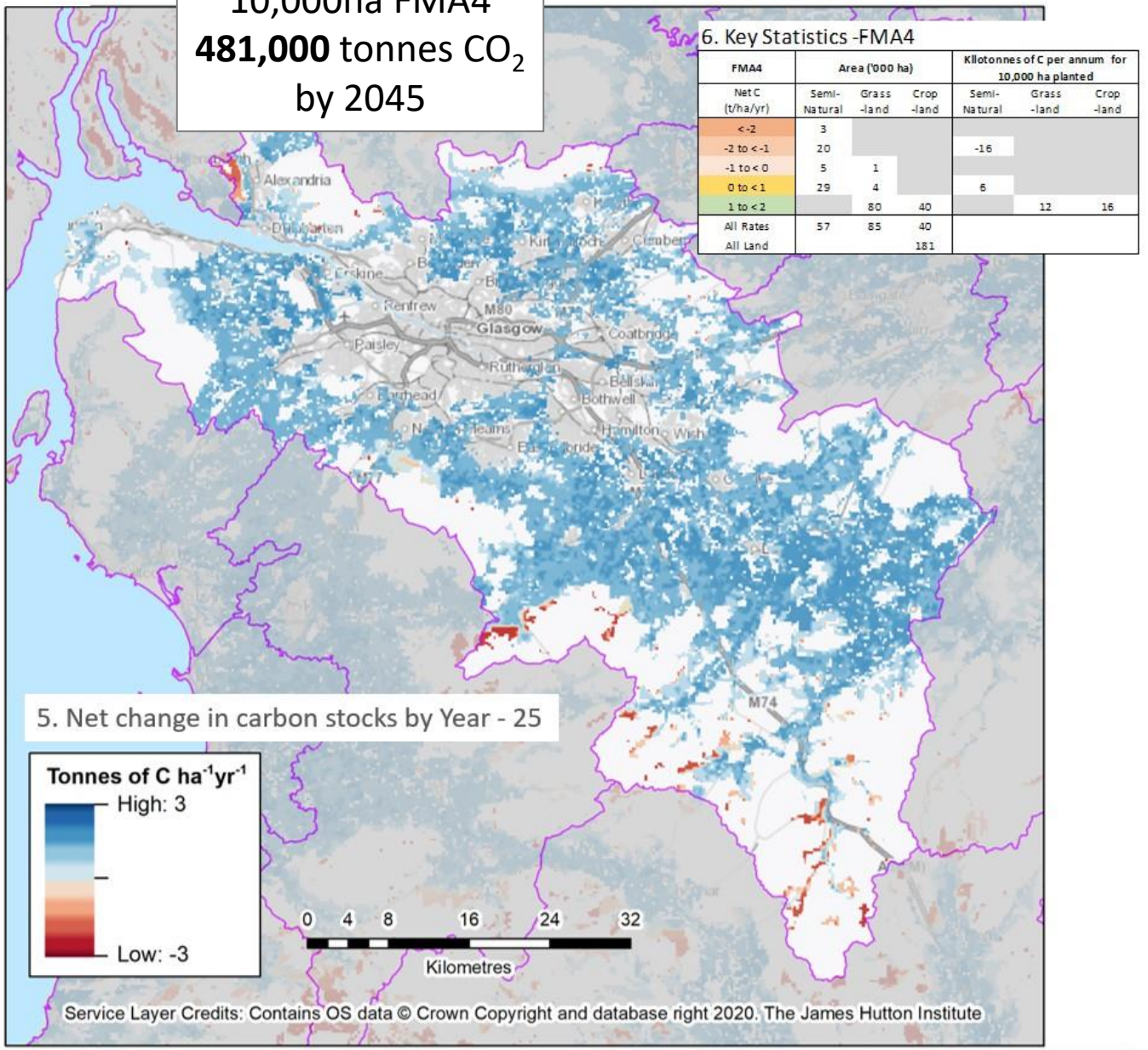


4. Areas of the FMA classified by net change in C and land use.

10,000ha FMA4
481,000 tonnes CO_2
by 2045

6. Key Statistics -FMA4

FMA4	Area ('000 ha)			Kilotonnes of C per annum for 10,000 ha planted		
Net C (t/ha/yr)	Semi-Natural	Grass-land	Crop-land	Semi-Natural	Grass-land	Crop-land
< -2	3					
-2 to < -1	20			-16		
-1 to < 0	5	1				
0 to < 1	29	4		6		
1 to < 2		80	40		12	16
All Rates	57	85	40			
All Land			181			



5. Net change in carbon stocks by Year - 25

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The Challenge

- Can we convince landowners to create forests in “the right places”?
- Will the WCC be a significant incentive for landowners?
- How should we handle the growing demand for CCF carbon credits?
- Can we be a ‘dating agency’ for WCC investors and willing landowners?

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The Clyde Climate Forest is being delivered with the help of:

TCV The Conservation Volunteers

WOODLAND TRUST SCOTLAND

Scottish Forestry Coilltearachd na h-Alba

GLASGOW CITY REGION

TREES FOR CITIES

Green Action Trust

gcv green network

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More Information...

- www.clydeclimateforest.co.uk
- Twitter: @ClydeClimateFor
- Contact:

  Max Hislop, CCF Director
  max.hislop@tcv.org.uk