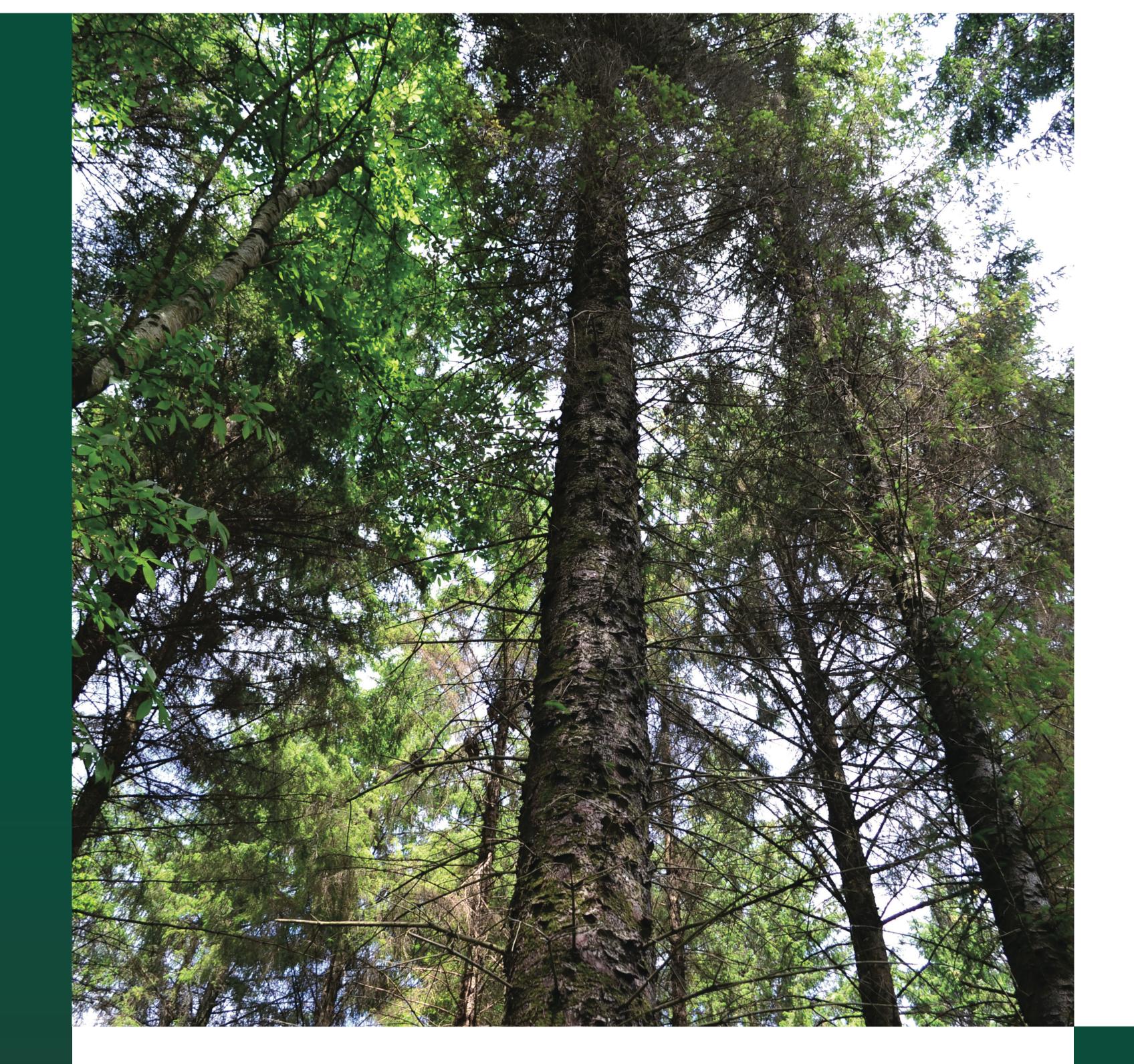
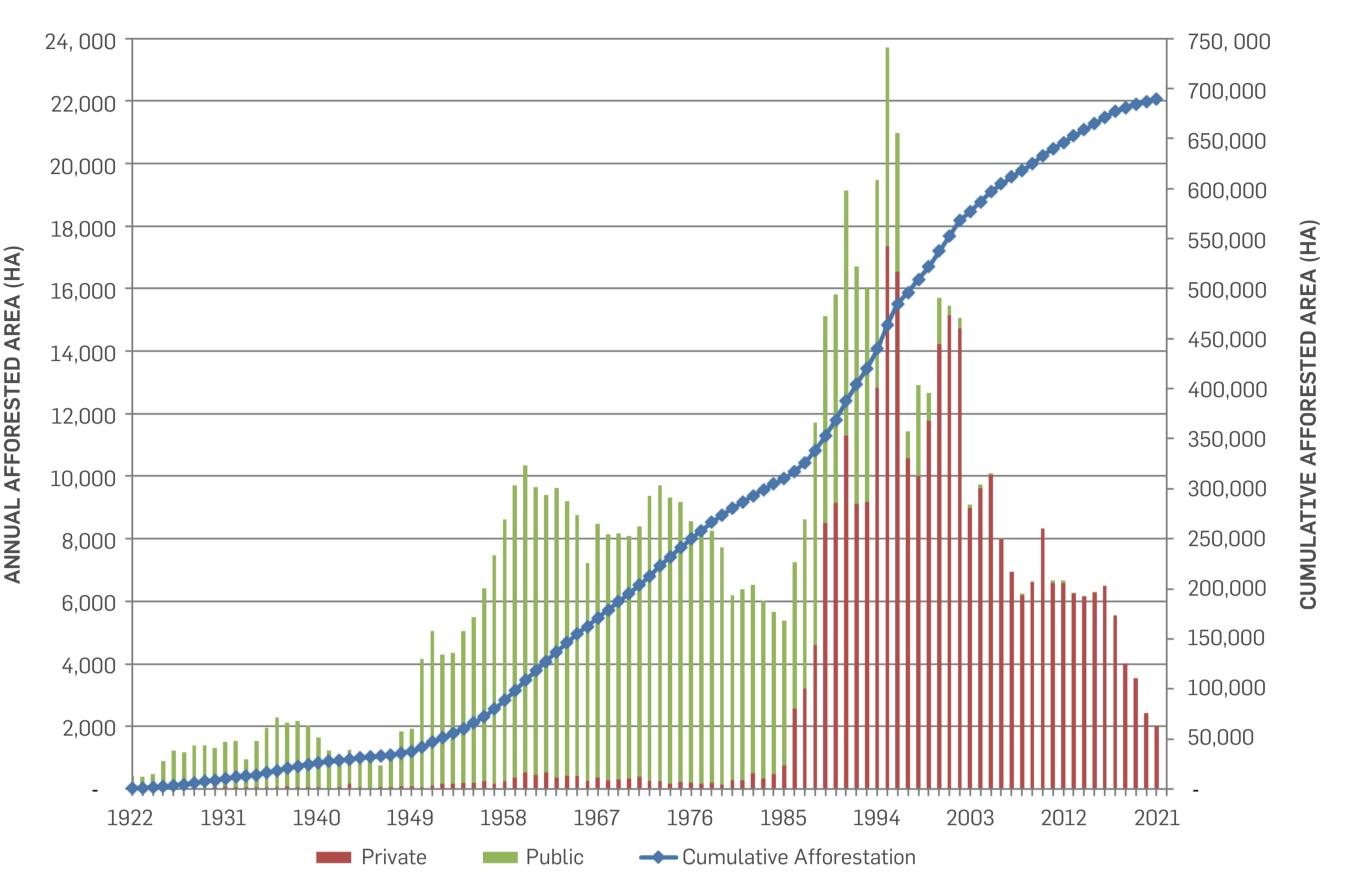


Afforestation in Ireland

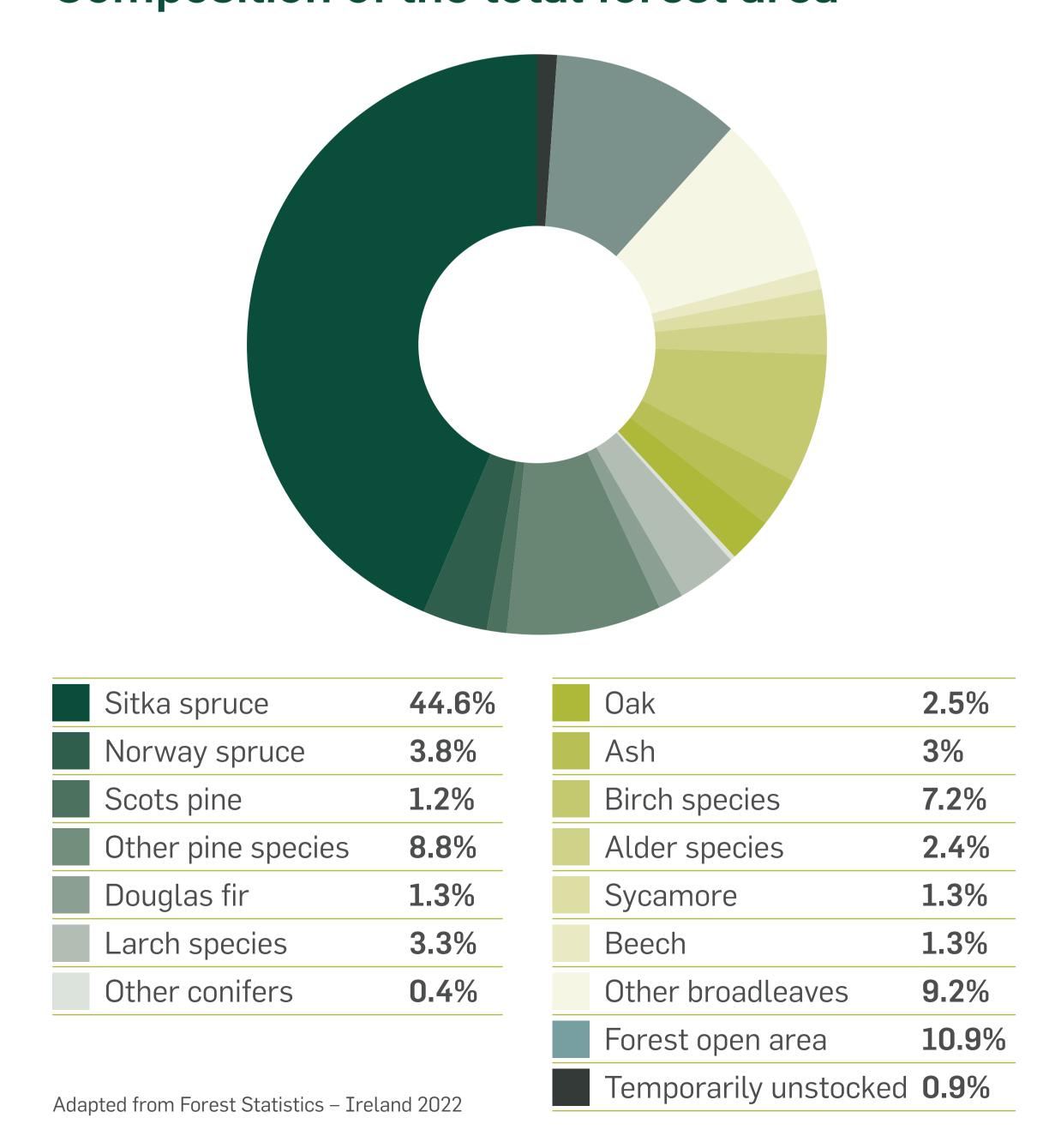


Annual State and Private Afforestation (1922–2021)



Adapted from Forest Statistics – Ireland 2022

Composition of the total forest area



Forest Creation Intervention – Forestry Programme 2023–2027*

FOREST TYPE		GRANT / HA	ANNUAL PREMIUM / HA
FT1	Native forests	€6,744	€1,103
FT2	Forests for water	€6,744	€1,142
FT3	Forests on Public Lands	€11,044	n/a
FT4	Neighbourwoods	€10,200	€1,142
FT5	Emergent Woodland/ rewilding	€2,500	€350
FT6	Broadleaf, mainly oak	€6,744	€1,037
FT7	Broadleaf, mainly birch, alder	€4,314	€973
FT8	Agroforestry	€8,555	€975
FT9	Seed Orchards	€10,000	€1,142
FT10	CCF	€5,421	€912
FT11	Mixed high forests: conifer, 20% broadleaves	€4,452 5	€863
FT12	Mixed high forests with mainly spruce, 20% broadleaves	€3,858	€746

*Subject to state-aid approval by EU





Transformation to CCF: Government supports



Woodland improvement CCF Scheme

BACKGROUND

2018: Pilot scheme

2020: General application

600ha has been approved to date

FOREST OPERATIONS SUPPORTED

Transformation management plan

Inventory

Tree marking

Selective felling for crown development and transformation

High pruning

Management of natural regeneration

Deer management

Enrichment planting

Forest protection (fencing, tree guards etc)

Clearance of invasive species

Protection of ecosystems

Woodland edge management

Maintenance of open spaces, rides and glades

Forestry Programme 2023–2027

INTERVENTION 2

Forest creation

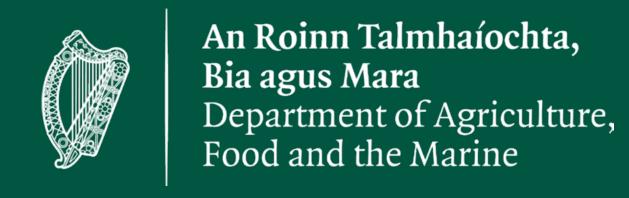
INTERVENTION 5

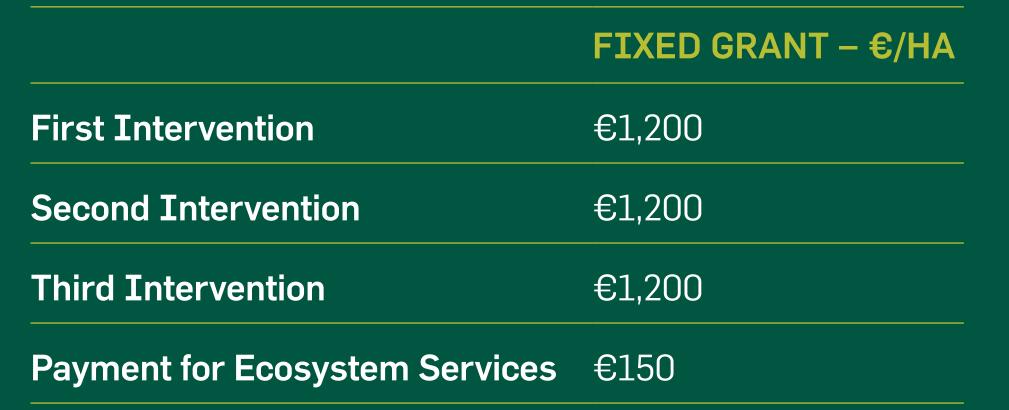
Sustainable forest management

INTERVENTION 8

Climate resilient reforestation





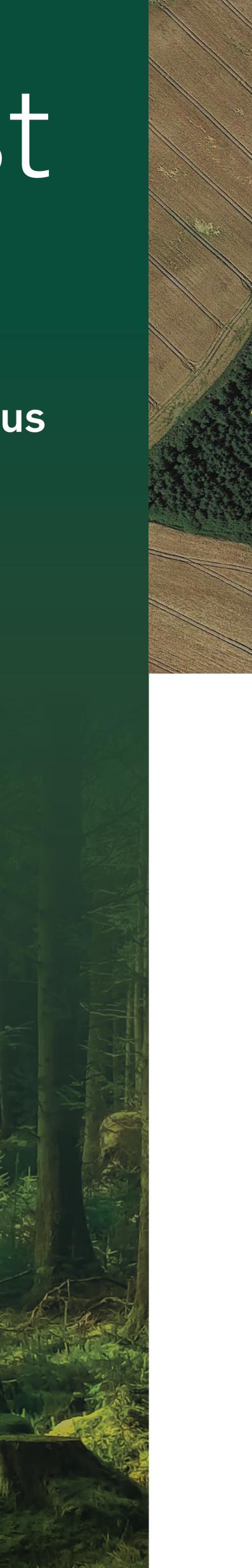




Ballycullen Forest County Wicklow

A long-term study of transformation to Continuous Cover Forestry in Sitka spruce in Ireland

Owners Sandra and Lasse Jorgensen







Early stage interventions to promote stability and irregular stand structures



Selecting potential quality trees in the Crown thinning treatment



Project Features

Initiated in 2010, this is currently the most important study of stand transformation in Sitka spruce.

COMPARISON OF THREE THINNING TREATMENTS

Low (Standard) **Graduated Density**

DESIGN

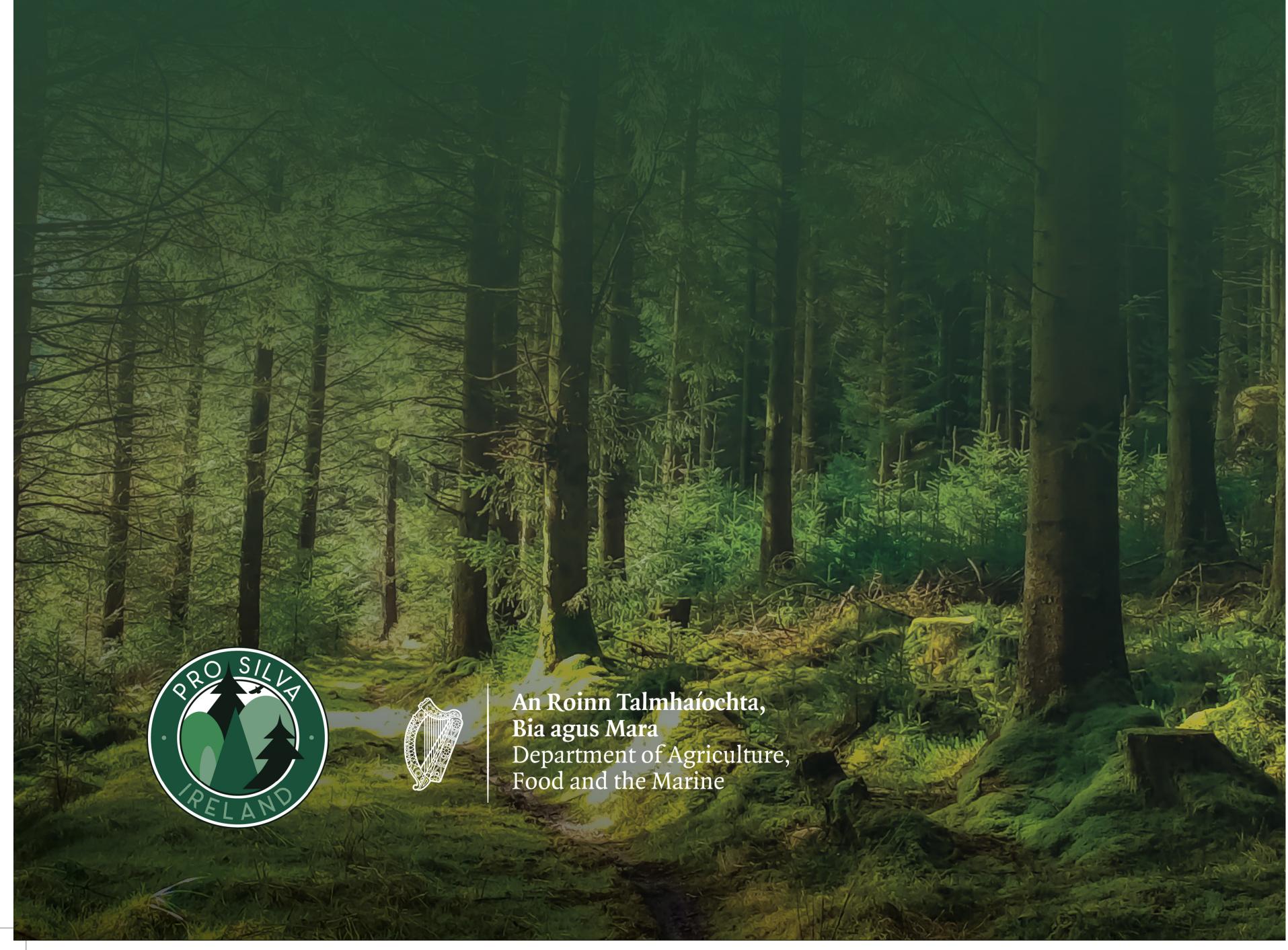
- 2 forests
- 3 blocks per forest
- 3 treatments per block

STAND INTERVENTIONS

- T1 2011
- T2 2014
- T3 2018/19
- T4 2023

FOCUS

Tree marking Forest stand dynamics Timber production Timber quality



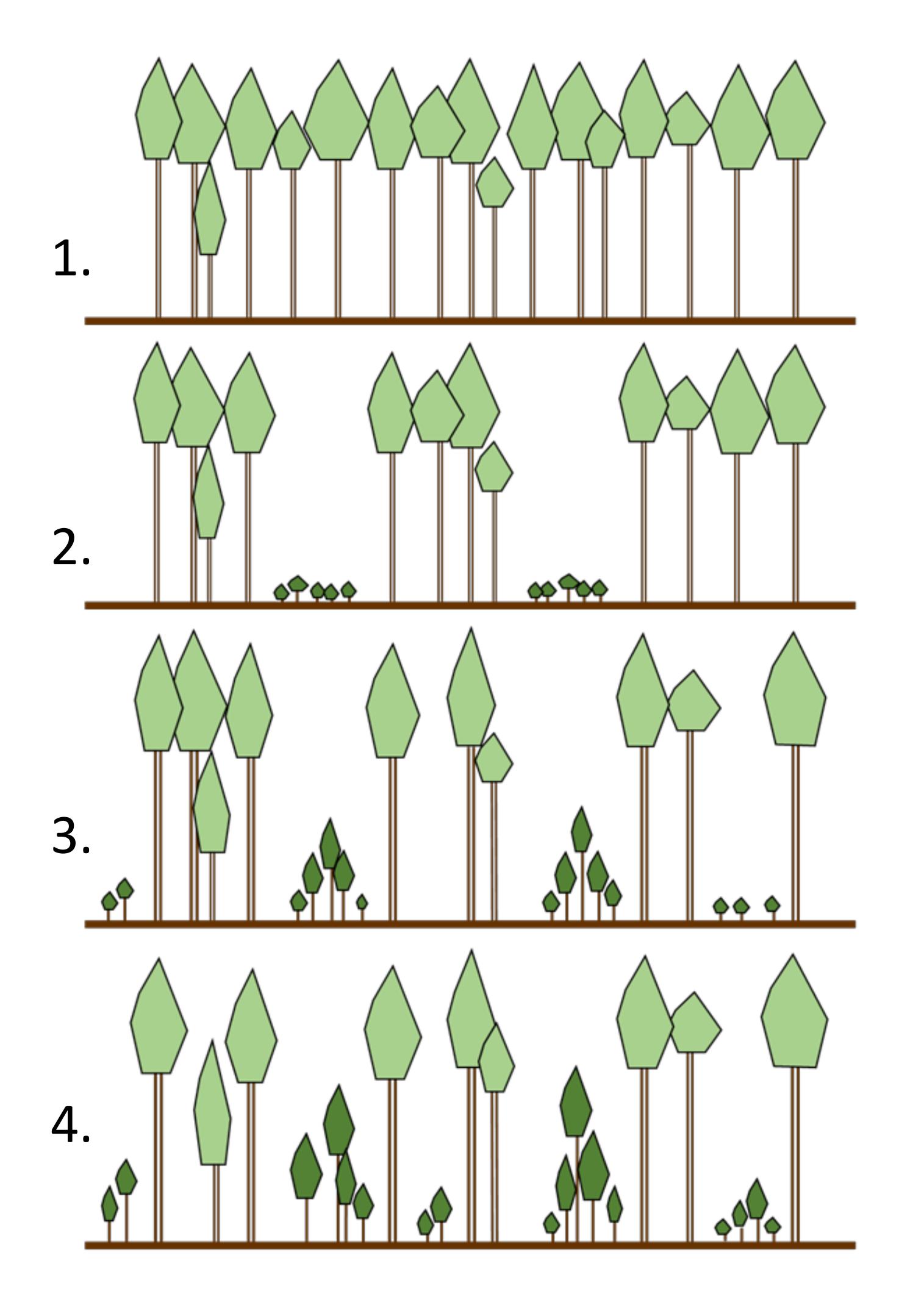




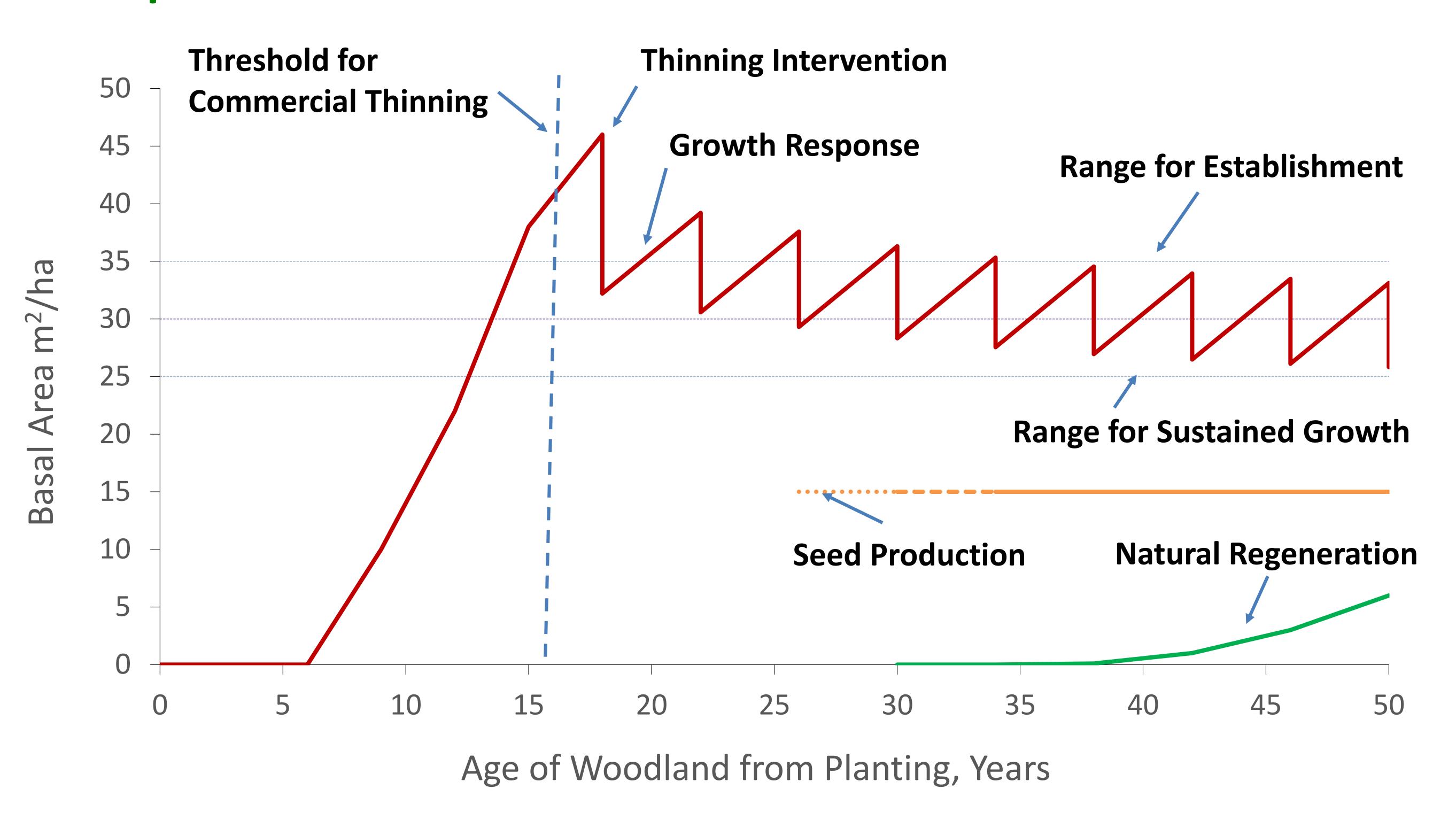


Stand Transformation

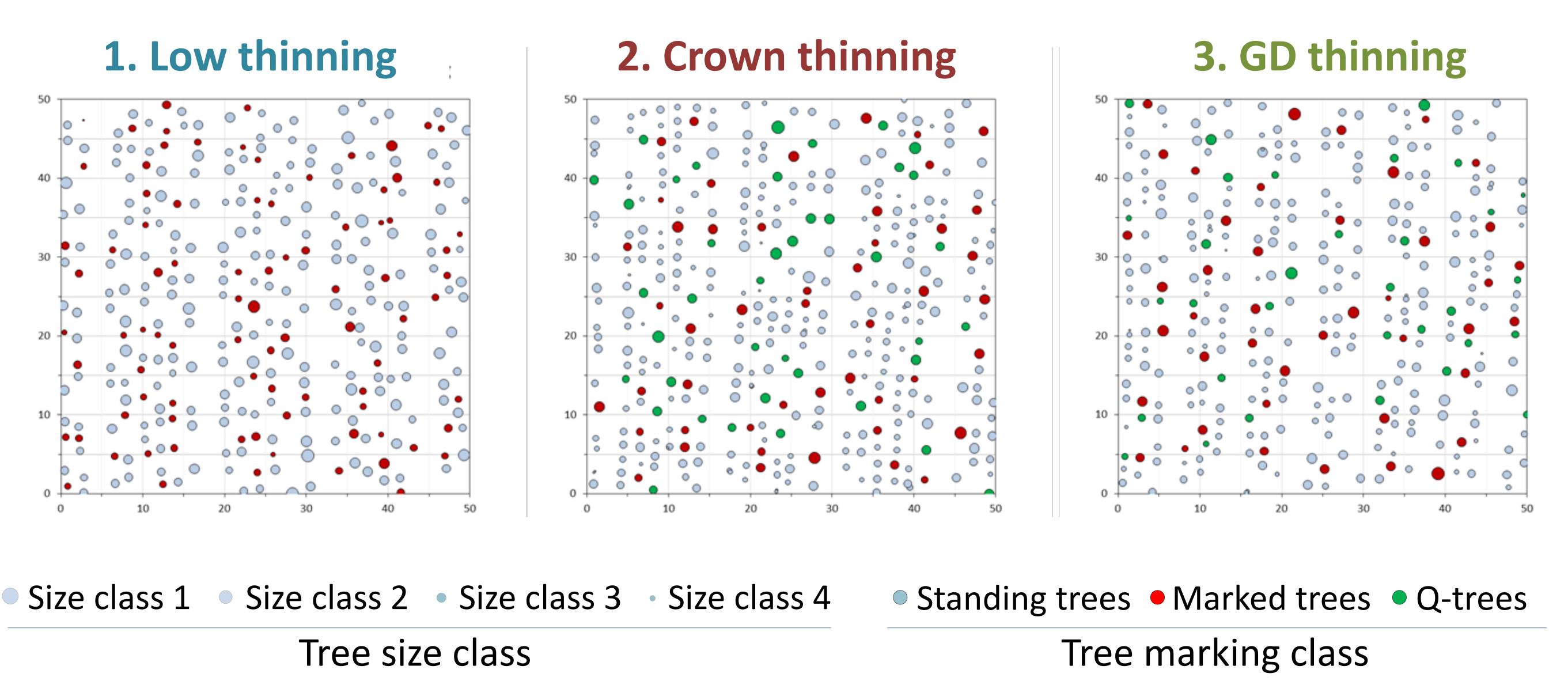
- 1. Differentiation
- 2. Promoting Regeneration
- 3. Structural Development
- 4. Structure Achievement



Conceptual Model

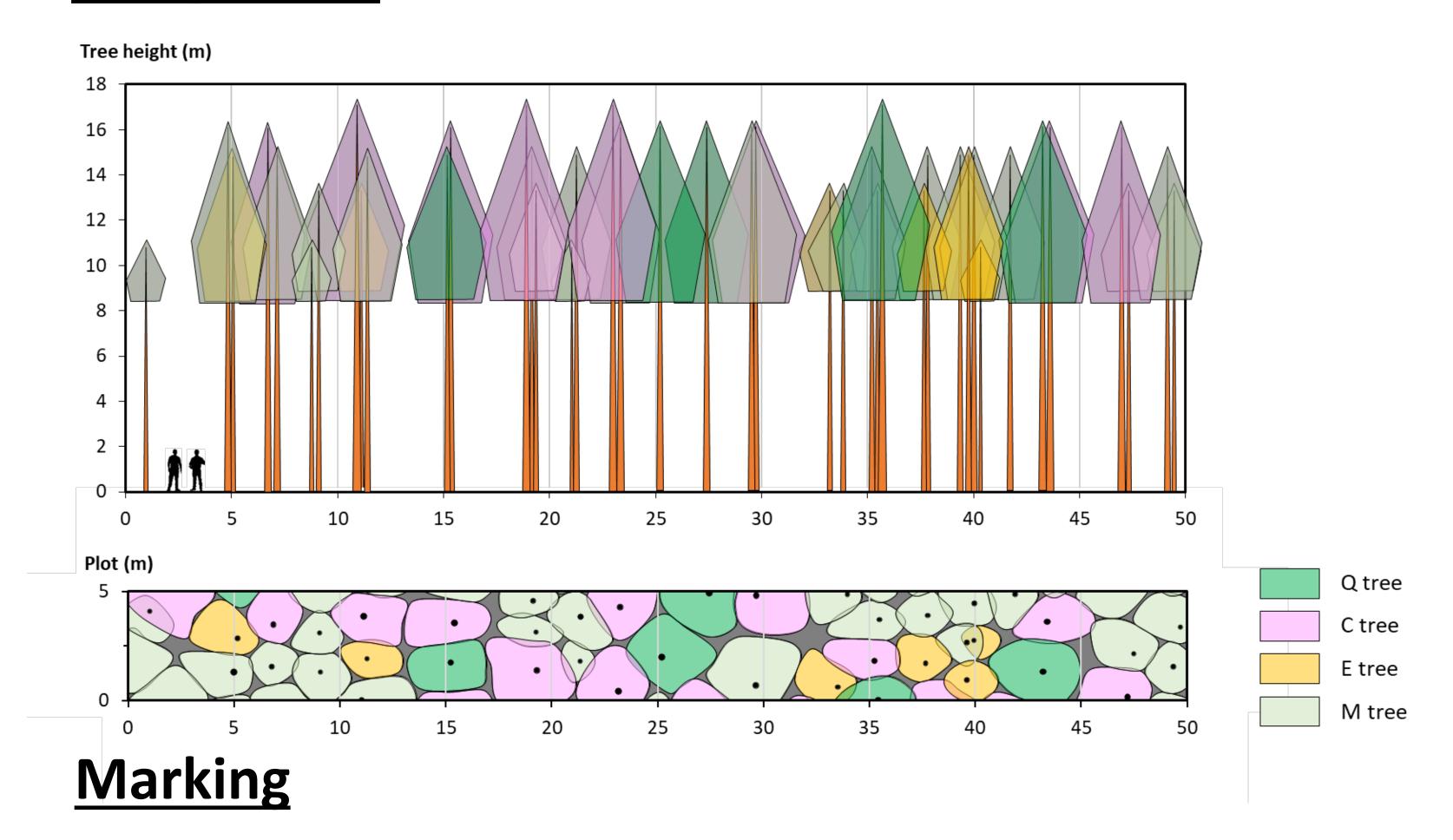


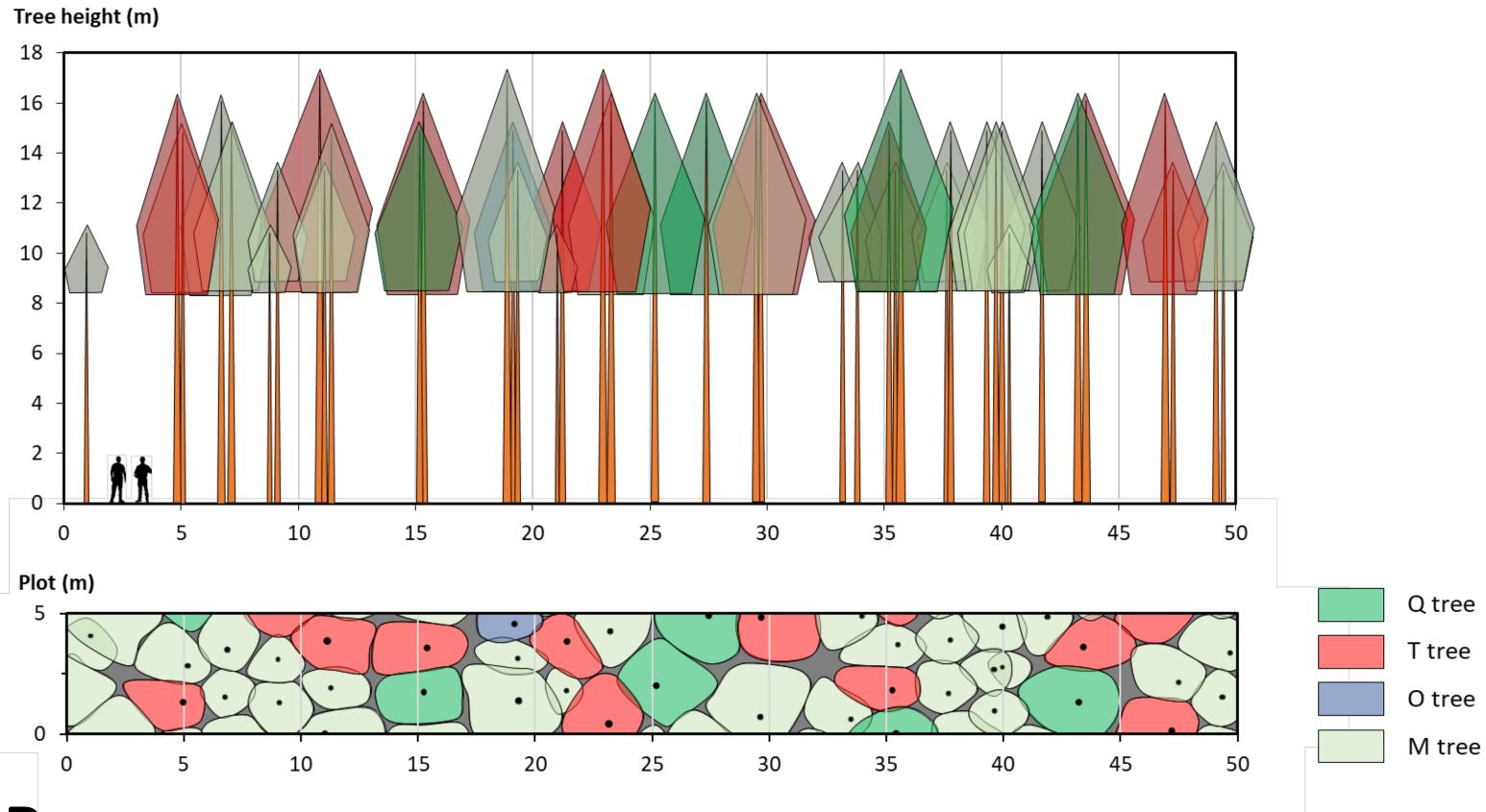
Marking Patterns



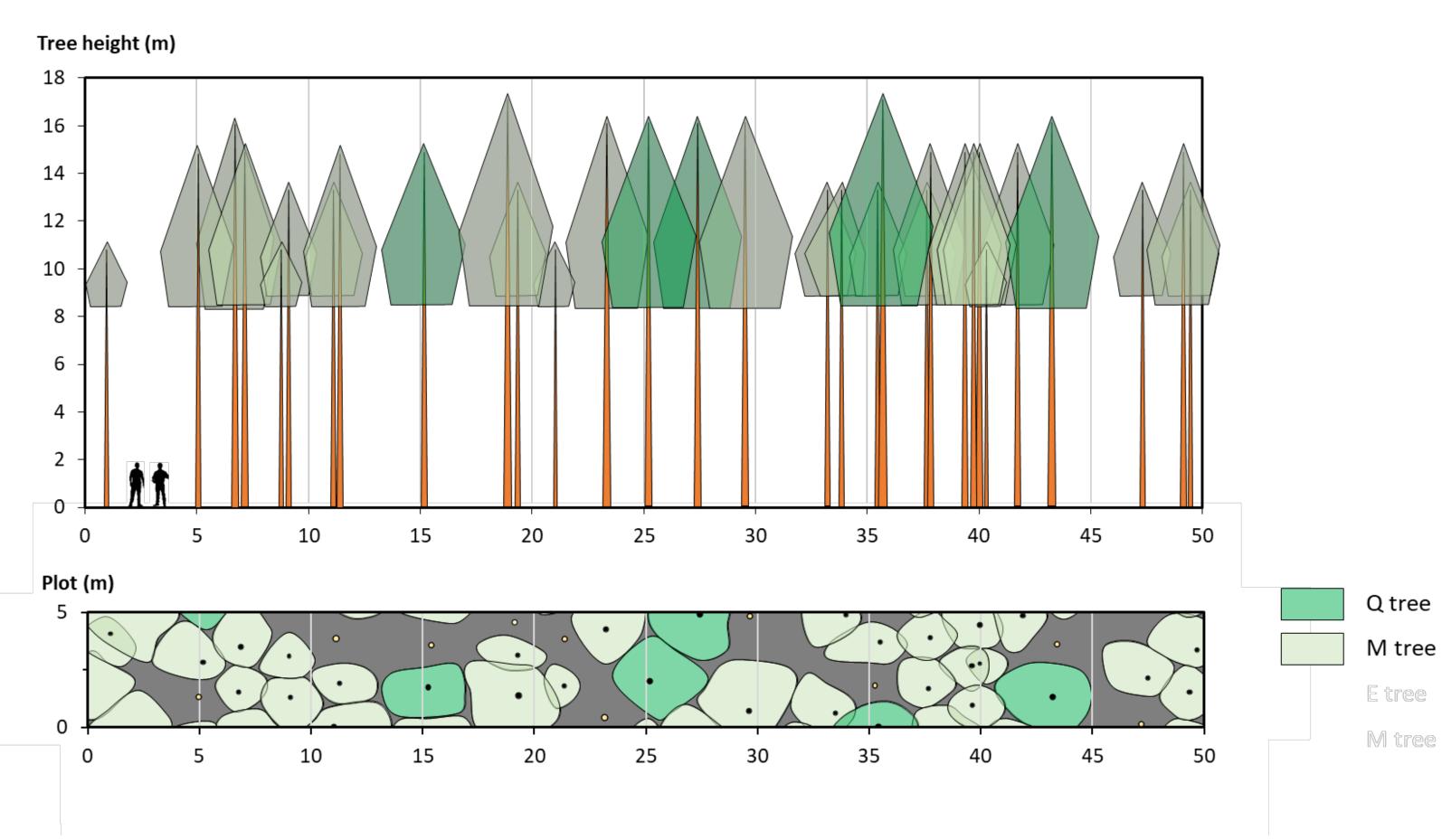
Tree Marking

Designation

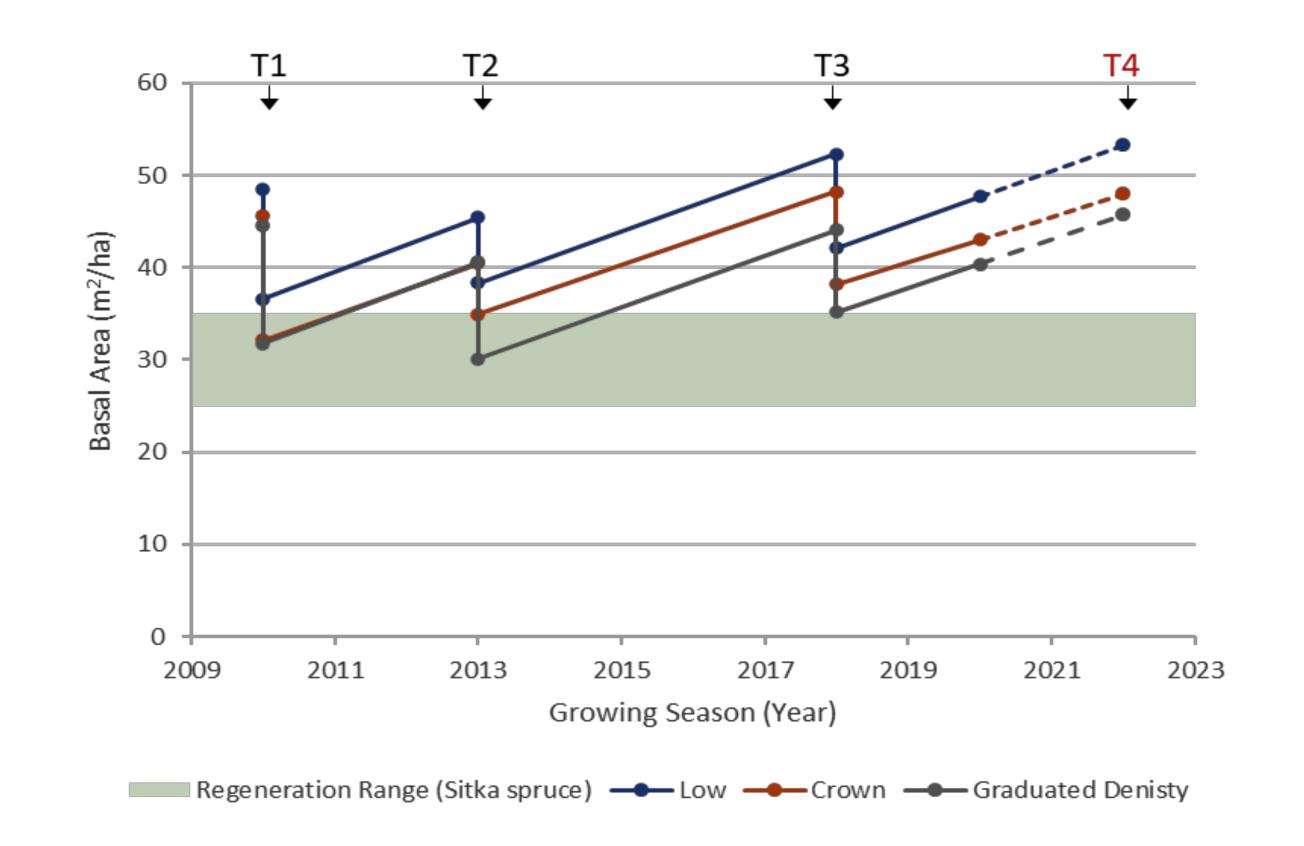




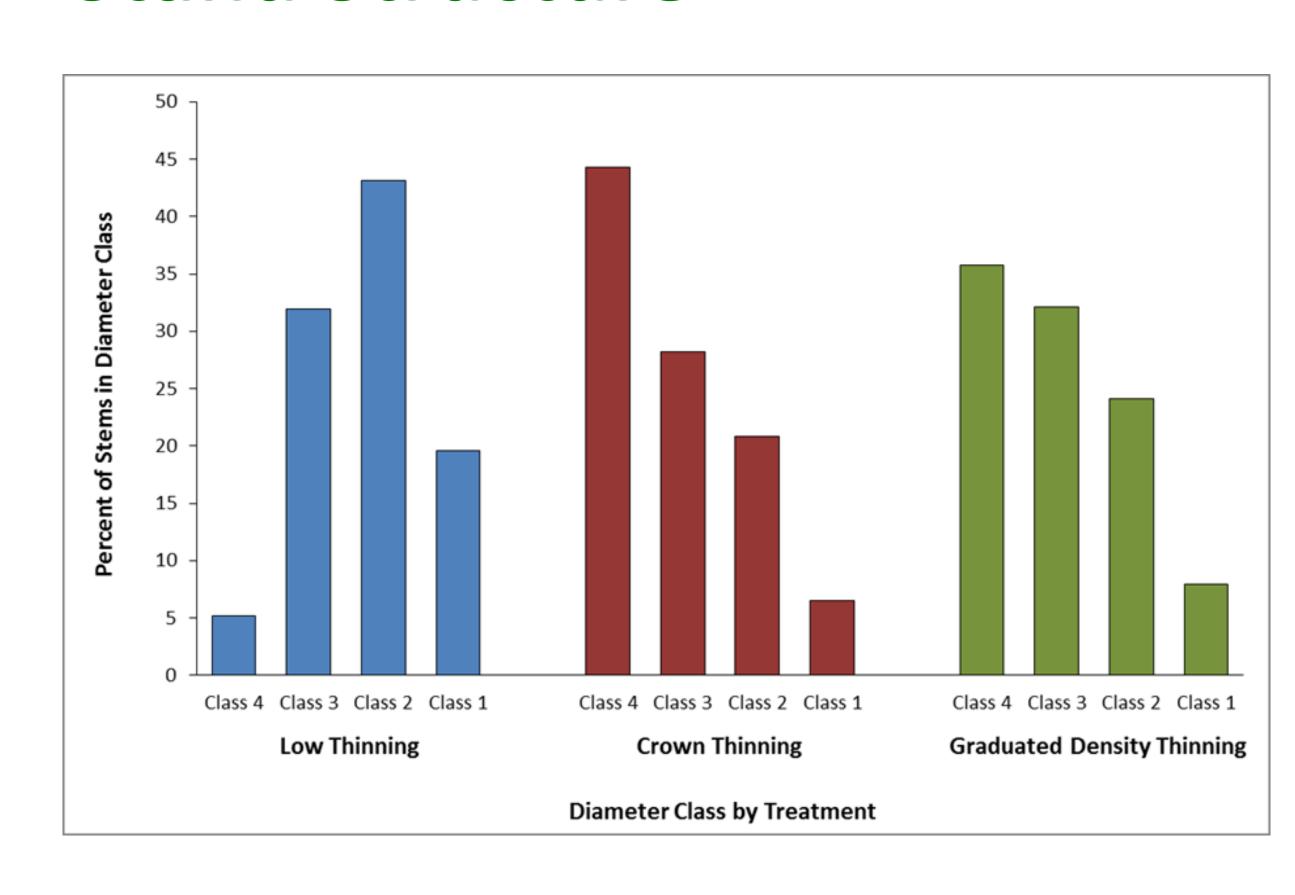
Response



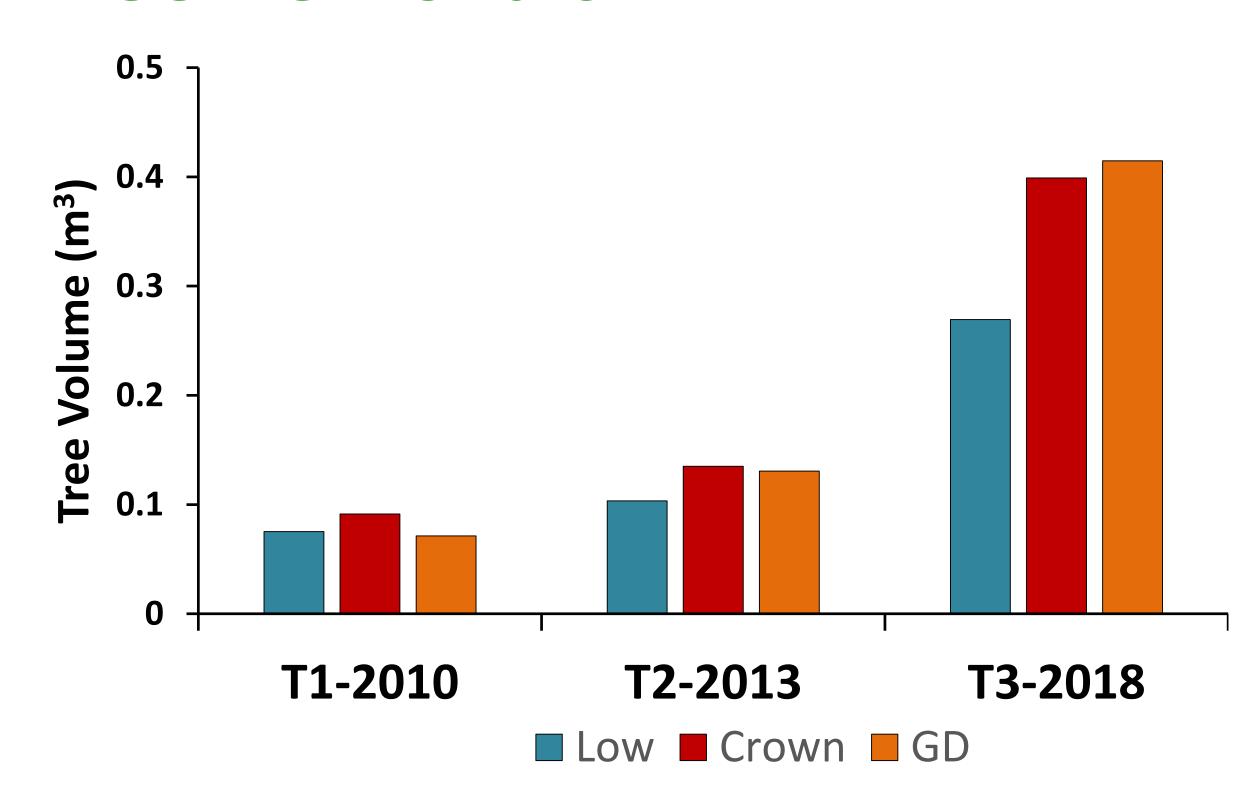
Basal Area Dynamics: Treatment and Within Plot



Stand Structure

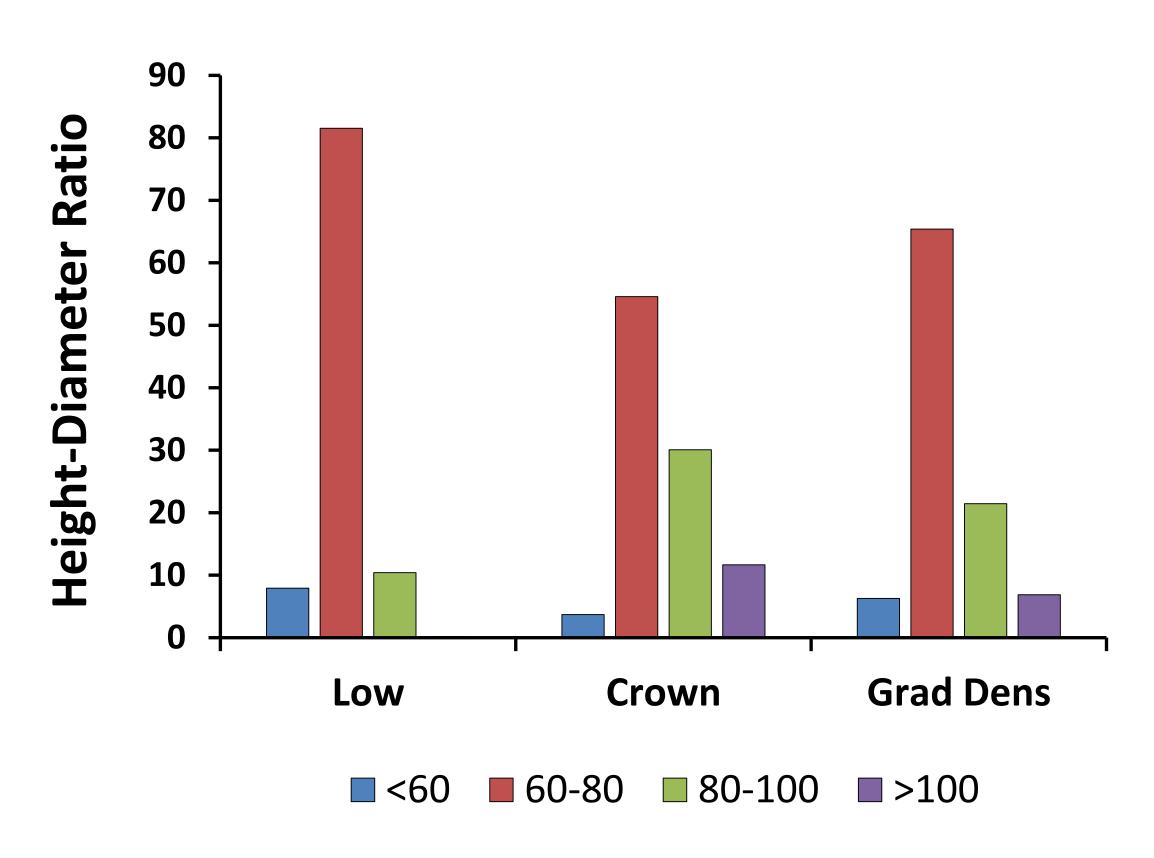


Tree Removals

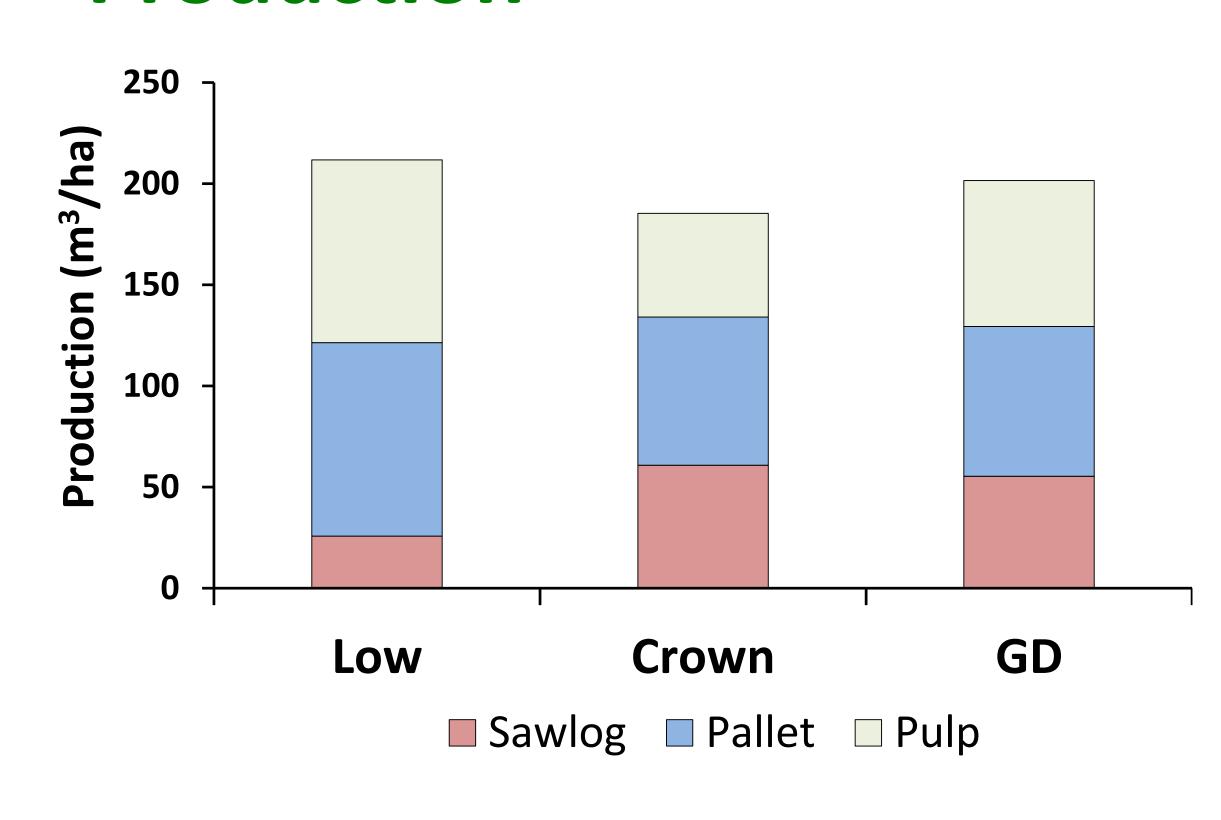


30 20 10 0 0 10 20 30 40 50

Stand Stability

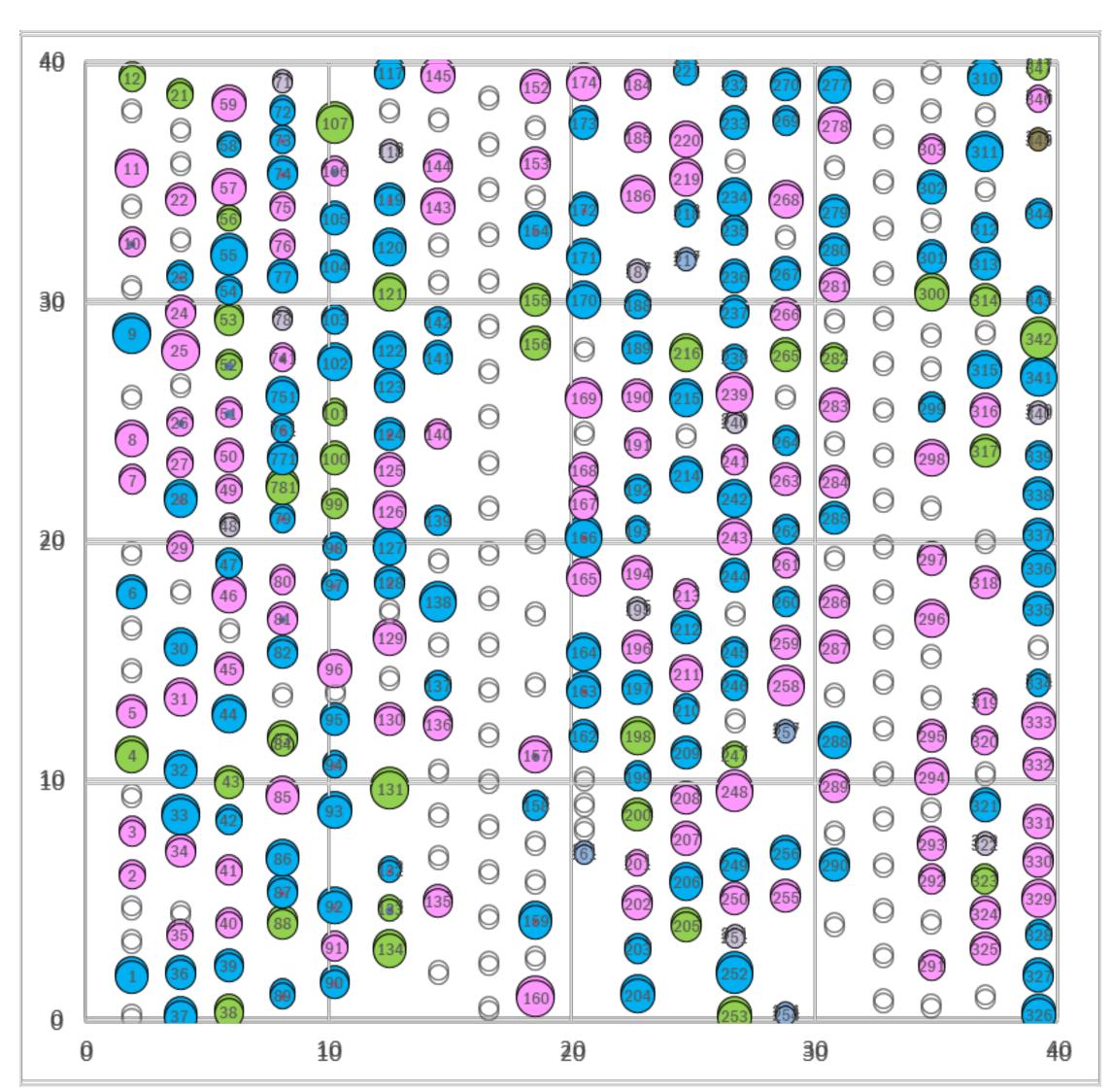


Production

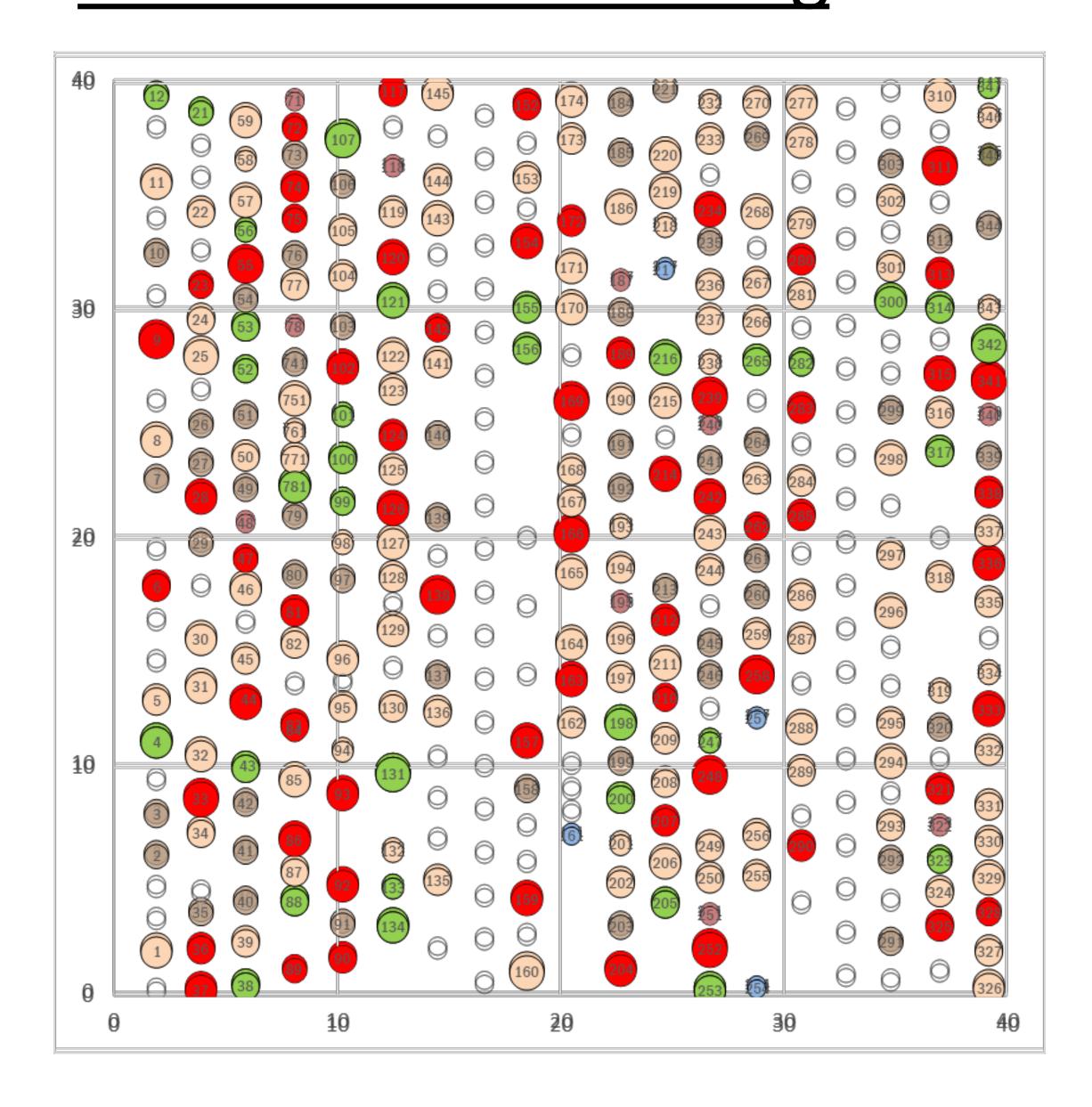


Silviculture Training: Tree Marking Study Checking Actual Marking by Trained Tree Markers

Independent Assessment of Tree Quality



Result of Tree Marking



- A/B Quality [Q trees]
- C Quality
- D Quality



v/V = 1.25

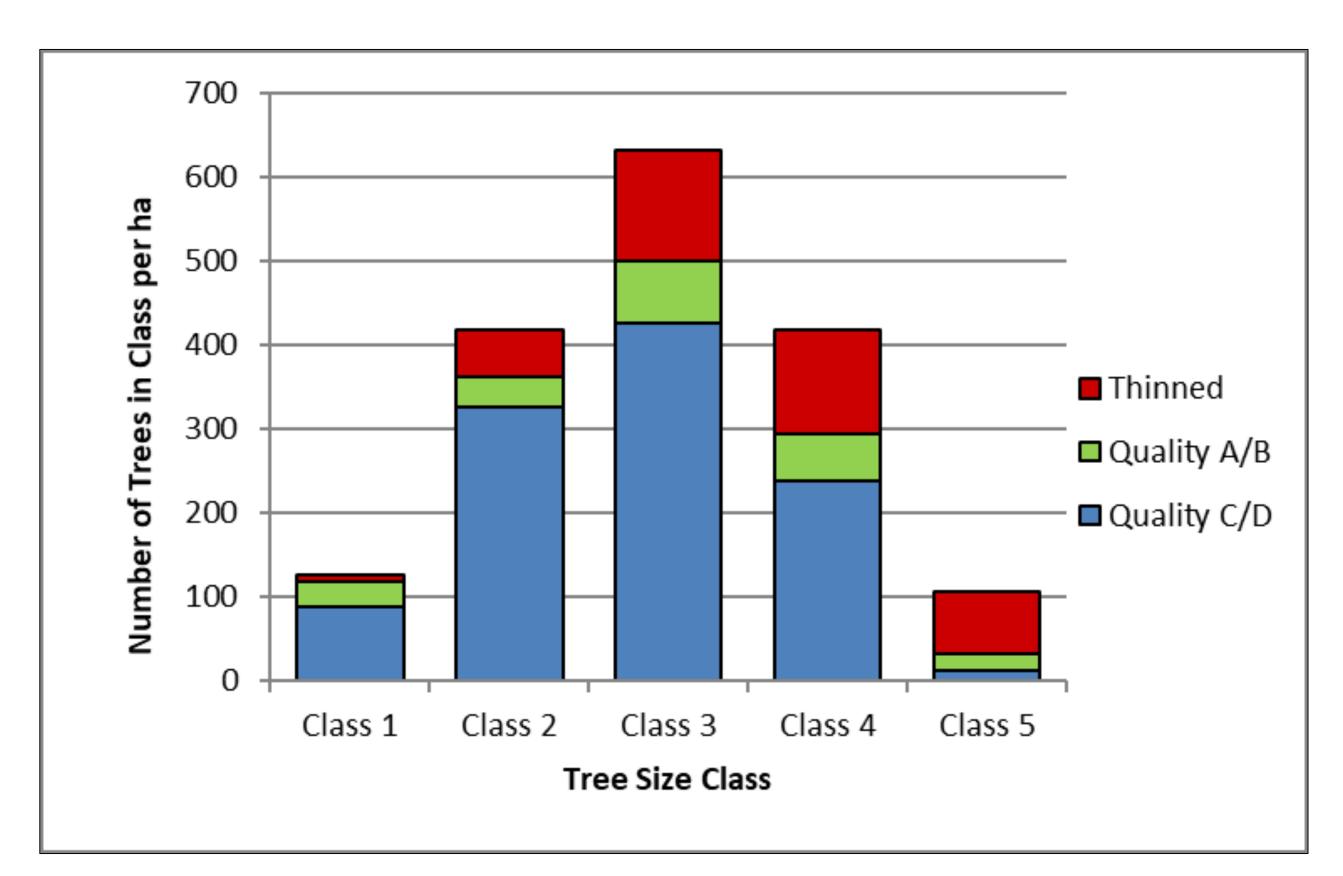


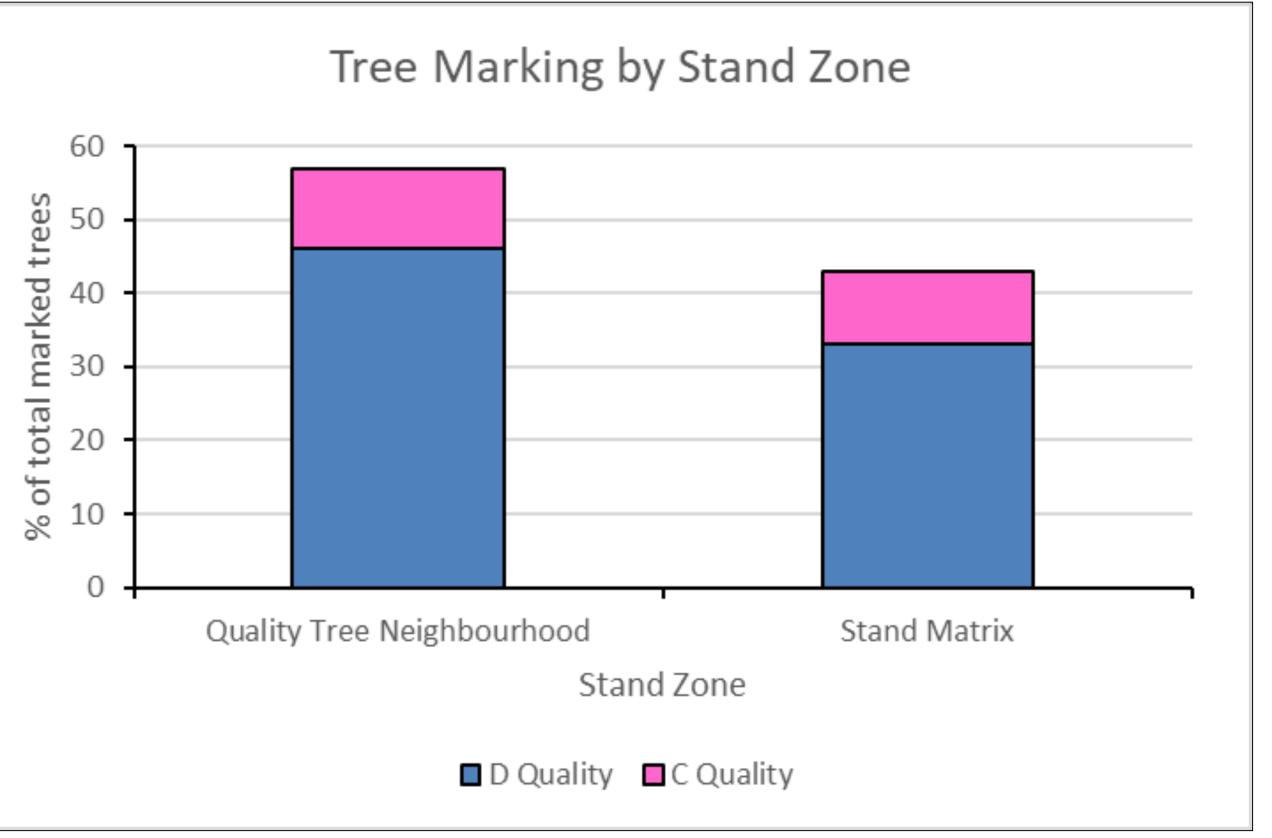


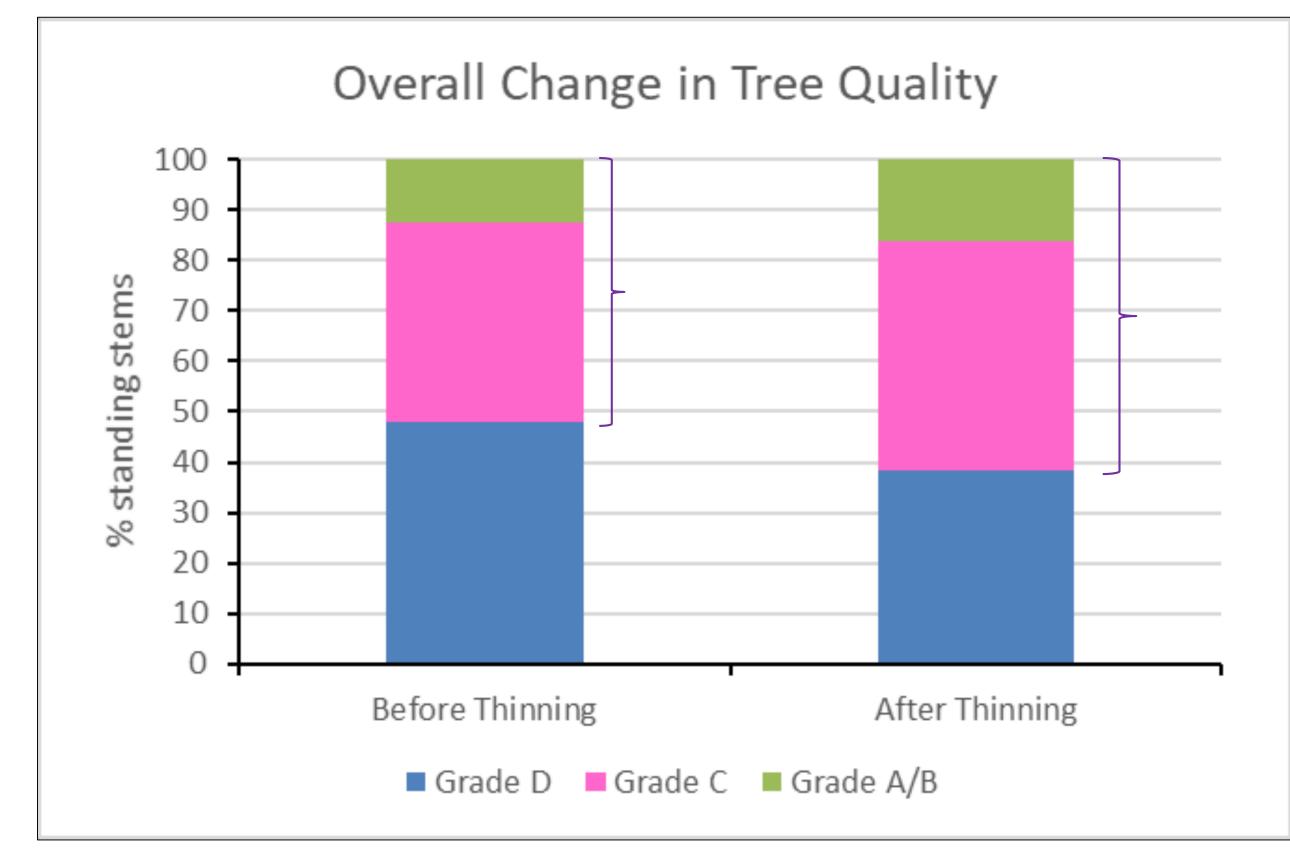
- A/B Quality [Q trees]
- Marked
- Other Trees



10% gain in Quality









Cloragn Woods

A working forest delivering value-added timber products and diverse ecosystem services

Owners Lucy Tottenham and Family





ELEVATION RANGE 50–300 m asl

ASPECT

South and south-west facing

EXPOSURE

Sheltered in lower areas Exposed on higher ridges and hilltop

SOIL TYPES

Alluvial soils along the valley Acid brown earths of various depths

Lithosols on rocky outcrops

PRECIPITATION

1078 mm/year (1984–2022)

ECONOMIC

Timber production Value-added products Film/TV location

ENVIRONMENT

Conservation of ecosystems Protection of soil and climate Promoting forest connectivity

SOCIAL

Recreation Education Training

LAND MANAGEMENT

Integrating forestry and organic sheep enterprises

Woodland Types

Native Woodland, including Devil's Glen pNHA (oak-birchholly woodland)

Coniferous and mixedspecies high forest

New plantations (established 2000)

Tree Species

CONIFERS

Sitka spruce, Douglas fir, Japanese larch, Scots pine, western hemlock and others

BROADLEAVES

sessile oak, beech, chestnut, sycamore, birch and others



Cloragh Woods

Owners Lucy Tottenham and Family





Management and Silviculture

FOREST HISTORY

- Tradition of active forest management
- Transformation to CCF introduced in 2005

STAND TRANSFORMATION

- Early stages: Crown thinning
- Later stages: Single-tree selection



TIMBER PRODUCTION

- General forest products
- Large-diameter logs
- Value-added and specialty products

DEER

- Species: Sika and Fallow
- Active population control



FILM/TV LOCATION

- Infrastructure and access
- Engagement and support

EDUCATION

Facilitating education and training





Enabling New Networks for Innovation in Silviculture

An Roinn Talmhaíochta,

Bia agus Mara
Department of Agriculture,
Food and the Marine





Knockrath Private Forest C19&20

Owners David Brabazon and Family Manager Paddy Purser

SPECIES

Douglas fir	63%
Japanese larch	17%
Sitka spruce	12%
Western Hemlock	
Sessile Oak & Beech	

KNOCKRATH FOREST

229 hectares	
Acid Brown Earth Soils	
1050mm rainfall annually	
Native Woodland Type = Sessile Oak / Birch / Holly	
In transition to CCF since 2005	



Interventions

2012

■ A+B POLES A+B **%** C+D **POLES** C+D



muret en pierre et bordure de la route principale

Az = 13 grd



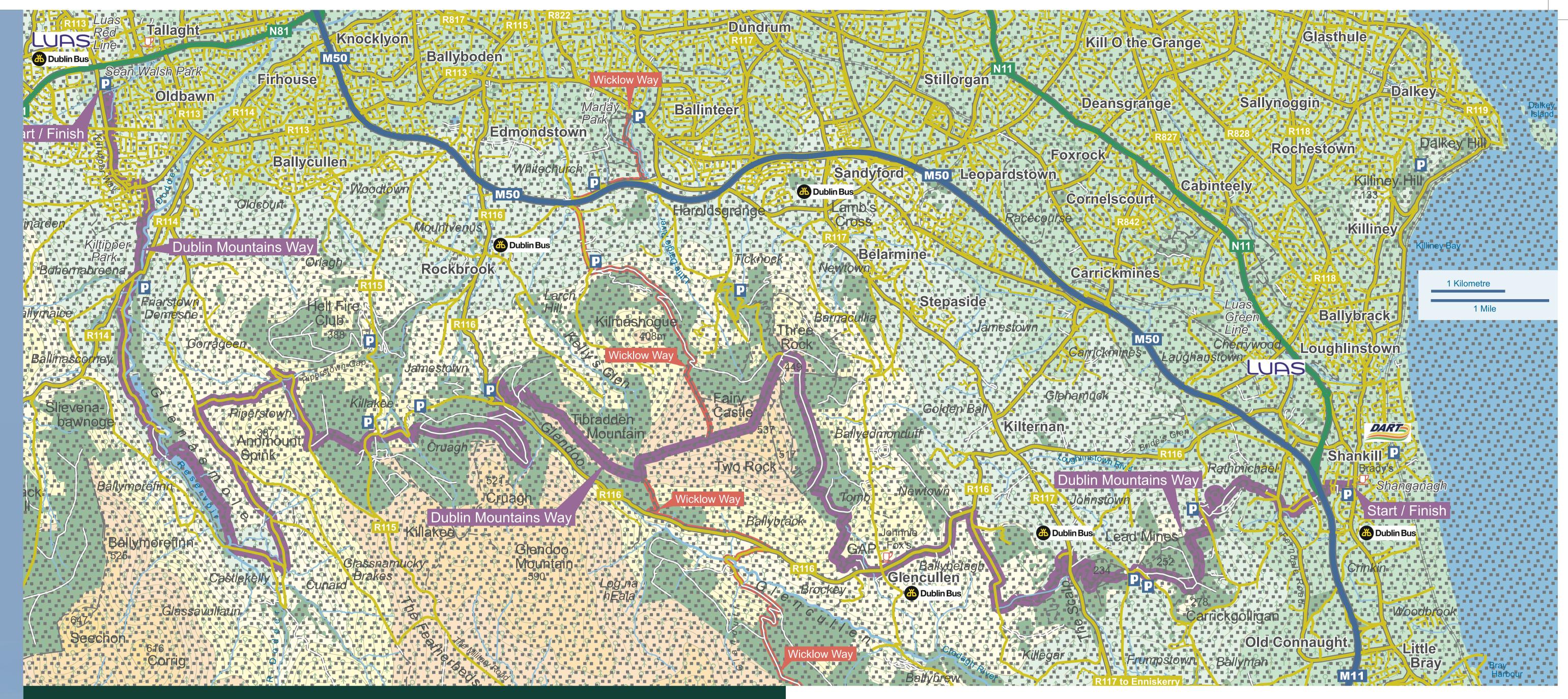


An Roinn Talmhaíochta, Bia agus Mara Department of Agriculture, Food and the Marine



The Dublin Mountains For People & Nature









The Dublin Mountains Partnership was formed in 2008 to improve the overall recreation experience of visitors to the Dublin Mountains in a sustainable way in the context of the local community and the natural environment.

KEY ACHIEVEMENTS 2008–2022

Influenced the initiation of the Dublin Mountains Makeover • Volunteer Ranger Service • 600+ free events for the public • Development & maintenance of recreation trails including 42km Dublin Mountains Way • Community engagement • Promotion of responsible behaviour • A model of partnership.

DMP PARTNERS 2008–2022

Coillte • Dún Laoghaire
Rathdown County Council •
South Dublin County Council •
Dublin City Council • National
Parks & Wildlife Service •
Dublin Mountains Initiative.



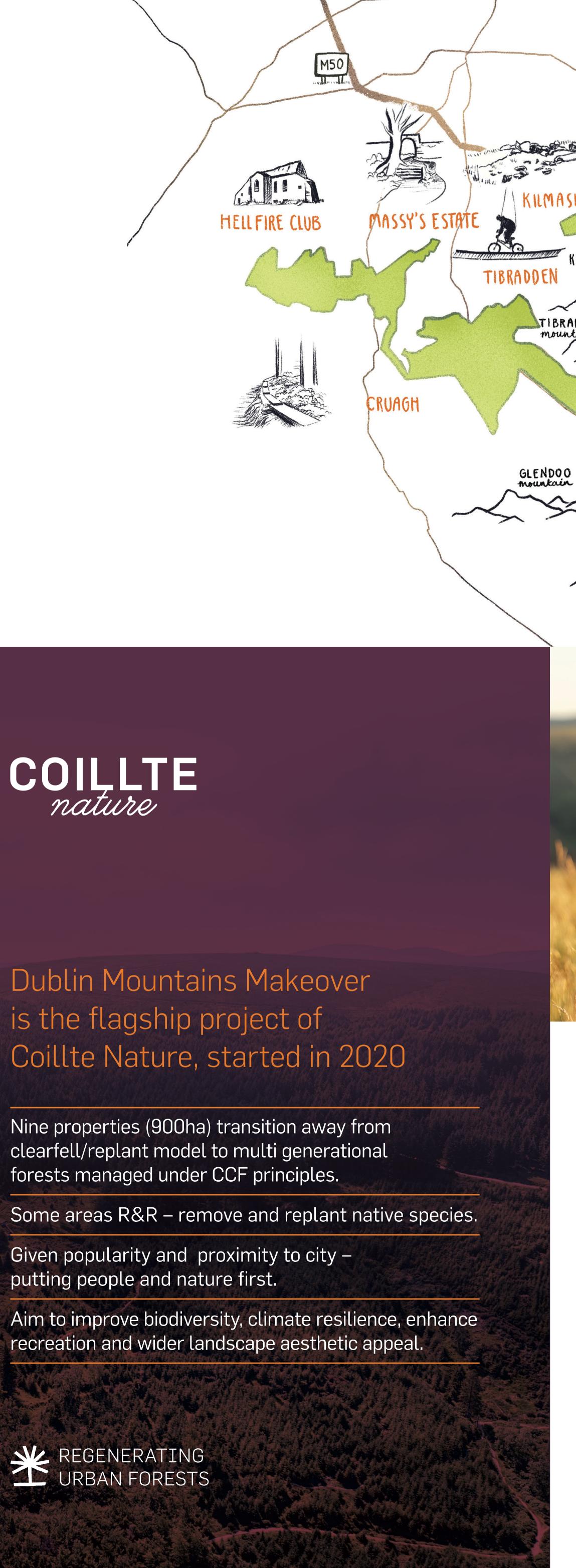


The Dublin Mountains For People & Nature

An Roinn Talmhaíochta,

Department of Agriculture, Food and the Marine

Bia agus Mara





COMMUNICATION

WITH THE PUBLIC

Emphasis on Stakeholder Engagement.

Signage, simple language, videos, community events.

CHALLENGES

CCF late-stage transformation of stands.

Low species diversity, deer, windblow.

Managing operations with high recreation usage.

Staff & contractor knowledge & experience.

BIODIVERSITY

CARRICKGOLLOGAN

Biodiversity management plans – forest & heath.

Long term monitoring plots: vegetation & fauna.











