

Trees Carbon Net Zero Plan

Trees Roadmap

Three Main Phases



Phase I: Supply (2021 – Q1 2023)

Key goals: Secure *seed supply* & develop regional *nursery framework*

Key values: Ensure *biosecurity* & identify *correct tree types*

Phase II: Planting (Q1 2022 – Q2 2024)

Key goals: Define *land use requirements* & planting mechanisms

Key values: *Higher sustainability and more accountability*

Phase III: Aftercare (Q1 2023 – Q1 2025)

Key goals: Define *sapling installation, aftercare & governance* process

Key values: *Less wastage and social value*

We need to establish **ownership** for all three phases – minimise risk of not sticking to our commitments prevents loss of reputation

Trees Roadmap

Key Goals and Main Actions

Value

Main Actions



Phase I: Supply

(2021 – Q1 2023)

- Ensure security of **seed supply**
- Limit breaches of **biosecurity**
- Identify optimal plants from **regional provenance**

Completed: Secure seed funding & kick-off with supplier

By Feb 23: Execution of regional nursery agreements



Phase II: Planting

(Q1 2022 – Q2 2024)

- **Reduce wastage** by landscape preparation
- Achieve **more accountability** by suppliers
- Develop **soft-estate/land strategy**

By Nov 22: Seed requirements and land analysis

By Jun 23: Soft estate/ land use management system

By Dec 24: Develop planting mechanism & operational process for tree allocation



Phase III: Aftercare

(Q1 2023 – Q1 2025)

- **Reduce wastage** by maintenance of trees
- **Enable accounting** and ability to track statistics on tree planting
- Generate **social value** from community projects

By Jun 24: Define sapling installation, aftercare management & governance process

By Dec 24: Identify/execute social value opportunities

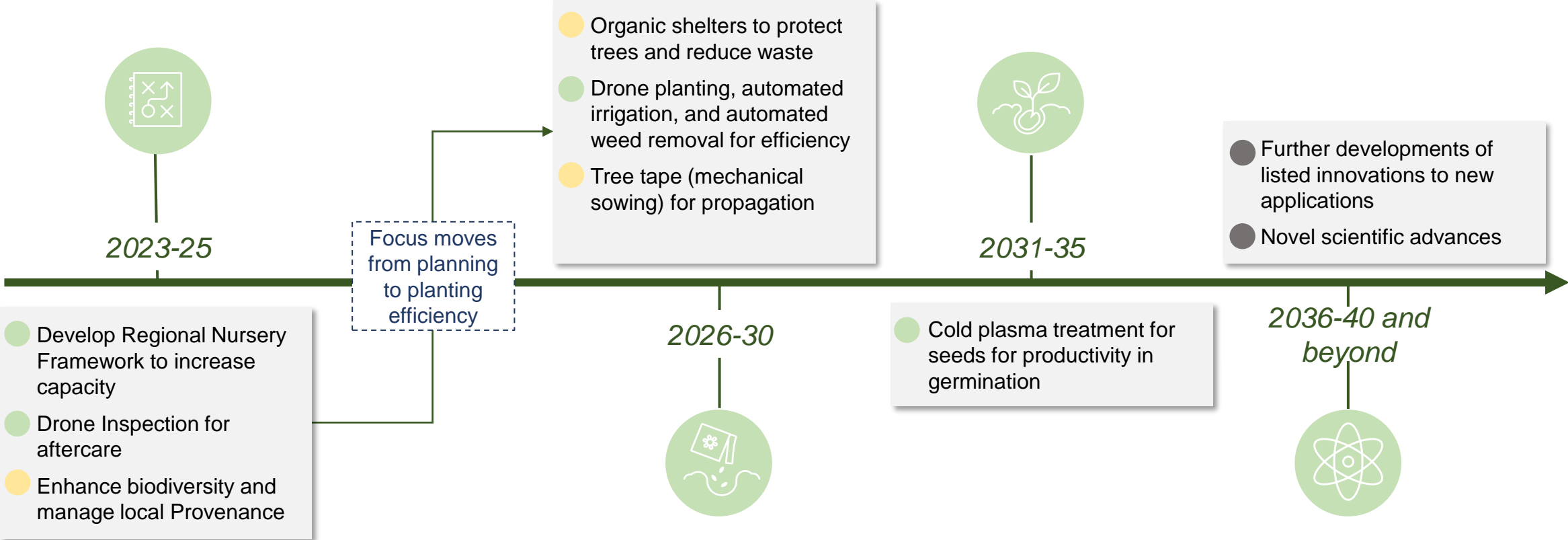
By Jan 25: Establish tracking & accounting mechanisms

Trees Roadmap

Detailed Timing Plan

	2022				2023				2024				2025			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Phase I: Supply	[Timeline bar for Phase I: Supply]															
Secure designated funds of seed supply	[Timeline bar for Secure designated funds of seed supply]															
Agree order methodology with seed supplier	[Timeline bar for Agree order methodology with seed supplier]															
Funding, execution & management of regional nursery agreements	[Timeline bar for Funding, execution & management of regional nursery agreements]															
Phase II: Planting	[Timeline bar for Phase II: Planting]															
Land analysis	[Timeline bar for Land analysis]															
Seed requirements	[Timeline bar for Seed requirements]															
Soft estate assets management system	[Timeline bar for Soft estate assets management system]															
Identification of planting mechanisms	[Timeline bar for Identification of planting mechanisms]															
Operational process for tree allocation	[Timeline bar for Operational process for tree allocation]															
Phase III: Aftercare	[Timeline bar for Phase III: Aftercare]															
Governance & business process	[Timeline bar for Governance & business process]															
Sapling installation & aftercare management process	[Timeline bar for Sapling installation & aftercare management process]															
Implementation of social value opportunities	[Timeline bar for Implementation of social value opportunities]															
Tracking progress & accounting mechanisms	[Timeline bar for Tracking progress & accounting mechanisms]															

NH needs to create a planting framework and implement planting innovations to meet its tree planting targets



There are several technology innovations currently visible for planting trees more effective and efficiently

● Higher Impact
 ● Lower Impact
 ● Unknown Impact

Target
additional
3m Trees by
2030

Tree Value Stream for Carbon Roadmap

How to achieve NH's tree planting goals from the status quo?



Supply



Planting



Aftercare

	Current Status	Future Status	Value Statement	Actions to achieve NH goals
Supply	<ul style="list-style-type: none"> No control on seed/plant shoots supply, and nursery processes Limited strategy for soft estate usage 	<ul style="list-style-type: none"> NH procures and supplies its own seeds for additional 3m trees NH creates nurseries framework for planting control and capacity expansion on regional basis 	<ul style="list-style-type: none"> Security of supply, can define tree types, regional and local provenance, limit breaches of biosecurity 	<ul style="list-style-type: none"> Identify landscape contractors Central approach of E2E SC Secure seeds/sapling demand Understand/define soft-estate strategy Define tree demand profile Regional nursery framework
Planting	<ul style="list-style-type: none"> Tier 1 responsibility, planting outsourced to T2/T3, Scheme by scheme approach Specification insufficient, risk of biosecurity issues e.g. disease High rate of waste e.g. tree failures 	<ul style="list-style-type: none"> NH identifies key stakeholders for operations and assesses outsourcing options NH framework for planting ties into aftercare, removing planting responsibility from T1 suppliers 	<ul style="list-style-type: none"> Lower wastage (tree failures), more sustainable, more accountability, drives innovation, potential social value from community projects No handover needed if outsource management process 	<ul style="list-style-type: none"> Reduce waste/ dying trees Introduce a programmatic tree planting approach, not just on project timeline Enhance diversity and manage local Provenance Identify soft/estate and engage NH sector scheme qualified landscape
Aftercare	<ul style="list-style-type: none"> Aftercare 2 years depending on construction agreements No formalized hand over procedure from T1 to NH No coordination to decentralized staff No definite records of planting history or failure rate 	<ul style="list-style-type: none"> Introduction of environmental KPIs to report and deliver against defined performance metrics for soft estate condition Minimum 5 year aftercare period, as a standard Formalized handover procedure to OD 	<ul style="list-style-type: none"> Less wastage, more sustainable planting, accountability 	<ul style="list-style-type: none"> Manage and control by introducing environmental KPIs Increase aftercare in agreements to min. 5 years Enable early engagement of OD Introduce monitoring innovations e.g. drones to improve landscape management