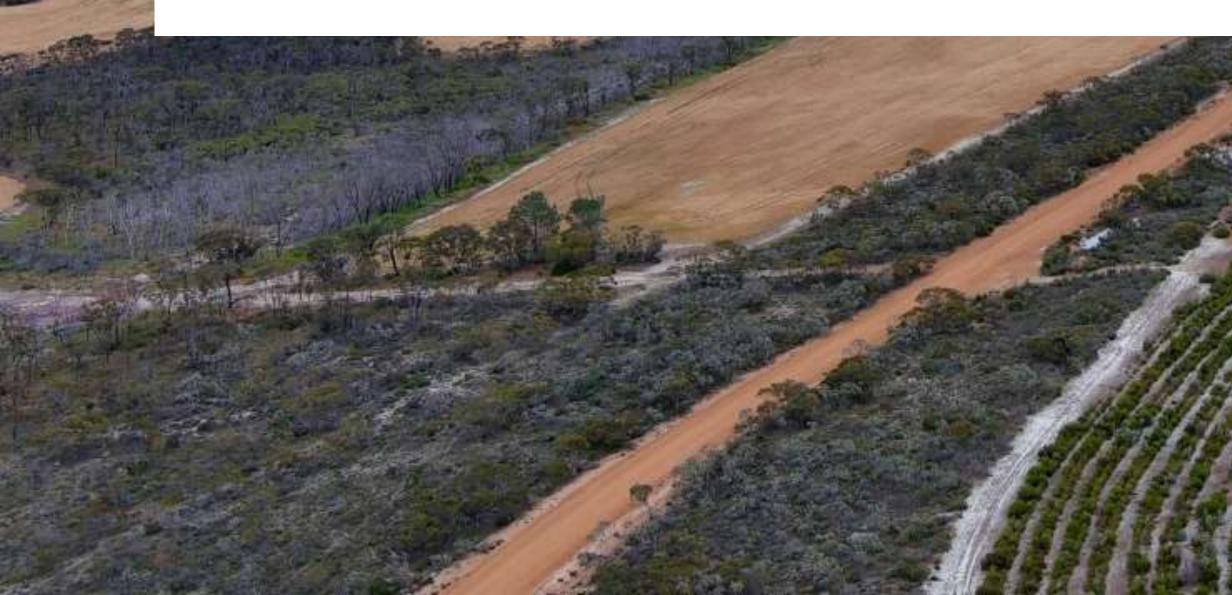
Scaling up Restoration in Australia

A Greening Australia Perspective







What does 'scale' mean for Restoration?

'Effective restoration' - IMPACT

Impact Objectives:

1. Increase total **area**

restored, aiming for

reconnection of areas under

native cover

2. Increase representativeness

of biodiversity restored

3. Increase condition,

resilience and longevity of Greening Australia

restored sites



Implementation



Seed



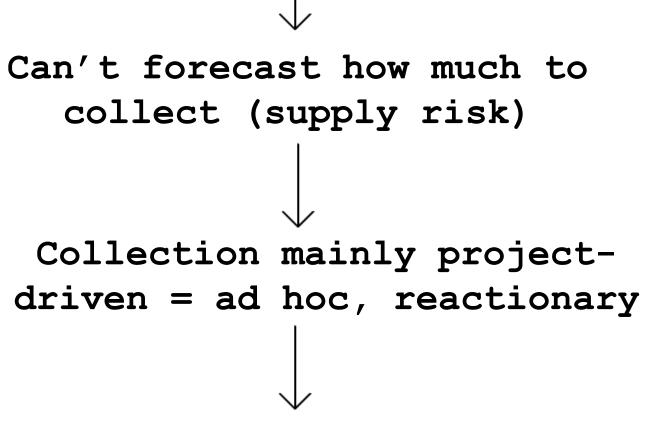
1. Native Seed Industry - barriers to scale

Demand coordination across the sector is

Seed collacting



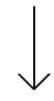
Uneven Demand



Seed Industry



Low native seed storage of any volume



Low diversity (both species and genetic)

High-risk, specialised skills, ageing workforce



WITHOUT SEED THERE IS NO RESTORATION



Low capacity for biodiverse and climate resilient restoration





1. Native Seed Industry - ways forward

National coordination and investment

1. Coordination and communication of demand signals across the sector (e.g. coordinated government body overseeing restoration networks and making information available) 2. Untied Funding to support seed collectors and seed storage

3. Development of restoration seed banks and SPAs especially for rarer species and genetic diversity













2. Land Access - barriers to scale

Land access depends on landholder decision to grant it

Landholder Objectives

- **Profitability -** what will this cost me?
- **Resilience -** will this benefit my land (& family) in the long term?
- Productivity is this the best use of my land or will it trade-off against productivity?



Aligning Restoration Objectives with Landholder Objectives



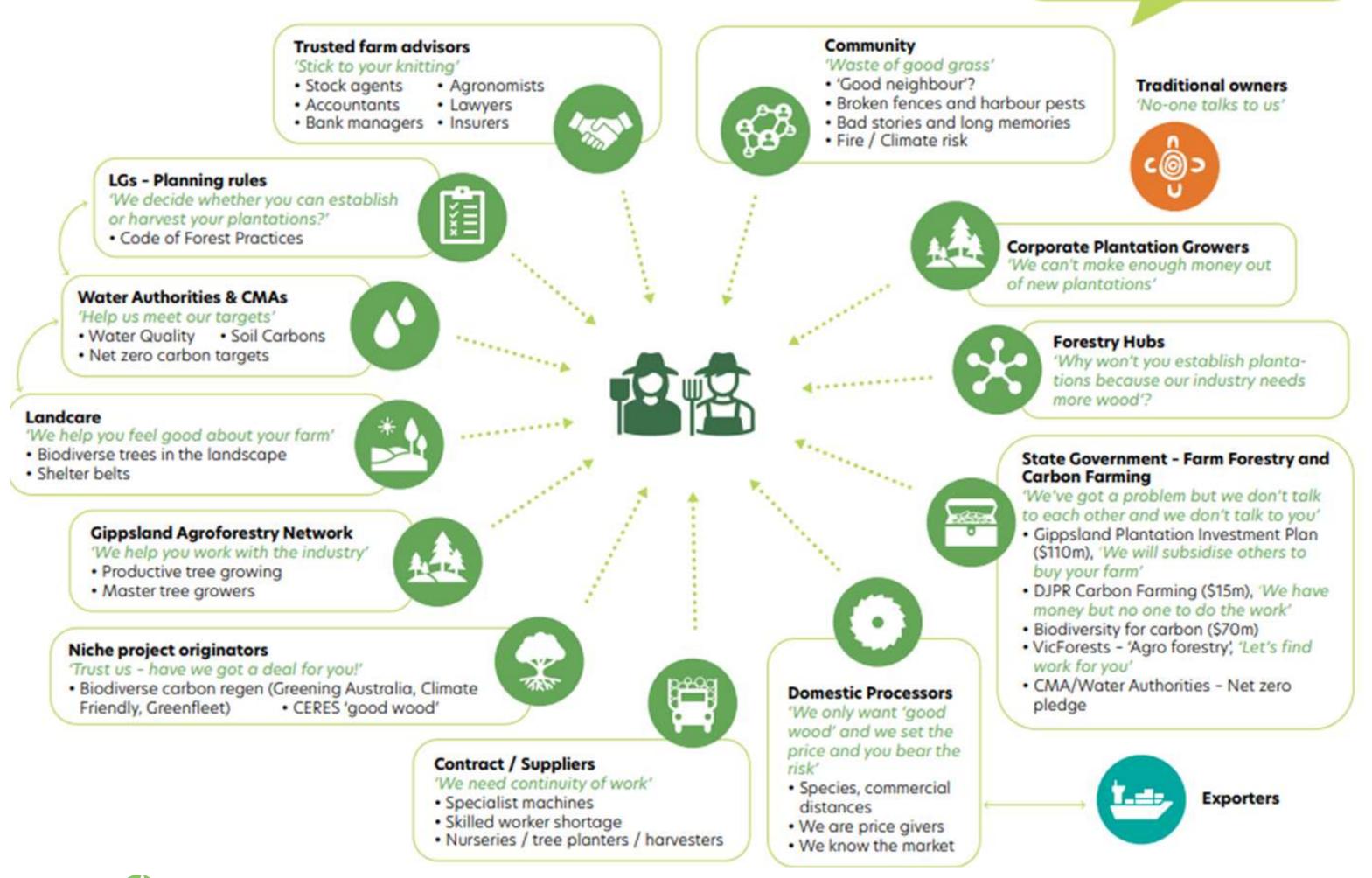
Restoration Land Objectives (Impact)

- Location where it's most effective for ecological change - connectivity & biodiversity potential
- Size large enough to make a difference, i.e. block versus linear, larger % of property, aggregation potential



2. Land Access - barriers to scale

Stakeholder insights and key themes What are farmers currently hearing?





Messages relating to the value that trees bring landholders are neither co-ordinated, consistent nor landholder centric.



• Un-coordinated policies

How do they compare? Which is best for me?

• Immature markets

Do I wait? What is my risk?

• Family legacy and consensus

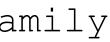
Will this be a burden for my family

down the track?



Source: Gippsland Forestry Hub (2022)





2. Land Access - ways forward

Tip the balance so that landholders acting in private interest results in a pu

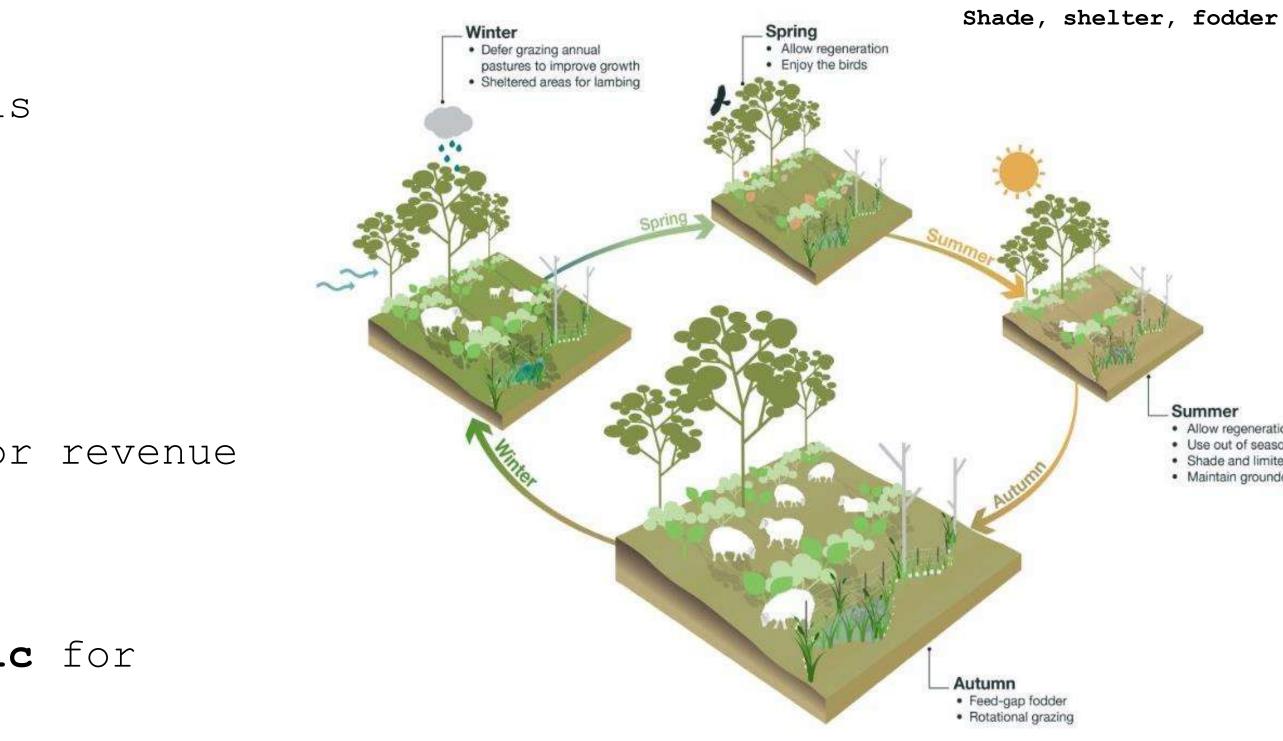
1.Effective Communication of Cost-Benefit Context

- Case studies, evidence (data) of Natural Capital farm benefits
- Access to Natural Capital Accounting tools

(e.g. Farming for the Future)

- 2. Access Financial Capital
 - Connect landholders to markets
 - Benefit sharing return carbon credits or revenue
- 3. Valuing Environmental Benefits
 - Restoration co-designed and people-centric for shared value
 - Align project outcomes with collective impact for a

shared vision **Greening** Australia











Summer

Allow regeneration

 Use out of season rainfal Shade and limited grazing

3. Restoration Implementation - barriers to

Good restoration is getting harder and outcomes more

1. Multitude of Threats to Overcome:

- Seasons changing and windows unpredictable
- Unprecedented frequency of shocks drought, flood, fire
- Invasive species and pests are increasing
- Decision making under great uncertainty what used to work once is not gu

2. Limited Knowledge Transfer:

- Short-term projects delivery focus, fewer resources for M&E and research
- Ageing workforce knowledge base
- Adaptive capacity is low

3. Private-sector Funding Supports INPUTS not OUTCOMES:

- Market-based funding selects more marginal and degraded starting states
- Mis-alignment between market compliance and implementation and ecological needs
- Funding instruments fall short of managing for spatial and temporal threats



variable











3. Restoration Implementation - ways forward

Enablers of Efficiency and Effectiveness

1.Governance to support restoration success

• Landscape-scale strategies to address threats beyond project-scale (e.g. invasive plants and pests)

2. Regulation and Standards - science and practice input into policy Funding that rewards **best practise** and **effective**

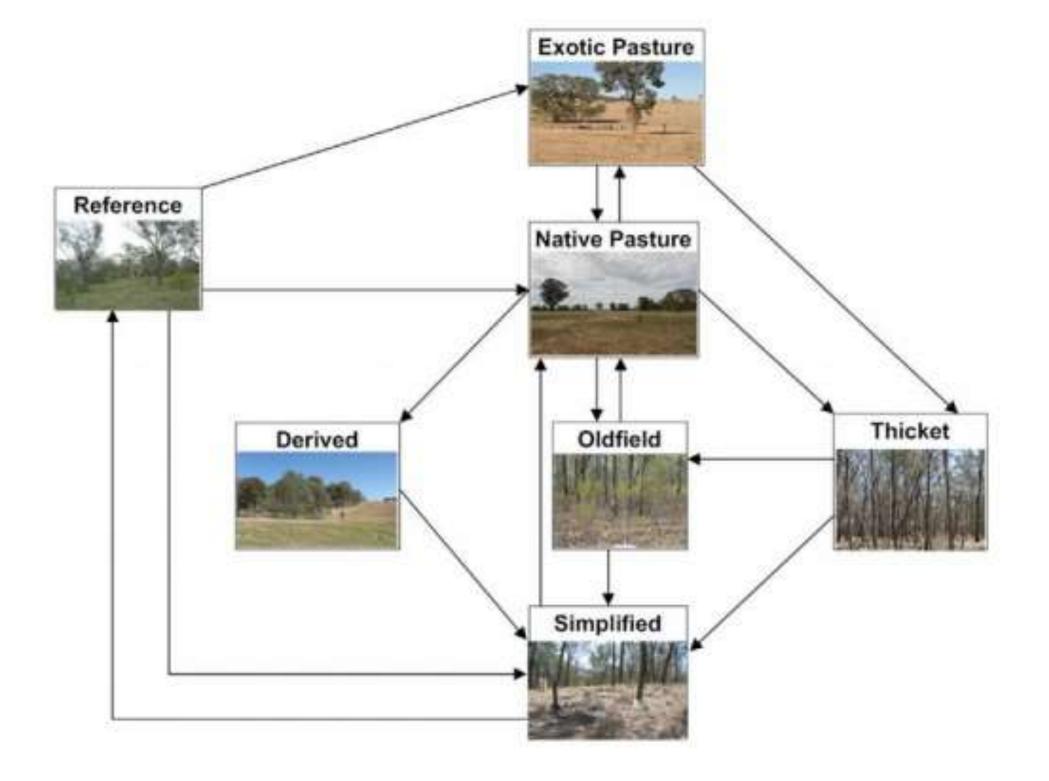
restoration

- Conceptual Framework of best practise
- Theory of change models:
 - Knowledge transfer
 - Predict time-bound "success" targets ecological

evaluation

• Communicate opportunities, uncertainty, and guiding **Greening** Australia actions





A conceptual state-and-transition model for non-riparian woodlands adapted from Rumpff et al 2010 Biological Conservation







Summary

Seed - Demand coordination across the sector is lacking

Coordination and communication of demand signals across the sector

Funding for seed collectors, seed s cies/genetic Land - access depends on landholder decision to grant it

Effective Communication of Cost-Benefit Context Access Financial Capital

aligned with collective strategy

Implementation - Good restoration is getting harder and outcomes more variable Governance to support restoration success Science and practice input into policy

