



Restoring landscapes with forests:
a new wood-production paradigm.

Ben Boxshall

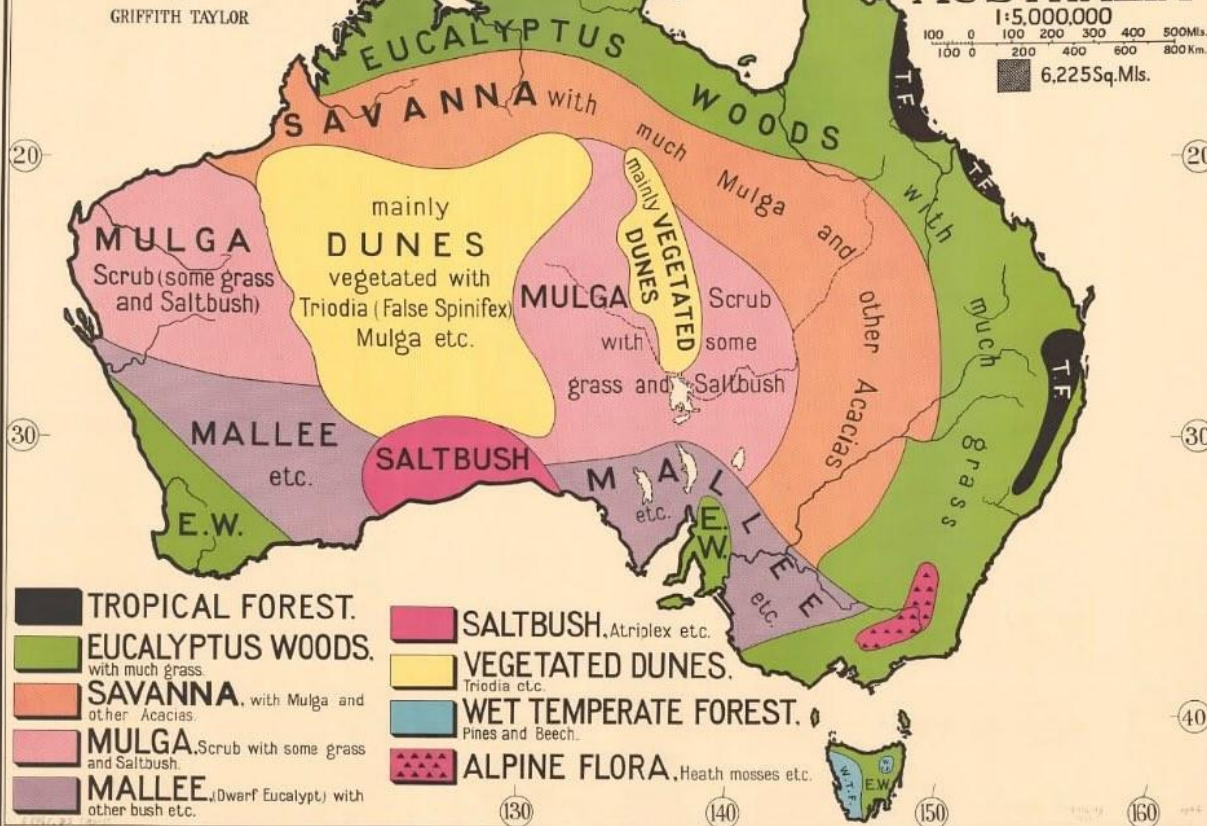


wood4good

BY
GRIFFITH TAYLOR

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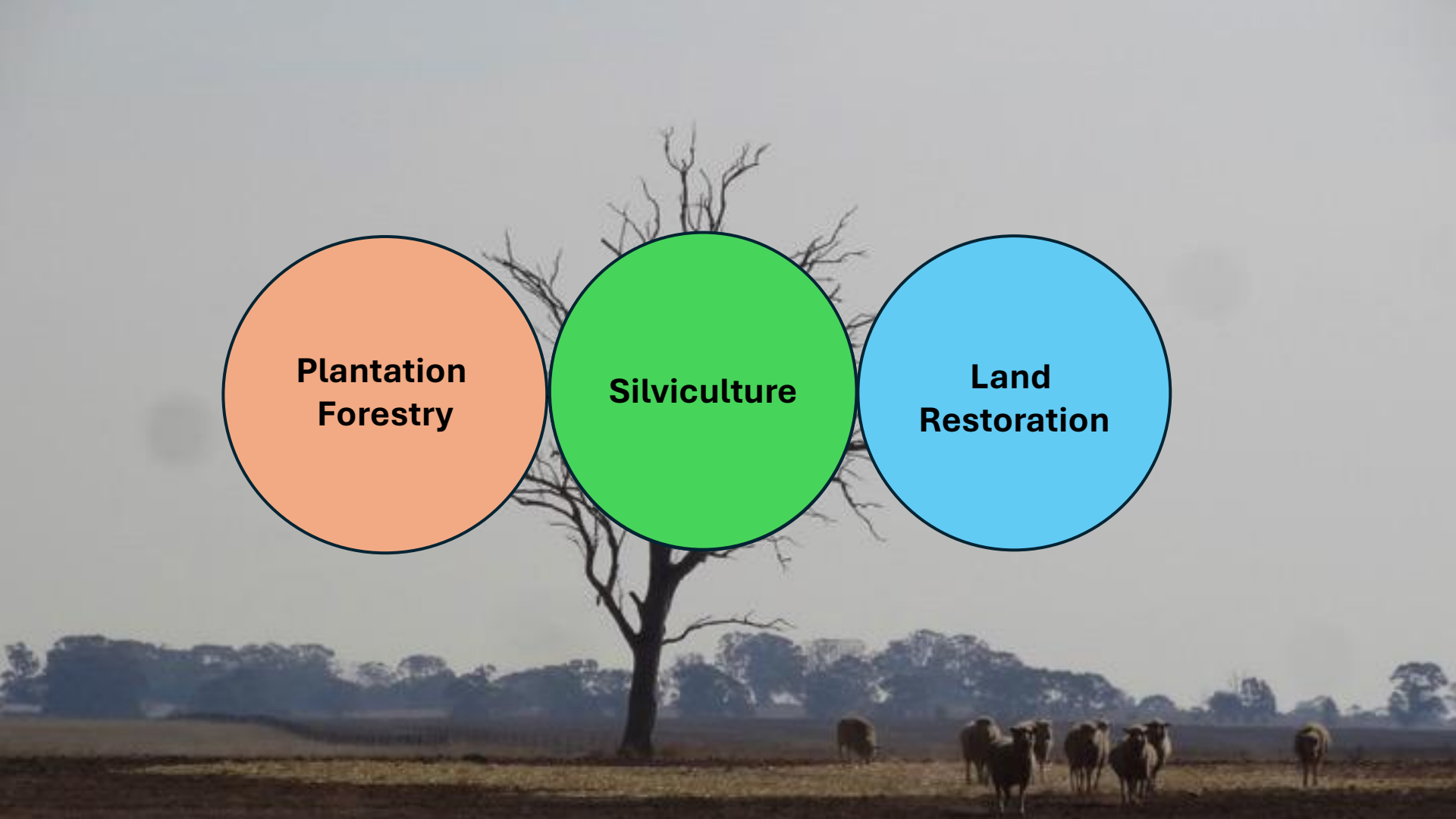
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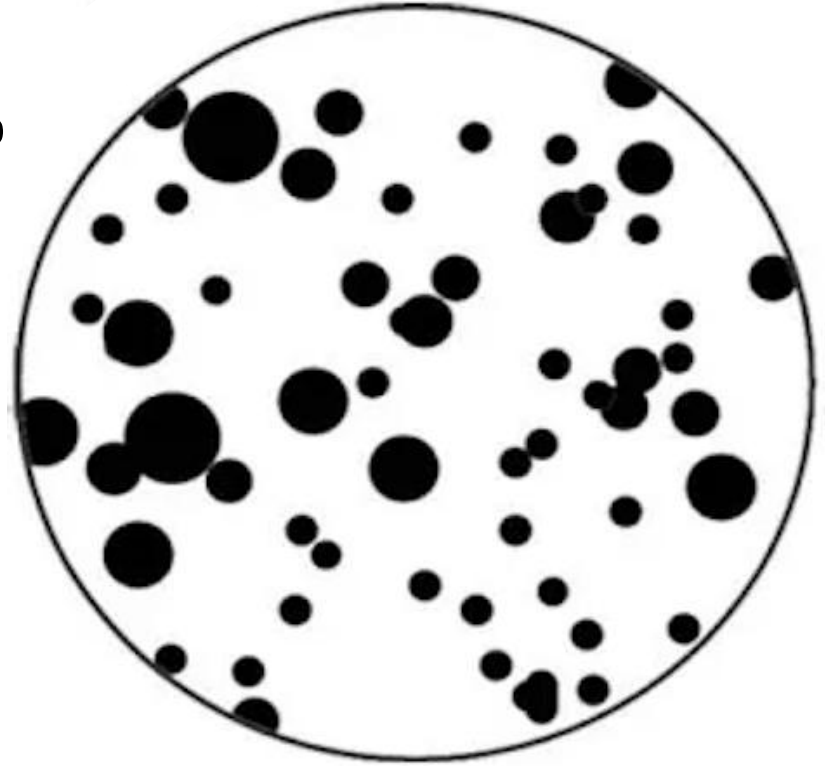
**Plantation
Forestry**

Silviculture

**Land
Restoration**

What is reforestation?

Technically, it is restoring >20% tree (crown/leaf) cover on land that previously supported forest.

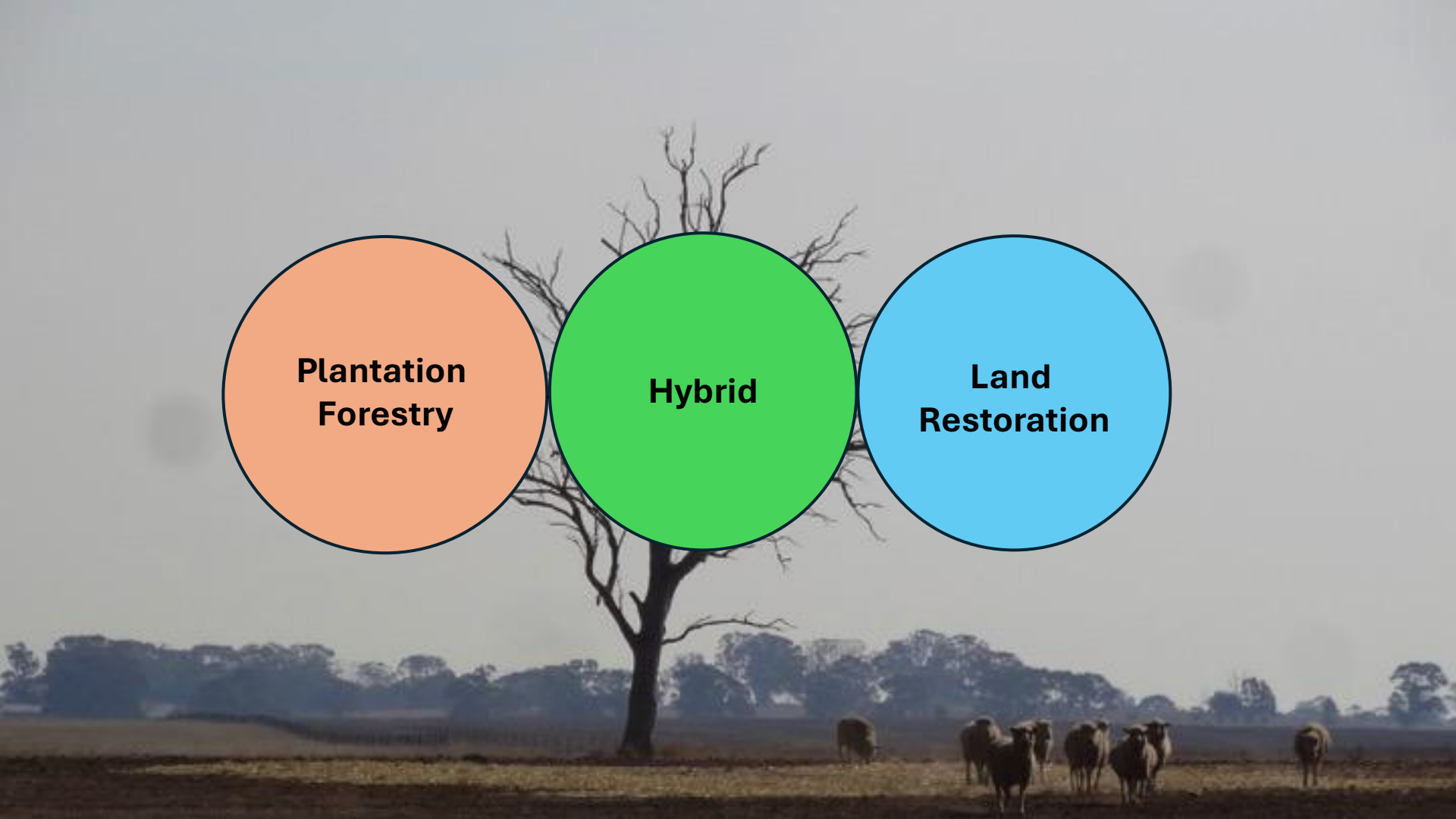


What is silviculture?

The purpose of silviculture:

To manage forests for a variety of goals, including timber production, habitat supply, and maintaining a healthy ecosystem.



The background image shows a rural landscape with a large, leafless tree in the center. In the foreground, a group of sheep is grazing in a field. The sky is overcast. Overlaid on the image are three large, colored circles with black outlines. The left circle is orange and contains the text 'Plantation Forestry'. The middle circle is green and contains the text 'Hybrid'. The right circle is blue and contains the text 'Land Restoration'.

**Plantation
Forestry**

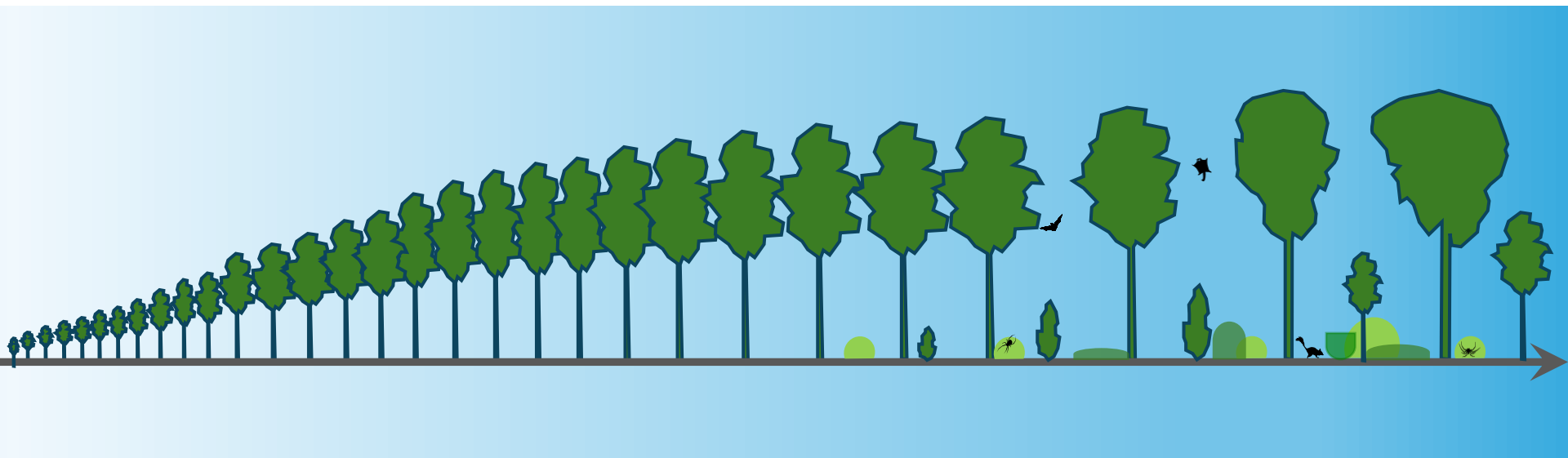
Hybrid

**Land
Restoration**

BushBank benefits (100-year permanence)	Hybrid model
Biodiversity conservation	✓
Carbon sequestration	✓
Enhanced water quality	✓
Improved soil health	✓
Income opportunities	✓
Reduced wind speeds & erosion	✓
Improved shelter & pastoral productivity	✓
Reduced run-off of nutrients & pesticides	✓

Plantation forestry benefits (25-year permanence)	Hybrid model
Wood production	✓
Carbon sequestration	✓
Income diversification	✓
Employment	✓
Reduced wind speeds & erosion	✓
Improved shelter & pastoral productivity	✓
Reduced run-off of nutrients & pesticides	✓

Comparative benefits of a hybrid reforestation model (100-yr permanence)	Yes?
Perpetual production of a diversity of forest products	✓
Bigger carbon yields (longer rotations)	✓
Improved intrinsic biodiversity outcomes (productivity / heterogeneity)	✓
Improved extrinsic biodiversity outcomes (protection & connection)	✓
Soil, waterway & catchment protection	✓
Improved shelter & pastoral productivity	✓
Reduced run-off of nutrients & pesticides	✓





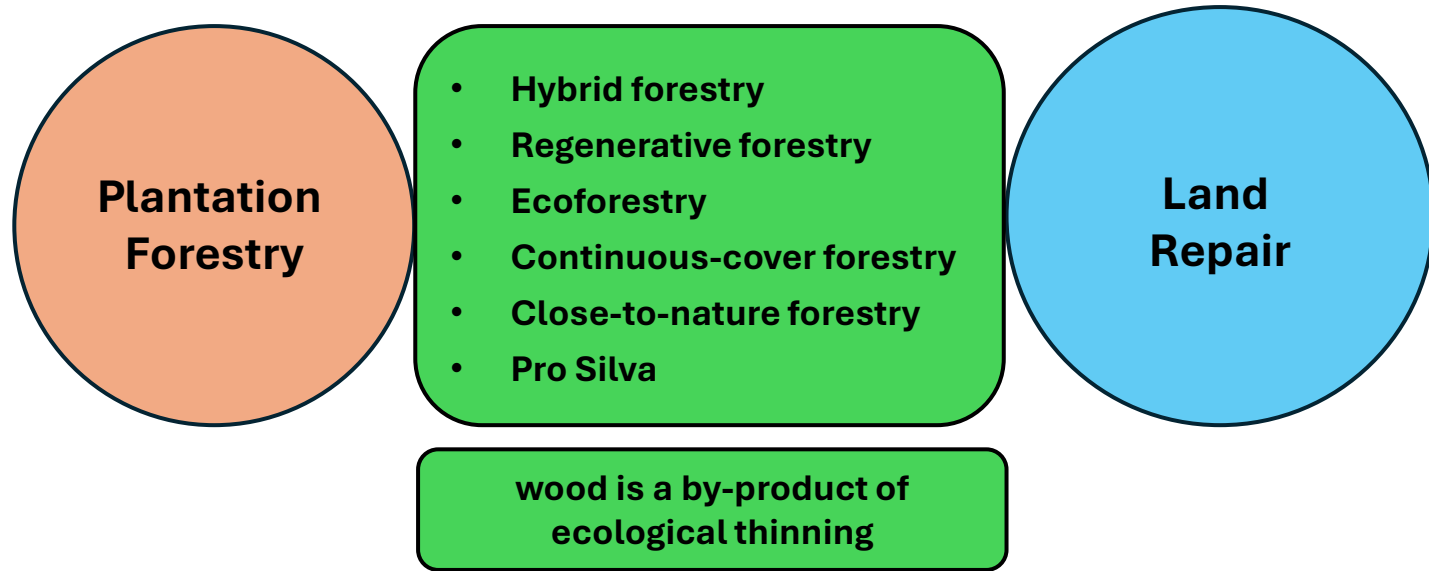






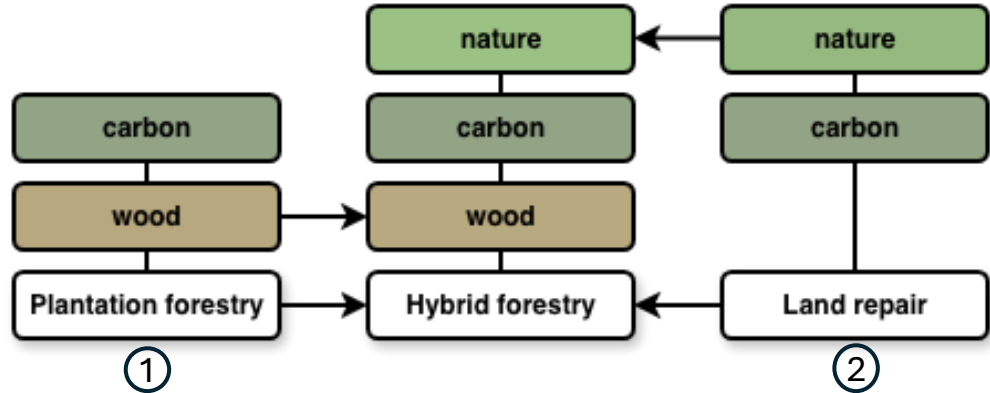
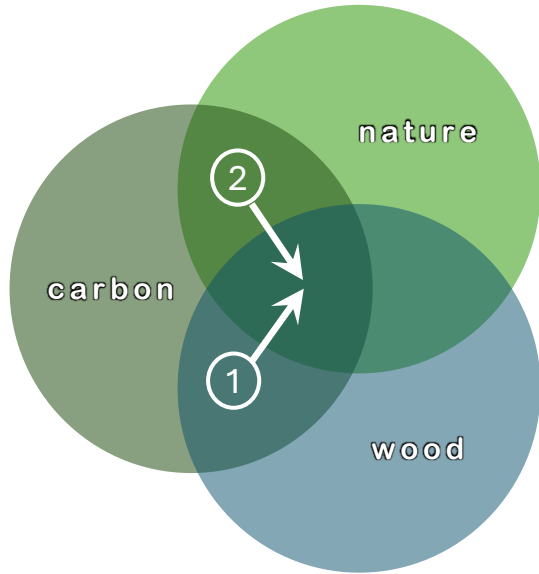






A hybrid value-stack

Existing & emerging income streams











A **hybrid** reforestation model that builds
diversity, adaptability & resilience
into the **design, management & maintenance**
of wood-production systems.





Silviculture is the **Solution**

Silviculture involves undertaking **strategic disturbance** that:

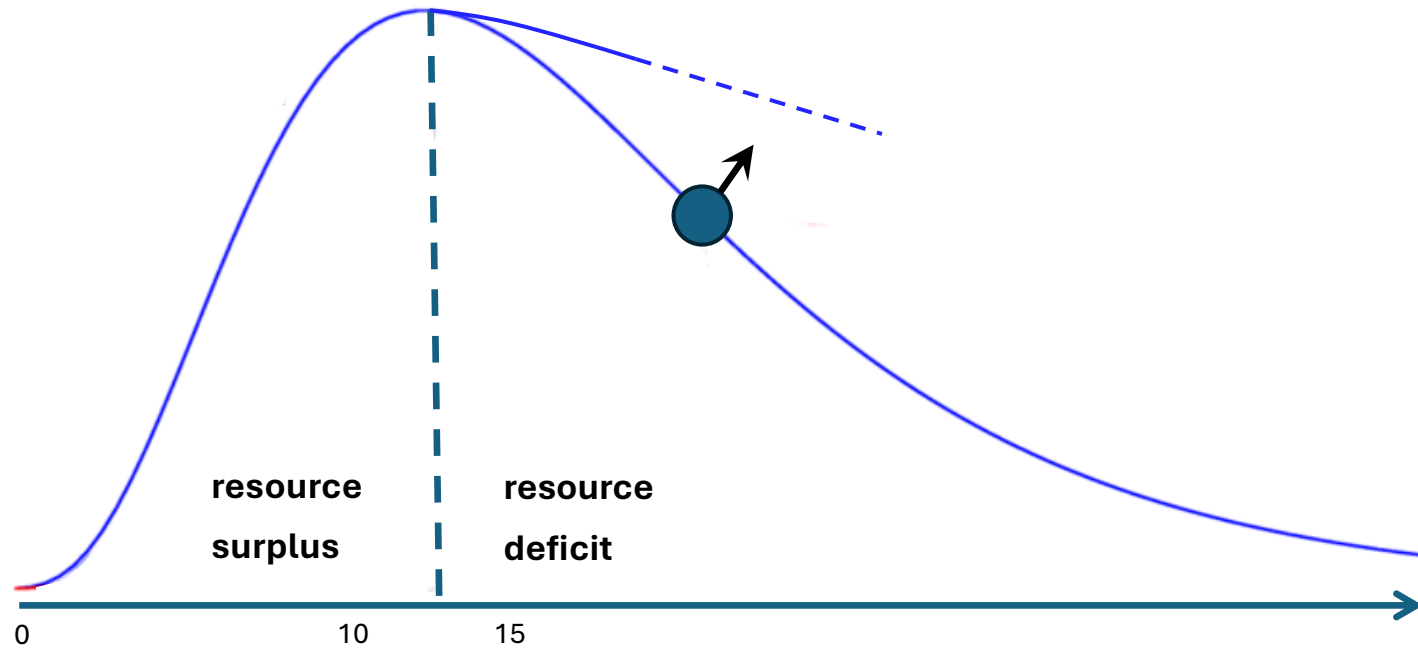
- promotes ecosystem **function, diversity & risk-resilience**
- sustains **productivity**

Enables **adaptation** to extend **wood production** to new:

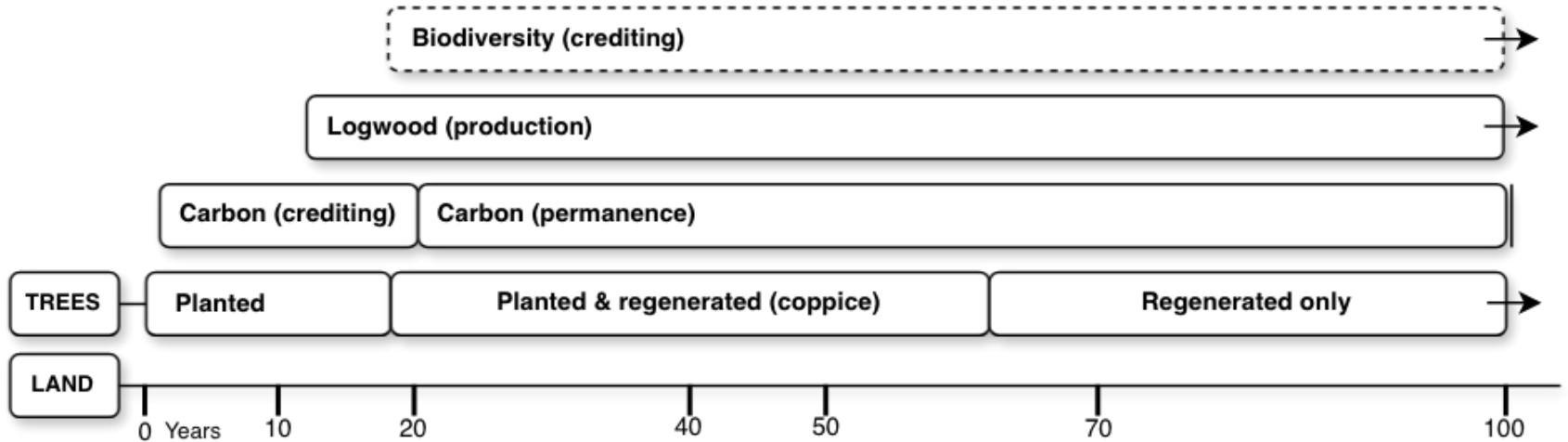
- environments & conditions
- rural communities



Annual growth and the productivity of plantations



A hybrid project model





Vision:

To use the growing market for **wood**
and emerging market for **ecosystem services**
along with emerging **technologies**
to drive **carbon abatement** and underwrite the **protection & repair**
of vulnerable **landscapes & ecosystems**
by creating permanent planted forests for perpetual production that are integrated into landscapes
to improve the viability, efficiency and resilience of food production systems.



Thank you!