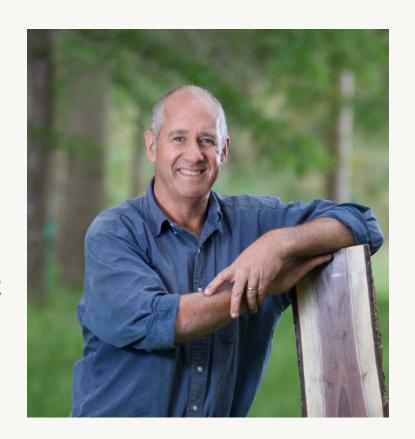


Integrating Timber Production with Landcare Practices for Conservation and Profit

Rowan Reid Bambra Agroforestry Farm





I'm a Forester

A Forest Scientist

B.For.Sci. M.For.Sci.



Teaching
Agroforestry
Since 1990



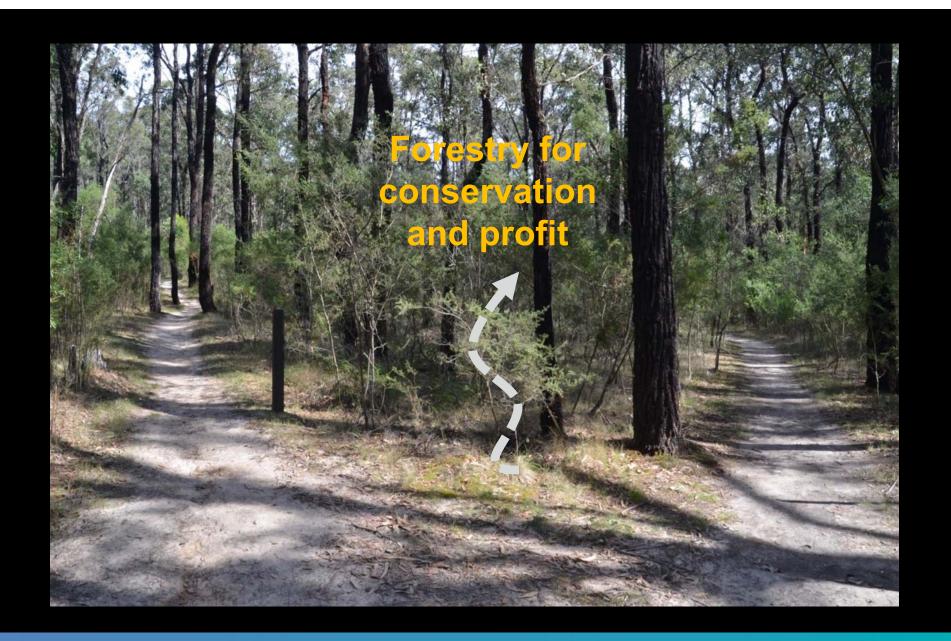
Native Forestry!



Monoculture Plantations!







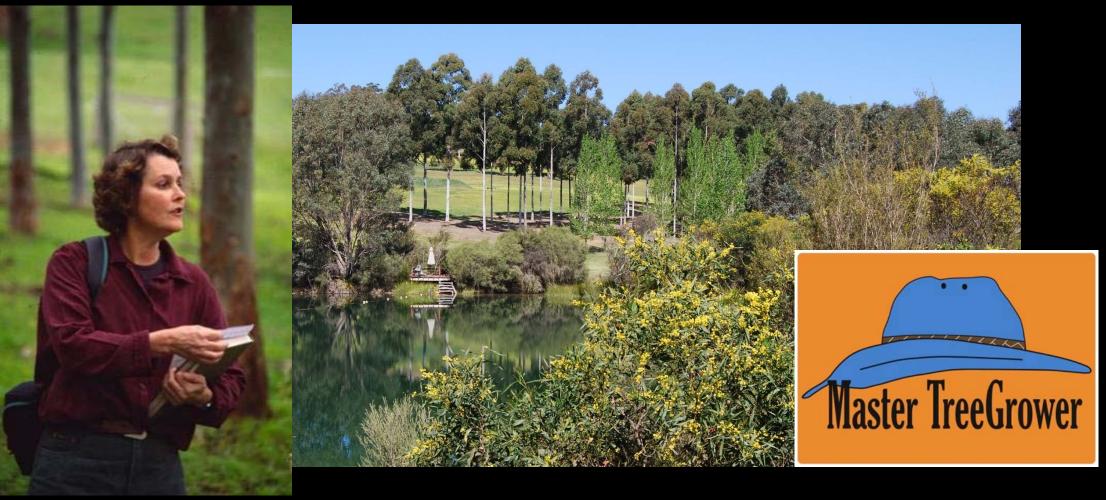
The real conservation issue = family farming



Trees on farms for multiple values



What might forestry on family farms look like?



Bambra Agroforestry Farm

Make *forestry* attractive to family farmers



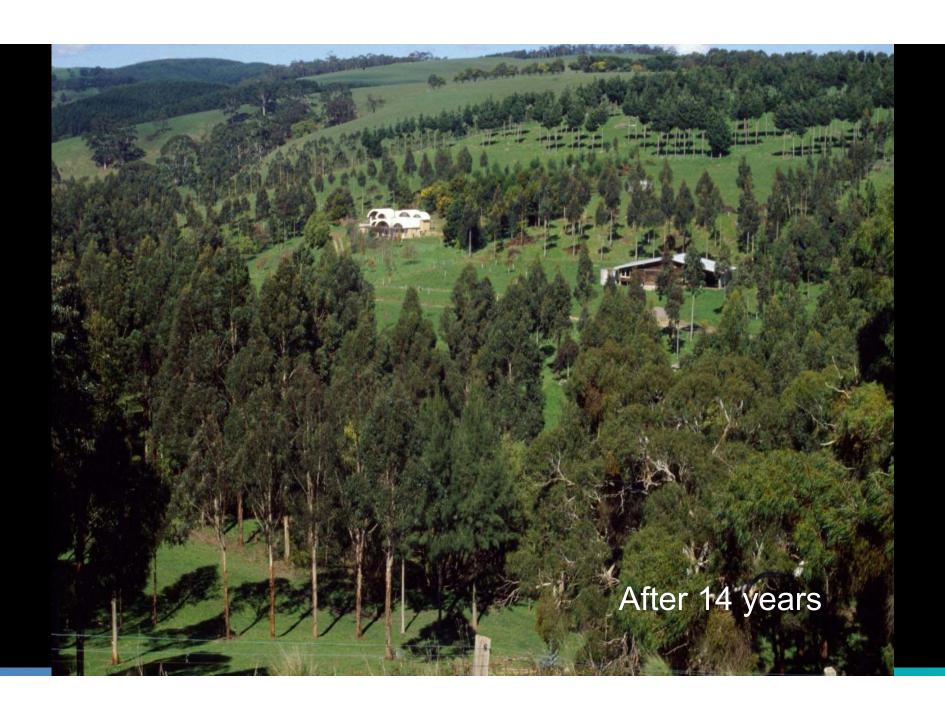
1987

Plant for Conservation & Agriculture





Manage to create opportunities (\$)





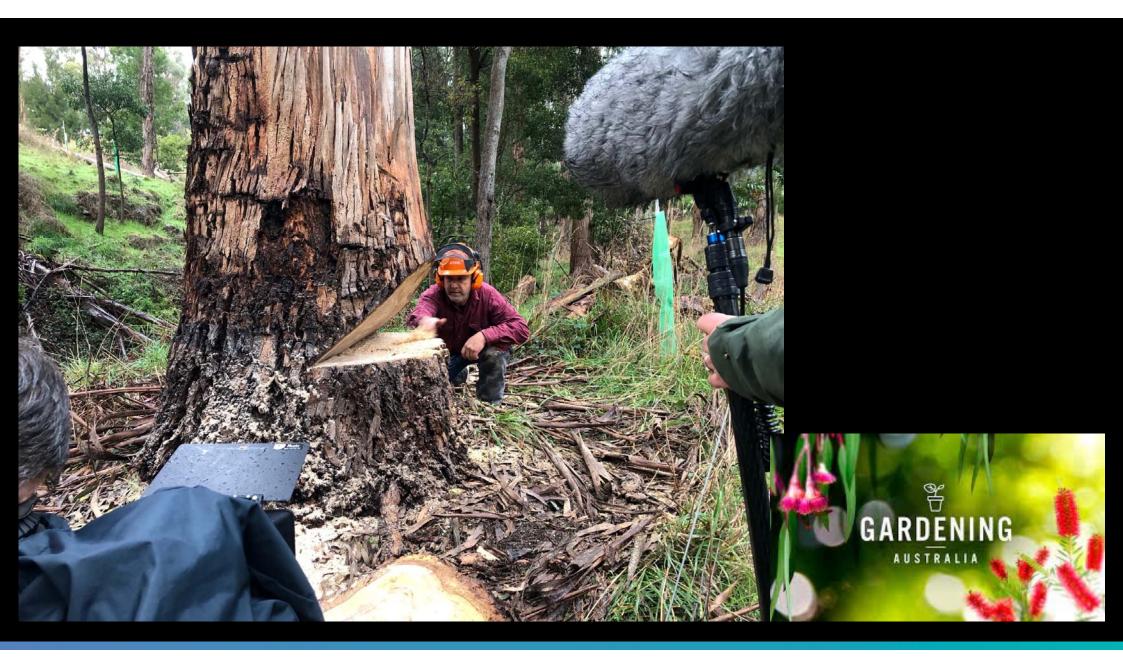
Active Management





Timber is a by-product of growing and managing trees for

- Soil and Water
 - Biodiversity
- Shade and shelter
 - Aesthetics









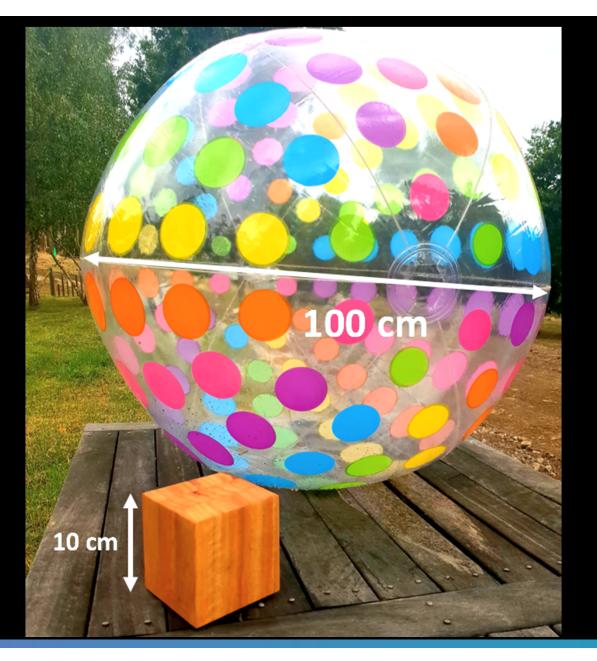




Mark Tuckey Furniture, Melbourne

How the growing & harvesting trees for profit ...

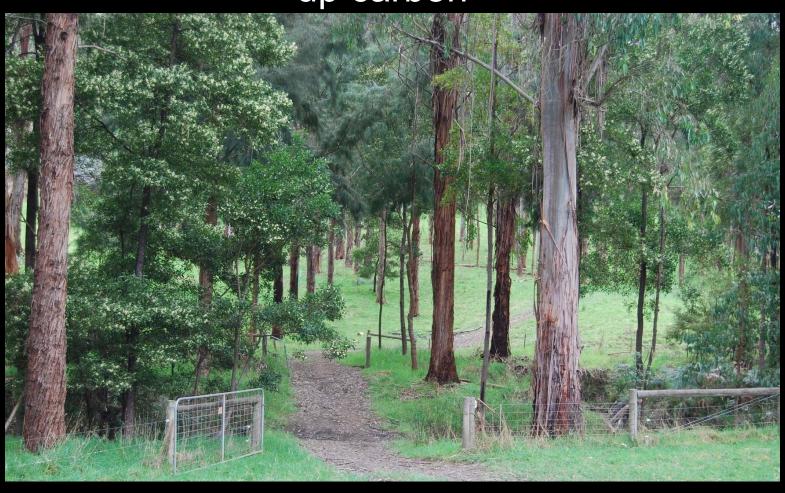




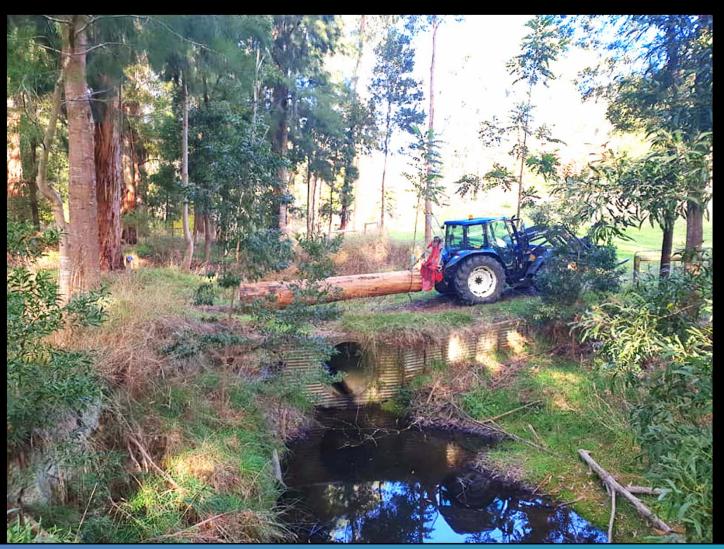
Wood is good

Volume of the block	1000 cm ³
Weight of the block	850 grams
Moisture content of wood	12%
Bone dry weight of the block	760 grams
Carbon content of dry eucalypt wood	50%
Carbon weight in block	380 grams
CO2 Equivalent (multiple by ⁴⁴ / ₁₂)	1.4 kg
Volume of CO_2 (1kg = 0.55m ³)	0.8 m^3
Diameter of a ball containing the CO ₂ gas locked up in the block of wood	1 metre

There is still a forest – growing and locking up carbon



Riparian Strips







Wood in Waterways

Logs in Waterways

Comparison of 2 Gippsland rivers



Design guideline for the reintroduction

of wood into Australian streams

Wood on the ground

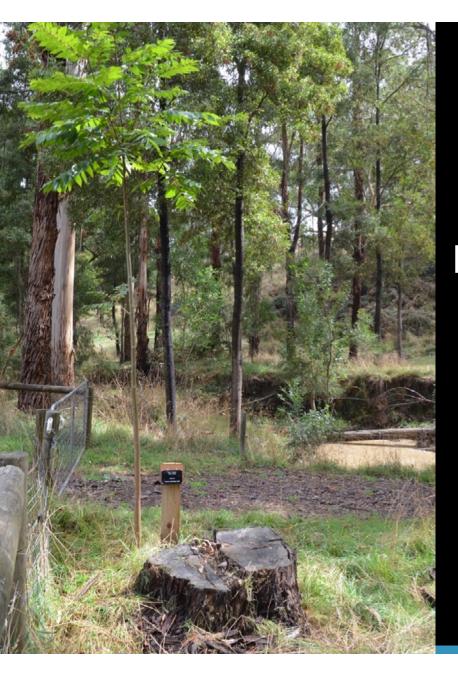




Brown Antechinus
Antechinus stuartii

"During the day it can be found in large communal nests in tree hollows, crevices or logs on the ground."

https://australian.museum/learn/animals/mammals/brown-antechinus/



Stumps

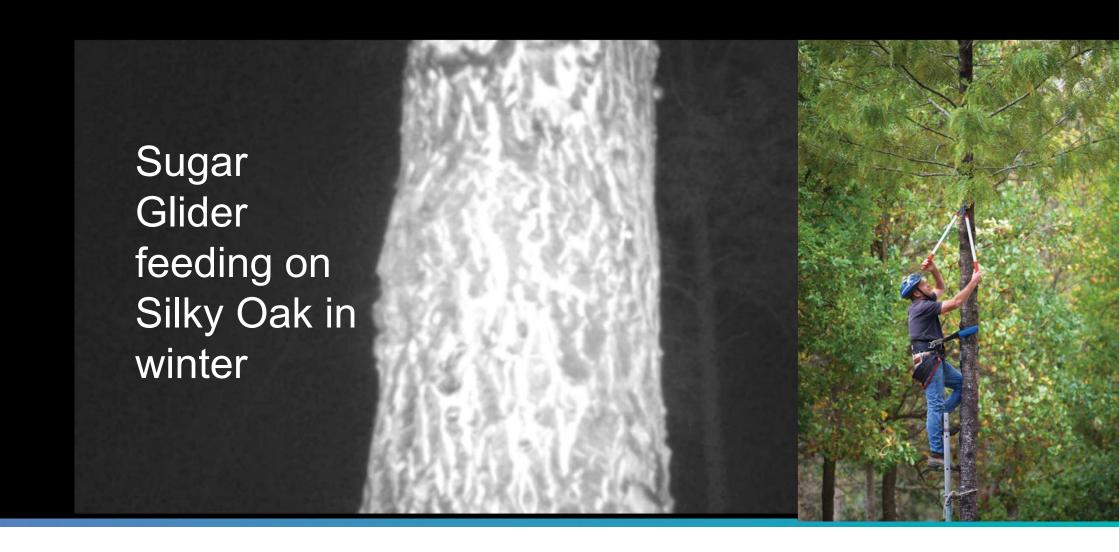
Dead

OR

Alive



Feed Trees



Yellow-tailed Black Cockatoo - Pines



Red-tailed Black Cockatoo (Sheoak and Banksia)



Drooping Sheoak Allocasuarina verticillata





Hollows





Hollow formation requires

Dead branches on rapidly growing healthy trees

- Thinning promotes diameter growth
- Branches can be killed



A place for exotics

Coast Redwood Sequoia sempervirens



Aluminum Sulphate AISO₄

Al⁺⁺⁺ Clay⁻⁻

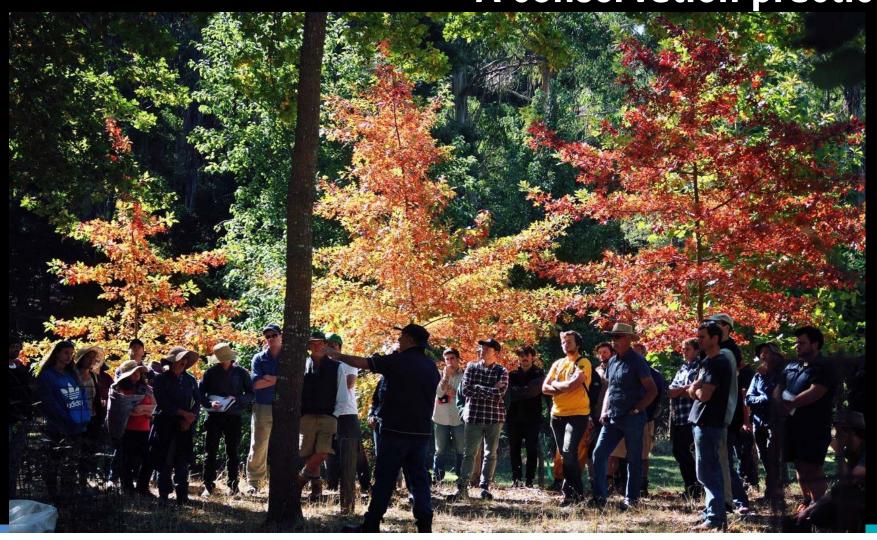


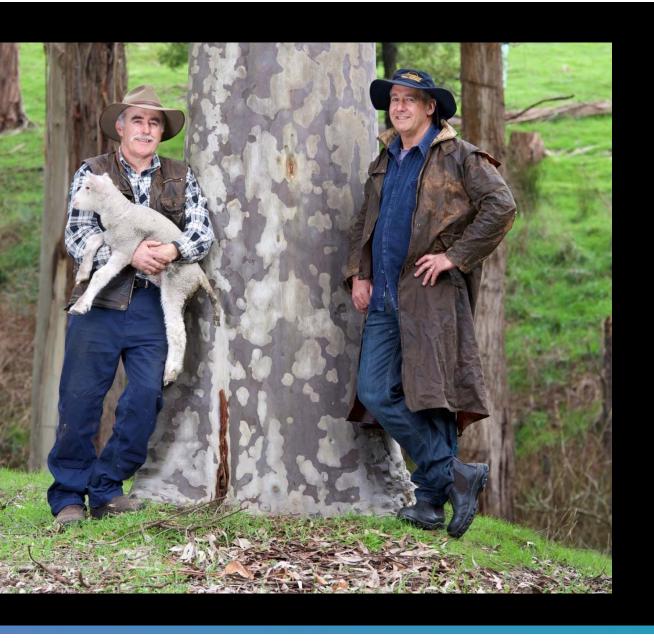




We grow oaks for fire protection:

A conservation practice

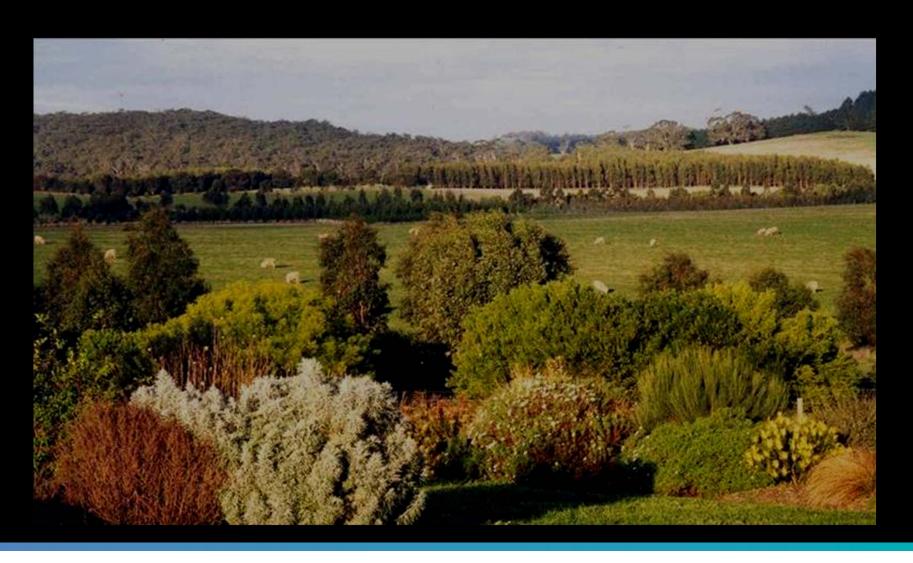




Andrew Stewart

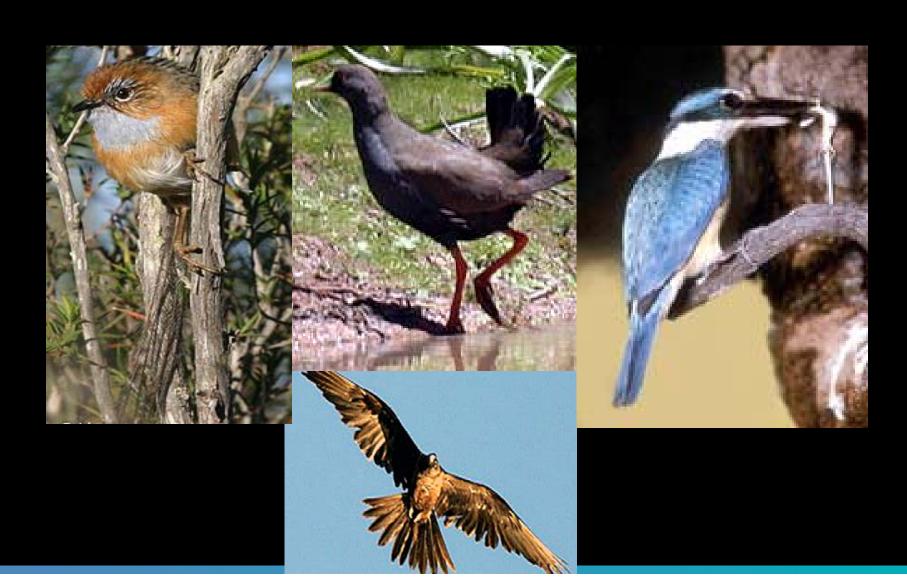
Bob Hawke Landcare Award Finalist

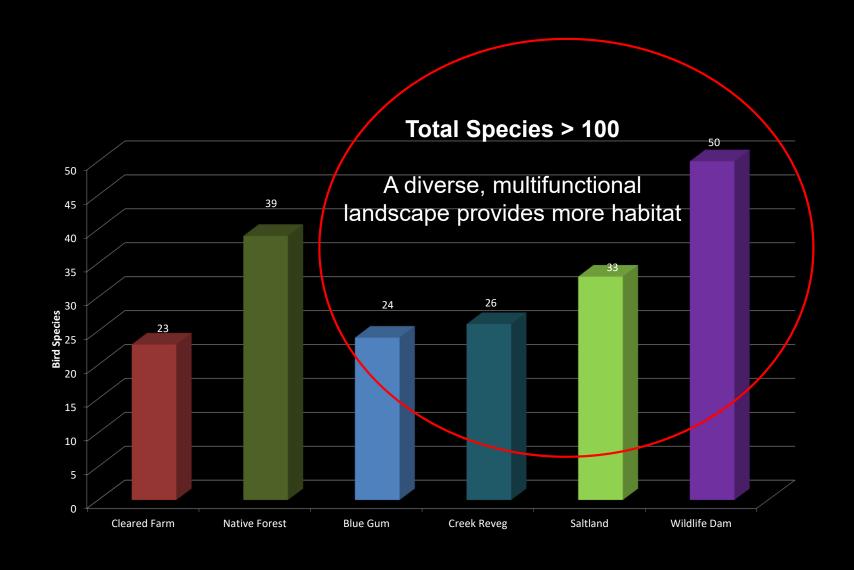
18% of the farm under trees



Many forests for many reasons integrated into the family farming landscape







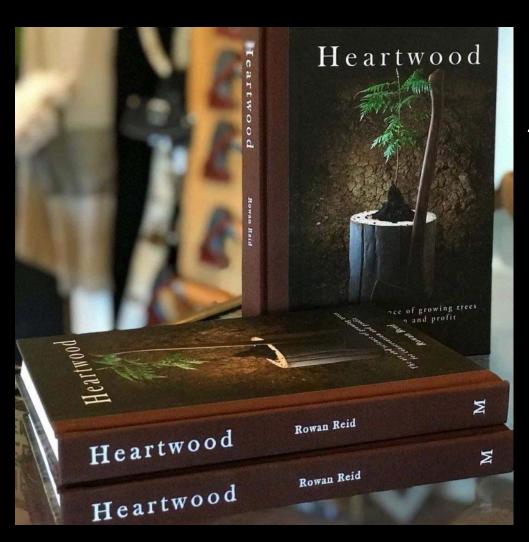
We are many - changing landscapes





A diversity that reflects the inherent diversity within our community





Heartwood

The art and science of growing trees for conservation and profit

Facebook/Instagram
Bambra Agroforestry Farm

Web:

www.agroforestry.net.au

Email:

rowan.reid@agroforestry.net.au