Effective restoration: a decade of trying

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A decade of trying

Scale?	What Projects?	Where?	With Who?	Monitoring & Adaptive Management?	Third Party Verification?
>10,000 ha	Biodiversity offsets, carbon projects, community revegetation and habitat restoration, private land conservation	East coast woodlands and forests from central Queensland to Victoria	Government, energy and resources sector, linear infrastructure, not for profits, traditional owners, community projects under various State and Commonwealth legislation and programs	Yes, each with unique management, monitoring, reporting requirements, multi decade commitments with annual quantitative monitoring (biocondition, BAM)	Yes, independent compliance audits, Accounting for Nature, government post approval teams, carbon market compliance (scheme and buyer due diligence)



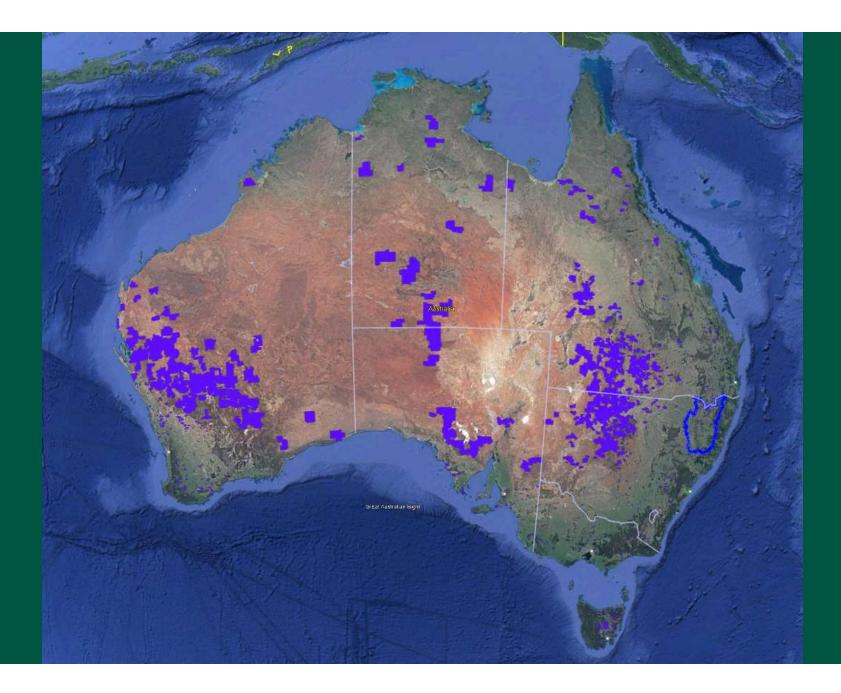
What is effective restoration?

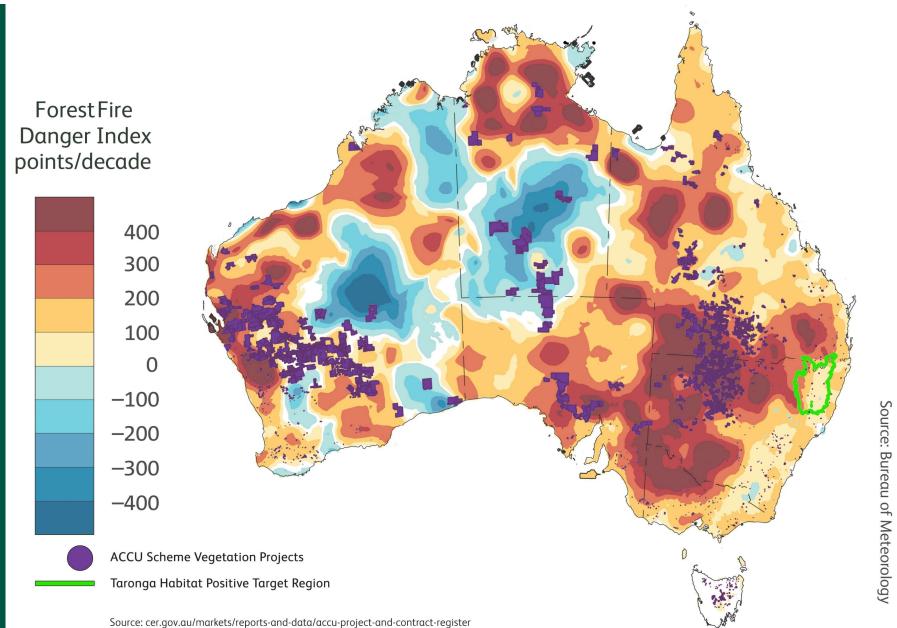
- Depends on viewpoint
- Balancing all interests
- Setting realistic expectations
- Undertaking practical actions
- Measuring the right things

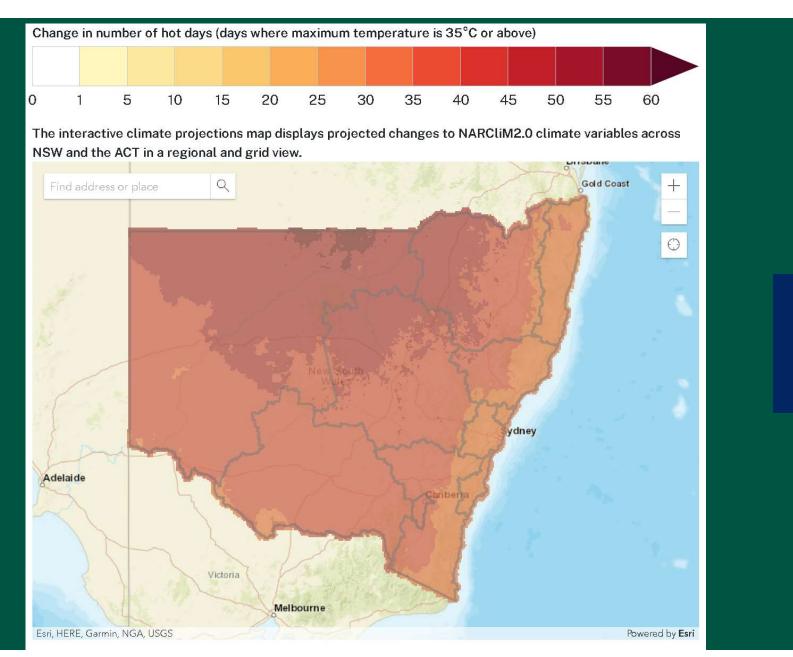


Effective restoration considers climate change

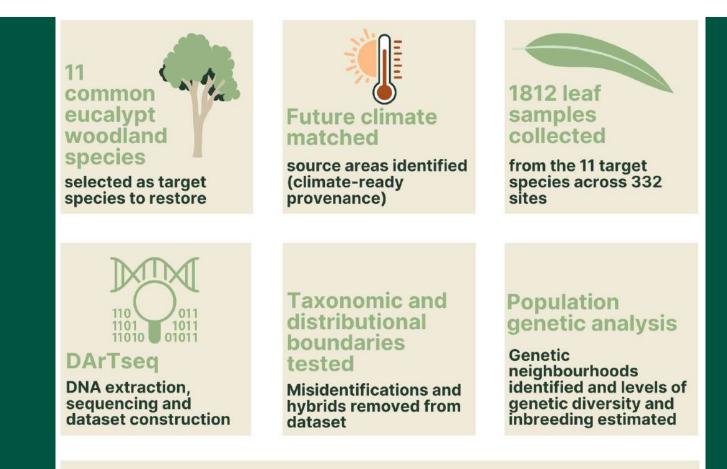
- Historically investment flows down path of least resistance
- Changing climate will mean many of those areas are likely to face big changes







Annual Change Annual +38.6



Seed sourcing guidelines developed

that capture 90% of genetic diversity and climate-ready provenances.



10 steps to genetically diverse resilient restoration

Note refined species boundaries and distributions

Source seed from same genetic neighbourhood as target region/site

Minimise the risk of collecting hybrid seed or inbred seed

Avoid hybridisation in plantings

3

5

6

8

9

10

Sample sufficient seed lines to capture genetic diversity

Source climate suitable material

Maintain separate maternal lines

Mix species-specific seed lines in plantings to maximise interbreeding

Audit genetic diversity and representativeness of seed

Monitor ongoing genetic diversity and success of plantings



Effective restoration...

• is pragmatic

- Realistic goals
- Enduring Increases landscape carrying capacity for threatened species and ecosystems
- Uses all the tools in the toolkit

focuses on people

- Surround yourself with good people
- Accepted by community (ideally valued)
- First Nations People



Thank you!

