



Biodiversity Management:

From Maintaining to Enhancing.

How sustainable forest management certification underpins a long-term biodiversity improvement program.

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ANZIF Conference

Tweed Heads, New South Wales, Australia

15-18 October 2023

Overview

1. Asset overview
2. Certification principles
3. Long-term Biodiversity Improvement Program
4. Legal and policy framework
5. Delivering value from client investment



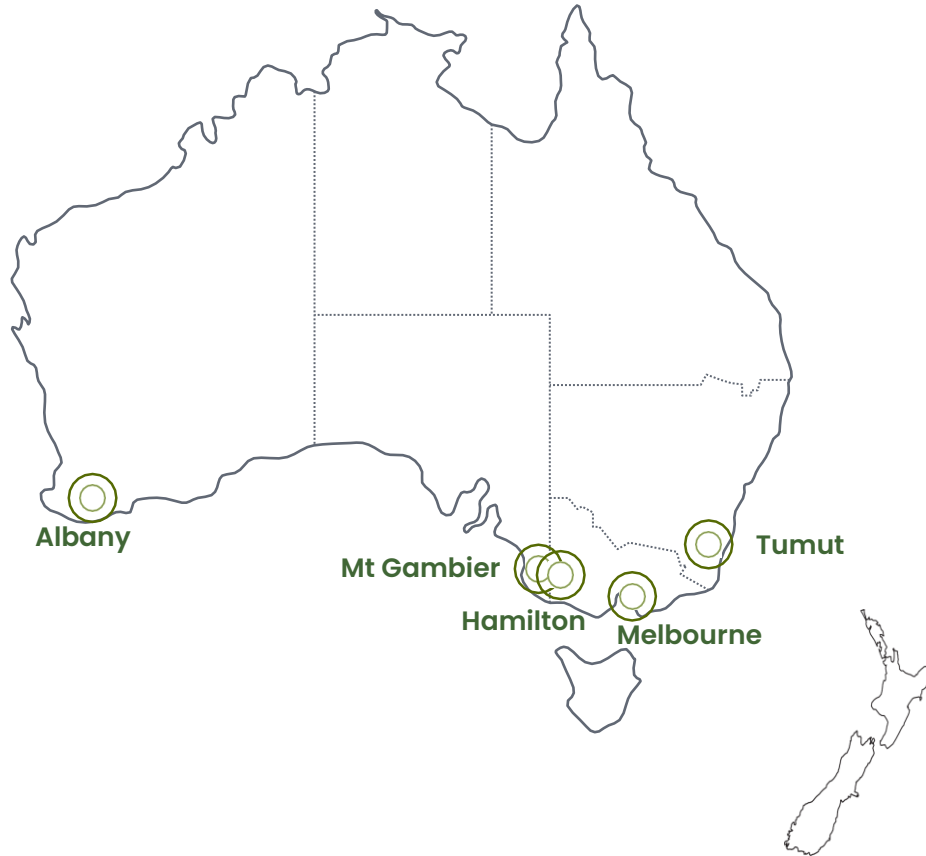
Indigenous Country we work on

PF Olsen would like to acknowledge the traditional owners of the country on which we work, in particular the:

- Gunditjmara Nation in Victoria
- Piblemen and Minang groups of the Noongar People in Western Australia and
- The Wiradjuri Nation in New South Wales and pay respect to elders past, present and emerging.



About PF Olsen Australia



BACKGROUND

- PF Olsen Ltd was established in 1971 in New Zealand
- Private company – significant staff shareholding
- PF Olsen Australia – 100% subsidiary was established in 2010
- It now employs 46 full-time staff across 5 offices.

CLIENTS / SERVICES

- PF Olsen has a broad range of commercial & Government clients
- Services provided include:
 - ✓ End to end property management services
 - ✓ Consulting services
 - ✓ Carbon projects



Changing Asset



Blue Gums
(*Eucalyptus globulus*)

- 2000–2010 New plantations
Managed Investment Scheme

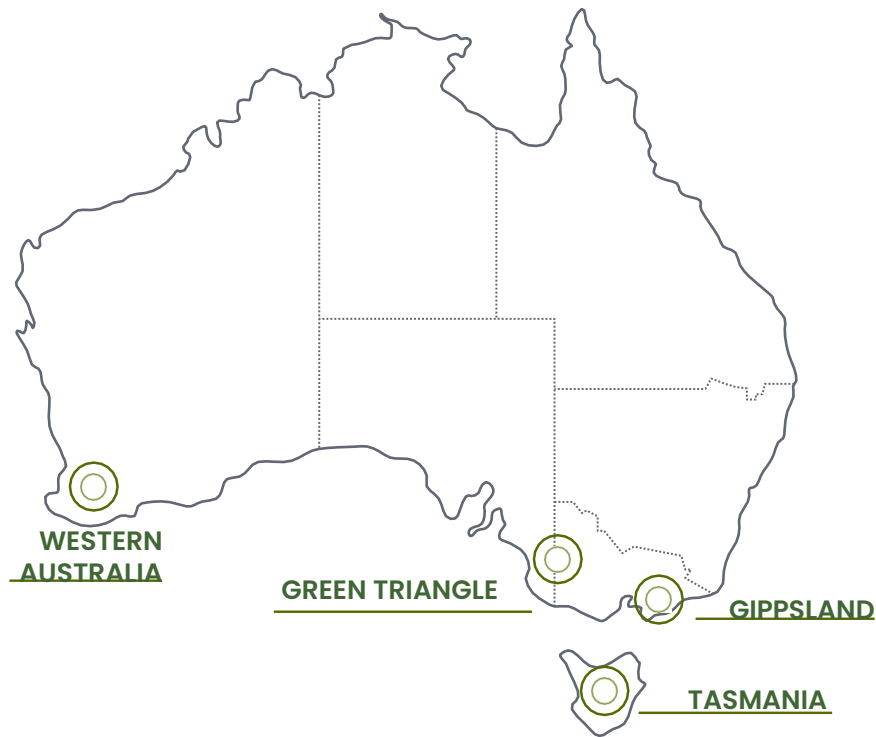
10,000ha of
agricultural
crops

- 2010–2020 Rationalise Asset
Highest & Best Use

Long-term
Pinus radiata

- 2020 → Continual review
Carbon Farming Projects

FIT Estate Forestry Assets Now



	Number of Properties	Plantation Forests	Indigenous Vegetation	Special Protection
Green Triangle	273	58,080 Ha	7,608 Ha	3,558 Ha
Western	171	41,887 Ha	16,311 Ha	4,276 Ha
Tasmania	18	2,062 Ha	395 Ha	106 Ha
FIT Estate	433	109,903 ha	26,856 Ha	9,233 Ha



1413km of rivers and streams



950 ha of wetlands

Certification Principles



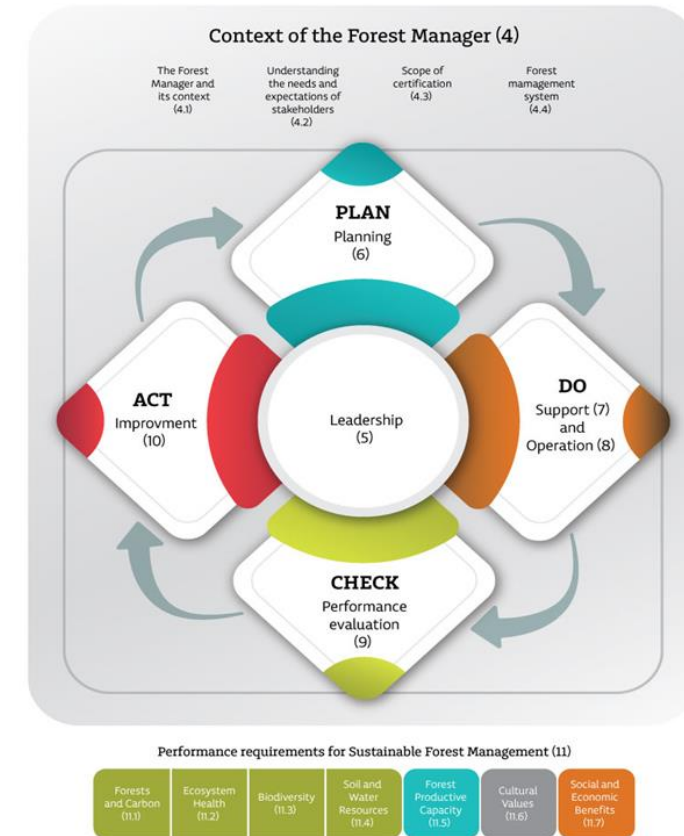
1. Comply with laws
2. Adaptive management
 - a) Identify values
 - b) Determine significance
 - c) Work with stakeholders
 - d) Set targets
 - e) Monitor impact
 - f) Act on results



The mark of responsible forestry



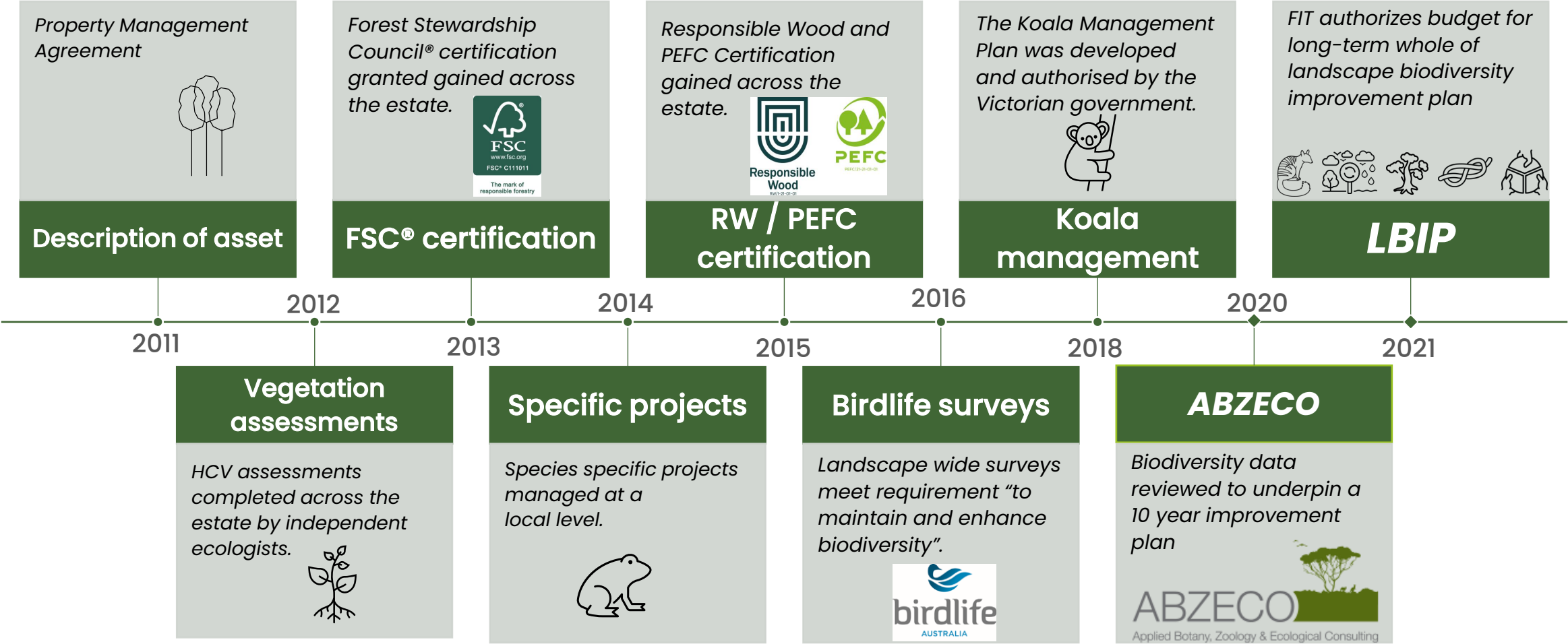
Responsible Wood
RW/1-21-01-01



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Our Biodiversity Journey



Long-term Biodiversity Improvement Program

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Long-term Biodiversity Improvement Program Objectives

Enhance biodiversity across the FIT asset

Five themes:

- Threatened species
- High quality ecosystems
- Large old trees
- Remnant connectivity
- Stakeholder partnerships



Increase the security of the most threatened flora and fauna found on the estate.



Increase the area of high-quality ecosystems.



Protect and secure the resource of large old trees throughout the asset.



Increase the connectivity of remnants through the landscape.



Strengthening our relationships with reputable stakeholders.



Threatened species

Applying certification labels

Australian Forest Standard AS/NZS-4708		FSC National Forest Stewardship Standard of Australia FSC-STD-AUS-01-2018 EN ANNEX G	
Significant Biodiversity Values (SBV)		High Conservation Values (HCV)	
SBV1	Known or likely occurrences of threatened species and their known and potential habitat;	HCV 1.1	Areas that contain significant concentrations* of rare and threatened species* or that contain habitat* critical* to the survival and long-term viability of these species.
		HCV 1.3	Areas that contain significant concentrations* of rare species* that are poorly reserved at the IBRA* region scale.

PF Olsen Special Values

Description ↓	Area (ha) by FMU →	FIT TAS	FIT VIC/SA	FIT WA
Patch of vegetation with confirmed sighting(s) of a conservation priority species by natural resources agency or relevant expert.		0	17	417
Patch of vegetation that has been assessed to have habitat that it is likely to support at least one conservation priority species.		104	2,001	1,542



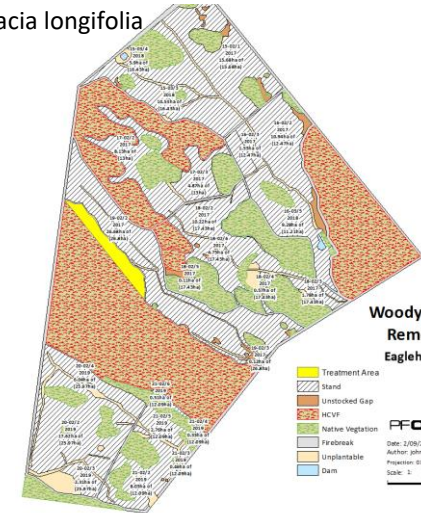


High quality ecosystems

Applying certification labels



Sallow Wattle *Acacia longifolia*



Woody Weed Removal
Eaglehawk



Australian Forest Standard AS/NZS-4708		FSC National Forest Stewardship Standard of Australia FSC-STD-AUS-01-2018 EN ANNEX G		
Significant Biodiversity Values (SBV)		High Conservation Values (HCV)		
SBV2	2. threatened communities (including forest, non-forest and non-terrestrial communities);	HCV 3.1	Ecosystems* (including rainforests) that are threatened, depleted or poorly reserved at the IBRA* bioregion scale, or are subject to threatening processes predicted to substantially reduce their extent and function.	
SBV4(A)	4. under-represented vegetation communities: (A) vegetation communities (including forest, non-forest and non-terrestrial) that are currently reserved at less than 15 % of their pre-European distribution or equivalent benchmark time;			
SBV11	11. remnants in extensively cleared landscapes and mature forest in degraded landscapes	HCV 3.4	Remnant vegetation in heavily cleared landscapes and mature forest in degraded landscapes.	

PF Olsen Special Values

Description ↓	Area (ha) by FMU →	FIT TAS	FIT VIC/SA	FIT WA
Patch of vegetation has a listed conservation priority rating under State or Commonwealth legislation.		101	1,506	98
Patches of vegetation that are assessed as significant within a highly cleared landscape.		135	2,039	3,425



Black-tongue Caladenia
(*Caladenia congesta*)



Jacky Lizard (*Amphibolurus muricatus*)





Large old trees

Applying certification labels

Australian Forest Standard AS/NZS-4708		FSC National Forest Stewardship Standard of Australia FSC-STD-AUS-01-2018 EN ANNEX G	
Significant Biodiversity Values (SBV)		High Conservation Values (HCV)	

SBV3	Old-growth forest and/or other forest types which are rare or depleted (generally less than 10 % of extant distribution);	HCV 3.3	Old-growth forest*.
SBV4(B)	Under-represented vegetation communities: (B) old-growth vegetation communities (including forest, non-forest and non-terrestrial communities) that are currently reserved at less than 60 % of the extant area;		

PF Olsen Special Value

Patch with one or more large old trees.

Description ↓	FMU →	FIT TAS	FIT VIC/SA	FIT WA
Number of polygons less than 1 ha retained during establishment		239	18,649	7,744



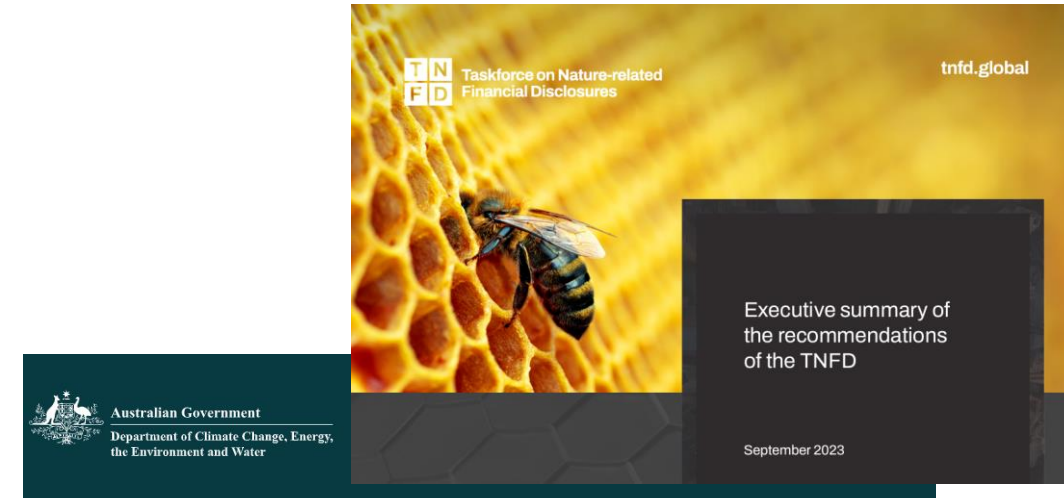
Legislation and Policy

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Legislation and policy Framework

Global concern	Biodiversity Loss
Global goals and frameworks	<ul style="list-style-type: none"> • Taskforce For Nature related Disclosure • Migratory Bird Agreements • CITES • IUFRO Red list
National Laws	<ul style="list-style-type: none"> • <i>Environment Protection and Biodiversity Conservation Act 1999</i> • Nature Repair Market Bill
State Laws	<ul style="list-style-type: none"> • Threatened species protection • Animal welfare • Domestic animal control • Catchment protection • Waterway protection • Pollution control • Agricultural chemical use



On this page

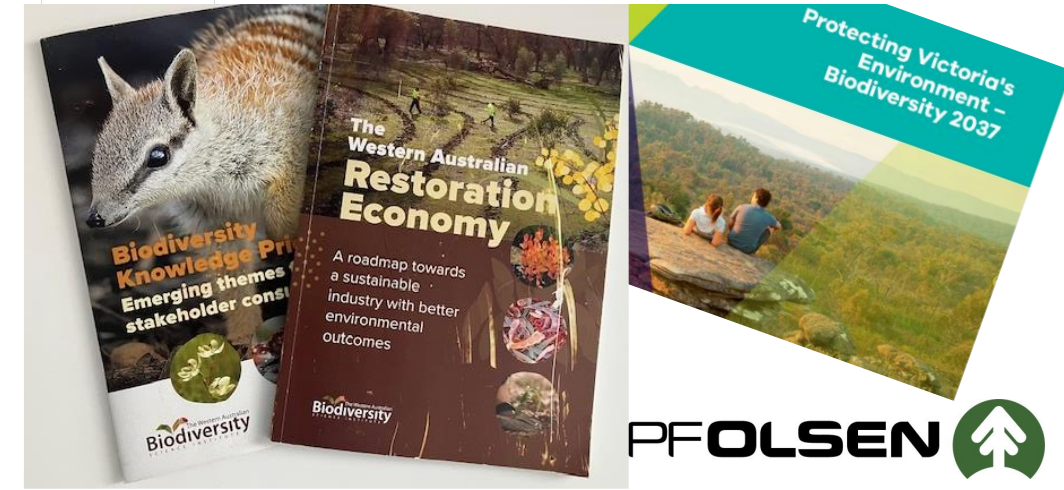
Nature repair market - exposure draft of legislation - consultation extended until Friday 3 March 2023

Nature repair market - exposure draft of legislation - consultation extended until Friday 3 March 2023

We are developing a nature repair market to encourage investment in biodiversity and drive environmental improvements across Australia.

Timeline

- Opened 23 December 2022
- Closed 3 March 2023





Threatened species Records

Commonwealth legislation:

- *Environment Protection & Biodiversity Conservation Act 1999*

State legislation:

- *Biodiversity Conservation Act 2016 (NSW)*
- *National Parks and Wildlife Act 1972 (SA)*
- *Threatened Species Protection Act 1995 (TAS)*
- *Flora and Fauna Guarantee Act 1988 (VIC)*
- *Biodiversity Conservation Act 2016 (WA)*

Records of species included on the IUCN Red list							
Status ↓	State →	NSW	SA	Tas	Vic	WA	Total
Critically Endangered		1		1	1	3	5
Endangered			1	3	2	8	14
Vulnerable		3				6	6
Near Threatened				4	3	2	9
Least Concern			12		57	5	74
ALL CLASSIFICATIONS			13	8	63	24	108
Records of priority species protected by Environmental Protection and Biodiversity Conservation Act 1999							
Status ↓	State →	NSW	SA	Tas	Vic	WA	Total
Critically Endangered						1	1
Endangered		4	4	5	36	28	73
Vulnerable			1	10	8	30	49
ALL CLASSIFICATIONS		4	5	15	44	59	123
Records of species included in State Government priority lists							
Status ↓	State →	NSW	SA	Tas	Vic	WA	Total
ALL CLASSIFICATIONS		20	28	16	128	67	239

Understanding What clients want?

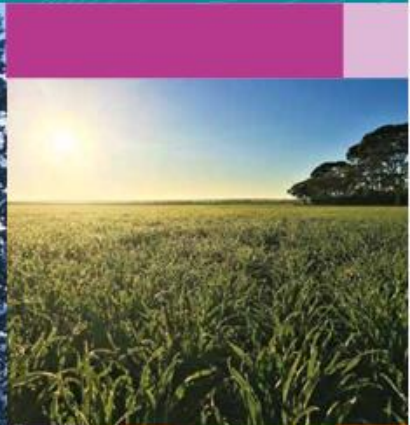
License to operate

Cost management

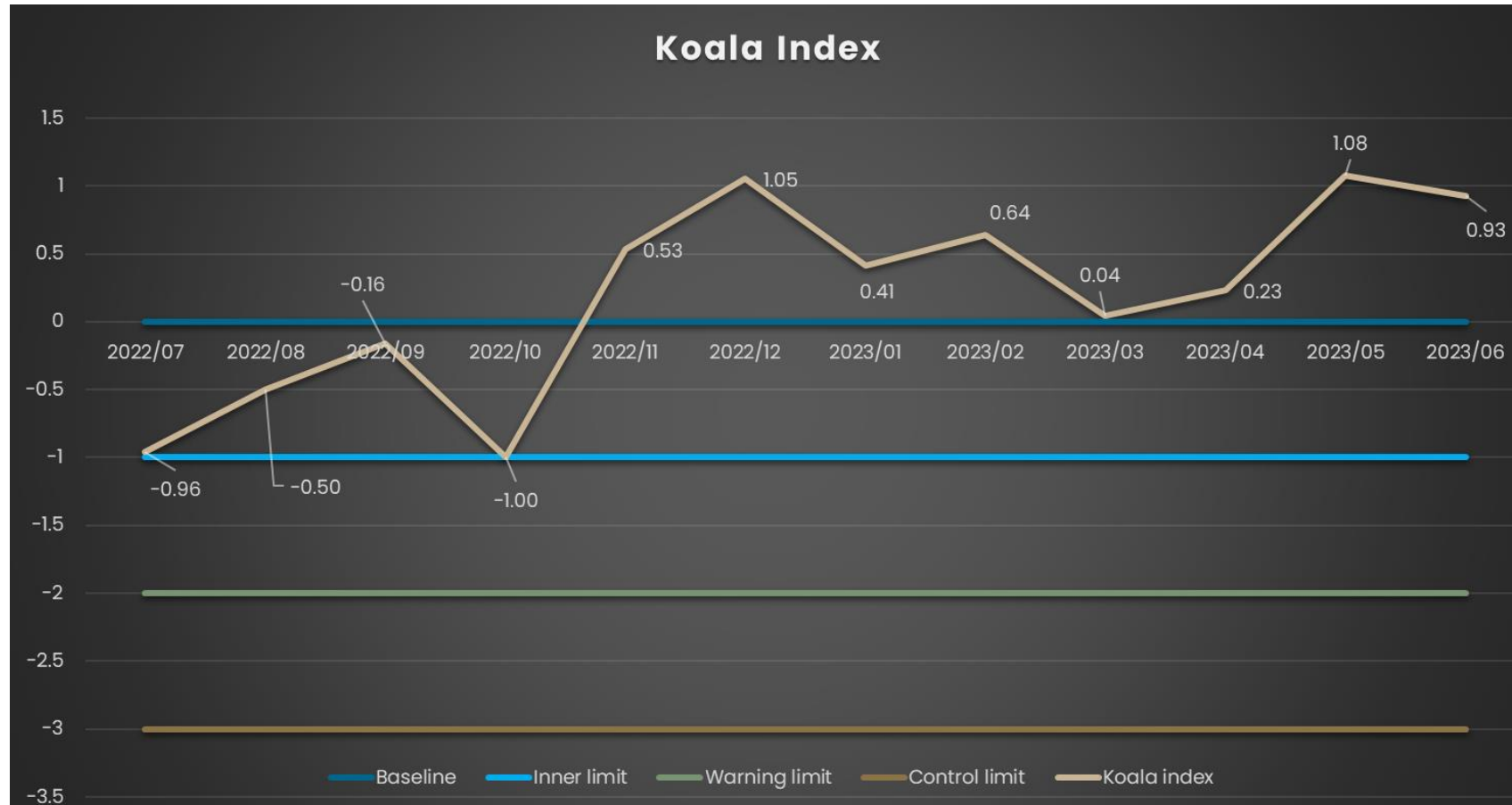
Investment differentiation

Tradeable credits

Sustainability Report 2022



Licence to operate Koala management



PF Olsen Australia holds an “Authorisation to disturb Koalas” under section 28A(1A)(b) *Wildlife Act 1975 (Vic)*





Licence to operate Conservation Priority Species

Environment Protection Biodiversity Conservation Act 1999

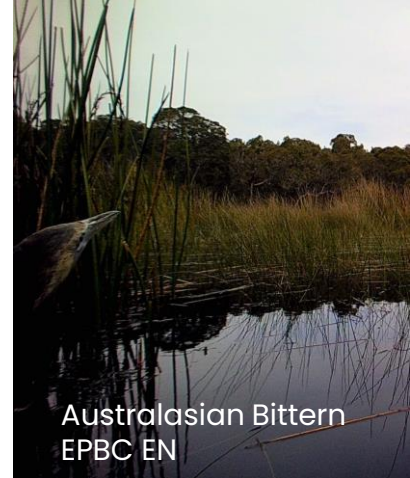
S18

*Actions with significant impact on protected matters ...
prohibited without approval*

3A Principles of ecologically sustainable development

The following principles are principles of ecologically sustainable development:

- a) decision-making processes should effectively integrate both long-term and short-term economic, environmental, social and equitable considerations;*
- b) if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation;*
- c) the principle of inter-generational equity—that the present generation should ensure that the health, diversity and productivity of the environment is maintained or enhanced for the benefit of future generations;*
- d) the conservation of biological diversity and ecological integrity should be a fundamental consideration in decision-making;*
- e) improved valuation, pricing and incentive mechanisms should be promoted.*



Investment differentiation

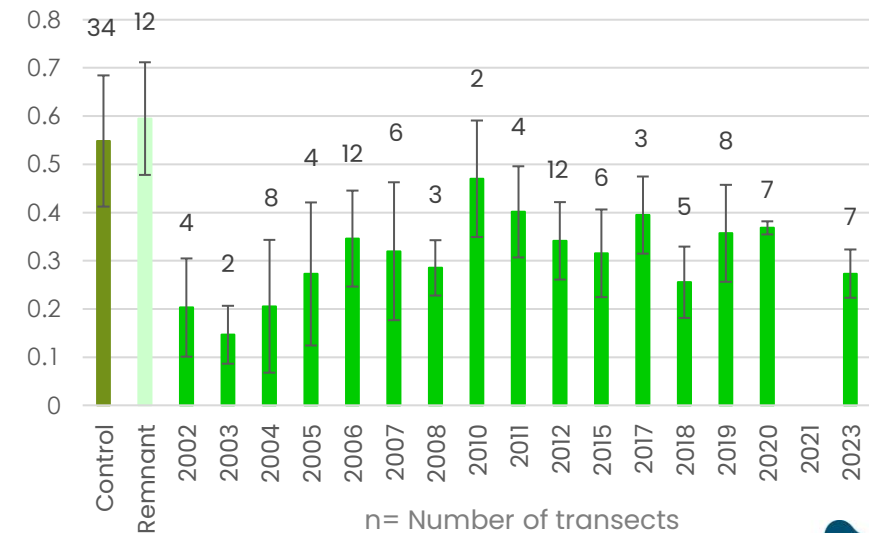
Natural Capital Accounts – Birdlife



Natural Capital Assessment	Asset Type	Area	AfN ECond	Birdlife Account Value
Green Triangle	Remnant Vegetation	5,509	0.60	3,305
	Plantation	51,224	0.14 – 0.47	15,879

	Plantation Age Class				Remnant
	0-5	5-10	10-15	>15	
Total Area (ha)	19,514	4,916	9,452	17,342	5,509
No. of Properties	150	53	65	193	207
No. of Transects	29	12	21	36	12
No. of edge transects	13	6	10	17	
No. of interior transects	16	6	11	19	
Sampling Intensity (ha/transect)	673	410	450	482	459

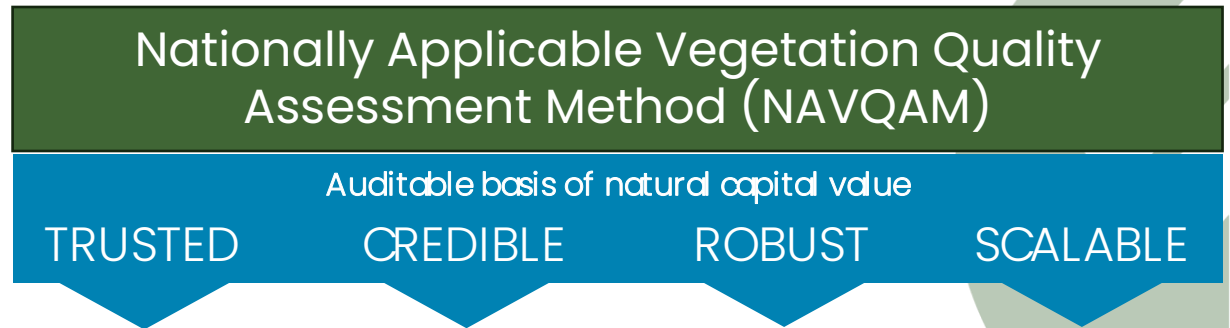
Woodland Bird Metric with Year of Establishment



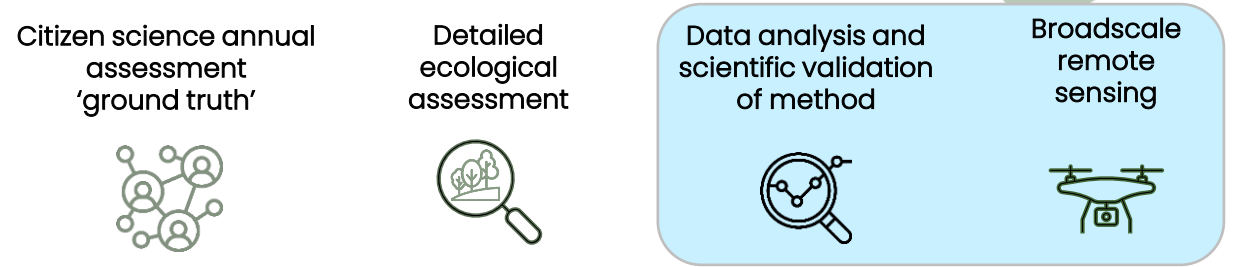
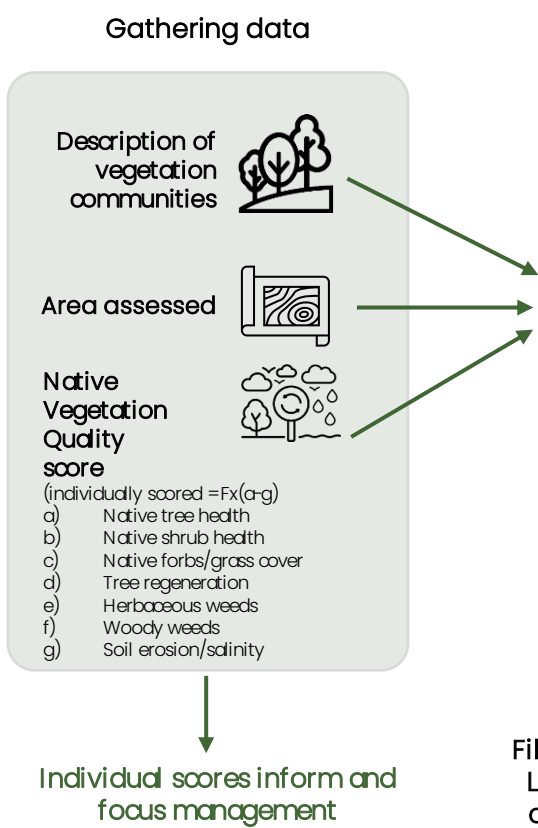
birdlife
AUSTRALIA



Investment differentiation Natural Capital Accounts - Vegetation



Nature Repair Market
Proposed Innovative Biodiversity
Monitoring Project



	Area	Native Vegetation Quality Score	Total native vegetation score	Attributed Value (\$/ha)	Total Natural Capital Deemed Value
Grassy Woodlands	345	0.33	114	\$5,000	\$569k
Herb-rich Woodlands	6000	0.60	3600	\$2,000	\$7,200k





Numbat dilemma



Chuditch
Dasyurus geoffroi

Numbat
Myrmecobius fasciatus

Uwah
Bettongia penicillata

12-MONTH MONITORING PROJECT

- 15 endemic species
- 4 threatened mammal species.
- 3 threatened bird species

3 YEAR PROJECT → \$460K

HABITAT ENHANCEMENT

Plant connecting (60ha) corridors

Introduce new Den Logs

Enhance structure of existing vegetation

PREDATOR MANAGEMENT

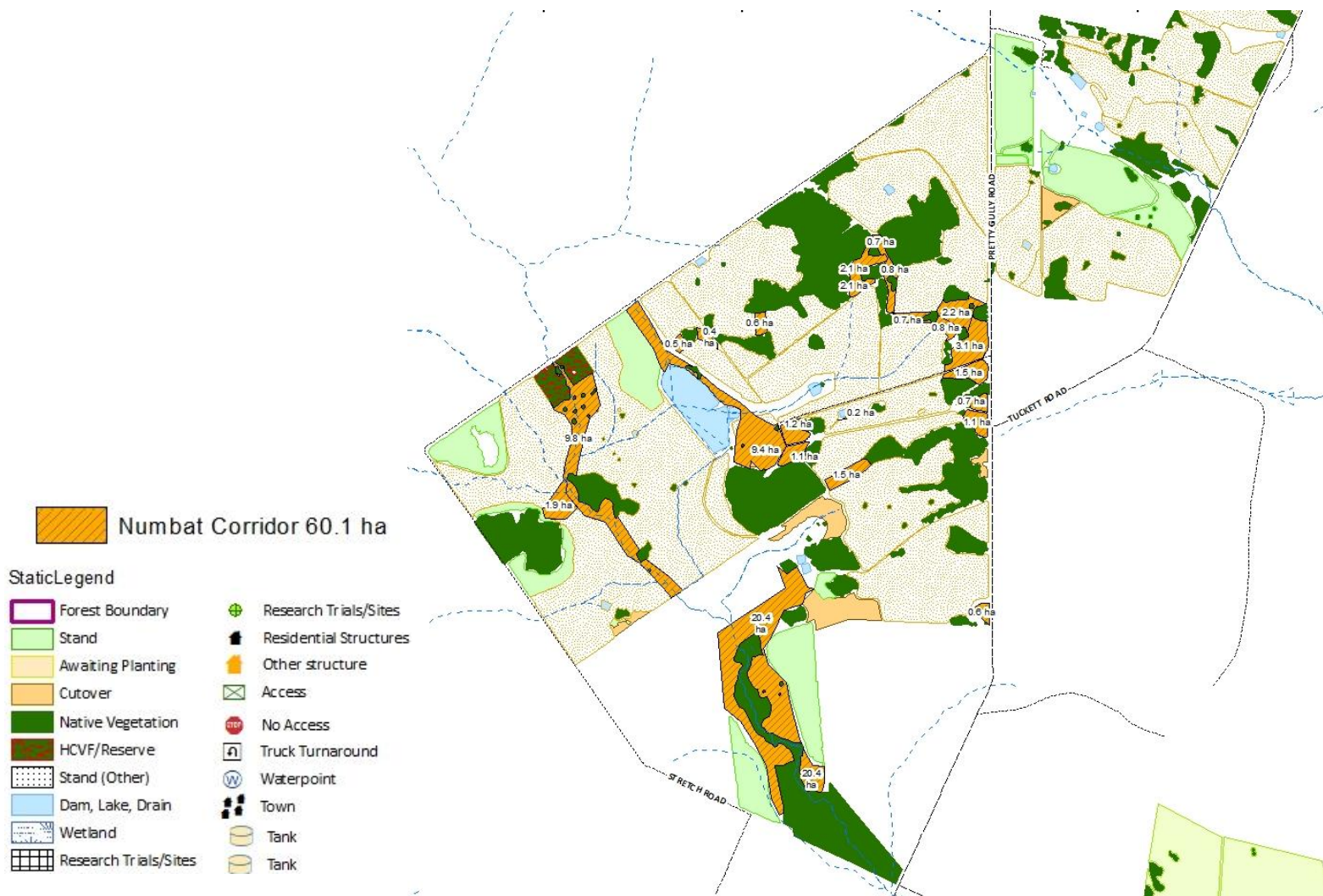
DNA Stomach Analysis in year 1

Felixer® Cat Control for 3 years

Neighbourhood project

MONITORING

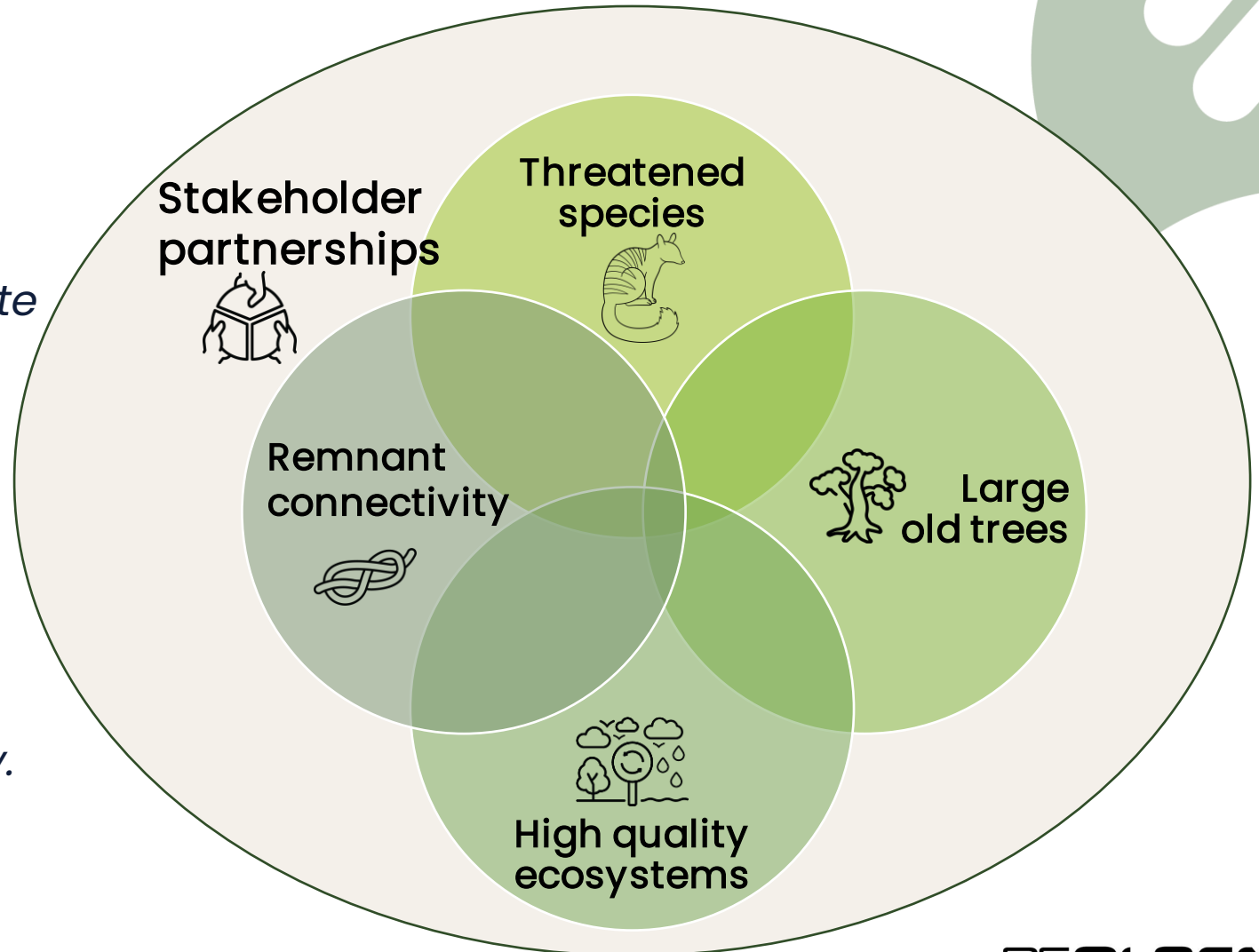
Annual seasonal monitoring with periodic reporting



Landscape Biodiversity Improvement Program

Our vision

Develop opportunities for traditional owners to generate income from the ongoing monitoring, management and enhancement of the biodiversity assets we manage, on their country.



Thank you

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