Privately Protected Areas in Australia: Progress and Prospects



Privately Protected Areas Global Context

- $\circ~$ PPAs a key tool for conservation on private lands
- Although discourse dominated by public PAs, community and PPAs have a long history
- Critical to global agendas: ecological representativeness, whole of landscape connectivity
- Increasing prominence: 2014 World Parks Congress, 2016 World Conservation Congress
- Data lacking for most countries, so under-reported
- Since 1990s PPAs have grown in number, area and diversity:
 Australia, Brazil, Chile, Colombia, Mexico, South Africa, USA
- 10,000 PPAs on the WDPA evidence of over 27,000 PPAs
- NGOs the most significant owners

National PPA Summaries



Stolton et al. (2014)

Australia's National Reserve System

Establishment of government and non-government reserves

Partnership between Australian and state/territory governments

Nine jurisdictions each with their own PA system

- Aims to establish a Comprehensive, Adequate and Representative reserve system
- NRS a key instrument for meeting Australia's CBD obligations



National Reserve Systems and National Representative System of Marine Protected Areas Collaborative Australian Protected Areas Database (2016)





NRS Targets

- Examples of at least 80% of ecosystems in each subregion by 2025
- Core areas for the long-term survival of threatened ecosystems and species in each bioregion by 2030
- Critical areas for climate change resilience: core land for a 'whole of landscape scale' approach by 2030



National Reserve System





Growth of IPAs





75 IPAs, Mostly IUCN Category V and VI

IPAs and PPAs in the NRS

Terrestrial Protected Areas in Australia by Governance (2016)								
Governance	Number	Area (ha)	Average size (ha)	% of Australia	Contribution to NRS (%)			
Community	74	66,786,266	902,517	8.69	44.25			
Government	7,204	66,985,503	9,298	8.71	44.39			
Joint	1,778	8,444,020	4,749	1.10	5.60			
Private	1,536	8,702,600	5,666	1.13	5.77			
Total	10,592	150,918,390	14,248	19.63	100.00			
Area of Australia		768,828,859						





PPA Instruments and Managers

Covenanting programme	Number	Area (ha)	Average size (ha)
Victoria: Trust for Nature covenants	1,242	53,370	43
NSW Voluntary Conservation Agreements	367	143,050	390
NSW Registered Property Agreements	237"	44,150	186
NSW Nature Conservation Trust covenants	73	16,687	229
Tasmanian Private Land Conservation Program covenants	703"	83,644	119
South Australian Heritage Agreements	1,518	643,631	424
Queensland Nature Refuges	453	3,438,004	7,589
Western Australian (DPaW) covenants	169 ^w	17,386	103
Western Australian National Trust covenants	162	17,879 ⁱ	110
Northern Territory Conservation Covenants	2	640	320
Total	4,926	4,458,441	905

Organization	Number of properties owned ⁱ	Total Area (ha)	Average Area (ha)
Bush Heritage Australia	35	960,000	27,429
Australian Wildlife Conservancy	23	>3,000,000	130,400
Trust for Nature (Victoria) ^{II}	47	36,104	768
Nature Foundation SA	5	499,705	99,941
Nature Conservation Trust of NSW	12"	10,182	849
Tasmanian Land Conservancy	11 ^{iv}	7,283	662
South Endeavour Trust	7	80,846 ^v	11,506
Total	137	<mark>4,5</mark> 94,120	

Tasmanian Land Conservancy

- Not-for-profit NGO implementing three conservation strategies:
 - Land purchase and reservation 16 reserves, 18,000 ha, 52+ threatened species
 - Revolving fund over 30 properties protected
 - Collaboration with local communities eg Midlandscapes
- Management approach:
 - 'Open Standards' planning system
 - Science driven adaptive management, citizen science
 - Partnerships with local communities, businesses, artists, UTAS
- Financial model:
 - Attracts investment from governments, donors, bequests, carbon credits
 - Established >\$10M endowment fund, uses 6-7% return to fund staff and management
 - New PAs only when finance for purchase price plus ongoing cost of meeting management objectives has been secured



Engaging Local Communities in Tasmanian Grasslands Conservation



415,445 ha predominantly privately managed agricultural landscape with scattered remnants of native grassland

Less than 4% protected - one of Australia's most underreserved bioregions

One of 15 national biodiversity hot spots

Conservation in this landscape requires collective action of individual landholders

Silver Tussock Grass (*Poa labillardierei*) and Kangaroo Grass (*Themeda triandra*) with a rich diversity of herbaceous species

Lowland native grassland a Matter of National Environmental Significance under *Environmental Protection and Biodiversity Conservation Act 1999*







Legislation and Policy

Australian Government:

- $\circ~$ Administers legislative powers over MNES
- $\circ~$ Develops guiding strategies and frameworks
- Provides finance

Tasmanian Government:

- Administers Threatened Species Protection Act
- Administers private reserve programs
- Supports capacity development
- Provides incentives



Socio-economic Drivers of Change

Local land use decisions influenced by enterprise profitability, terms of trade

- Land use mix changing as irrigation enables farmers to increase dairy, crops, horticulture, viticulture, reducing area of native grasslands
- Landholder values, time constraints, level of trust influence biodiversity outcomes through effects on pro-environmental behaviours
- Longevity of programs, supportive political will and leadership affect the support and incentives for local community conservation actions
- Effectiveness of engagement influences human and social capital, which underpin capacity for local conservation action



Social-ecological System Model



Midlands Scenarios



Midlands Conservation Programs

Conservation on Private Land by Program	Area
Private Forest Reserves Program 1997–2006 (PFRP) ^a	10 571
Non Forest Vegetation Program (NFVP) ^a	6781
Forest Conservation Fund (FCF) ^b	7499
Forest Conservation Fund Direct Approach (FCFDA) ^c	3357
Midlands Biodiversity Hotspots Project (BHP) ^{d, 1}	1391
Midlands Biodiversity Hotspots Tender (MBHT) ^{c, 2}	6602
Protected Areas On Private Land (PAPL)	149
FCF Revolving Fund (RevFund) ^c	640
Roaring 40s Eagle Nest Protection Program (R40s) ^c	80
All conservation areas on private land	37 070
Conservation on Private Land by Tenure	Area
Private Land in perpetuity (on Tasmanian Reserve Estate TRE)	25 012
Private land Variable term Agreements (on TRE) ³	10 715
TLC Land in perpetuity (not on TRE)	580
TLC Stewardship Contracts (not on TRE) ⁴	763
All private reserves in Hotspot	37 070
All public reserves in Hotspot	32 704
Total	69 774

Midlandscapes Project

Partnership between local community, Tasmanian Land Conservancy, Bush Heritage Australia and Tasmanian Government



Cowell et al. (2013), Mitchell et al. (2015)

Key Elements of Midlandscapes

- Agreed Conservation Action Plan and accompanying Business Plan developed through participation with local community
- $\circ~$ Technical Working Group
- Full-time coordinator
- Staff for community liaison, site assessments, outcomes measurement
- Diverse tools:
 - Conservation covenants
 - Property acquisition: 'purchase and hold', 'revolving fund'
 - Biodiversity Hotspot Tender and Forest Conservation Fund
 - Offsets funding
 - Midlands Conservation Fund for stewardship contracts that pay local landholders to provide conservation outcomes

Benefits of Midlandscapes

- Multi-level collaboration, devolved decisionmaking and local self-organisation:
- Improves invasive species management
- Supports landholders' conservation values
- Extends local conservation practices
- Improves quality of information
- Builds trust
- Enhances program longevity
- Generates political support
- $\circ~$ Increases level of financial incentives



PPA Governance as Partnership Success Factors

- High level of local engagement
- Embedding of partners in non-hierarchical organisational structures
- $\circ~$ High levels of transparency and shared input into decision-making
- Time to develop relationships
- Mutual respect and trust between partners
- $\circ~$ Clear collective vision and plan
- Strong leadership
- Regular inclusive reviews
- Adaptive capacity
- Local economic benefits
- Secure annual core funding
- Deployment of multiple flexible tools



Challenges of Public – Private Conservation Partnerships

- \circ Legitimacy
- Accountability
- Sustainable funding

- Ongoing commitment
- Transaction costs
- $\circ~$ Capacity to adapt



Next Steps for PPAs

- Clarify definition and types
- More comprehensive national / international inventories
- $\circ~$ Improve knowledge sharing and information
- Improve monitoring and management effectiveness systems
- Demonstrate public benefits
- Strengthen government policy commitment and support
- Demonstrate conservation 'in perpetuity':
 - $\circ~$ PPA status transcends changes in ownership
 - $\circ~$ Legislated status
 - Formal commitment to long-term protection
 - $\circ~$ Certification and compliance



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