











Recommended citation

Threats to Nature project. 2022. Averting extinctions: The case for strengthening Australia's threat abatement system. Invasive Species Council, Bush Heritage Australia, BirdLife Australia and the Australian Land Conservation Alliance.

ISBN 978-0-6488809-5-0.

About us

The **Invasive Species Council** was formed in 2002 to advocate for stronger laws, policies and programs to keep Australian biodiversity safe from weeds, feral animals, exotic pathogens and other invasive species. We initiated the **Threats to Nature project** to reform Australia's national threat abatement system. Abating major threats is essential to stop extinctions, recover threatened species and ecological communities, prevent the decline of more biodiversity, and return ecosystems to health and resilience.

Bush Heritage Australia is a national not-for-profit organisation, protecting over 11.3 million hectares of ecologically important land for the benefit of nature and all Australians. Operating nationally, Bush Heritage owns and manages over 1.2 million hectares, partners with Aboriginal people to help protect a further 10 million hectares and works with other landholders including farmers to protect biodiversity and ensure our productive landscapes benefit from thriving native species. Within these areas we are focused on restoring natural ecosystem health and the viability of native species both on our reserves and across the broader landscape through effective threat management. We work where we are needed most and our reserves and partnerships protect threatened ecosystems and over 6,700 species of plants and animals, including at least 226 threatened species.

BirdLife Australia is an independent non-partisan grassroots charity with more than 200,000 supporters. Our mission is put birds and nature on the path to recovery within a decade by leading and facilitating action that halts biodiversity loss and restores ecosystems. BirdLife Australia takes a science and evidence-based approach to bird conservation. Where strong conservation plans are in place and well-resourced the evidence tells us that threatened species can be brought back from the brink of extinction. BirdLife Australia is the Australian member of the BirdLife International partnership, the world's largest partnership for conservation. With a 100-plus year history and Australia's strongest and longest-biological database, BirdLife Australia brings a wealth of knowledge to the protection of native birds.

The **Australian Land Conservation Alliance** represents its members and supporters to grow the impact, capacity and influence of private land conservation to achieve a healthy and resilient Australia. ALCA and its members support the diverse people, places and practices that contribute to the conservation and health of privately owned and managed land. Together, ALCA and its members work to address some of the most pressing conservation issues across the country – including tackling invasive species and managing national environmental biosecurity threats, restoring endangered ecosystems, protecting threatened species and using natural solutions to tackle climate change.

Acknowledgements

We acknowledge and pay our respects to the First Australians and their elders past and present. Effective threat abatement will need to harness the deep knowledge and land and sea management skills of Indigenous Australians, and facilitate their meaningful involvement in decision-making.

Many policy and ecological experts have contributed to the proposals in this report – in particular, participants in a 2019 threat abatement workshop and a working group consisting of representatives from Bush Heritage Australia, BirdLife Australia, Humane Society International, WWF-Australia, Ecological Society of Australia and TierraMar.

Inquiries

Email: TTN@invasives.org.auWeb: threatstonature.org.au

• ABN: 27 101 522 829

Intellectual property rights

© 2022 Invasive Species Council. Unless otherwise noted, copyright and any other intellectual property rights in this publication are owned by the Invasive Species Council. All material in this publication is licensed under a Creative Commons Attribution-NonCommercial-Share Alike 4.0 international licence, except for logos and third party content. You are free to use and adapt this publication in accordance with the licence terms, attributing the Invasive Species Council, using it for non-commercial purposes and keeping intact the original licence and copyright notice. The licence terms are available from https://creativecommons.org/licenses/by-nc-sa/4.0/.



AVERTING EXTINCTIONS

The case for strengthening Australia's threat abatement system













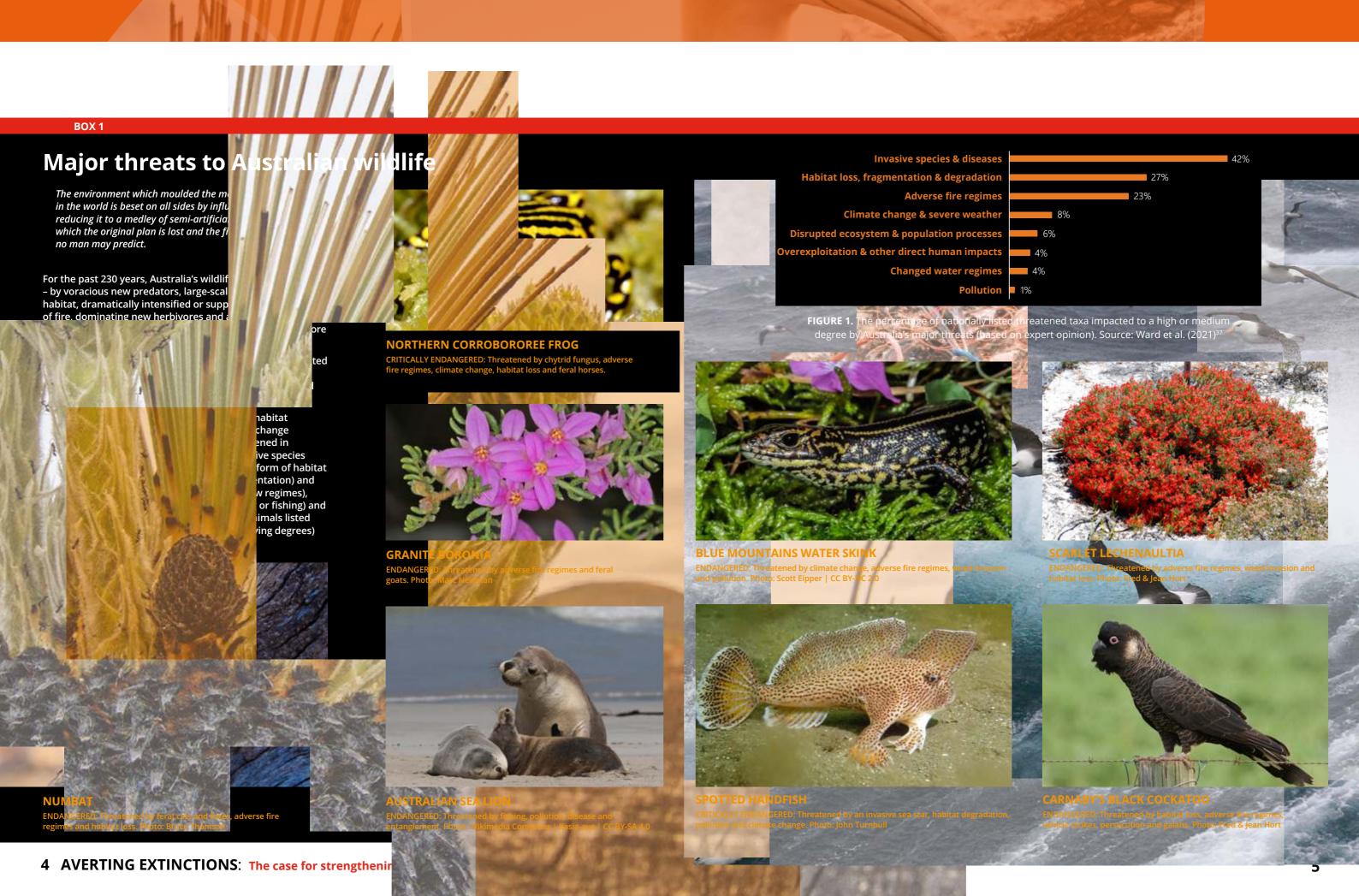


Photo: Paleokastritsa/Shutterstock.com

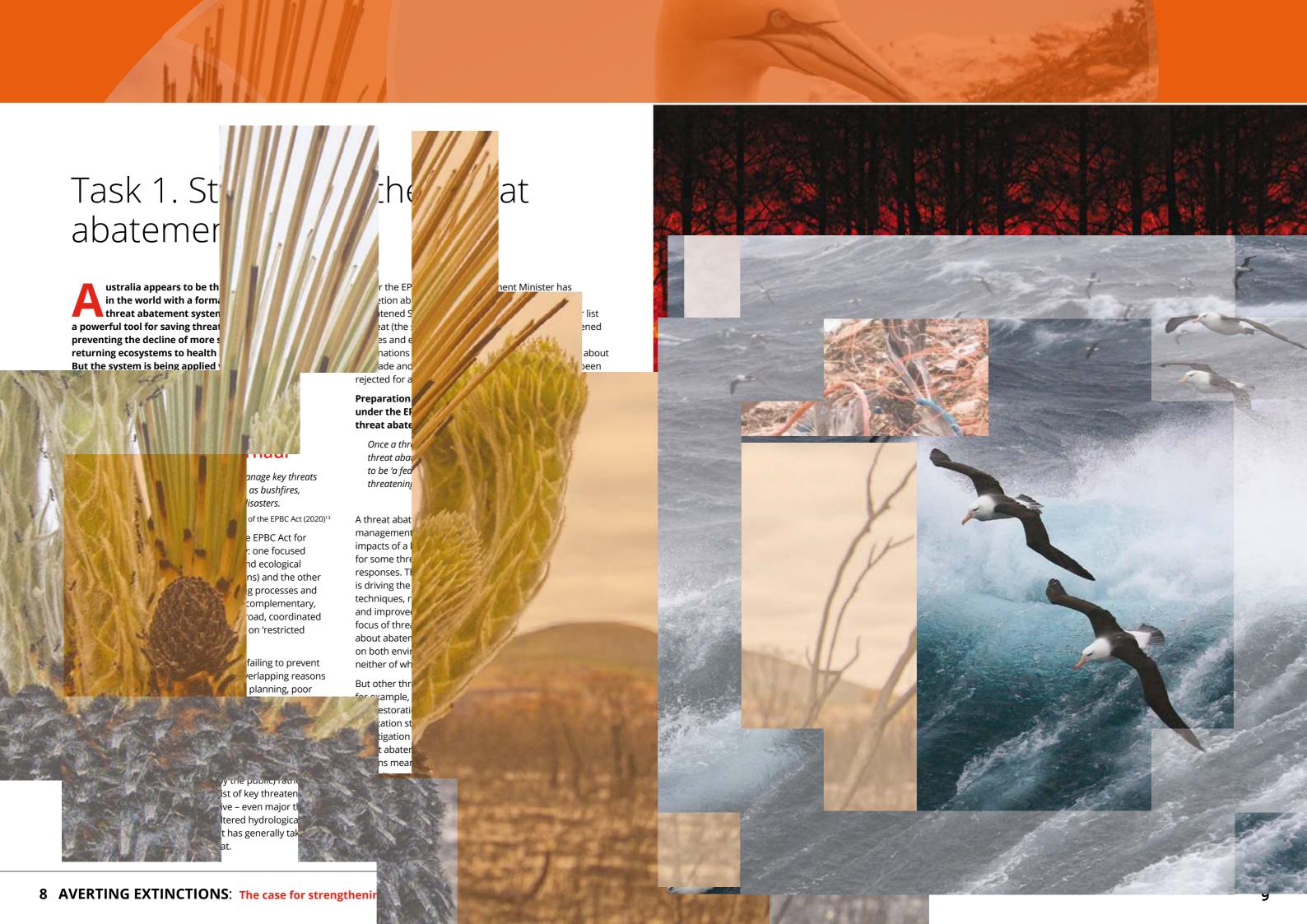
Contents

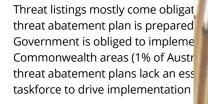
	Austra The in Austra	overwhelming important ralia's threats to nature apportance of focusing on threats alia's threat abatement system major reform tasks			
TASK 1	Strengthen the threat abatement system			ul8	
TASK 2	Secure adequate funding for threat abatement. Estimated funding needed Estimated funding allocated. Potential sources of additional funding. Recommendations to fund threat abatement				
TASK 3	Inspire a strong national commitment to threat abatement				
	Boxes		Figures		
	Box 1 Box 2	Major threats to Australian wildlife 4 Threat abatement successes 6	Figure 1	The percentage of nationally threatened taxa impacted to a high or medium degree by	
	Box 3	The current state of the threat abatement system 11	Figure 2	Australia's major threats 7 Proposed threat abatement responses 13	
	Box 4 Box 5	Independent review of the EPBC Act (2020) 11 More flexible threat-specific	Figure 3	A proposed schema for categorising major threats to nature 16	
	Box 6	abatement responses 14 Planning options for threat abatement 17	Figure 4	Elements of an effective threat abatement system 30	
	Box 7	The costs of threat abatement priorities in 3 regions 21			
	Box 8	An inspiring international example of threat abatement 25			











Reviews of threat abatement plans inadequate implementation. They than 40% of threat listings have res good abatement progress. Tellingly delisted since listings started 27 ye few examples of good abatement that major threats are surmountat

ement s ar repo

tcomesonitor an e differer

-date in ts and ir ts. This i tened sp ot monit -yearly r

often doesn't

ewing: The threat natic monitoring of, ndent reviewing of key

the capacity to effectively comes, and to understand ment interventions.

nt review of the EPBC Act (2020)13

of listed or most rates rement his

BOX 3

The current state of the threat abatement system

Key threatening processes

Listed: 21 KTPs are listed. Some are high-level threats (eg climate change) while others are specific (eg yellow crazy ants on Christmas Island); 14 are invasive species.

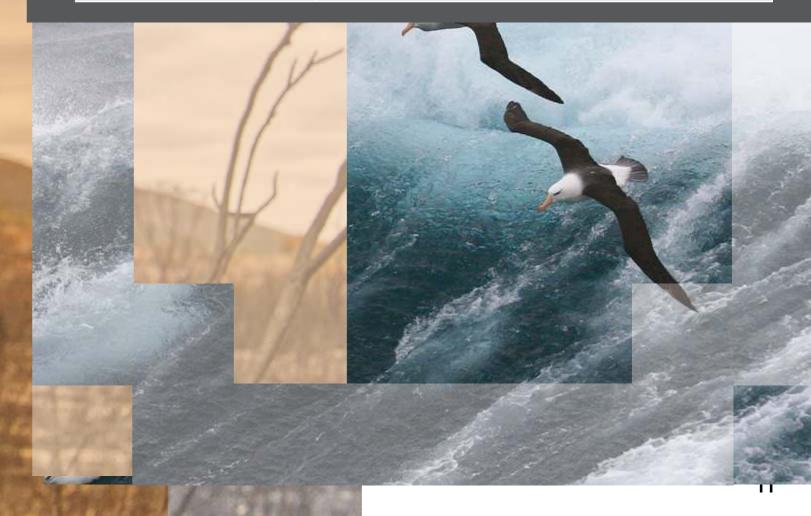
Not listed: Some of Australia's worst threats are not listed, eg adverse fire regimes, changed hydrological regimes and livestock grazing.

Threat abatement plans

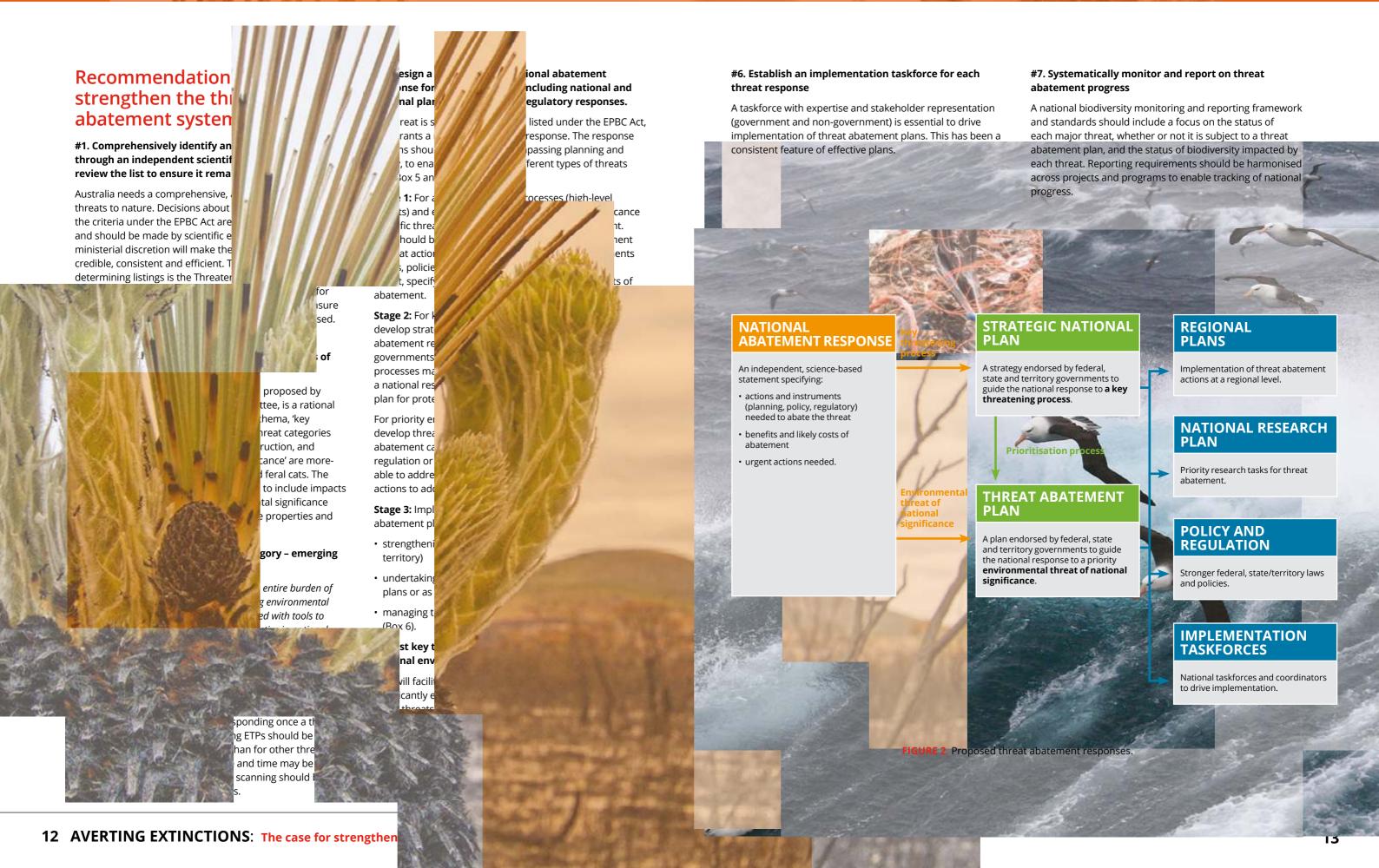
Threats with a plan: 12 KTPs have a threat abatement plan* and 2 invasive ant KTPs are covered under an action plan. Several plans out-of-date, 5 by a decade or more.

Threats without a plan: All high-level KTPs lack a plan: land clearance, climate change, novel biota.

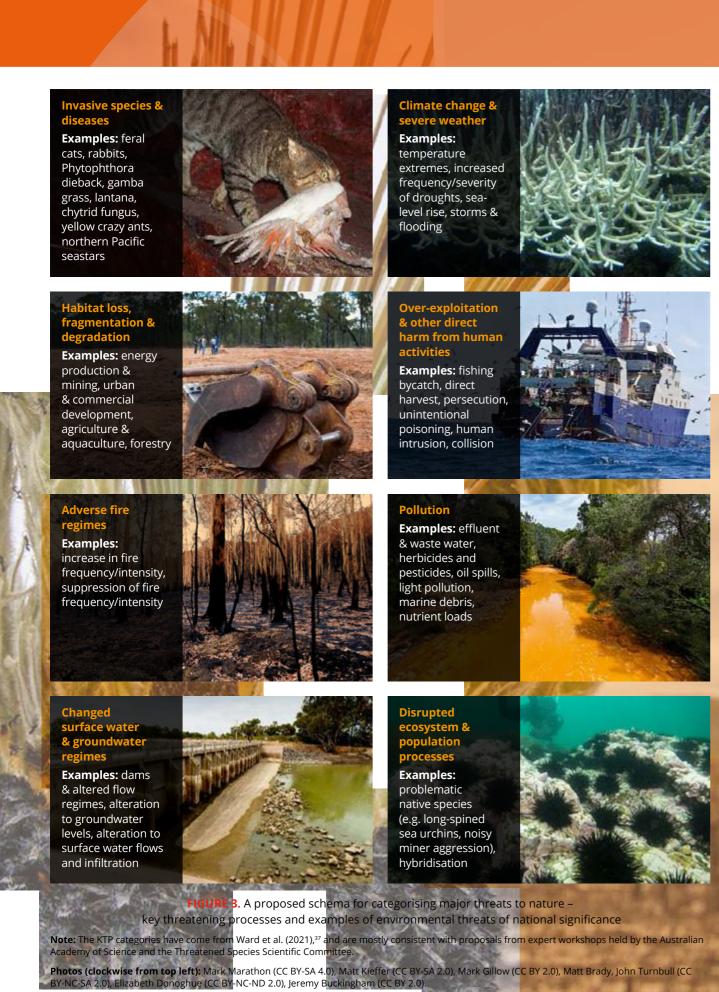
KTP type	Listed KTPs
Invasive species & diseases	Novel biota, rabbits*, feral goats*, feral cats*, red foxes*, cane toads*, 5 invasive pasture grasses*, Phytophthora dieback*, chytrid fungus*, red fire ants, yellow crazy ants (Christmas Island), feral pigs*, exotic rats (offshore islands)*, escaped garden plants, beak & feather disease
Habitat loss, fragmentation & degradation	Land clearance
Pollution	Marine debris*
Climate change	Climate change
Over-exploitation & direct human impacts	Longline fishing seabird bycatch*, trawling turtle bycatch
Disrupted ecosystem & population processes	Noisy miners

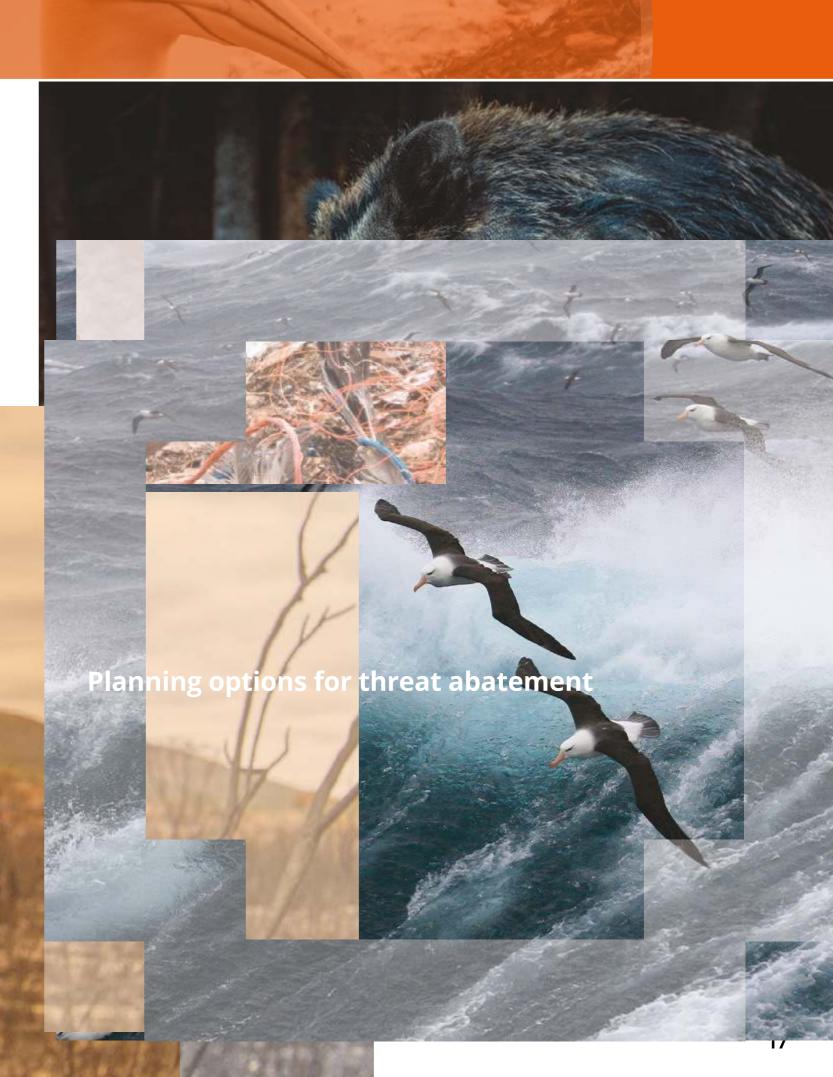


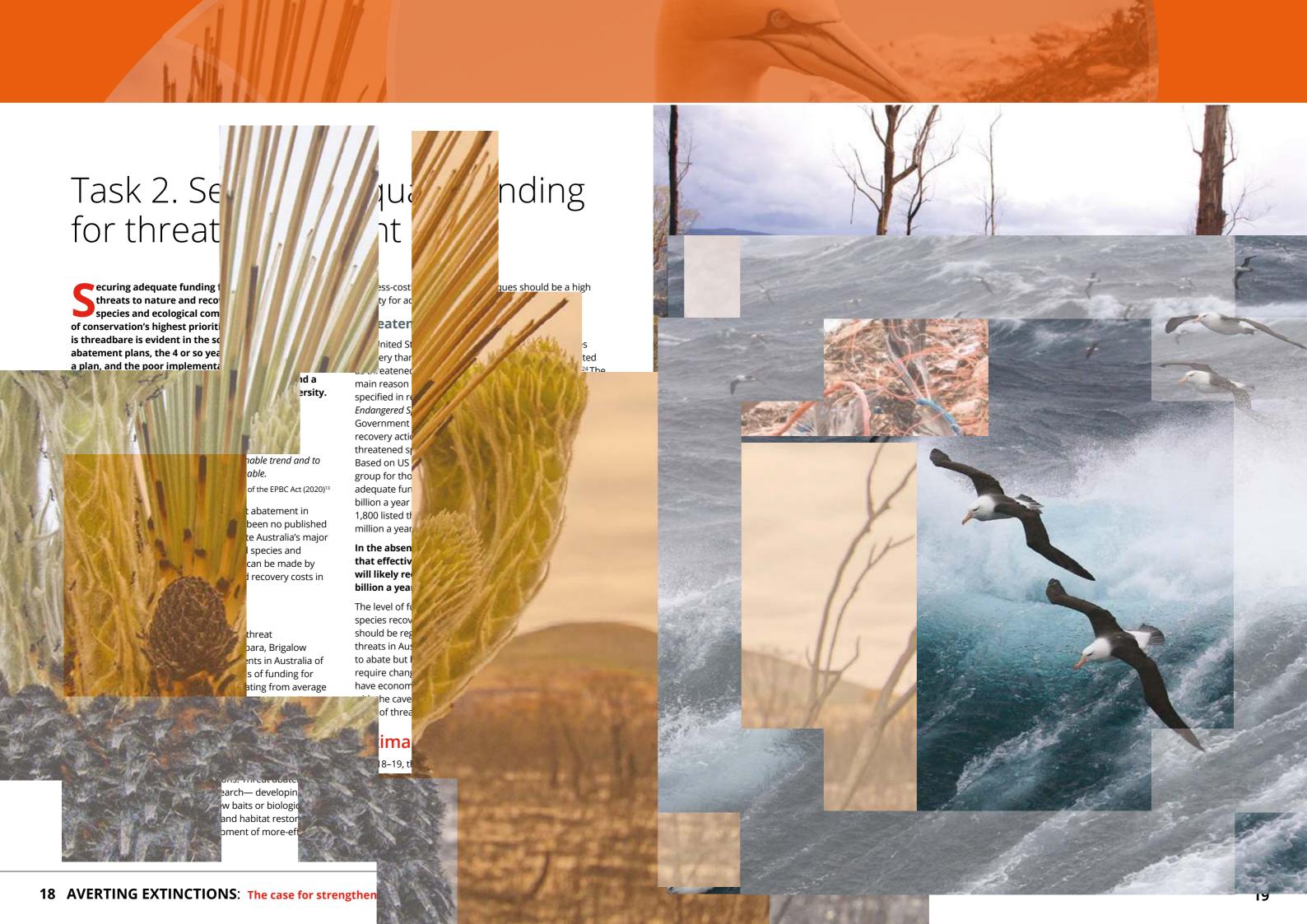














The estimated funding needed rep the 2019–20 budget, about \$90–12 so it is eminently affordable. Althor abatement funding from both pub essential, the majority of funding w come from governments for the fo

Levies are a common way for gove for environmental purposes or to r Environmental examples include le governments to fund bushland pu grants and invasive animal control,

> ment, ry icy

wide range o

al revenue. The obably the most ce for conservation by the Turnbull of a national age sites was te governments.

fund

less unless there ason, it has ne Convention on odiversity funding bilise resources of threat abatement – the ment and the economic ilures and successes.

for threat abatement very, likely to be at least fy the funding in the face leed to understand the and the consequences

nd ed to olid on

#9. Substant abatement a through biod a transparer

The level of fu

al costs

equence

alia nee

nreaten

2 billion

npeting

mic bei

dequate hreats t

rvation

benefit

arly def

mic and

ment ir

and threaten budget alloca revenue, but needed, we re impose biodiexacerbate the territory gove plan that include by (a) agreed a substantial (b) new source perhaps a nacontributions

Australia also funds to biod determined p – whether throther means.

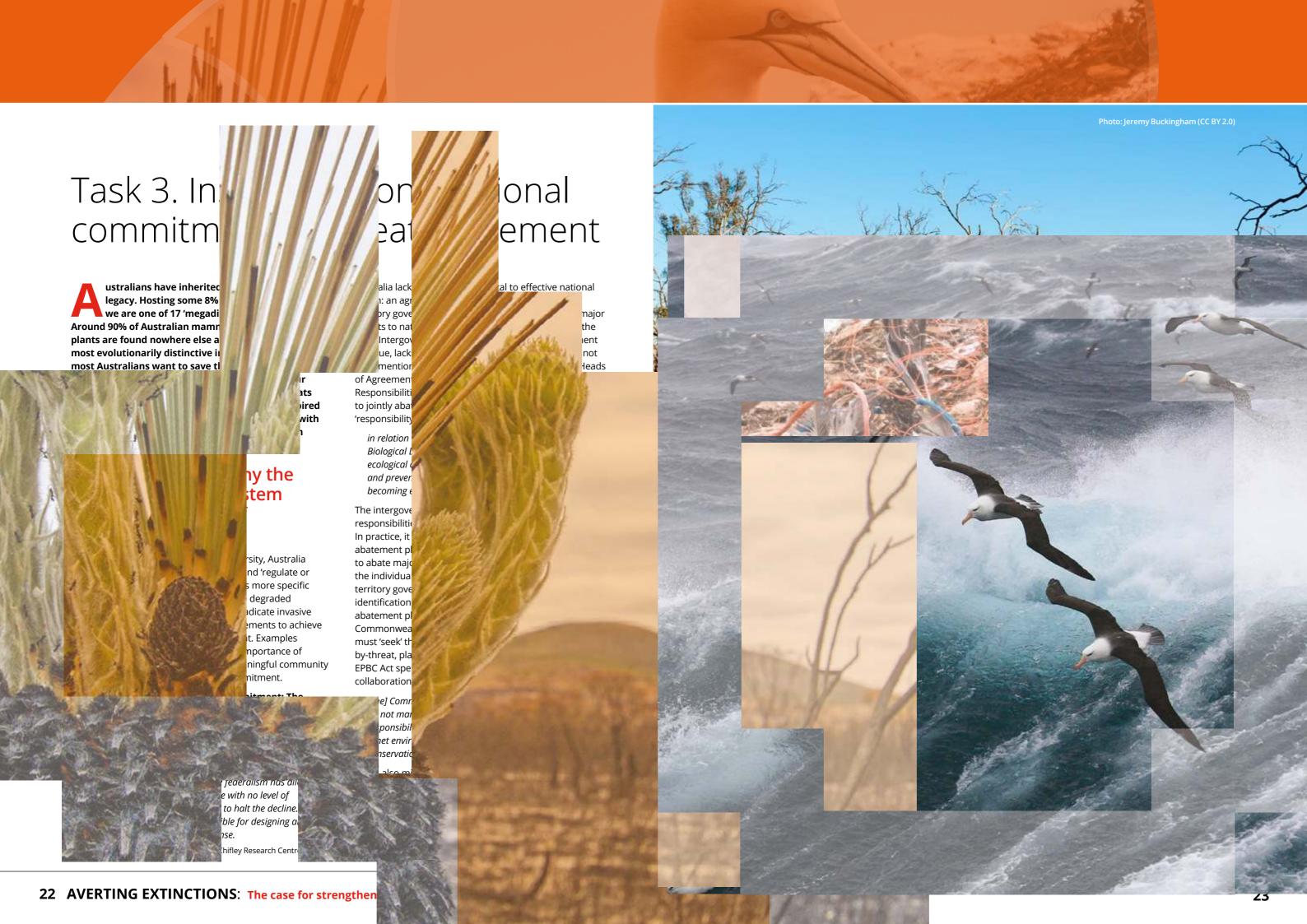
BOX 7

The costs of threat abatement priorities in 3 regions

For Queensland's Brigalow Belt, CSIRO's 2016 assessment found that 21 plant and animal species were likely to be functionally lost (their populations too low 'to maintain their ecological function') from the region within 50 years unless threats were effectively managed. An estimated annual investment of \$64 million (2020 dollars) over 50 years would likely avert the loss of 12 of these species, while the 9 other species would likely also require species-specific management.²³

For the Pilbara, CSIRO's 2014 assessment found that 53 conservation-significant species could probably be secured with an investment of about \$20 million a year over 20 years.²²

For the Kimberley, CSIRO's 2011 assessment found that 45 species at risk of functional extinction within 20 years could probably be secured with an initial investment of about \$100 million and an ongoing \$38 million a year over 20 years.²¹









Australia's threat abatement system needs to be more ambitious and systematic, better funded and nationally coordinated.

Better funded

- #8 Investigate the economics of threat abatement the annual costs of effective abatement and the economic consequences of abatement failures an successes.
- #9 Substantially increase public spending on threat abatement and threatened species recovery, including through biodiversity levies, and allocate funds based on a transparent prioritisation process.

Nationally coordinated

- #10 Develop an intergovernmental agreement that commits the Australian, state and territory governments to collaboratively abate major threats to nature.
- #11 Facilitate national collaborations by governments, Traditional Owners and community and crosssectoral stakeholders on abating threats to nature.
- 12 Introduce independent oversight of the national threat abatement system.
- 13 Set ambitious and inspiring goals for abating Australia's major threats to nature.



National taskforces

- Establish a taskforce for each threat abatement plan
- Foster collaborative cross-sectoral implementation

Abatement planning

 Collaboratively prepare national & regional abatement plans for major threats

Threat responses

 Develop fit-for-purpose planning & policy responses for each major threat

Threat status

 List major threats as matters of national environmental significance

Threat listing

- List all threats in a hierarchical schema
- Include a category for emerging threats

Threat assessment

Comprehensively & scientifically assess threats

Funding

 Substantially increase public spending on threat abatement.



 Commission research to develop effective abatement methods

Monitoring

 Establish a threats monitoring framework & standards

Reviewing & reporting

Regularly review & publicly report on abatement progress

Independent oversight

 Establish an independent oversight body to audit progress

Ambition & inspiration

 Set ambitious, inspiring national goals for abating major threats to nature

Intergovernmental agreement

 Federal & state/territory governments commit to cooperatively abate major threats.





ments of an effective threat abatement system.









The Threats to Nature Project is hosted by the Invasive Species Council. Our main donor for this project is the Australian Communities Foundation's Impact Fund.

