AVERTING EXTINCTIONS

The case for strengthening Australia's threat abatement system











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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.

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AVERTING EXTINCTIONS

The case for strengthening Australia's threat abatement system















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BOX 1

Major threats to Australi

The environment which moulded the m in the world is beset on all sides by influ reducing it to a medley of semi-artificia which the original plan is lost and the fi no man may predict.

For the past 230 years, Australia's wildlif - by voracious new predators, large-scal habitat, dramatically intensified or supp of fire. dominating new herbivores and a



NORTHERN CORROBOROREE FROG CRITICALLY ENDANGERED: Threatened by chytrid fungus, adverse fire regimes, climate change, habitat loss and feral horses.

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Invasive species & disease

Climate change & severe weather

Adverse fire regime

Pollutior

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Habitat loss, fragmentation & degradation

Disrupted ecosystem & population processes

verexploitation & other direct human impacts

BLUE MOUNTAINS WATER SKI ENDA rse fire reg Scott Eipper | CC BY





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Threat abatement successes

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Task 1. St abatemer

ustralia appears to be th in the world with a form threat abatement systen a powerful tool for saving threat preventing the decline of more s returning ecosystems to health But the system is being applied

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anage key threats as bushfires, lisasters. of the EPBC Act (2020)¹³

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Threat listings mostly come obligat threat abatement plan is prepared Government is obliged to impleme Commonwealth areas (1% of Austr threat abatement plans lack an ess taskforce to drive implementation

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 toring, sment s ar repo its and tcomesbnitor an differer -date in ts and ir ts. This i tened sp ot monit yearly r often doesn't

Myrtle rust is major new threat to Au

ewing: The threat natic monitoring of, ident reviewing of key is. the capacity to effectively comes, and to understand

nt review of the EPBC Act (2020)¹³

ment interventions.

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> Myrtaceae family. Photo: Tim Low

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.

КТР type	Listed KTPs
Invasive species & diseases	Novel biota, rabbits*, fe grasses*, Phytophthora Island), feral pigs*, exoti
Habitat loss, fragmentation & degradation	Land clearance
Pollution	Marine debris*
Climate change	Climate change
Over-exploitation & direct human impacts	Longline fishing seabird
Disrupted ecosystem & population processes	Noisy miners



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.

eral goats*, feral cats*, red foxes*, cane toads*, 5 invasive pasture a dieback*, chytrid fungus*, red fire ants, yellow crazy ants (Christmas tic rats (offshore islands)*, escaped garden plants, beak & feather disease

d bycatch*, trawling turtle bycatch



Recommendation strengthen the thi abatement systen

#1. Comprehensively identify an through an independent scientif review the list to ensure it rema

Australia needs a comprehensive, threats to nature. Decisions about the criteria under the EPBC Act are and should be made by scientific e ministerial discretion will make the credible, consistent and efficient. T determining listings is the Threater

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listed under the EPBC Act, response. The response passing planning and ferent types of threats

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#6. Establish an implementation taskforce for each threat response

A taskforce with expertise and stakeholder representation (government and non-government) is essential to drive implementation of threat abatement plans. This has been a consistent feature of effective plans.

NATIONAL ABATEMENT RESPONSE

An independent, science-based statement specifying:

- actions and instruments (planning, policy, regulatory) needed to abate the threat
- benefits and likely costs of abatement

urgent actions needed.

PLAN

threatening process.



nificance

significance

PLAN



Proposed threat abatement respon

#7. Systematically monitor and report on threat abatement progress

A national biodiversity monitoring and reporting framework and standards should include a focus on the status of each major threat, whether or not it is subject to a threat abatement plan, and the status of biodiversity impacted by each threat. Reporting requirements should be harmonised across projects and programs to enable tracking of national progress.

STRATEGIC NATIONAL

A strategy endorsed by federal, state and territory governments to guide the national response to a key

A plan endorsed by federal, state and territory governments to guide the national response to a priority environmental threat of national

REGIONAL **PLANS**

Implementation of threat abatement actions at a regional level.

NATIONAL RESEARCH PLAN

Priority research tasks for threat abatement.

POLICY AND REGULATION

Stronger federal, state/territory laws and policies.

IMPLEMENTATION TASKFORCES

National taskforces and coordinators to drive implementation.

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Invasive sp

KTP status: 14 i as KTPs.

Threat status: Australia.¹ Impa terrestrial and fi

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Effectiveness o threat abatemen tackling invasive and national col few threats, par eradication of in neglected. In 20' was listed as an 'ghost' listing, re of specific threat feral deer and in they are part of

Planning option

tically p approp r major ans (to p priority i on-grou

Habitat destructio

KTP status

Threat status: The major cause of plant extinctions in Australia.¹ Impacts >80% of nationally listed threaten terrestrial and freshwater species.⁴

Effectiveness of the threat abatement system: No action has resulted from the KTP listing – an abatement plan was not considered a feasible, effective and efficit way to abate the threat.

Planning options to strengthen threat abatemen Develop a national habitat restoration plan and prog Apply regional plans to protect and restore importar habitats.

Policy options to strengthen threat abatement: Apply national powers (or reach a national agreement) to prevent further large-scale habitat destruction and strictly protect habitats for threatened biodiversity.

Adverse fire regimes

KTP status: Under assessment since 2008. Likely to be listed in 2021–22.

Threat status: Impacts 66% of nationally listed threatened terrestrial and freshwater species.⁴

Planning options to strengthen threat abatement: National planning is needed to fill gaps, add value to and protect the national interest in state and territory fire programs. Apply the most appropriate planning option eg a strategic national plan or threat abatement plan to specify national abatement objectives and priority research and actions – and regional and site-specific plans (eg for World Heritage sites) to help drive implementation and manage cumulative impacts.

licy options to strengthen threat abatement: corporate threat abatement and biodiversity recovery iorities into disaster management arrangements.

Climate change KTP status: Listed in 200

Threat status: Impacts 35% of nationally listed threatened terrestrial and freshwater species.⁴

Effectiveness of the threat abatement system: No action has resulted from the KTP listing: an abatement plan was not considered a feasible, effective and efficient way to abate the threat.

Planning options to strengthen threat abatement: Develop a national climate adaptation strategy and specific plans for elements of adaptation such as protection of climate refugia. Regional planning can help drive implementation and management of cumulative impacts.

Policy options to strengthen threat abatement: Strengthen mitigation by the protection (and enhancement) of natural carbon sinks. Develop a national policy on translocations of native species.

nvasive species & isaasas

Examples: feral cats, rabbits, Phytophthora dieback, gamba grass, lantana, chytrid fungus, yellow crazy ants, northern Pacific seastars

datio

Examples: energy production &

mining, urban

& commercial

development,

agriculture &

verse fire

increase in fire frequency/intensity,

suppression of fire

frequency/intensity

Examples:

aquaculture, forestry



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nate ch Examples: temperature extremes, increased frequency/severity of droughts, sealevel rise, storms & flooding



er-exploitation & other direct harm from human activities Examples: fishing bycatch, direct harvest, persecution, unintentional poisoning, human intrusion, collision



Examples: effluent & waste water, herbicides and pesticides, oil spills, light pollution, marine debris, nutrient loads



Examples: dams & altered flow regimes, alteration to groundwater levels, alteration to surface water flows and infiltration



m & cesses Examples: problematic native species (e.g. long-spined sea urchins, noisy miner aggression), hybridisation





Photos (clockwise from top left): Mark Marathon (CC BY-SA 4.0), Matt Kieffer (CC BY-SA 2.0), Mark Gillow (CC BY 2.0), Matt Brady, John Turnbull (CC BY-NC-SA 2.0), Elizabeth Donoghue (CC BY-NC-ND 2.0), Jeremy Buckingham (CC BY 2.0).







Task 2. Se for threat

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Potential sources additional funding

The estimated funding needed rep the 2019–20 budget, about \$90–12 so it is eminently affordable. Althou 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

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

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#9. Substant abatement a through biod a transparer

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Australia also funds to biod determined p - whether thr other means.

f threat abatement – the ment and the economic lures and successes.

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

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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

Task 3. In commitm

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millennia-old cultural practices, the on islands and in fenced reserves f ambitious eradication programs su ants in Queensland, large-scale res as Gondwana Link in south-wester suppression of invasive predators Shield program, NGOs and private privately managed conservation re cooperating across multiple tenure species for mutual benefit.

But without nationally led coordina efforts are inevitably only pieceme vision about what Australia could a systematic abatement of threats. A

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- #2 List three threaten national
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- plans, ar #5 List key t environr
- #6 Establish threat ab
- #7 Systema abatem

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 successes.
- #9 Substantially increase public spending on thre abatement and threatened species recovery, including through biodiversity levies, and alloc funds based on a transparent prioritisation process.

Photo: I. Noyan Yilmaz/Shutterstock.com

Nationally coordinated

- #10 Develop an intergovernmental agreement that commits the Australian, s nd territory governments to collaborative ate major threats to nature.
 - Facilitate national collaboration overnments, Traditional Owners and communi d crosssectoral stakeholders on abating three to nature. Introduce independent oversight of the national threat abatement system.
- 13 Set ambitious and inspiring goals for abating Australia's major threats to nature.



- 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.



abatement methods

Intergovernmental agreement

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



ments of an effective threat abatement system.

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• Commission research to develop effective

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



Reference

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