16th September 2020

Professor Graeme Samuel AC, and EPBC Act Review Secretariat Department of Agriculture, Water and the Environment (DAWE) GPO Box 787 CANBERRA ACT 2601

Dear Professor Samuel and the Secretariat,

RE: Submission to the Interim Report of the Independent review of the EPBC Act

Thank you for this opportunity to make a submission to the Interim Report of the Independent Review of the Environment Protection and Biodiversity Conservation Act (hereafter "EPBC Act").

I also thank-you for the invitation to participate in the EPBC Act Review Consultative Group in our fortnightly meetings between July and September this year.

Here, I provide a summary of comments I have made as part of this consultative process, and that I believe remain critical for consideration in reforms to the EPBC Act. I also attach tracked changes and comments I have made to the Overarching MNES and Threatened Species and Ecological Communities versions of prototype standards provided to the Consultative Group prior to its final meeting (Meeting 4) by the review Secretariat.

My comments here should be read in conjunction with my original submission to the Review (dated 17th April 2020).

Once again, thank you for the opportunity to contribute to the Review. I am happy to provide any further assistance or input going forward.

Yours sincerely,

Dr Megan Evans Lecturer, Public Sector Management Australian Research Council DECRA Fellow School of Business University of New South Wales, Canberra <u>megan.evans@unsw.edu.au</u>

Summary of key points and recommendations provided to the EPBC Act Review Consultative Group

Megan Evans, University of New South Wales, Canberra

I agree with the interim report's recommendations that there is a need for greater consistency, simplicity, transparency, enforceability, and a focus on outcomes in the EPBC Act. I support the development of legally enforceable National Environmental Standards (NES).

However, for the NES to work effectively, they must:

- 1. encompass what is needed to ensure the EPBC Act is effective and efficient.
- 2. apply at all scales from the project level to the regional and national.
- 3. not contain ambiguous, vague or unclear language
- 4. be supported in their implementation, with appropriate training, regulatory support and consistency in their interpretation and application by federal and (if accreditation and devolution occurs) state/territory staff.
- 5. be supported by a credible assurance framework, and an independent regulatory body
- 6. not be expected to provide a "silver bullet" for Australia's extinction crisis, but rather form part of a broader system of funding and programs that incentivise the restoration and recovery of threatened species and ecological communities across land- and sea-scapes

If the above issues are not addressed in the drafting and introduction of NES, there is a risk they may:

- replicate existing problems with the EPBC Act, e.g introducing new terms that require interpretation, are complex, repetitive, voluminous and therefore further add to the regulatory burden:
- create new problems with the implementation of the EPBC Act, e,g if there is insufficient
 resourcing, training and consistency in advice provided to staff within and between government
 agencies. Note that the Australian National Audit Office has consistently identified major
 deficiencies in the federal Department's capacity to implement the Act effectively. If
 accreditation/devolution occurs, how can it be assured that state/territory agency staff are
 adequately trained and provided with resources required to do this work?
- not be used or applied correctly, if legislative reforms don't embed sufficient regulatory "hooks" into decision making processes, meaning they can be skipped over in practice as is often the case for existing guidelines, policies and statutory documents like recovery plans.

Development of NES has been the major focus of the EPBC Act Review Consultative Group (CG). I have provided commentary and suggestions in the drafting of prototype standards as they were developed over the course of CG meetings, but I provide here my comments on the prototype standards provided to the Consultative Group prior to its final meeting (Meeting 4) by the review Secretariat:

1. The NES should encompass what is needed to ensure the EPBC Act is effective and efficient

The concept of Column A/Prototype 2.0 – Current settings and Column B/ Prototype - Future State was introduced in CG meetings

- Column A/Prototype 2.0 was defined as: 'Current settings' reflect the current legislative provisions of the EPBC Act and regulations, as well as current guidelines or documents (such as plans, statutory documents or relevant codes), and are considered able to be implementable in the very near term
- Column B/ Prototype Future State was defined as: 'Future state' standards require legislative changes to address gaps or constraints in the legislation.
- Prototype 1.0 reflects the Standards as presented in the Interim Report

However, I observed aspects contained within "Column B/ Prototype Future State" in the version distributed by the EPBC Review Secretariat on 3rd September 2020 **do NOT require legislative or policy change, e.g**

- "Maintain and enhance" in absolute terms does not require policy or legislative change. It requires a change in the *interpretation and application of the EPBC Act in practice*
- Monitoring, reporting and evaluation was specified for "compliance" in Column A/Prototype 2.0, yet "achievement of an environmental outcome" in Column B/ Prototype Future State. Monitoring, reporting and evaluation to measure environmental outcomes does not require policy or legislative change. It requires a change in the *interpretation and application of the EPBC Act in practice*
- An Environmental Offsets Standard was only specified in Column B/ Prototype Future State. Environmental offsetting is already guided by the EPBC Act Environmental Offsets Policy 2012.
 I see no reason why explicit an Environmental Offsets Standard would require policy or legislative change.

I am concerned that placing these issues within Column B/ Prototype Future State is unnecessarily placing them outside the scope of the current Review and reform process.

Adopting the recommendations presented in Column A/Prototype 2.0 actually risks the creation of NES that are *worse* than the policy and legislative settings currently under the EPBC Act

I therefore **recommend that Column A/Prototype 2.0 is deleted**, and instead the NES are developed with the settings needed to ensure the EPBC Act is effective and efficient

2. The NES must apply at all scales from the project level to the regional and national.

The use of the term 'collectively' within the prototype standards provides ample scope for individual actions assessed and approved under the NES to NOT meet the Standard.

Point 4) under Prototype 2.0 says the Standard is "relevant to activities at all scales including individual projects" but in the next sentence "the overall outcome could result from the collective achievements of a combination of activities". This is self-defeating and contradictory.

I note that this problem will remain if a different term is used, e.g overall, cumulatively, altogether.

I recommend that the term "collectively" (and related words) be removed from the NES

3. Vague and ambiguous language should be removed from the NES

There are many examples of "weasel words" being introduced into the prototype standards. Vague and ambiguous language contribute to delays, inefficiencies, poor outcomes and confusion if they are included in the final NES. For example, unsustainable, irreparable, reasonable, meaningful, unacceptable, ecologically feasible

I provide specific comments and tracked changes to the Overarching MNES and Threatened Species and Ecological Communities in an Attachment, using Column B/ Prototype Future State (renamed Prototype Standard) as the basis.

4. The NES cannot be expected to simply "work" – their effective operation relies on targeted and effective support and training of federal, state and territory government staff, as well as sustained investment in supportive infrastructure (e.g data and information systems)

My original submission and latest Australian National Audit Office report provides ample evidence of the scarce and declining funding provided to the federal Environment Department. Effective policy implementation requires systems, organisations and people all interpreting and applying the policy correctly.

This means that the introduction of NES will require concerted training, capacity building and organisational leadership, to ensure federal and (if accreditation and devolution occurs) state/territory departmental staff are supported to correctly apply the EPBC Act and the NES.

I strongly support the interim review's recommendation for investment to enable a "complete overhaul" of the "antiquated" information systems currently used to inform environmental decisions under the Act.

5. An effective and credible assurance framework, including an independent regulatory (statutory) body

NES must be thought of as one component of an overall structure or architecture, whereby the operation of different parts of that structure together provides assurance. If the Commonwealth is to be the Standards holder, assurance cannot be provided without some form of independent oversight of those

standards. I agree with the interim report's recommendation for the establishment of independent compliance and enforcement body that is "not subject to actual or implied political direction".

Environmental standards, and the processes/systems of governance within which they operate have been highly developed across numerous voluntary and compliance environmental markets over the past 20 years (e.g Forest Stewardship Council, carbon offsetting). Within such schemes, there are a number of core functions, and market participants. Assurance and trust in the system emerges via:

- different market participants undertaking different functions
- functions enabled and overseen by codes of practice or legislation
- infrastructure, e.g a public facing and accessible registry containing sufficient information to enable market activity and provide community assurance

The structure/architecture that the Australian Government adopted to govern the carbon market is a good example of this - and is a key reason why Australian Carbon Credit Units (ACCUs) are considered to be high quality and a worthwhile investment. To me it makes sense to model this existing success story.

I maintain my recommendation that the Clean Energy Regulator is a reasonable model to look towards as an independent statutory authority with clear, independent powers relating to compliance and enforcement, monitoring and audit. A genuinely independent regulator can also provide a market enabling function by providing the market assurance necessary to leverage private investment.

I recommend that staff working within any new Commonwealth unit that carries out compliance, enforcement, performance monitoring or audit functions under the EPBC Act should ultimately report to an independent statutory office holder, not a Branch head, deputy secretary or secretary of the Department of the Environment. This statutory office holder should at a minimum be an independent officer of Parliament and be able to report to Parliament independently of the Minister for the Environment.

6. National Environmental Standards are not the "silver bullet" for an effective EPBC Act – a "quantum leap" in funding and investment is still required to reverse the Australian environment's unsustainable state of decline

I appreciate that the primary focus of the EPBC Act Review Consultative Group was on on the development of Standards. However, even if excellent Standards are introduced and applied, there still needs to be a "quantum leap" forward in funding and capacity to reverse Australia's unsustainable downward environmental trajectory. The latest science estimates 1,700 of Australia's threatened species could be recovered with about \$1.7bn annually (Wintle *et al.*, 2019 *Conservation Letters*).

Australia also need a "quantum leap" forward in how landscape scale management and restoration is incentivised, especially across agricultural landscapes. This will long term, sustained investment, strategic leadership from government, and strong partnerships with agriculture, industry, finance and conservation sectors.

Prototype standards provided to the EPBC Consultative Group by the review Secretariat on 9th September Megan Evans (UNSW Canberra), comments on as of 16th September 2020

Attachment 1: Overarching MNES Standards

'Current settings' reflect the the current legislative provisions of the EPBC Act and regulations, as well as current guidelines or documents (such as plans, statutory documents or relevant codes), and are considered able to be implementable in the very near term. 'Future state' standards require legislative changes to address gaps or constrainsts in the legislation.

		Prototype 2.0: Prototype 2.0 -	Prototype Standard	Evans comments	Deleted: Future State
Element	Prototype 1.0: Interim Report	Interim Standards based on current settings			
Element Environmental Outcome	Prototype 1.0: Interim Report Matters of national environmental significance are protected, and decision-making actively contributes to their conservation and recovery.	Interim Standards based on current settings Matters of national environmental significance are protected, and decision making actively contributes to their conservation, appropriato management and recovery. *For heritage places, this includes the human or cultural values rolated to place.	Matters of national environmental significance are protected, maintained and improved* and decision-making actively contributes to their conservation, management and recovery. *For heritage places, this includes the human or cultural values related to place.	Suggest maintain and improve to be consistent with existing EPBC policy language, i.e Environmental Offsets Policy 2012 Regardless of specific language, "maintain and enhance/improve " in absolute terms does not require legislative or policy change. It simply requires a change in the interpretation and application of the Act in practice. The current EPBC Environmental Offsets Policy 2012 specifies "improve or maintain" relative to a counterfactual, where the counterfactual selected is <i>usually</i> one of biodiversity decline (if the Risk of Loss factor is greater than 0). But we know that the counterfactuals selected and approved under the Act are often worse than reality (see Maron et al. 2015 and Maseyk et al. 2020). It is still within policy scope for a counterfactual to be the present state that is maintained, which translates to a counterfactual of an EPBC Act that at least maintains the existing state of MNES. For an effective EPBC	Deleted: Future State Deleted: enhanced Deleted: over time Deleted: appropriate Deleted: appropriate Commented [ME1]: Maron M., Bull J. W., Evans M. C. & Gordon A. (2015) Locking in loss: Baselines of decline in Australian biodiversity offset policies. <i>Biological Conservation</i> 192: 504–512 http://www.sciencedirect.com/science/article/pii/S000632071500212 8
				Act, the counterfactual should actually be one of recovery.	Maseyk F. J. F., Maron M., Gordon A., Bull J. W. & Evans M. C. (2020) Improving averted loss estimates for better biodiversity outcomes from offset exchanges. <i>Oryx</i> : 1–11

averted-loss-estimates-for-better-biodiversity-outcomes-from-offsetexchanges/B0E2657541609762085DD3D9162EBED6

		Prototype 2.0: Prototype 2.0 -	Prototype <u>Standard</u>	Evans comments	Deleted: Future State
Element	Prototype 1.0: Interim Report	Interim Standards based on current			
		settings			
		1) Collectively, actions, decisions,	1) <u>Actions, decisions, plans and</u>	I recommend the term "collectively" (and related	 Deleted: Collectively, a
		plans and policies that relate to	policies that relate to MINES <u>must</u> :	words) be removed from the Standards:	
	1) Actions and decisions are	WINES.	Improve or maintain	The term itself is problematic, but the	Deleted: Meintein er enkenee
	consistent with the	Are consistent with the objects of	environmental values.	problem will remain if a different term	Deleted. Maintain of enhance
	principles of ecologically	the EPBC Act and the	ecological and cultural	is used, e.g overall, cumulatively,	
	sustainable development.	principles of ecologically	integrity, and resilience of	altogether	
	2) Actions do not have	sustainable development	MNES	. It provides ample scope for individual	Deleted: over time.
	unacceptable ^a impacts on	including the precautionary	Bo consistent with the chiects of	actions under the Standard to NOT	
	matters of national	principle and the principle of	the Act including the	meet the Standard. Point 4) under	Deleted: Are
	 environmental significance. 3) Planning and funding decisions that relate to matters of national environmental significance promote their conservation and sustainable management address key 	non-regression.	principles of ecologically	Prototype 2.0 says the Standard is	
		Do not have unacceptable or	sustainable development.	"relevant to activities at all scales	
		unsustainable impacts on	the precautionary principle and	including individual projects" but in the	
		MNES, having regard to the	the principle of non-regression.	next sentence "the overall outcome	
		sensitivity, value, and quality	Not have upgegentable or	could result from the collective	
		of the environment which is	irrenarable impacts on MNES	achievements of a combination of	Deleted: Do n
		impacted, and upon the	having regard to the	contradictory	
National		intensity, duration,	sensitivity value and quality	oon dad olor yr	
Standard	threats and fill key	magnitude and geographic	of the environment which is	 It is not specific, granular or 	
	4) Monitoring, reporting and	extent of the impacts.	impacted, and upon the	unambiguous	
		Avoid, mitigate or offset	intensity, duration, magnitude		
		significant impacts and	and geographic extent of the		
	evaluation must	take all reasonable steps to	impacts.		
	demonstrate compliance	minimise harm to MNES.	Avoid mitigate or as a last resort	The terms "unaccentable" "unsustainable" and	
	with this national	Are not inconsistent with recovery	only, and where there is strong	"irreparable" will require definition.	
	environmental standard.	plans, management plans	scientific evidence of		
	National Environmental Standards for	and threat abatement plans,	feasibility, fully offset		
	ecologically sustainable development	and have regard to any	significant impacts and		
	and monitoring and evaluation should	approved conservation	minimise harm to MNES.		Deleted: offset impacts and take all reasonable steps to
	be developed and would replace 1.	advice where relevant.	Be consistent with recovery plans		Formatted: Not Strikethrough
	and 4. Interim monitoring and	Promote their conservation and	management plans and threat		i of matted. Not Suikethiough
	in the monitoring and reporting	sustainable management,	abatement plans, and are		
	section of this Standard.	address detrimental	consistent with any approved		Formatted: Not Strikethrough
		cumulative impacts and key	conservation advices		Formatted: Not Strikethrough
		threatening processes and			i of mattea. Not Suikeunough
1		fill information gaps that			

		Prototype 2.0: Prototype 2.0 -	Prototype <mark>"Standard</mark>	Evans comments		Deleted: Future State
Element	Prototype 1.0: Interim Report	Interim Standards based on current				
		settings				
		impede recovery and	Promote their recovery and			- Deleted f
		appropriate management.	management including by			
		appropriate management.	addressing cumulative			Deleted: sustainable
		Use all reasonable efforts to	impacts managing threats and			
		prevent detrimental	filling information gaps that			
		cumulative impacts or	impede recovery and	Monitoring, reporting and evaluation should		Formatted: Font color: Custom Color(RGB(79,98,40))
		exacerbation of key	appropriate management.	measure achievement of an environmental		
		threatening processes on		outcome AND demonstrate achievement with		
		MNES.	Are based on the best available			Formatted: Not Strikethrough
		Are based on the best available	information, and stored and	Currently, most environmental conditions		
		information, and stored and	snared consistent with the	specify processes, not outcomes. This means		
		shared consistent with the	Data and information NES.	that frequently, compliance with environmental		
		Data and Information NES.	Monitoring, reporting and evaluation	conditions does not imply an environmental		Deleted: ¶
		Magningful angegement is undertaken	demonstrates compliance with	outcome has been achieved (see Lindenmayer		
		with governments, the community	conditions, measures the	et al. 2017).		Commented [ME2]: Lindenmayer D. B., Crane M., Evans M. C.,
		land holders and indigenous	achievement of the environmental	However, it is still appropriate in some cases to		anatomy of a failed offset <i>Biological Conservation</i> 210. Part A:
		neonles	outcome, or demonstrates where	apply process-based conditions in combination		286–292
			further action is needed.	with outcomes-based conditions.		http://www.sciencedirect.com/science/article/pii/S00063207173
		Monitoring, reporting and evaluation	Meaningful engagement is undertaken	Further legislative and policy change is NOT	-	<u>0349X</u>
		demonstrates compliance with this	with governments, the community,	required to increase the application of	-	Formatted: Normal, Indent: Left: 0 cm, Hanging: 0.75 cm,
		national environmental standard.	land-holders and Indigenous	outcomes-based conditions, or to require		Space Before: 6 pt, Line spacing: Multiple 1.05 li, Don't
		The standard is relevant to activities at	peoples.	monitoring that measures the achievement of		nypnenate, Tab stops: 0.25 cm, Left
		all scales including individual	This standard applie to activities at a	the environmental outcome. DAWE already has		Deleted: 1
		projects, regional plans, and	range of scales including individual	an outcomes-based conditions policy (2016).		Deleted: nationally, and can apply
		activities under government	projects and regional plans and in	This means that the Recommended Standard		
		legislation and policies. The	state, territory and national	should specify Monitoring, reporting and		Commented [ME3]: <u>https://www.environment.gov.au/epbc/p</u>
		overall outcome could result from	legislation and policies implemented	evaluation demonstrates compliance with		guidance#:~:text=The%20outcomes%2Dbased%20conditions
		the collective achievements of a	or accredited under the EPBC Act.	conditions AND measures the achievement of	_	%20policy.efforts%20on%20monitoring%20environmental%20
		Complitation of activities.		the environmental outcome, or demonstrates	\sim	outcomes.
				where further action is needed		Deleted: The standard can be achieved by the collective
				Not emphasising monitoring that measures the		outcome arising from a suite of relevant activities.
				achievement of the environmental outcome in		
				the Recommended Standard risks locking in		
				inadequate practice that is below existing policy		
				and requirements and demonstratably fails to		
				meet the objects of the Act.		Formatted: Normal, Space Before: 6 pt. Line spacing:
						Multiple 1.05 li, No bullets or numbering, Don't hyphenate,
						Tab stops: 0.25 cm, Left

Element	Prototype 1.0: Interim Report	Prototype 2.0: Prototype 2.0 – Interim Standards based on current settings	Prototype <mark>"Standard</mark>	Evans comments	Deleted: Future State
Monitoring and Reporting	 A monitoring and evaluation plan must be prepared. The plan must: be based on best available knowledge and information, and implement the precautionary principle^b. Scenario analysis may be useful when uncertainty is high establish the baseline, key indicators, and monitoring activities relevant to the protected matter be over a time frame and area relevant to the potential risk, and identify thresholds for when Standards are not being met and the management response. The plan and monitoring results, and the underpinning data and information on which they are based, must be published. Accurate and complete monitoring and compliance records must be kept and provided to the Department upon request. 	 A monitoring and evaluation plan must be prepared and implemented for each MNES standard which must: address impacts for each MNES, and be designed to understand and track all cumulative impacts at the relevant scale (og national, state-wide, regional plan areas or project eite) cover all actions, activities, decisions, plans, or policies that impact the outcomes for MNES, relevant to the scale establish the baseline, key indicators, monitoring activities, evaluation and reporting processes relevant to the protected matter and the activities being conducted, be based on the best available evidence, and accord with the NES for Data and Information, and other relevant to the potential risk or benefit to the MNES be designed to ensure the state of the MNES and any changes in its state can be quantified, with the power of 	 A monitoring and evaluation plan must be prepared and implemented for each MNES standard which must: address impacts for each MNES, and be designed to understand and track all cumulative impacts at the relevant scale (eg national, state-wide, regional plan areas or project site) cover all actions, activities, decisions, plans, or policies that impact the outcomes for MNES, relevant to the scale establish the baseline, key indicators, monitoring activities being conducted, be based on the best available evidence, and accord with the NES for Data and Information, and other relevant NES or guidelines be over a time frame and area relevant to the potential risk or benefit to the MNES be designed to ensure the state of the MNES and any changes in its state can be quantified, with the power of analysis to 		

Element	Prototype 1.0: Interim Report	Prototype 2.0: Prototype 2.0 – Interim Standards based on current settings	Prototype <u>Standard</u>	Evans comments	Deleted: Future State
	This is a prototype and should be	analysis to detect change in the MNES explicitly identified identify thresholds of change in the MNES (distribution, abundance, condition, or integrity) at all rolevant scales that will trigger specific mitigation or recovery actions. The monitoring plan, results, analyses, evaluation of performance against indicators and thresholds, underpinning data and information on which they are based, must be published online annually. Plans must be reviewed and updated every 5 years.	detect change in the MNES explicitly identified in the MNES (distribution, abundance, condition, or integrity) at all relevant scales that will trigger specific mitigation or recovery actions. The monitoring plan, results, analyses, evaluation of performance against indicators and thresholds, underpinning data and information on which they are based, must be published online and in accordance with the Data and Information Standard. Plans must be reviewed and updated every 5 years.	 Frecommend that this Standard and others make explicit reference to the Data and Information Standard, to provide clarity over who provides and publishes data, which data, where it is published, in what circumstances, and in what format The current approach of proponents publishing monitoring reports on their own website in PDF format means this information is technically publicly available, but is extremely inaccessible and not particularly useful. This points to the need for a public facing data & information systems that is beneficial for multiple stakeholders (as well as investment in this infrastructure). Data provided should be sufficiently granular such that clear what is the overall outcome for the MNES as a result of the action, e.g Area of habitat approved for clearing Number of individuals affected Reduction in population Comensurate gains, i.e from conditioned offset outcomes 	Deleted: identify thresholds of change Deleted: online annually. Deleted:
Review	replaced with a National Environmental Standard following consultation.	Environmental Standard based on current settings of the EPBC Act.	Environmental Standard based on current settings of the EPBC Act.	parameters to guide the updating of Standards other than just 'as required', e.g. in response to expert advice, public consultation, SoE	

Megan Evans (UNSW Canberra), comments on as of 16th September 2020

Element	Prototype 1.0: Interim Report	Prototype 2.0: Prototype 2.0 – Interim Standards based on current sottings	Prototype <mark>Standard</mark>	Evans comments
		National Environmental Standards should be reviewed and updated as required, including when there are substantive changes to the EPBC Act or relevant administrative arrangements.	National Environmental Standards should be reviewed and updated as required, including when there are substantive changes to the EPBC Act or relevant administrative arrangements.	reporting, natural disasters, major ecological events, statuatory reviews of the Act.

This standard should be applied in conjunction with other relevant following National Environmental Standards.

Definitions

Maintain and enhance: A net improvement in environmental values, ecological and cultural integrity, and resilience of MNES over time and in absolute terms (not relative to a counterfactual scenario).

Suggest maintain and improve to be consistent with existing EPBC policy language, i.e Environmental Offsets Policy 2012

Regardless of specific language, "maintain and enhance/improve" in absolute terms does not require legislative or policy change. It simply requires a change in the interpretation and application of the Act in practice.

The current EPBC Environmental Offsets Policy 2012 specifies "improve or maintain" relative to a counterfactual, where the counterfactual selected is usually one of biodiversity decline (if the Risk of Loss factor is greater than 0).

But we know that the counterfactuals selected and approved under the Act are often worse than reality (see Maron et al. 2015 and Maseyk et al. 2020). It is still within policy scope for a counterfactual to be the present state that is maintained, which translates to a counterfactual of an EPBC Act that at least maintains the existing state of MNES. For an effective EPBC Act, the counterfactual should actually be one of recovery.

Objects of the EPBC Act: see s3 of the EPBC Act

Principles of ecologically sustainable development: see s3A of the EPBC Act

Significant impact: A 'significant impact' is an impact which is important, notable, or of consequence, having regard to its context or intensity.3 Whether or not an action is likely to have a significant impact depends upon the sensitivity, value, and quality of the water resource which is impacted, and upon the intensity, duration, magnitude and geographic extent of the impacts. All of these factors should be considered when determining whether an action is likely to have a significant impact. See the Significant Impact Guidelines 1.1: Matters of National Environmental Significance for more information about assessing the significance of impacts on matters of national environmental significance.

Unacceptable or unsustainable: Section 46(3)(c) requires that actions approved under a bilateral agreement not have unacceptable or unsustainable impacts on relevant MNES. While a number of EPBC Act decisions provide a precedent for this threshold, the definitions of 'unacceptable' or 'unsustainable' impacts requires granular and specific guidance. Further work should be undertaken to refine this definition.

Deleted: Future State

Megan Evans (UNSW Canberra), comments on as of 16th September 2020

Attachment 2: Threatened Species and Ecological Communities Standard

Threatened species and ecological communities are listed under section 178 of the EPBC Act, following a rigorous scientific assessment of their threat status.

Element	Prototype 1.0 – Interim Report	Prototype 2.0 – Interim Standards based on current settings	Prototype <mark>, Standard</mark>	Evans comments	Deleted: : Reformed settings
Environmental Outcome	The status of threatened species and communities improves over time, through the conservation, management and sustainable use of the environment.	Threatened species and ecological communities are protected and maintained over time and decision-making actively contributes to their conservation, appropriate management and recovery.	Threatened species and ecological communities are protected, maintained <u>or</u> <u>improved</u> over time and decision-making actively contributes to their conservation, appropriate management and recovery and other species and ecological communities are managed to avoid declines that warrant listing as threatened.	As per comments on overarching MNES Standard.	Deleted: and Deleted: enhanced
	For vulnerable species: 1) No net loss ^a for vulnerable species habitat.	The conservation, appropriate management and recovery of each threatened species and ecological community is supported by actions, decisions, class and policies that	The recovery and restoration of each threatened species and ecological community is supported by actions, decisions, plans and policies that		
	 Actions must manage on-site impacts and threats, where these are not managed through alternative frameworks^b. 	must manage on-site and threats, where these managed through ive frameworks ^b .	 Maintain or improve the viability, function and representation of the threatened species/ecological community. 		Deleted: enhance
National Standard	For endangered species and communities: 1) No net loss ^a for endangered species habitat and ecological	2) Have regard to relevant conservation advices and relevant critical contemporary information.	 2) Manage impacts to all species or ecological communities such that new species and comminuties do not become threatened. 2) Undertable sectoration and second secon		
	 2) No detrimental change to the listed critical habitat^e of a species or ecological community. 	 Include satisfactory field surveys to ascertain areas of habitat critical to the survival, important populations and condition thresholds. 	 Undertake restoration and recovery activities in accordance with the Restoration and Recovery Standard. Implement recovery plans, threat electrometry plans, threat 		Commented [ME5]: Please note that the Consultative Group has not been provided with a draft of this Standard to consider for feedback
	 Actions must manage on-site impacts and threats, where these are not managed through alternative frameworks^b. 	 Employ all reasonable measures to avoid or mitigate impacts to listed threatened species and ecological communities, and offset only where it is ecologically feasible. 	 abatement plans, conservation advices and regional plans. 5) Include <u>existing available scientific</u> <u>data and best practice</u> field surveys to ascertain areas of habitat critical to the survival. 		Deleted: satisfactory Commented [ME4]: The "OR"'s inserted between the 3 options in the "ecologically feasible" (below table) are highly problematic. This term needs to be defined clearly, specifically and unambiguously

Element	Prototype 1.0 – Interim Report	Prototype 2.0 – Interim Standards based on current settings	Prototype <mark>, Standard</mark>	Evans comments	Deleted: : Reformed settings
	 For critically endangered species and communities: 1) Actions must deliver a net gain^a for critically endangered species habitat and ecological community distribution. 2) No detrimental change to listed critical habitat^e of a species or ecological community. 3) Actions must manage on-site impacts and threats, where these are not managed through alternative frameworks^b. Additional requirements in Commonwealth areas: 1) Actions must not kill, injure or take a listed threatened species or ecological community, except where an EPBC Act permit is issued. 	 For all listed threatened species and ecological communities: Result in no net reduction in:	 important populations and condition thresholds. Compilation and provision of these data should comply with the Data and Information [Standard] 6) Have regard to any relevant critical contemporary information. 7) Avoid, mitigate or as a last resort only, and where there is strong scientific evidence of feasibility, fully offset significant impacts and minimise harm to MNES. For all listed threatened species and ecological communities: 1) Protect and enhance areas mapped and outlined on a national habitat and populations register, including: a) habitat critical to the survival and or important populations of listed species b) ecological processes critical to the survival of a species or community c) large and/or diverse areas of ecological communities that meet high extant condition thresholds and classes. 2) Result in no net reduction in absolute terms over a scientifically justifiable timeframe, 	As per comments on overarching MNES Standard.	Commented [ME6]: These data should be spatially explicit and provided in GIS format Deleted: Employ all reasonable measures to avoid or mitigate impacts to listed threatened species and ecological communities, and offset only where it is ecologically feasible.¶ Commented [ME7]: Deleted: :

	Prototype 2.0 - Interim Standards		Evans comments	
Element Prototype 1.0 – Interim Report	based on current settings	Prototype, Standard		Deleted: : Reformed settings
	 For highly restricted and small and declining listed species: 1) Result in no loss of habitat or individuals. For highly restricted and sensitive ecological communities: 1) Result in no reduction in extent or quality of the community. Additional requirements in Commonwealth areas: 1) Actions must not kill, injure or take a listed threatened species or ecological community, except where an EPBC Act permit is issued. 	 a) the population of a listed threatened species, consistent with the environmental offsets standard. b) quality or quantity of habitat of a listed threatened species, consistent with the environmental offsets standard. c) extent or condition of an Endangered ecological community, consistent with the environmental offsets standard. 3) <u>Effectively manage cumulative</u> impacts on habitats or populations of species or Ecological communities across their range such that the MNES is protected, improved or maintained, including: a) fragmentation of habitat of a listed threatened species or ecological community b) the introduction, spread, encroachment or growth of invasive species (including disease). For highly restricted and small and declining listed species: For highly restricted and sensitive 		Deleted: M
		coological communicos.		

Megan Evans (UNSW Canberra), comments on as of 16th September 2020

Element	Prototype 1.0 – Interim Report	Prototype 2.0 – Interim Standards based on current settings	Prototype <mark>, Standard</mark>	Evans comments	Deleted: : Reformed settings
			 Result in no reduction in extent or quality of the community. Additional requirements in Commonwealth areas: Actions must not kill, injure or take a listed threatened species or ecological community, except where an EPBC Act permit is issued. 		
Further Information	The <u>Species Profiles and Threats</u> (<u>SPRAT</u>) database contains statutory and policy documents, including Recovery plans, Threat Abatement Plans, Conservation Advices, Survey Guidelines, Significant Impact Guidelines, Species and Ecological Community Policy Statements and Information Guides and Factsheets.	The Species Profiles and Threats (SPRAT) database contains links to Recovery Plans and Conservation Advices as well as an interactive map showing the species modelled habitat and other important information sources like listing advices and Threat Abatement Plans.			

This standard should be applied in conjunction with other relevant following National Environmental Standards.

Definitions

Condition Thresholds and Classes: Most Ecological Community listings since 2007 specify condition thresholds and classes. These are intended to focus national legal protection on patches or occurrences of a TEC that are functional, relatively natural and in relatively good condition. They specify a minimum condition and higher condition classes to understand relative importance of a patch, and to guide management and goals for restoration.

Conservation advice: An approved conservation advice is a document, approved in writing by the Minister that contains a statement that sets out:

the grounds on which the species or community is eligible to be included in the category in which it is listed; and

the main factors that are the cause of it being so eligible;

and either:

information about what could appropriately be done to stop the decline of, or support the recovery of, the species or community; or

a statement to the effect that there is nothing that could appropriately be done to stop the decline of, or support the recovery of, the species or community.

Under section 266B of the EPBC Act, the Minister must ensure that there is approved conservation advice for each listed threatened species (except one that is extinct or that is a conservation dependent species), and each listed threatened ecological community, at all times while the species or community continues to be listed.

Section 139(2) of the EPBC Act requires that the Minister must have regard to any approved conservation advice for the relevant species in deciding whether to approve the taking of an action.

Megan Evans (UNSW Canberra), comments on as of 16th September 2020

Habitat: the biophysical medium or media: (a) occupied (continuously, periodically or occasionally) by an organism or group of organisms; and (b) once occupied (continuously, periodically or occasionally) by an organism or group of organisms and into which organisms of that kind have the potential to be introduced, and (c) biophysical media projected to become suitable for occupation under future climates if specified in the Conservation Advice.

Habitat critical the survival of a species or ecological community: Refers to areas that are necessary:

for activities such as foraging, breeding, roosting, or dispersal

for the long-term maintenance of the species or ecological community (including the maintenance of species essential to the survival of the species or ecological community, such as pollinators)

to maintain genetic diversity and long-term evolutionary development, or

for the reintroduction of populations or recovery of the species or ecological community.

Such habitat may be, but is not limited to: habitat identified in a recovery plan or conservation advice for the species or ecological community as habitat critical for that species or ecological community; and/or habitat listed on the Register of Critical Habitat maintained by the Minister under the EPBC Act.

Highly restricted and small and declining listed species: Critically endangered or Endangered listed species with distributions, population sizes and decline which is highly precarious to their survival as demonstrated by species that meet Criteria B, C or D of the <u>Common Assessment Method</u>.

Highly restricted and sensitive ecological communities: Ecosystems that meet the criteria for Critically Endangered or Endangered under Criterion 2 of the EPBC Regulation 7.02 because their geographic distribution is very restricted or restricted and the nature of its distribution makes it likely that the action of a threatening process could cause it to be lost in the near or immediate future.

Important population: A population that is necessary for a species' long-term survival and recovery. This may include populations identified as such in Conservation Advices and Recovery Plans, and/or that are:

key source populations either for breeding or dispersal

populations that are necessary for maintaining genetic diversity, and/or

populations that are near the limit of the species' range.

Maintain and enhance: A net improvement in environmental values, ecological integrity, and resilience over time and in absolute terms (not relative to a counterfactual scenario).

Offsets: measures provided to compensate, repair or replace an impacted value, including changes to the integrity, quality, condition and/or extent of habitat.

An offset is ecologically feasible where it can be demonstrated that the species or community can be restored in a timeframe commensurate with development impact OR enough space exists to undertake restoration (not ecologically or tenure constrained) OR scientific knowledge exists on how to restore the habitat.

Recovery plan: A document, approved in writing by the Minister that contains a statement that sets out the research and management actions necessary to stop the decline of, and support the recovery of, the listed threatened species or listed threatened ecological community concerned so that its chances of long-term survival in nature are maximised. Section 139(1) of the EPBC Act requires that the Minister must not act inconsistently with a recovery plan for the relevant species in deciding whether to approve the taking of an action.

Satisfactory field surveys: Scientifically informed and designed field surveys by suitably qualified people which are undertaken during optimal times for detection, of an appropriate duration, repeated where necessary and include full coverage of the impact site including areas directly and indirectly affected and adequate to produce site wide vegetation and habitat mapping and species records and which can inform detailed design of an action to demonstrate avoidance and mitigation.

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Threat Abatement Plan: A document, approved in writing by the Minister that contains a statement that sets out the research, management and other actions necessary to reduce the key threatening process concerned to an acceptable level in order to maximise the chances of the long-term survival in nature of native species and ecological communities affected by the process. Section 139(1) of the EPBC Act requires that the Minister must not act inconsistently with a threat abatement plan for the relevant species in deciding whether to approve the taking of an action.

Additional Future State definitions:

Cumulative impacts: A reference in this standard to impacts considered on a cumulative basis is a reference to all impacts, whether arising from approved actions or otherwise after the stipulated baseline.

Ecological Processes Critical to the Survival of a species or community: include, but are not limited to, life cycle processes (breeding, feeding and dispersal), interactions among species and physical processes such as hydrological regimes.

Function: the contribution of a species/ecological community to processes in nature, including (but not limited to) those that influence the viability of other species and those that provide ecosystem services to people.

High contributions to viability, function or representation: To meet the requirement for representation, populations and habitat areas designated for impact avoidance should encompass the full range of genetic, compositional, structural, functional and biophysical variation across the habitat of the species or ecological community. Requirements for representation should be determined in statutory instruments at a geographic scale ecologically appropriate to variation in the species or ecological community.

Representation: the viability and function of a species/ecological community throughout its habitat as defined in the EPBC Act measured in geographic units appropriate to the threatened species or ecological community.

Viability: the long-term (5 generations of 100 years, whichever is longer) maintenance of persistence, function and distribution of a species/ecological community