

Agenda





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5:15	Arrival – light refreshments available	
5:30	Welcome	Linton Pike
5:35	Meeting Purpose and Context	Linton Pike
5:40	Project Update • Western Ringtail Possum – Regional Surveys • Southern Section Alignment Selection • Avoidance of Tuart Tree • Bussell Highway Duplication • Northern & Central Sections	Dominic Boyle / Martine Scheltema
6:30	Southern Section Local Access Arrangements Centenary Road - Preferred Alignment & Form of Interchange Gelorup Local Access Arrangements Calinup Road Service Road	Padraic Murphy
6:50	Environmental Approval Process	Martine Scheltema
7:10	Community & Stakeholder Engagement Update	Tammy Mitchell
7:20	CRG Member Round Table Discussion	CRG Members
8:20	Next Steps	Dominic Boyle
8.30	Close	Linton Pike





Western Ringtail Possum:

Regional Population Surveys

Martine Scheltema





Western Ringtail Possum

- Species elevated to Critically Endangered in May 2018
- Due to uncertainty as to actual population size, Main Roads commissioned surveys over entire WRP possum range to assess size of key populations
- Methodology developed in consultation with WRP Recovery Team and DBCA
- Most of the areas sampled under DBCA control
- Did not sample small areas of vegetation, or peri-urban areas





Survey Sites - 813 km of transect across 771 transects (March 2019)

Southern Swan Coastal Plain 5 sites Feb – Aug 2018 9 sites Dec 18 – March 2019 231 km across 310 transects Legend Cape to Cape Remnant Vegetation 8 sites Jan – March 2019 159 km across 220 transects

Other Forest Rivers

Not surveyed

Urban, peri-urban and agricultural areas

Not surveyed

Upper Warren

- One single large area 50 x 30 km (95,000 ha)
- Transect spacing 2.5 km
- 356 km of mapped transects
- 256 km surveyed (due to fire)

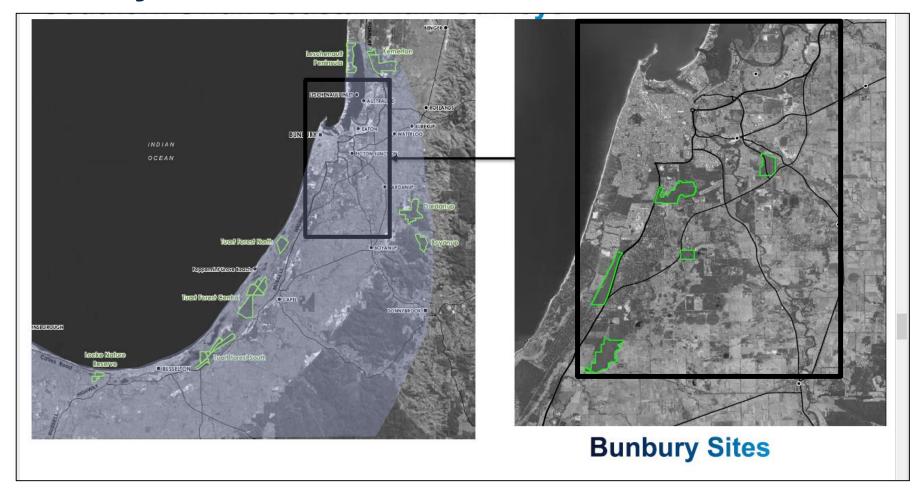
Around Albany

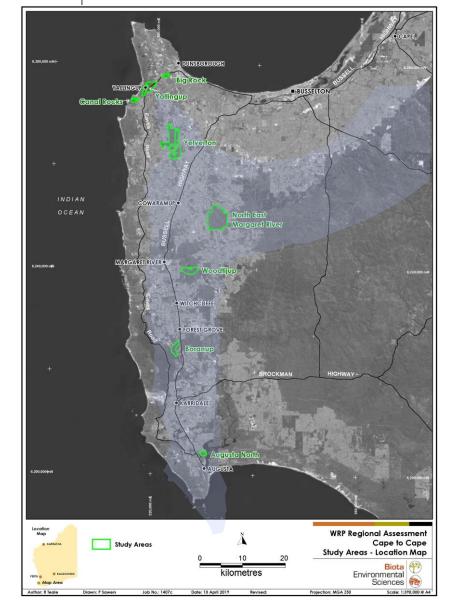
- 2 sites in July 2018
- 5 sites in March 2019
- 172 km across 150 transects





Survey Sites - Southern Swan Coastal Plain









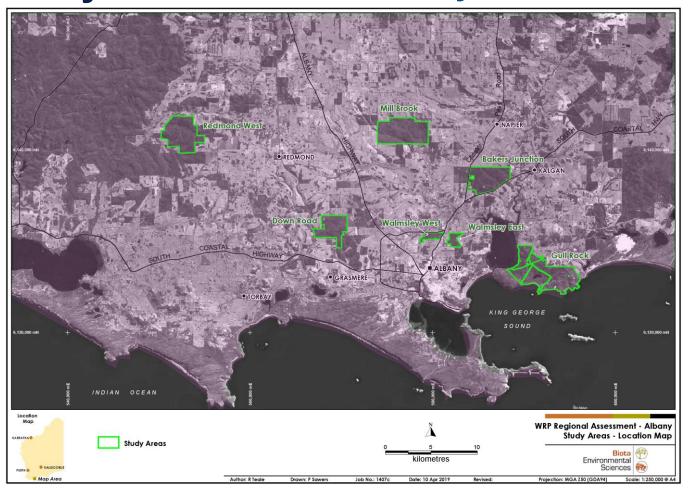
Survey SitesCape to Cape Region

(Southern Swan Coastal Plain Management Zone)





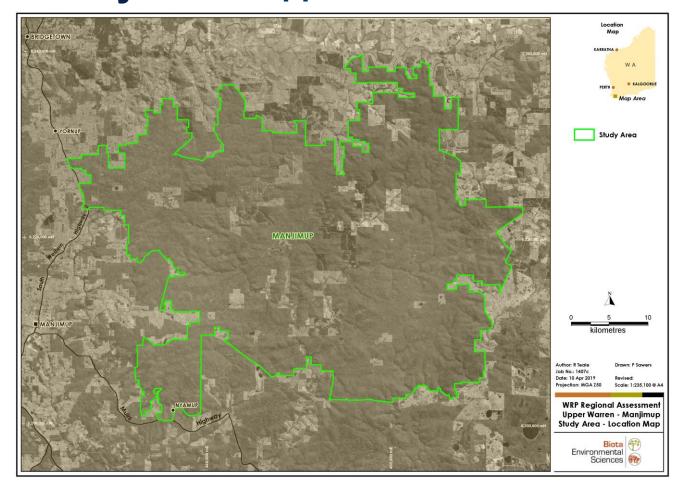
Survey Sites - Around Albany (South Coast Management Zone)







Survey Site - Upper Warren (Southern Forest Management Zone)



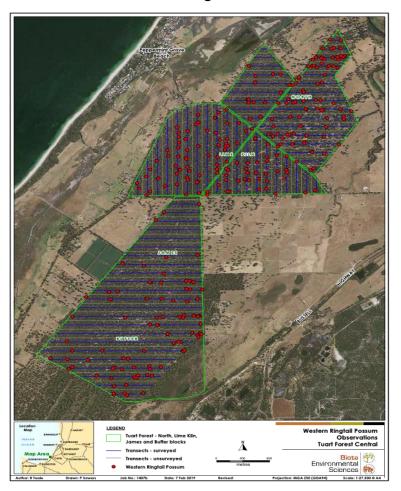
Results - Ludlow Tuart Forest



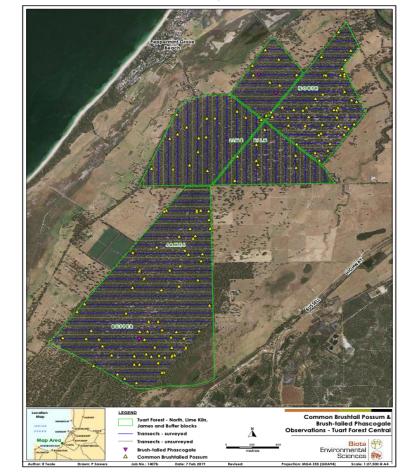


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Western Ringtail Possum



Common Brushtail Possum and Brush tailed Phascogale



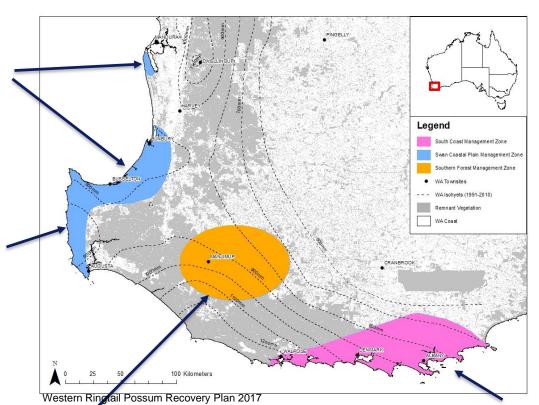
Survey Results - April 2019





Southern Swan Coastal Plain: population **5,704** (Cl 5,156 – 6,310) 2015 estimate 2,000

Cape to Cape: population **2,262** (CI 1,924 – 2,661) 2015 estimate 500



Other Forest Rivers: population ??? 2015 estimate 300

Urban, peri-urban and agricultural: population ???

Upper Warren: population 7,680

(CI 4,891 – 12,059) 2015 estimate 100 Around Albany: population **1,781** (Cl 1,470 – 2,158) 2015 estimate 500

Key Points





- April 2019 population estimate is **17,427** (range 13,441 23,188)
- Fivefold increase on 2015 population estimate (3,400)
- Conservative population estimate
 - 2019 population estimate does not include Forest Rivers, urban, peri-urban or agricultural populations
- Additional areas currently being surveyed in all 3 management zones
 - Areas selected based on input from DBCA, Recovery Team members and community groups
 - will be completed by 30 June 2019

Additional Surveys





Southern Coastal Plain Management Zone

- Lake Clifton and Yalgorup National Park (only partially surveyed in 2019)
- Crooked Brook Forest and Whicher Scarp (part surveyed in 2018)

Southern Forest Management Zone

- Faunadale Nature Reserve
- Alco Nature Reserve
- Muirs Highway
- Diamond Tree

South Coast Management Zone

Mt Clarence

Mount Lindsay

Torbay Inlet

Walmsley South

- Marbelup Nature Reserve

- Bonacord Road

- Gull Rock

Southern Section Alignment Selection

Dominic Boyle

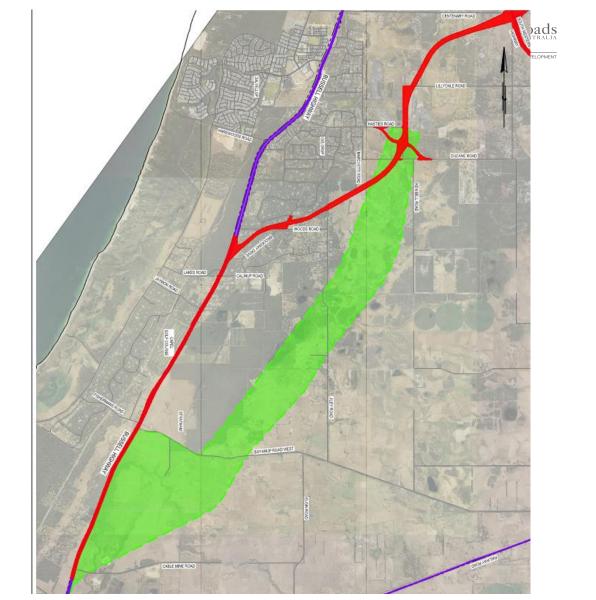




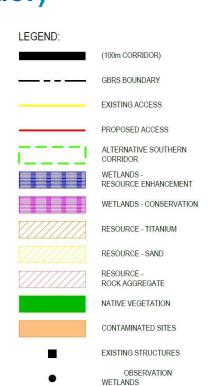
Background – why an alternative alignment was considered

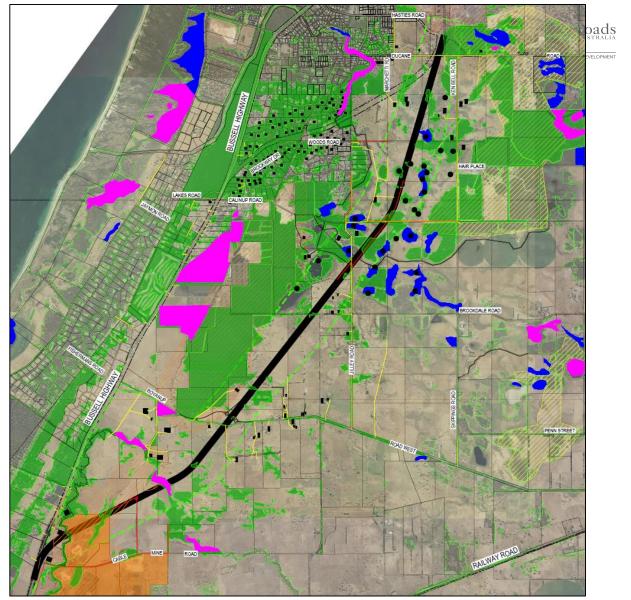
- Previous EPBC (Federal) referral for GBRS alignment was withdrawn in July 2017 due to likely project scope changes / impacts upon Matters of National Environmental Significance.
- Escalation of Western Ringtail Possum status to Critically Endangered in May 2018.
- Uncertainty regarding total size of population .
- Need to consider alternatives historical options assessments would not stand up in the current environmental context.
- Alignment also impacts other Federally listed values Black Cockatoo, Banksia Woodland TEC.

BORR South Alternative "Green" Corridor



19 Alignment assessed (within green corridor)









Environment

- Existing GBRS road reserve has higher impact upon Western Ringtail Possum and Threatened Ecological Communities (TECs) / Priority Ecological Communities (PECs)
- Alternative alignment has a higher impact upon wetlands and endangered aquatic fauna
- GBRS alignment has higher impact upon Matters of National Environmental Significance, alternative has higher impact upon State issues.





Aboriginal and European Heritage

- Both alignments impact upon same registered site (ID 5813).
- Alternative alignment has higher impact upon European Heritage (sites on Municipal Inventory, families on land since 19th Century)
- Alternative Alignment has higher impact upon European Heritage





Social Impacts

- GBRS (red) alignment has higher noise and visual impact than the green
- Green alignment has higher impact on property severance, land acquisition and land use (agricultural)
- Overall worst impact on green alignment

CRITERIA	GBRS RED	ALT GREEN
Severance		
Landuse		
Land Acquisition		
Noise Impacts		
Visual Impacts		





Engineering Constraints

- Green alignment has higher impact on hydrogeology
- Majority of green corridor passes through unfavourable ground conditions
- Red more difficult from a constructability perspective, will involve more interaction with the public, landowners and staging on Bussell Highway will involve more interaction with live traffic
- Overall worst impact on green alignment

CRITERIA	GBRS RED	ALT GREEN
Hydrogeology		
Ground Conditions (Geology, Acid		
Sulphate Soils & Contaminated		
Sites).		
Rivers, Streams & Waterways		
Road Safety		
Constructability		





Economic Assessment

- Alignment in green corridor almost double the cost of the red (based on bulk earthworks and indicative interchange bridge structures)
- Alignment in green corridor has a significantly greater impact on agricultural areas and basic raw materials (titanium)
- Overall worst impact on green alignment

CRITERIA	GBRS RED	ALT GREEN
Construction Costs		
Operation Costs		
Network Performance		
Travel Time Saving		
Strategic Agricultural Resources		
Basic Raw Materials & Mining		
Tenements		

Conclusion





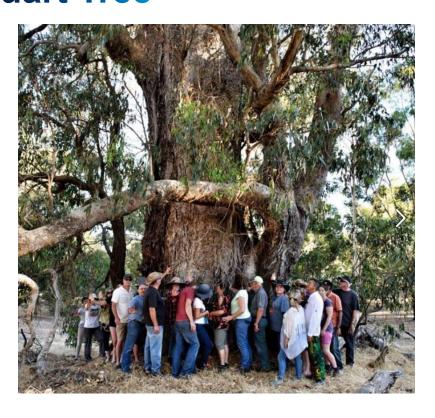
- Both alignment options have environmental impacts, these being of differing scale and nature.
- GBRS (red) has a higher impact upon the Western Ringtail Possum and TECs / PECs
- Alternative alignment (green) has a higher impact upon wetlands and endangered aquatic fauna.
- Alternative alignment inconsistent with land use planning, impacts upon strategic agricultural resources, basic raw materials and mining tenements
- Alternative alignment impacts upon European Heritage, network efficiency and project cost
- Environmental context changed by Western Ringtail Possum Regional Surveys
- Confirmed existing road reserve (GBRS) selected.

Avoidance of Tuart Tree





Community Concern at potential loss of Significant Tuart Tree

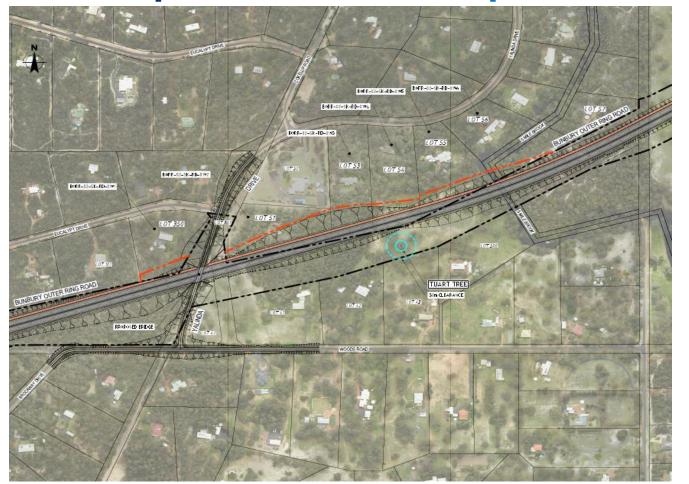


- Tree estimated to be well in excess of 100 years old
- Arborist confirms this veteran tree is in good condition
- Tree cannot be avoided if BORR remains in road reserve





Land Required to Avoid Impact



Northern and Central Sections





Environmental Referrals

- Northern & Central Sections referred to Environmental Protection Authority (EPA) for level of environmental assessment (State).
- Public comment period on level of assessment (only) 14th to 20th June 2019 stakeholders advised
- EPBC (Federal) referral submitted to Department of Environment and Energy (DotEE) 14th June 2019.
- As part of the process of determining the level of assessment under EPBC Act, public can comment for 10 business days (no extensions)





Amendment to referral boundary - Raymond Road North Facing Ramps

- Shire of Harvey / City of Bunbury feedback
- North facing ramps provide improved regional connectivity from Collie and surrounding catchments to BORR (Forrest Highway)
- Further access option for Bunbury
- Improved freight efficiency
- Improved outcome for local residents (Meadow Landing, Kingston) through diverted freight / regional traffic.





Raymond Road North Facing Ramps







BORR Northern Interchange Configuration

Design Objectives

- Provide free flow access to Bunbury
- Maintain connectivity from Paris Road to Clifton Road
- Not preclude future high speed rail.

Key considerations

- Minimise environmental impacts
- Balanced connectivity to the primary road network without overloading existing roads
- Cost effective solution





BORR Northern Interchange Configuration





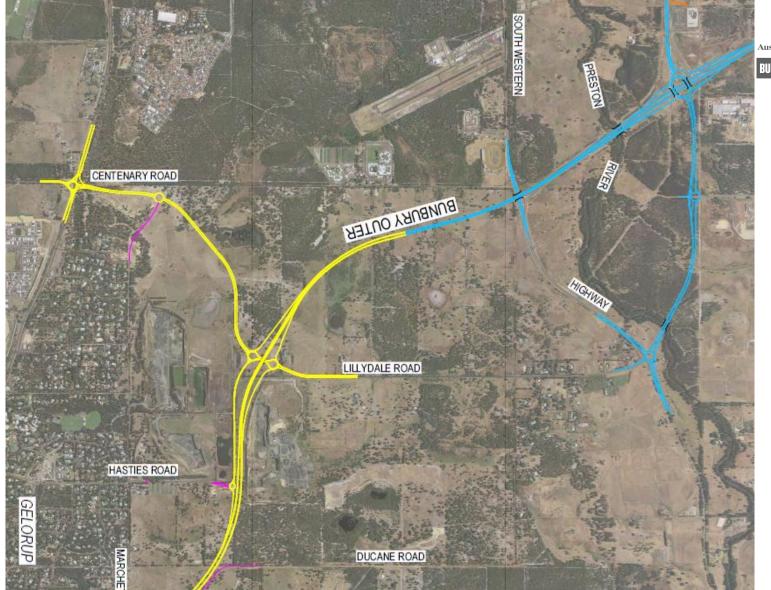


BORR Northern Interchange Configuration

Next Steps

- Develop enhanced directional signage
- Investigate a site on Forrest Highway for the provision of information sign to promote Greater Bunbury events and attractions
- Review (and upgrade as necessary) existing tourist signage
- Investigate the potential to provide tourist information at an existing rest area on Forrest Highway









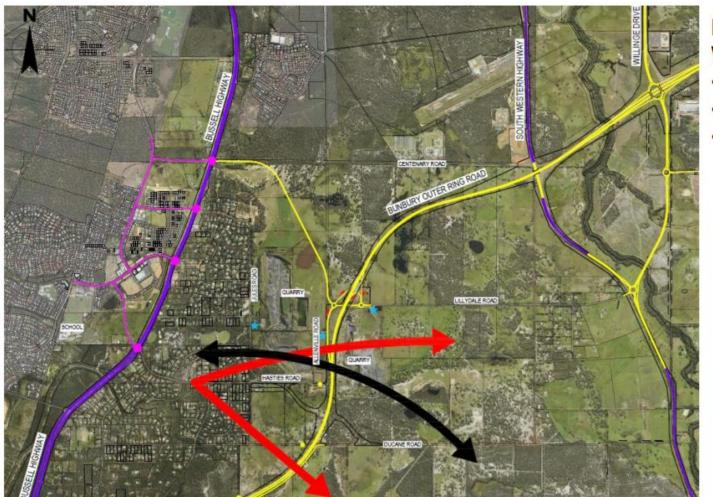
Preferred alignment of Centenary Road

Preferred form of interchange

Local access arrangements to be finalised







Local Access Requirements What we have heard to date:

- Fire and Emergency
- Community Linkages
- **Quarry Access**



Calinup Road Service Road





Calinup Road Preferred Design







Finalisation of Local Access Arrangements

- Facilitated workshop to be held during July
- Invitees:
 - Shire of Capel
 - City of Bunbury
 - Hanson and Holcim Quarries
 - CRG member(s): 4 nominations sought
 - Residents representatives from across Gelorup







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Environmental Assessment Process (State)

Referral of Public EPA decision EPA **EPA** Appeal period Investigation Minister's Minister seeks Ministerial significant or whether or on EPA's report by Appeals comment assessment assessment appeal agreement Statement proposal to may include (14 days) determination from Ministerial period on not to assess report Convemor with the EPA whether the the proposal public review submitted to colleagues conditions (4 to 12 the Minister proposal and DMAs on issued should be weeks) and released implementation assessed to the public and conditions (7 days) s38 s38A to s39B s40 to s43 544 Part VII Part VII Part VII s45(1) s45(5) Minister **EPA Appeals Convenor** (with Appeals Convenor) Appeal period Investigation Minister's on EPA's by Appeals appeal decision Convemor determination if it decides on whether not to assess the proposal (14 days) is to be assessed Part VII Part VII Part VII

Appeals Convenor

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Statement
Statement
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conditions
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15(1)

S45(5)

Ministerial
Statement
can appeal
conditions
(14 days)
(14 days)
monitoring
compliance with
conditions

S47, 48

Appeals Convenor

OEPA

44 Approvals Pathway





Part IV EP Act (WA)

s38 referral to the EPA



Level of assessment advised – Either:

Not Assessed; Assessment on Referral Information or Public Environmental Review

Decision is not appealable

(Includes a 1 week public comment period)



If formally assessed (ARI or PER)

Assessment Phase



EPA Report and Recommendations (including draft Ministerial Conditions advertised) –



Ministerial Statement.



Final Approval

EPBC Act (Commonwealth)

EPBC Act referral to the Cwth DoEE– for assessment of Matters of National Environmental Significance

(e.g. cockatoos, possums TEC's)



Decision if Controlled or Not Controlled
Action



Assessment Phase if required including offsets



Decision notice and approval





