



# HumeLink Community Information Webinar – EIS Topics

Traffic & Transport  
Noise & Vibration

May 2023





# Acknowledgment of Country

Transgrid acknowledges the Traditional Owners and Custodians of this great land. We recognise and acknowledge the Aboriginal and Torres Strait Islander people as the first explorers, scientists, farmers, astronomers and storytellers.

We pay respects to Elders both past and present and celebrate the diversity and successes of Aboriginal peoples and their ongoing connections to the lands and waters where we work and live.



# Agenda

Welcome and Acknowledgment of Country

Introductions and purpose of the EIS webinars

HumeLink project update

EIS Topics

- Traffic and Transport
- Noise and Vibration

Questions and discussion

Close



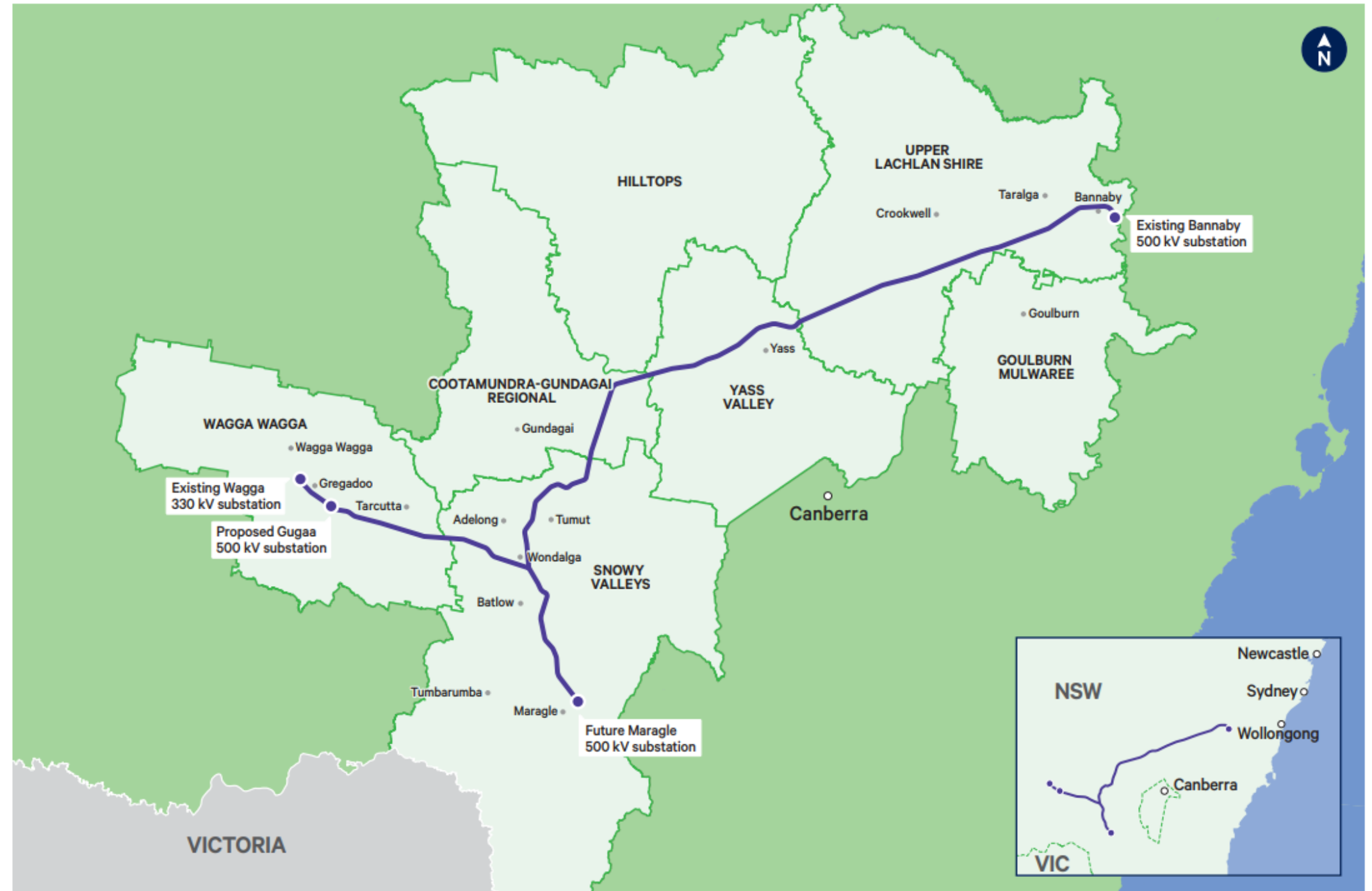


# HumeLink project update

# HumeLink project overview: what is HumeLink?

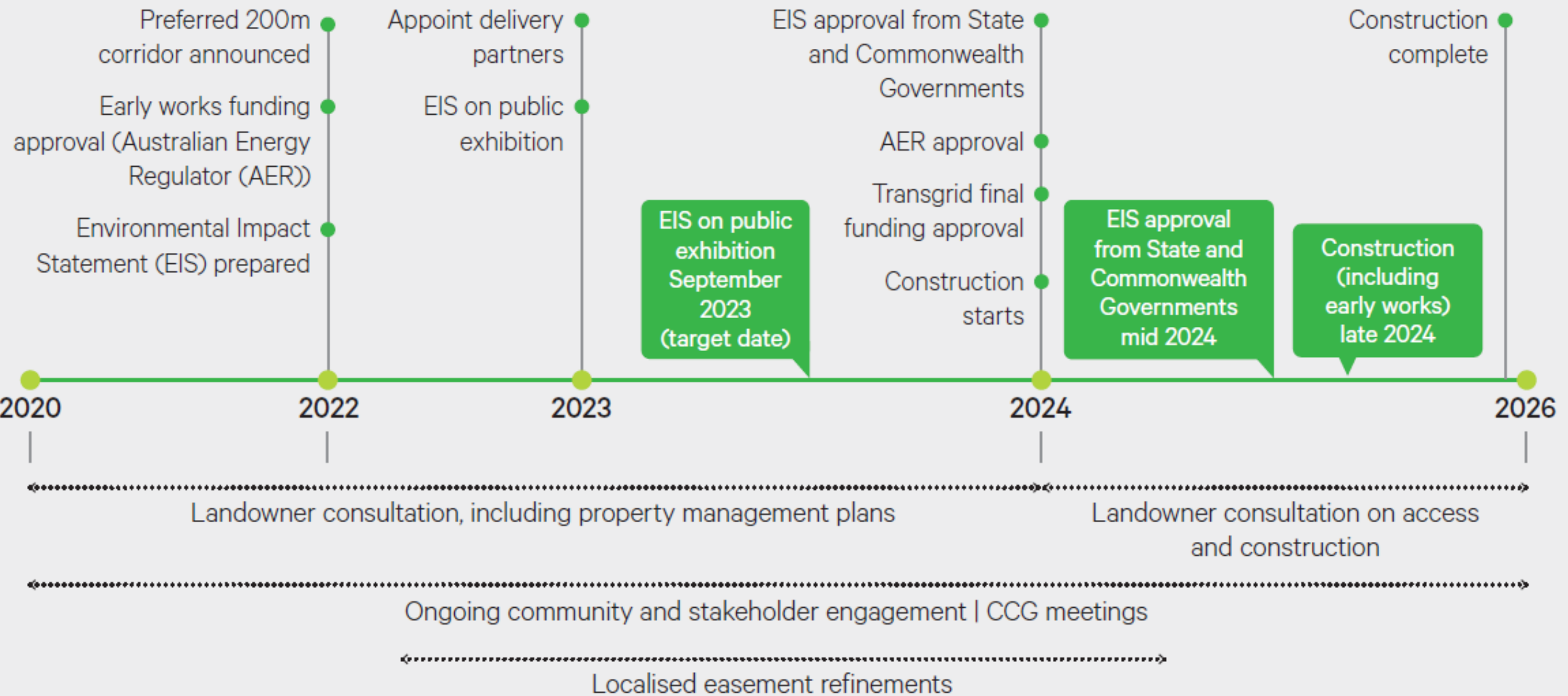
- HumeLink is a new 500kV transmission line which will connect Wagga Wagga, Bannaby and Maragle.
- It is one of the state's largest energy infrastructure projects, with about 360 km of proposed new transmission lines, and new or upgraded substation infrastructure at four locations.

## Overview of project location





# HumeLink project overview: key dates





# HumeLink Environmental Impact Statement



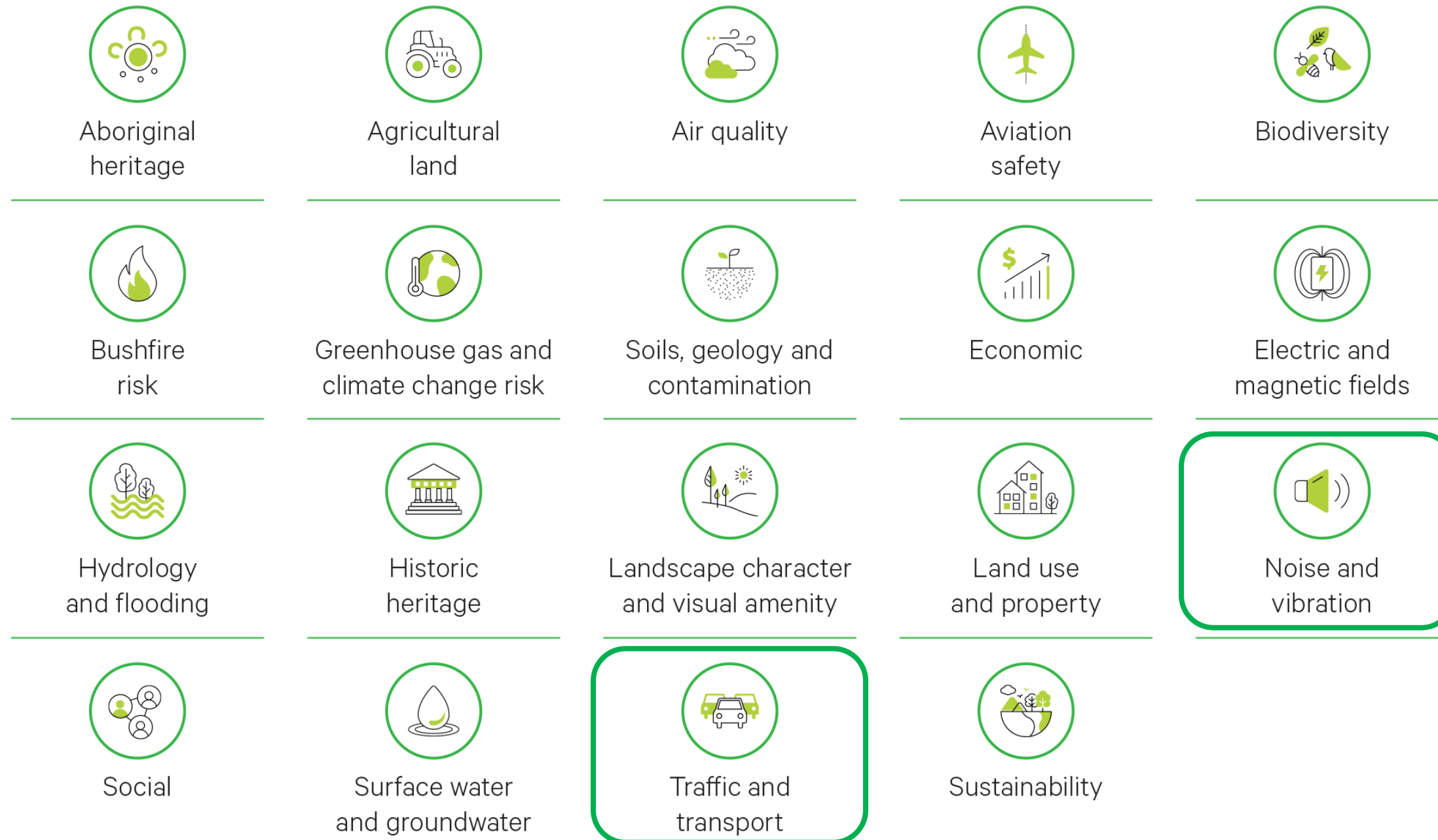
# HumeLink EIS – Planning approval pathway

## HumeLink Environmental Impact Statement Planning Pathway





# HumeLink EIS Technical Studies





# Traffic and Transport



# Traffic and Transport Impact Assessment

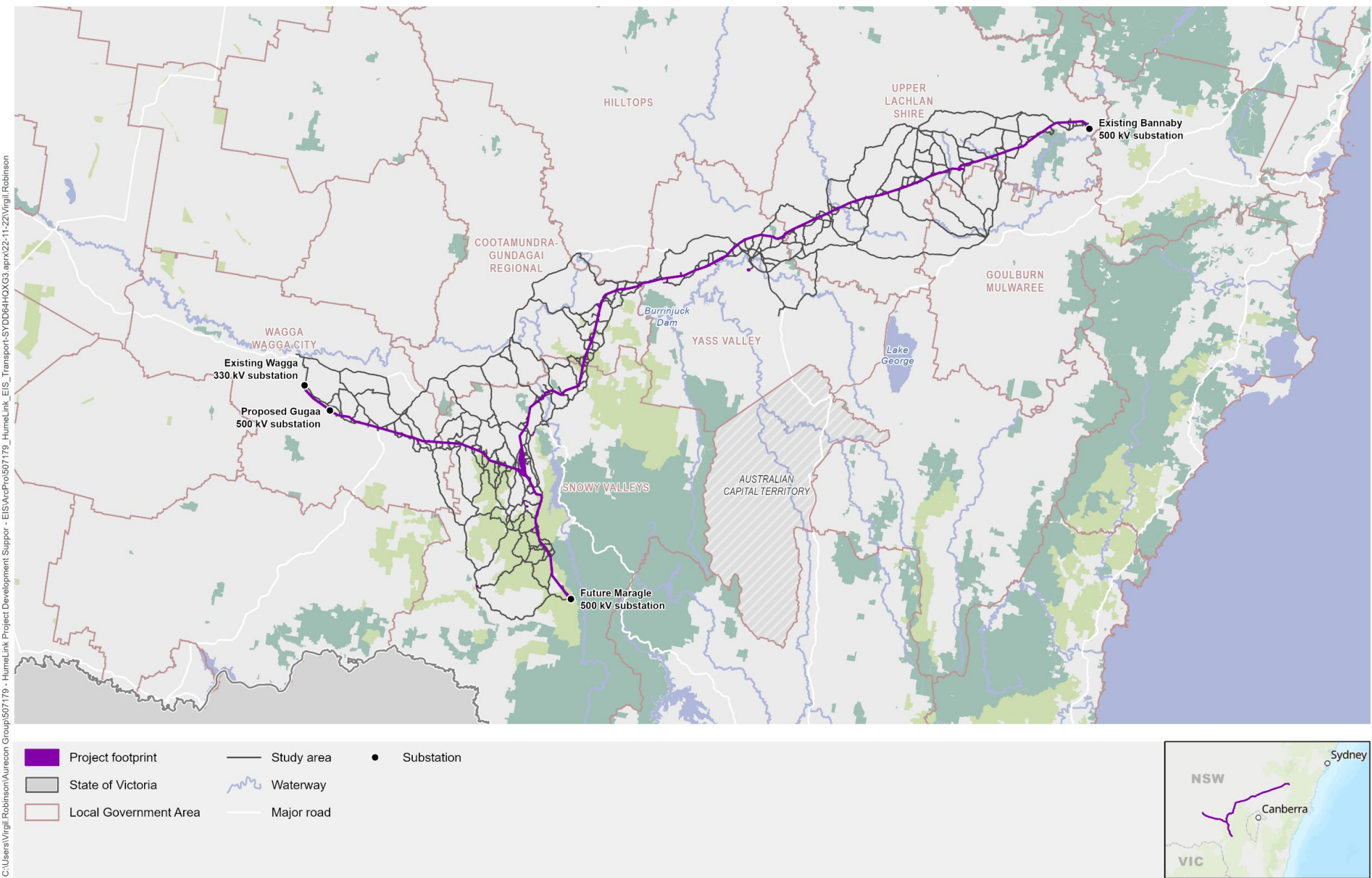
## **Purpose of the assessment**

- Evaluate the potential traffic and transport impacts during construction and operation of the project

## **Scope of the assessment**

- The assessment included the transport network within the study area including roads, rail and active transport
- The assessment included an overview of existing transport network impacted by the project, the traffic likely to be generated by construction and operation, the expected impacts on the transport network and the proposed mitigation measures to manage these impacts.

# Traffic and Transport Impact Assessment



## Study area

Comprises the roads identified as being required to access the project during construction and operation across the following Local Government Areas (LGAs)

- Wagga Wagga City
- Snowy Valleys
- Cootamundra-Gundagai Regional
- Yass Valley
- Goulburn-Mulwaree
- Upper Lachlan Shire
- Hilltops.



# Traffic and Transport Impact Assessment

## Construction traffic

- Transport of construction materials and equipment, waste and spoil
- Movements to and from accommodation locations and construction compounds at the beginning and end of the working day and between work sites during the working day
- Will include light and heavy vehicles, and in some instances over-size and over-mass vehicles

## Operation traffic

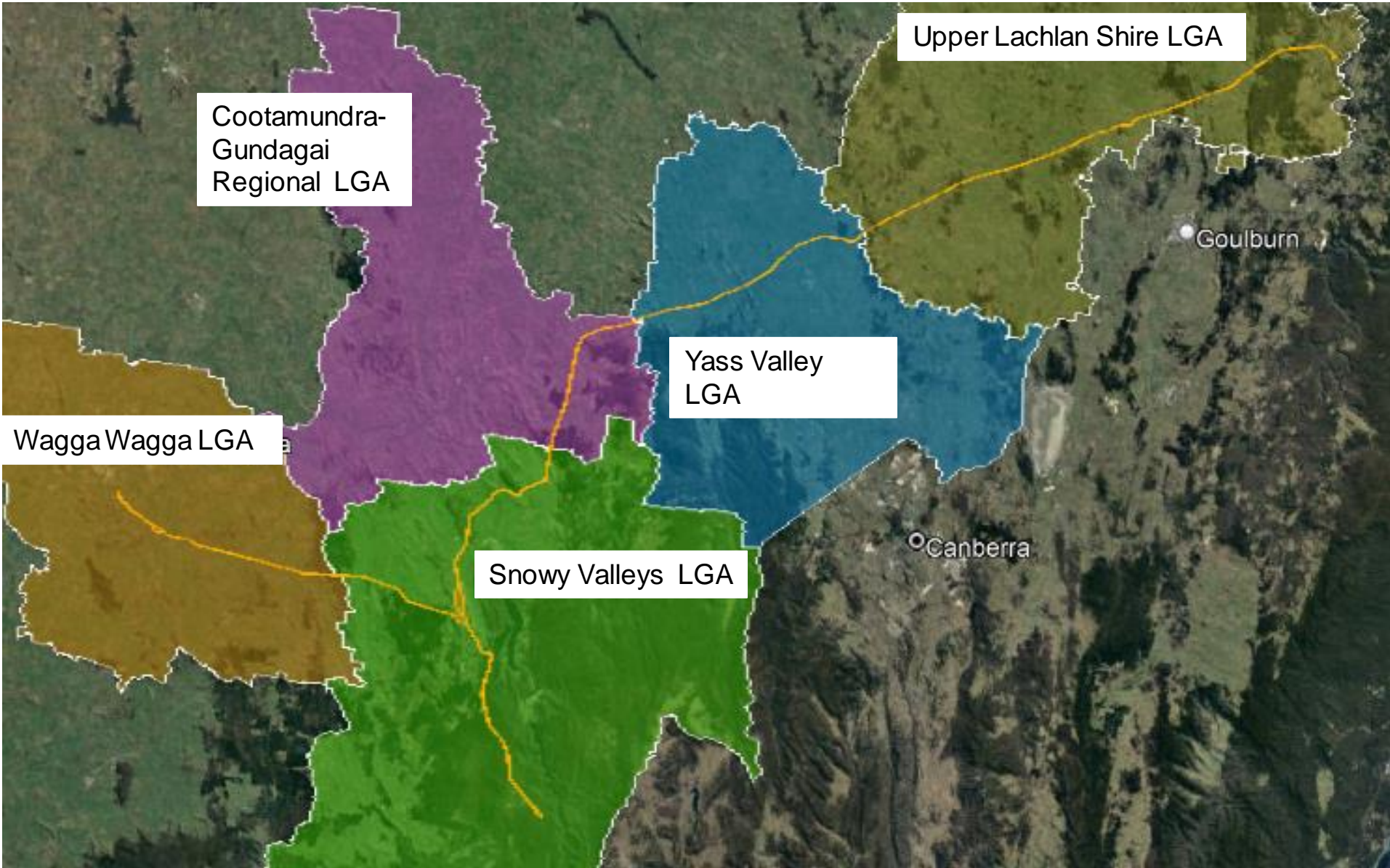
- Infrequent movements across the project footprint and the surrounding transport network – for maintenance, easement inspection

## Preliminary impacts identified

- Temporary increases in traffic movements on local roads – dispersed across large area
- Road network performance (based on LoS) - not expected to worsen – maintain free flow movements
- Temporary lane and road closures during transmission line stringing
- Road condition deterioration over time – mainly for unsealed roads
- Traffic during operation is expected to be negligible due to infrequent movements

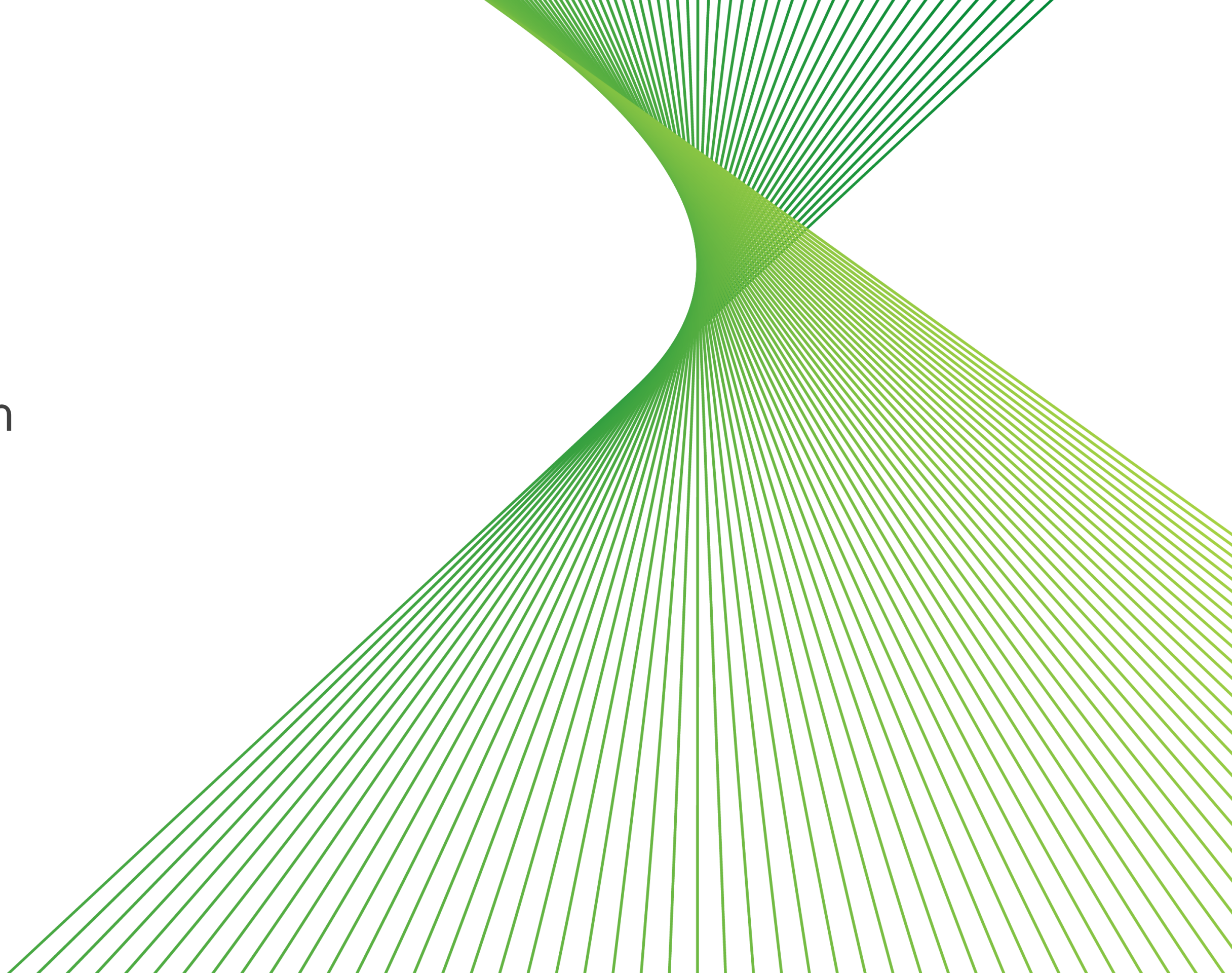
# Project road interactions by Local Government Area

LGA	Road crossings identified
Wagga Wagga City	14 identified road interactions, including 2 TfNSW Classified Roads
Snowy Valleys	18 identified road interactions, including 4 TfNSW Classified Roads
Cootamundra-Gundagai Regional	5 identified road interactions
Yass Valley	13 identified road interactions, including 2 TfNSW Classified Roads
Upper Lachlan Shire	26 identified road interactions, including 3 TfNSW Classified Roads





# Noise and Vibration



# Noise and Vibration Impact Assessment

## **Purpose of the assessment**

- Potential construction noise and vibration impacts, including construction traffic noise
- Potential operational noise impacts, including audible noise from the operation of transmission lines and substations

## **Scope of the assessment**

- Determine existing background noise levels and identify potential noise and vibration sensitive receivers
- Assess the potential noise and vibration impacts during construction and operation of the project
- Propose mitigation measures to manage these impacts



# Noise and Vibration Impact Assessment

## Assessment methodology

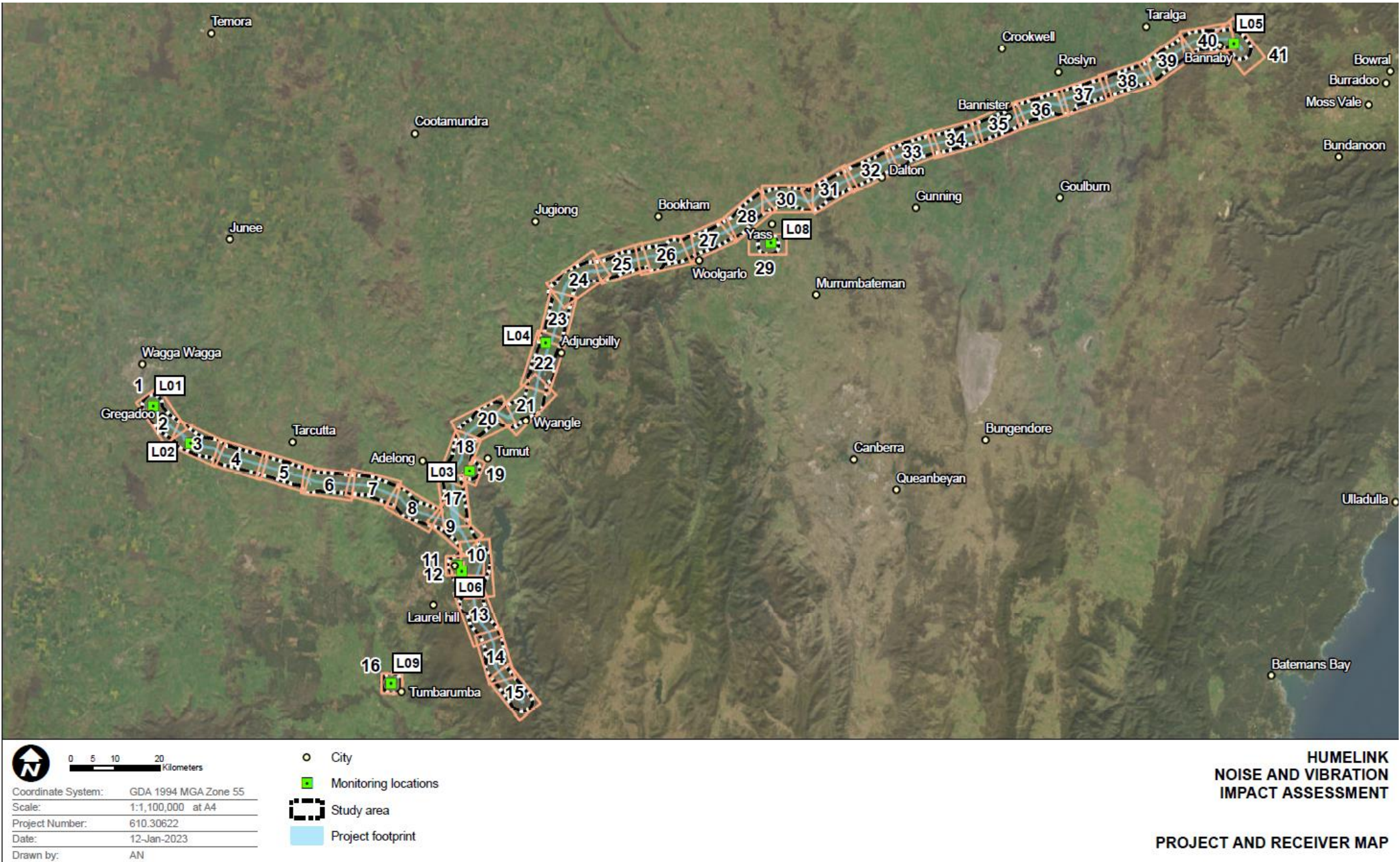
- Identifying and classifying potential noise and vibration sensitive receivers
- Conducting ambient (background) noise monitoring
- Processing the monitoring data in accordance with relevant guidelines to determine project specific noise management levels
- Modelling the construction and operation activities of the project to predict noise and vibration levels for sensitive receivers
- Assessing the likely airborne noise impacts and vibration from construction activities
- Assessing construction traffic noise impacts
- Assessing the likely operational noise impacts of the project
- Identifying mitigation measures to minimise and manage any predicted noise and vibration impacts.



*Noise logger*



# Noise and Vibration Impact Assessment



## Study area

- Includes the project footprint plus a 2km buffer
- Expected to represent the extent of all receivers potentially impacted by noise and vibration from the construction and operation of the project
- Ambient noise monitoring was carried out at nine locations within the noise and vibration study area to measure background noise levels



# Noise and Vibration Impact Assessment

## Potential Impacts identified

### Construction noise and vibration

- Noise from site establishment work including vegetation clearing, civil works for new access tracks or compounds and laydown areas, etc
- Noise arising from:
  - construction of transmission lines – use of plant and equipment, concrete batching, erection of steel components
  - construction of new substation and modification of existing substations – civil works, erection of new buildings and steel structures
- Vibration impacts from construction equipment
- Construction traffic noise.

### Operational noise

- Audible noise from the operation of high voltage transmission lines (corona noise) - noticeable under certain weather conditions
- Noise arising from the operation of the new substation – eg. from transformers

# Questions



# Thank you

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