

# Inland Rail Community Consultative Committee update

Narromine 28 March 2022

**ARTC Inland Rail** 





# ACKNOWLEDGMENT OF COUNTRY

Inland Rail acknowledges the Traditional custodians of the land on which we work, and we pay our respects to Elders past and present.





- 1. N2N Project Update Duncan Mitchell
- 2. EIS Update Matthew Errington
- 3. Hydrology Update Akhter Hossain
- 4. Route Selection Update Duncan Mitchell
- 5. Engagement Update Louise Johnson

# ARTC INLAND

# N2N PROJECT UPDATE

ARTC /intondRail 1800 732 761

# **KEY PROJECT FEATURES**











7 crossing loops up to 2.2km long **ANCILLARY** WORKS

~

Signaling and communications, road re-alignments, utility relocations, drainage, signage, fencing, embankments and cuttings

BRIDGES

75 new bridges and viaducts, ranging in length from 15m to 3.9km



PUBLIC

LEVEL

CROSSINGS

51 new level

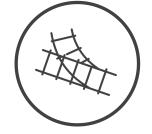
+ 12 active crossings

bells and boom

with flashing lights,

crossings

gates



NEW CONNECTIONS

New rail connections and possible future connections with existing ARTC and **Country Regional** Network rail lines

RAIL CORRIDOR

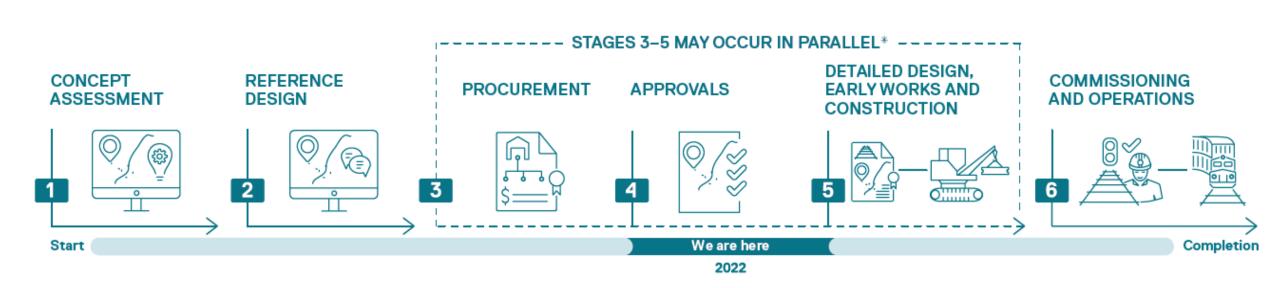
Constructing approx. 306km of new rail corridor

CAPACITY

Accommodating 1.8km-long double-stacked freight trains

# WHERE WE ARE IN THE PROCESS





Inland Rail will not start any major construction works on the Narromine to Narrabri section until all regulatory and environmental approvals are obtained





#### January – Community shopfront opening



#### **February - Meet the Contractor event**





# A MAJOR BOOST FOR NEW SOUTH WALES

# MORE THAN \$188 GDP\*

*\_ل*ے



#### GSP FOR NEW SOUTH WALES

\* Revised analysis by PricewaterhouseCoopers December 2020

# A MAJOR BOOST FOR JOBS

# MORE THAN **21,500**

# DIRECT AND INDIRECT JOBS at the peak of construction\*

- Construction roles across more than 20 disciplines
- Manufacturing roles in steel plants, quarries and with major suppliers
- Ongoing roles including engineering, geotech, communications, and logistics





# WE NEED TO WORK TOGETHER TO MAXIMISE THE VALUE

- + Better connections to state rail networks
- New enterprise opportunities
- + Special Activation Precincts and the 'Inland Port'
- + Intermodal access along the alignment
- + Intermodal terminals for Brisbane and Melbourne
- Enhanced port connections (Melbourne + Brisbane)
   to be determined (separate to Inland Rail scope)



# **IGNITING THE SUPPLY CHAIN**



Local governments are seizing the opportunity to plan and invest in complementary infrastructure and play to their regions' strengths

Australian Government has committed \$44 million to an Inland Rail Interface Improvement Program



Parkes – Special Activation Precinct

Moree – Special Activation Precinct

Narrabri – 'Inland Port'





Community Benefits

Narrabri to North Star Phase 1

September 2020 to December 2021

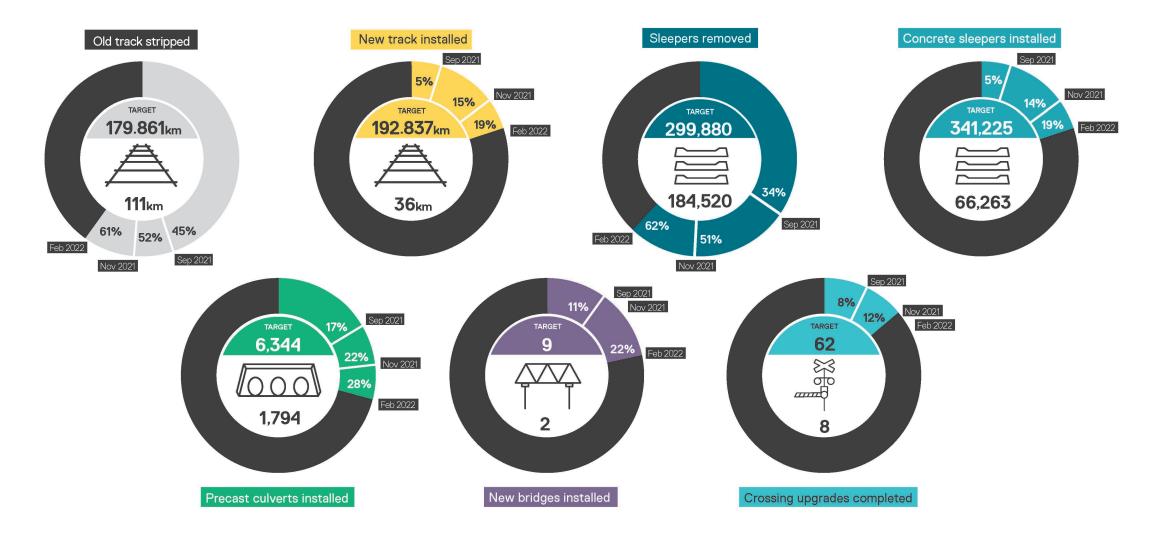




#### February 2022

#### Narrabri to North Star Phase 1 construction progress

Each quarter, we're tracking the N2NS Phase 1 project team's construction progress against completion targets across key activity areas.



# **EIS UPDATE**

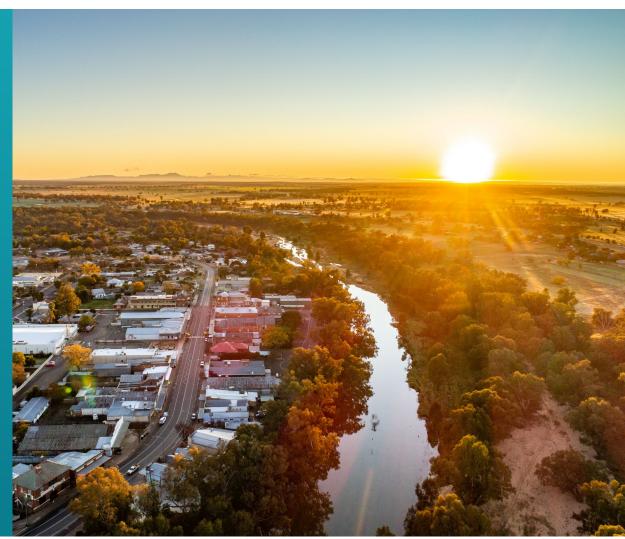
Ċ-



## **OVERVIEW**



- EIS Process
- Response to Submissions Report
- Preferred Infrastructure Report
- Route Selection Summary Report
- Amendment Report
- Additional Environmental Assessment
- Biodiversity Update
- Next Steps



#### **EIS PROCESS**



Next steps	Status response		
Concept Assessment	<ul><li>Prepare State Significant Infrastructure Application Report</li><li>Lodge State Significant Infrastructure Application Report</li></ul>	$\sim$	
Reference Design and EIS	<ul> <li>Receive Secretary's Environmental Assessment Requirements (SEARS)</li> <li>Corridor refinements (Study Area, Focused Area and Rail Corridor)</li> <li>Prepare EIS</li> </ul>	$\sim$	
Project Assessment	<ul> <li>Exhibit EIS</li> <li>Prepare Response to Submissions Report</li> <li>Prepare Preferred Infrastructure/ Amendment Report</li> <li>DPE assessment and determination</li> </ul>	<ul><li>We are here</li><li>We are here</li><li>Ongoing</li></ul>	
Project approval	<ul> <li>Receive planning approval</li> </ul>	- Late 2022	
Construction	<ul> <li>begin early works, followed by major civil construction and rail and signalling work</li> </ul>	– Late 2022–2025	
Operation	<ul> <li>Inland Rail Melbourne to Brisbane freight network to become operational</li> </ul>	– From 2027*	

## **RESPONSE TO SUBMISSIONS REPORT**



**Top submission themes** 116 submissions were received from the public, public authorities and organisations Visual Vegetation Noise and Environmental management value - fire risk native fauna/wildlife impact Fencing Rigour and welfare Borrow around the consideration construction rail line access issues and Aboriginal of local Use crossing points. heritage knowledge of local businesses ARTC 17

## PREFERRED INFRASTRUCTURE REPORT



In April 2021, the Planning Secretary directed ARTC to provide a Preferred Infrastructure Report (PIR) which:

- Addresses the hydrology and flooding impacts of the Project
- Provides appropriate justification and information on the design of the Project and alternative rail alignments considered
- Provides design alternatives to demonstrate how residual flooding impacts can be reduced



## **ROUTE SELECTION SUMMARY REPORT**





Location of the proposed alignment and exploration of alternate routes, such as using existing rail lines in the area



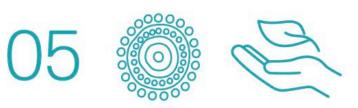
Consideration of floodplains when identifying routes



Analysis of the assessment criteria for determining routes



Property and business impacts associated with the final rail alignment



Environmental and cultural heritage concerns over the final rail alignment

#### AMENDMENT REPORT

PROPOSED FEATURE		PROPOSED AMENDMENT	ARTC	
			-	
<u>_2</u>	Crossing loops	Relocation of seven crossing loops to new locations to minimise overall impacts.		
	Public level crossings	Changes to public level crossing numbers, locations and treatements due to changes to updated traffic data and refinement of sight distances.		
	Public road closures	Reduction in the number of public roads and access tracks that would need to be closed, mainly as a result of crossing loop relocations.		
$\rightarrow$	Public road realignments	Changes to public roads requiring realignment to minimise property impacts.		
	Temporary workforce accommodation	Changes to the locations of the Narromine North and Baradine temporary workforce accommodation facilities based on consultation with key stakeholders. Mobile accommodation facilities are now proposed be provided within some of the general compounds for improved workforce flexibility.		
	Construction and operation footprints	Adjustments to the construction and operational footprints to accommodate the above amendments and other proposed design refinements, and to minimise the amount of disturbance where possible.		

## **ADDITIONAL ENVIRONMENTAL ASSESSMENT**



Biodiversity Flooding/hydrology Noise and vibration Aboriginal cultural heritage Social

... considered and responded to issues raised in submissions and during consultation with stakeholders

...assessed the impacts of the proposed amendments

...further progressed commitments made in the EIS

...responded to the request of the Planning Secretary in relation to flooding and hydrology.



## **BIODIVERSITY UPDATE**



#### Ongoing consultation with Biodiversity Conservation and Science division of DPE

...completed additional targeted flora and fauna surveys in September 2020 in a number of new areas where property access had not previously been available. Surveys also took advantage of wet spring conditions.

...revised construction and operation footprints have been mapped and assessed

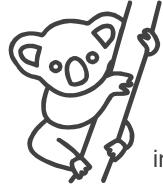
...targeted fauna surveys in August 2021 using independent experts

...threatened flora surveys in Pilliga in March 2022



## **KEY TARGETED ADDITIONAL FAUNA SURVEYS**





Thermal drone surveys were flown at night in August 2021 over the Pilliga to search for presence of Koalas.

Follow up day-time surveys were conducted to confirm initial findings from the drone surveys for Koalas.

Independent certified (by BCS) experts were engaged to provide advice on presence/absence of Koala, Little Eagle and Square-tailed Kite.

Findings used to confirm the presence/absence mapping of these species for use in the updated biodiversity impact assessment.





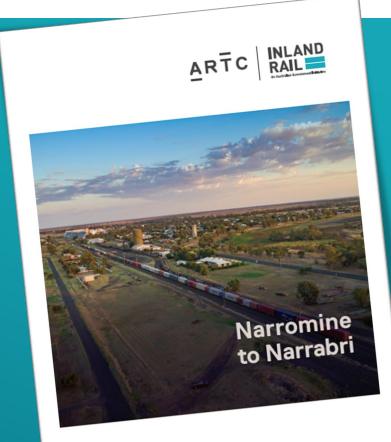


Documentation will be publicly available on DPE's Major Projects Portal

PIR/Amendment Report Summary to help community navigate the documents

Social PinPoint to make detailed flood mapping publicly available along the entire alignment

Upcoming community consultation and stakeholder engagement activities



Preferred Infrastructure/ Amendment Report **Summary** 

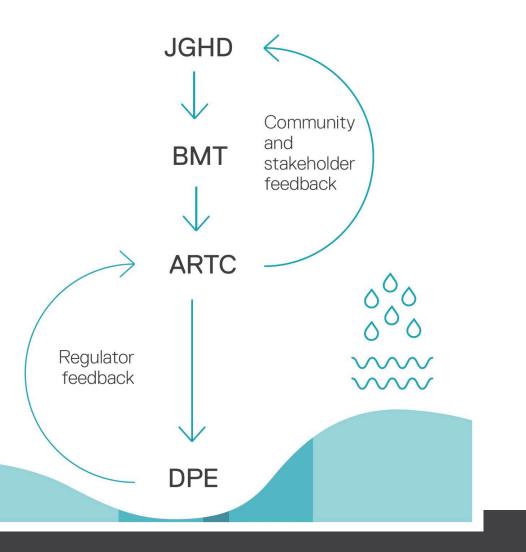
# HYDROLOGY UPDATE





#### Updated flooding and hydrology assessment report (FHAR)

- Updated FHAR prepared to support Preferred Infrastructure / Amendment Report
- Regular and ongoing consultation with Department of Planning and Environment (DPE)





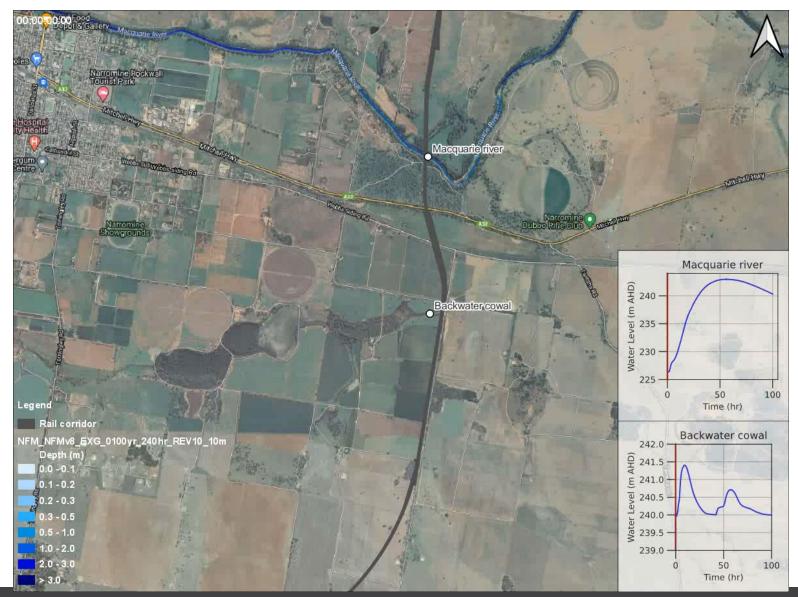
#### **Assessment changes**

- Culvert blockage factors
  - Included in updated modelling
  - Determined in accordance
     with Australian Rainfall and
     Runoff (ARR)
- Additional flood relief structures
- Drainage control areas



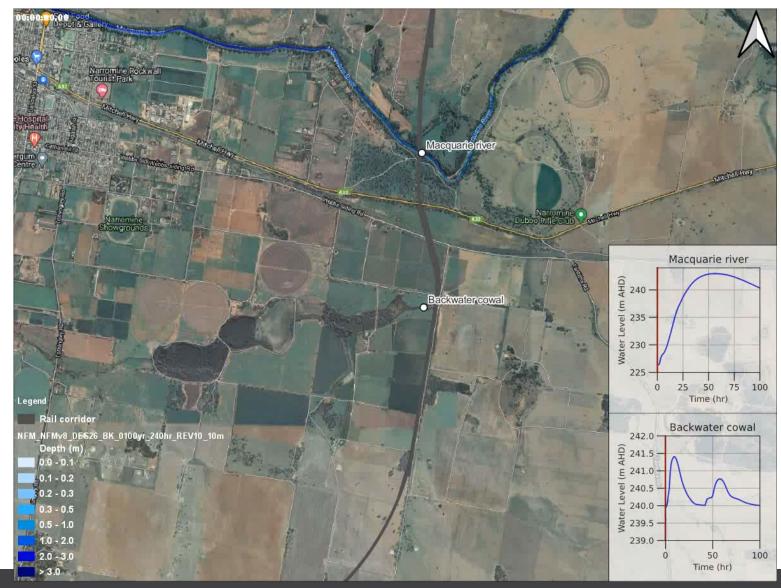
#### **Narromine flood simulation - existing**





#### **Narromine flood simulation – with proposal**





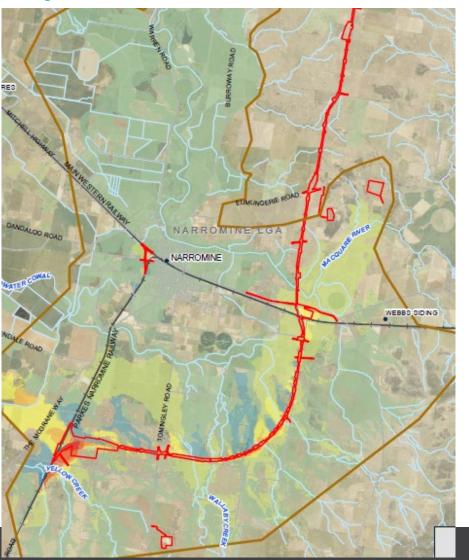


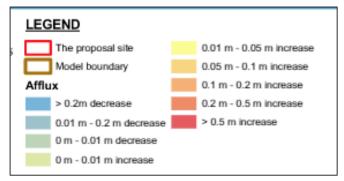
#### Impact assessment - Quantitative Design Limits (QDLs)

- QDLs established by DPE and require assessment of changes in:
  - Flood level (afflux)
  - Velocity
  - Hazard
  - Duration
- QDLs are for events up to and including 1% AEP



#### Impact assessment – Narromine (1% AEP)

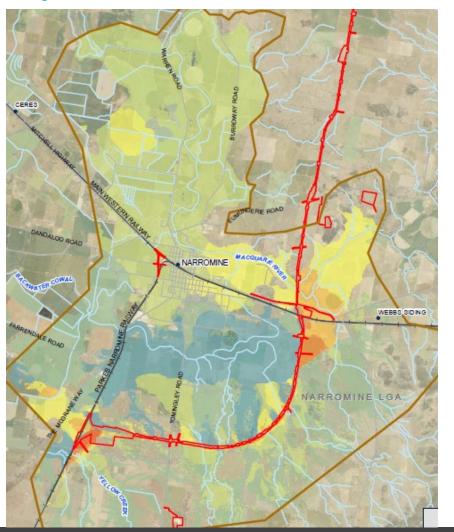


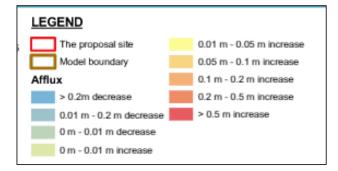


# 1% AEP change in flood levels



#### Impact assessment – Narromine (0.2% AEP)





# 0.2% AEP change in flood levels



#### **Impact assessment - Narromine**

 Design is compliant with QDLs except:

Isolated buildings, most already flooded but afflux limit is exceeded in 1% AEP

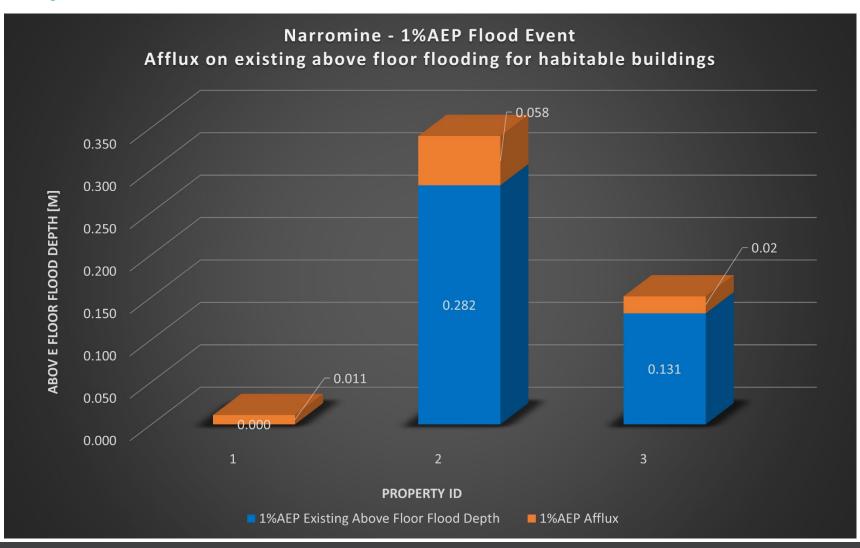
- 3 habitable
- 11 non-habitable

No significant noncompliances for other QDLs (velocity, duration, hazard)





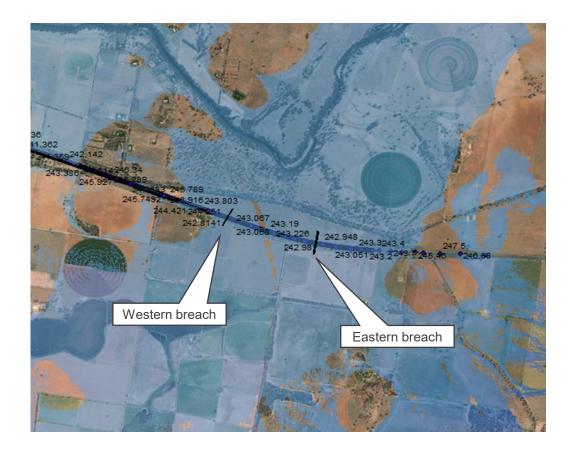
#### **Impact** assessment





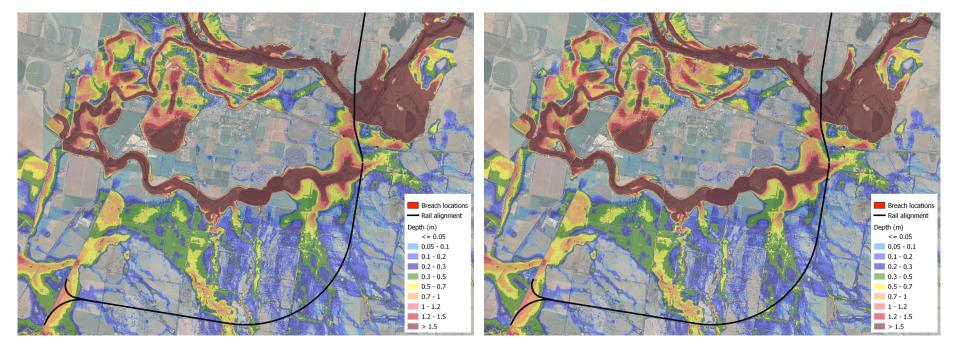
#### **Assessment of potential failure at Webbs Siding**

- Identification of potential breach location
  - Reviewed LiDAR
     data and profile of
     the embankment
  - Identified two potential breach locations



# PEAK FLOOD DEPTHS – POTENTIAL FAILURE OF WEBBS SIDING, 1% AEP EVENT WITH COINCIDENT FLOODING

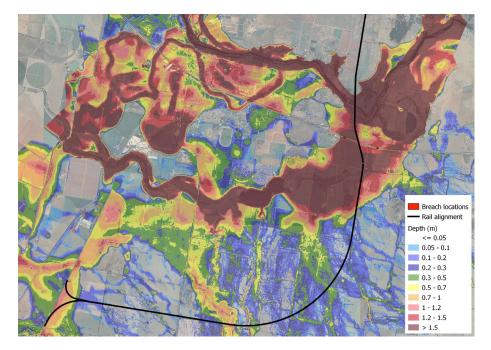
Existing condition



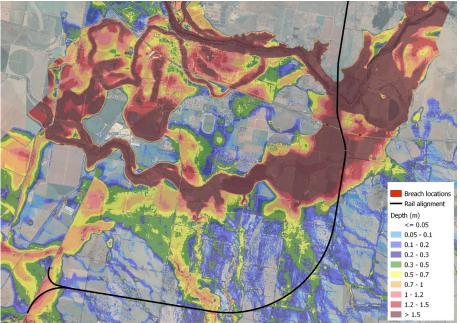
Operational phase of N2N

# PEAK FLOOD DEPTHS – POTENTIAL FAILURE OF WEBBS SIDING, 0.5% AEP EVENT WITH COINCIDENT FLOODING

Existing condition

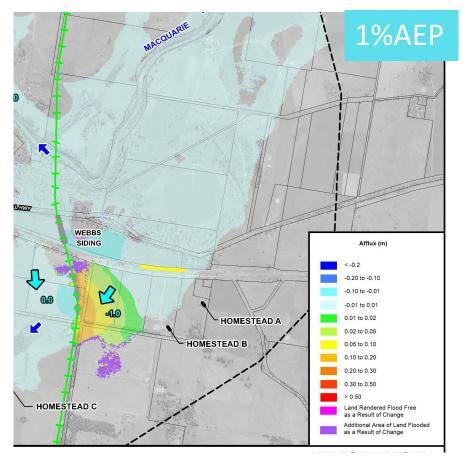


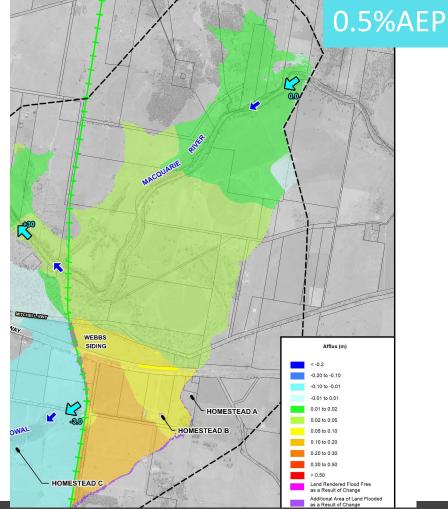
Operational phase of N2N





# IMPACT ON PREFERRED RISK MANAGEMENT □ MEASURES FOR NARROMINE POST-DEVELOPMENT OF N2N □







### Summary

- Assessment has been updated to address regulator and stakeholder feedback
- Overall, no widespread flooding impacts
- The proposal has no adverse impacts on flood behaviour due to potential failure of the existing Narromine to Dubbo rail embankment at Webbs Siding in a 1% AEP and a 0.5% AEP flood events
- No impacts to the preferred flood mitigation measures for Narromine. Further consultation during detailed design.
- Management of QDL departures in accordance with conditions of approval

# **ROUTE SELECTION UPDATE**





# **OVERVIEW**

# Longest greenfield section and offers best opportunity to save time and distance

### **Current alignment refined over many years**

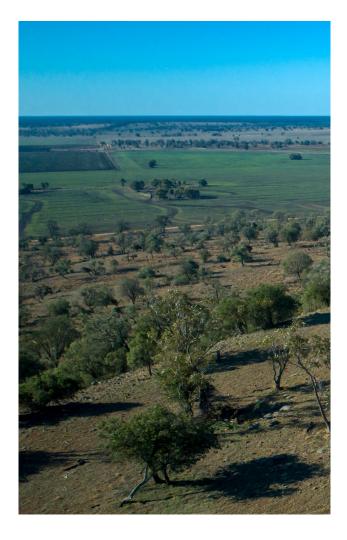
- Using a best 'on balance' approach
- All route selection reports and key decisions available on IR website
- PIR and Route Selection Summary Report respond to DPE's PIR request on route selection

## **Stakeholder consultation commenced in 2015**

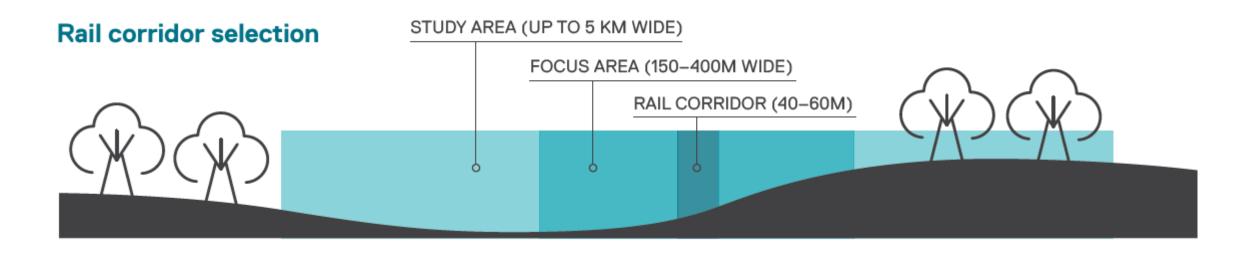
## Impacts of the project are minor and can be mitigated

• PIR confirms no significant residual flooding impact





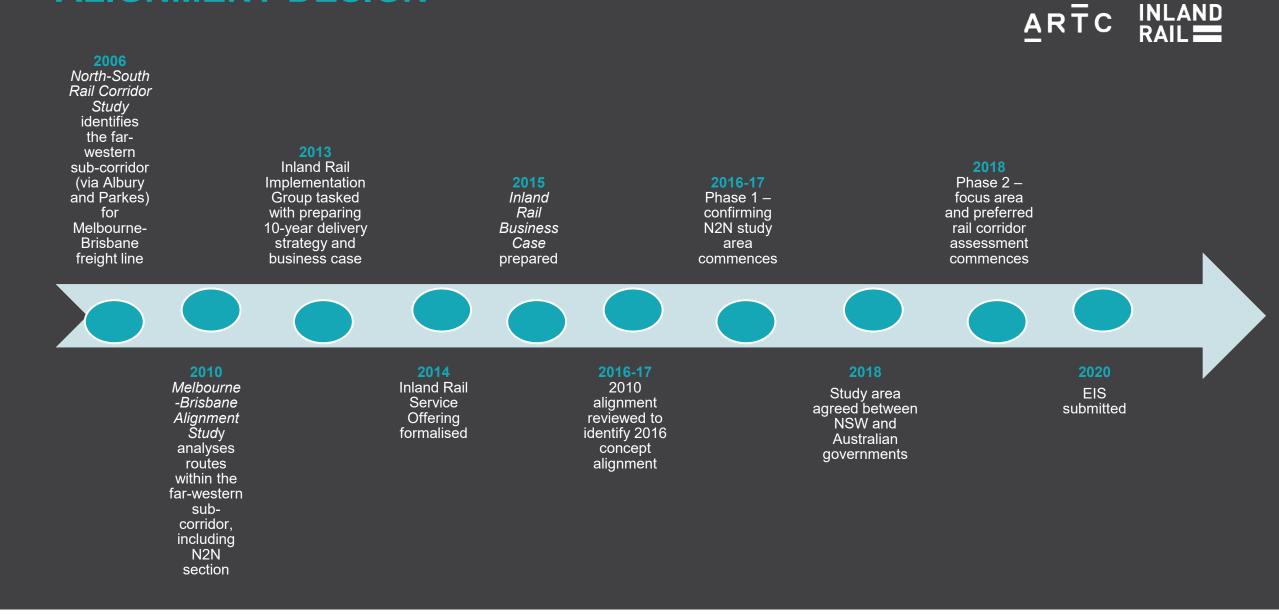
# **ROUTE SELECTION PROCESS**



### The N2N route was refined between 2016 and 2020

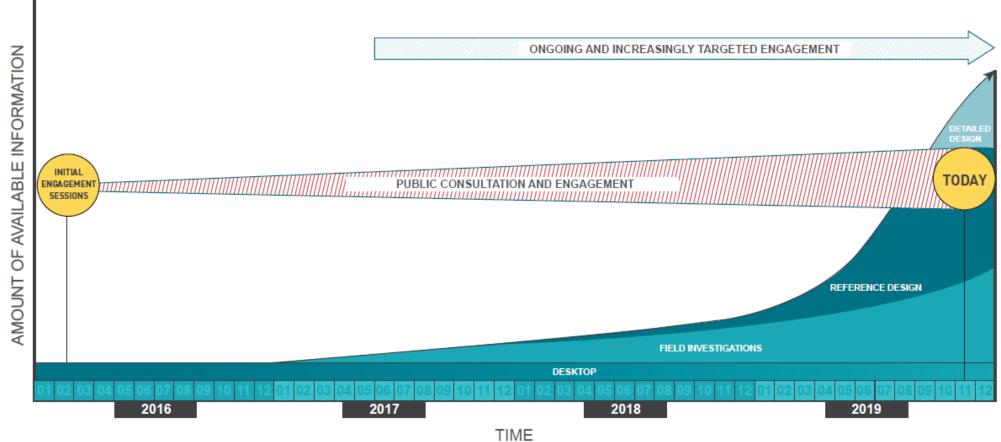


# **ALIGNMENT DESIGN**









# **CONSULTATION AND TECHNICAL STUDIES**

# **REFINING THE ROUTE**



#### ls a route viable?

MULTI-CRITERIA\* ANALYSIS



#### Technical viability (17%)

considers the alignment, impact on public utilities, geotechnical conditions, impacts on existing road and rail networks, flood immunity and hydrology and future proofing.

### (6

#### Safety assessment (16.5%)

considers construction safety, operational safety, public safety, road safety interfaces and emergency response.



Community and

considers property impacts.

heritage, heritage, impact

on community, community

response and current and

economic impacts.

Does it enhance the

Transit time

Melbourne to

than 24 hours.

Brisbane of less

transit time from

Requires a

service offering?

=

< 24 HOURS

future land use and links to

Indigenous and non-Indigenous

(12.5%)

#### Constructability and schedule (12.5%)

considers construction duration, access and complexity, resources, interface with operational railway and staging opportunities.



considers ecological impacts (flora, fauna and habitats), visual impacts, noise and vibration impacts, flooding and waterway impacts and effects on air quality and greenhouse gas emissions.

#### Approvals and stakeholder property impacts (12.5%) engagement (12.5%)

Reliability

reliability for

customers.

freight

Requires 98%

 $( \oslash )$ 

98%

considers impacts on travel

time, reliability and availability,

and network interoperability and

connectivity including interfaces

with rail terminals and network.

considers planning and approval requirements, consultation with Federal and State agencies and local governments, other statutory and regulatory approvals and service authority interfaces, such as utilities etc.

of qualitative and quantitative criteria is considered as part of the Multi-Criteria Analysis (MCA). The MCA process is recognised as an industry standard and is widely used in Australia and internationally.

#### ALTERNATIVES ARE BASED ON THEIR ABILITY TO MEET THE SERVICE OFFERING



Requires competitive pricing for freight customers.

Availability Requires train paths at the times suitable

to market needs.

#### ALTERNATIVES ARE COMPARED ON THE BASIS OF COST

ls it value for money?

Construction estimate

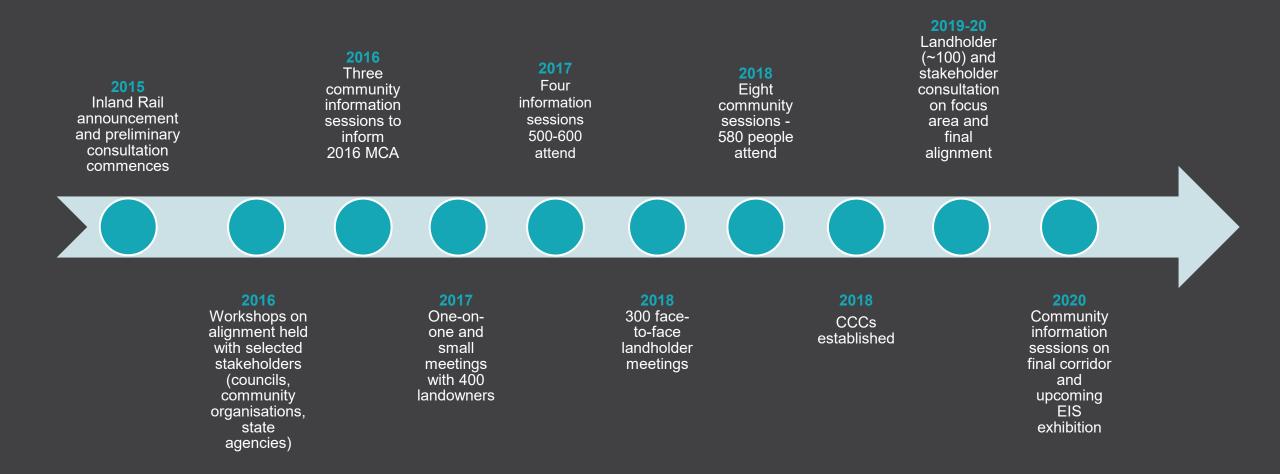
costs

{\$}



# ENGAGEMENT





# CONCLUSION

# Route has been refined over many years using the iterative, transparent MCA process to:

- Achieve the Inland Rail Service Offering
- Consider environmental and social impacts

# Landholders, community and stakeholders have been informed and engaged since 2015

No significant residual flooding impacts

Improved landholder sentiment over time

Study area was agreed by NSW and Australian governments





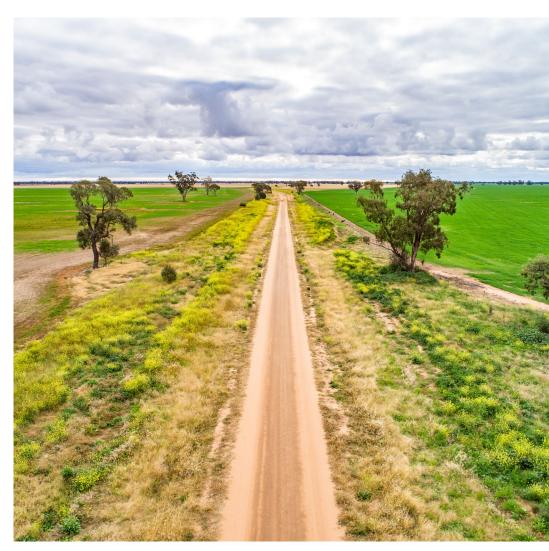
# **ENGAGEMENT UPDATE**



ARTC INLAND RAIL

# **COMMUNITY ENGAGEMENT UPDATE**

- Engagement Team
- Engagement Environmental Impact Statement
- Landowner consultation and engagement
- Stakeholder consultation and engagement
- Local Government consultation and engagement
- General consultation and engagement
- Specific consultation and engagement
- Other projects and activities
- Current focus & what's next





# **ENGAGEMENT TEAM**



- Erica Tudor, Stakeholder Engagement Manager (Narromine)
- Louise Johnson, Stakeholder Engagement Lead (Coonabarabran)
- Lachlan Beveridge, Stakeholder Engagement Advisor (Sydney)
- Anna Howard, Stakeholder Engagement Advisor (Dubbo)
- Ben Madgwick, Stakeholder Engagement Advisor (Dubbo)
- Grace Farrer, Stakeholder Engagement Advisor (Narrabri)
- Kate Schwager, Stakeholder Engagement Officer (Narrabri)
- Hannah Binge, Stakeholder Engagement Administration Officer (Narrabri)

# **COMMUNICATION & ENGAGEMENT – EIS**

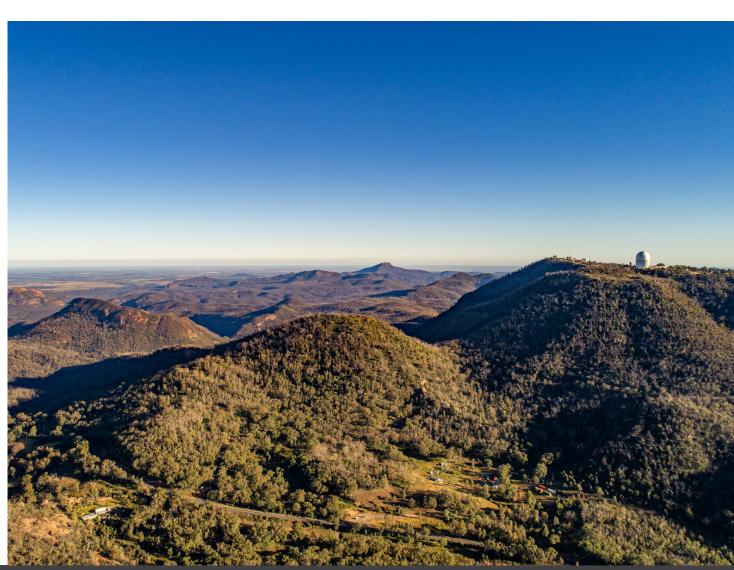


- Community Consultative Committees
- Direct communication impacted stakeholders
- Summary of Findings
- Briefing Sessions Key Stakeholders
- Pop-Up Sessions
- Community Drop-In Sessions
- EIS Support Sessions
- Static displays
- General communication



# **LANDOWNER CONSULTATION & ENGAGEMENT**

- Environmental Impact Statement (EIS)
- Property acquisition voluntary ARTC IR process (April 2021)
- Property acquisition TfNSW process (December 2021)
- Individual matters, in particular regarding access
- Field investigations



ARTC

# **PROPERTY ACQUISITION BY AGREEMENT**



	Initial consultation and contact period				The minimum six-month negotiation period starts when you receive the Opening Letter			
Key stages				4	4 5 6 7 8			
u can talk to ur acquisition oport team any time, luding while ur lawyer is resenting you.	Project announced Community information sessions and public announcements will inform you about the project plans.	<ul> <li>The acquisition agency will contact you</li> <li>If you are directly impacted and your residence is being acquired, you'll be provided with a Personal Manager. This person will guide you through the acquisition process.</li> <li>Your Personal Manager will try to meet with you face to face to: <ul> <li>confirm that your property needs to be acquired</li> <li>introduce the acquisition support teem</li> <li>explain the process.</li> </ul> </li> <li>You will also neceive an introductory Letter as pert of this process.</li> <li>If your Personal Manager has been unable to neach you face to face to face to face to face to resch you for a personal will also neceive an introductory Letter as pert of this process.</li> </ul>	A meeting about the process Vour acquisition support team will arrange to meet with you to discuss the next stress. They'll give you more information about the acquisition process and relocating, and help you with any concerns.	You'll receive an Opening Letter This letter wit • confirm the name and contact details of your Personal Manager and Acquisition Manager and Acquisition Manager • explain the property acquisition process, along with your rights and obligations • explain that the acquiring agency will arrange a valuation of the property by an independent valuer • encourage you to also get your own property valuation carried out by a valuer and to seek legal advice. You will be compensated for reasonable valuation and legal fees by the acquiring agency at settlement. Once the Opening Letter has been received, the start of the minimum six-month negotation period to reach an agreement on compensation begins.	Valuation reports         An independent valuer will inspect your property on behalf of the acquiring agency to determine its market value.         Your own valuer should also prepare a valuation report on your behalf.         Once you have your own valuation report, your Acquisition manager can organise an exchange of reports between the valuers.	Receiving an offer Subation has been completed, it will provide you with a Letter of Offer This offer will be based on information from the acquiring agency's valuation report and your discussions. It will include compensation for the market value of your property and other compensation you may be eligible for.	Reaching an agreement         By this stage, the valuers will have exchanged valuation reports.         Worr Acquisition Manager will organise to meet with you and both valuers to try to reach an agreement on compensation.         This may involve one or more meetings where each value will present the evidence their valuation is based on. You are welcome to attend these meetings.         Note: The actions isted in stages 6 and 7 may occur in a different order, depending on the particular circumstances.	Agreement reached and relocation Once an agreement on compensation is reached, the Acquisition Manager will arrange for contracts to be prepared and sent to ye or your lawyer. Contracts will be exchange and a date for settlement y be agreed on. You will be paid the agrees compensation and the property will be transferre to the acquiring agency. Your Personal Manager will help with your relocation needs, if required. The acquiring agency will invite you to complete a survey and give feedback on the acquisition process
What you can do	<ul> <li>Check websites, your mailbox, local newspapers and local signs for project information.</li> <li>Attend community information sessions.</li> </ul>	<ul> <li>Make a list of questions you would like to discuss.</li> <li>Be available to meet with your Personal Manager.</li> </ul>	<ul> <li>Talk to your Personal Manager about the acquisition process and ask them questions.</li> <li>Talk to your Acquisition Manager about how to select an independent valuer and lawyer.</li> </ul>	<ul> <li>Note any key dates or questions you have.</li> <li>Discuss next steps with your acquisition support team.</li> </ul>	<ul> <li>Research valuation and legal services.</li> <li>Seek legal advice.</li> <li>Arrange an independent valuation of your property.</li> <li>Submit your valuation to the acquiring agency.</li> </ul>	<ul> <li>Discuss next steps with your Personal Manager.</li> <li>Seek independent legal advice on the details of the offer, if you want to.</li> </ul>	<ul> <li>Ensure you are available for meetings.</li> <li>Consider the acquiring agency's offer.</li> <li>Seek legal advice before you formally accept the offer, if you want to.</li> </ul>	<ul> <li>Be prepared to sign any necessary documents.</li> <li>Work with your Persona Manager on your relocat and timelines.</li> </ul>

# STAKEHOLDER CONSULTATION & ENGAGEMENT

- Local Land Services
- Local Land Services Weeds
   Committees
- Transport for NSW
- Local Aboriginal Land Councils
- Regional Development Australia Orana and Northern Inland



# LOCAL GOVERNMENT CONSULTATION & ENGAGEMENT

- Third Party Agreements
- Floodplain Committees
- Introduction of project to new Councillors
- Introduction of Delivery Team to Councillors and key Council staff
- Flooding and hydrology
- Road / rail interfaces
- Specific Council matters & proposals



# **GENERAL CONSULTATION & ENGAGEMENT**



- Local Members
- Agricultural Shows
- Community groups presentations
- Community events and activities
- Conference presentations
- Department of Regional NSW
- State & Federal Government
   Departments
- Neighbouring Councils



# **SPECIFIC CONSULTATION & ENGAGEMENT**

- Emergency Services
- Regional Emergency Management
   Committees
- Chambers of Commerce
- Rail Corridor Program
- Materials Distribution Centre, Narromine
- Regional connectivity



ARTC

# **OTHER PROJECTS & ACTIVITIES**

- Health Checks agricultural shows
- Narrabri shopfront and office
- Narromine office
- Property acquisition public land
- Alignment familiarisation Delivery Team
- Narrabri Special Activation Precinct
- TfNSW Grade Separation project
- Community Sponsorships & Donations
   Program



# **CURRENT FOCUS & WHAT'S NEXT**

- Property acquisition process
- Updates with the general community
- Field investigations
- Finalisation of Third Party Agreements
- Development of other proposals key stakeholders
- Helping businesses and communities to become Inland Rail ready
- Detailed design phase





# MOVING FORWARD WITH INLAND RAIL





# QUESTIONS









