

# Zero Emission Bus Trial Industry Briefing

3 May 2021



## DoT Project Team

- **Megan Bourke-O'Neil**  
Deputy Secretary, Policy and Innovation
- **Kha Truong**  
Executive Director, Commercial Strategy
- **Andy Korr**  
Director, On-Road Transport Policy
- **Asim Baig**  
Assistant Director, Commercial Strategy

## Advisors

- Legal: **MinterEllison**
- Technical: **Arup**
- Probity Advisors: **RSM Australia**



# Probity and process arrangements

- If there is a probity issue contact the Probity Advisor and Project Director immediately by email and provide details of:
  - the proposed probity or procurement process issue or concern
  - how the probity issue or concern impacts on the Respondent's interest
  - any relevant background information
  - the Respondent's proposals for the resolution of the probity issue or concern.

## **Probity Advisor's contact details:**



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# Zero Emission Bus (ZEB) Project

## Contents

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- 1 Proposed approach and procurement
- 2 Local infrastructure & operational challenges
- 3 Procurement & Indicative Timing
- 4 Suggested Use Cases
- 5 Local Jobs First
- 6 Key Milestones
- 7 Next Steps and Key Information

- **Net zero greenhouse gas emissions by 2050**
- **Buses purchased from 2025 to be zero emission**
- **\$20 million invested in ZEB Trial for:**
  - **research**
  - **planning**
- **DoT's ongoing work to improve the Victoria's bus network**

# Proposed approach and procurement

## Projects desired outcomes:



### 1 Understand Operational and Cost Impacts

Test the impacts on customer experience, whole-of-life cost of fleet and infrastructure and bus networks integration (including dead-running impacts) – involving a range of use cases across the entire network



### 2 Enable Collaboration

Industry players encouraged to partner with existing bus operators in metro Melbourne and regional Victoria to propose trials of ZEBs on existing passenger services over the next 3 years. This is also an opportunity for industry to mobilise and develop local content capabilities.



### 3 Quantify Environmental and Financial Sustainability

Test the scalability of different ZEB solutions to inform Government and Industry in delivering a transition to a fully ZEB fleet.

# Local infrastructure and operational challenges

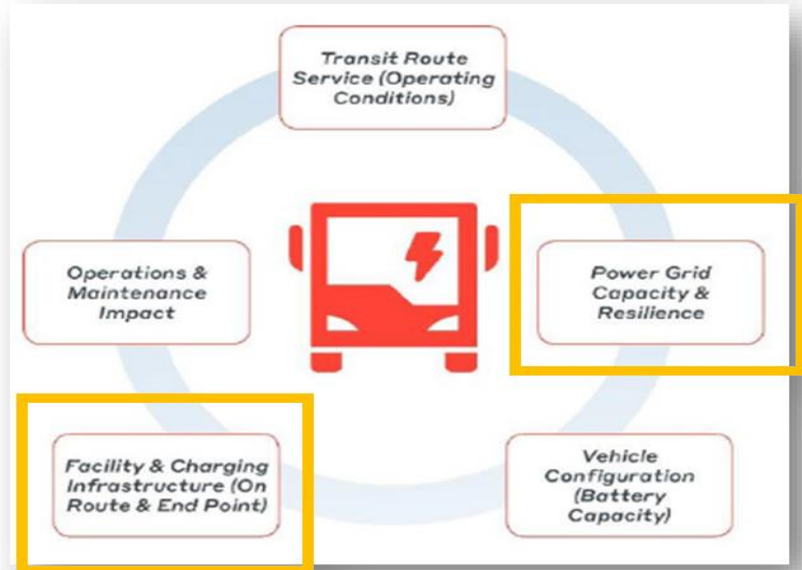
## Key opportunities / issues to be resolved

<p><b>Service delivery, customer expectations and impacts</b></p>	<p><b>Depot capacity and charging infrastructure</b></p>
<p><b>Energy and electricity network constraints and environmental outcomes</b></p>	<p><b>Technology choices:</b> Batteries / hydrogen to deliver ZEB solutions. We will consider both.</p>
<p><b>Industry transition:</b></p> <ul style="list-style-type: none"> <li>• Service Delivery</li> <li>• Bus Manufacturing and Supply Chain</li> <li>• Workforce Impacts</li> </ul>	<p><b>Commercial arrangements and lifecycle cost planning</b></p>

“

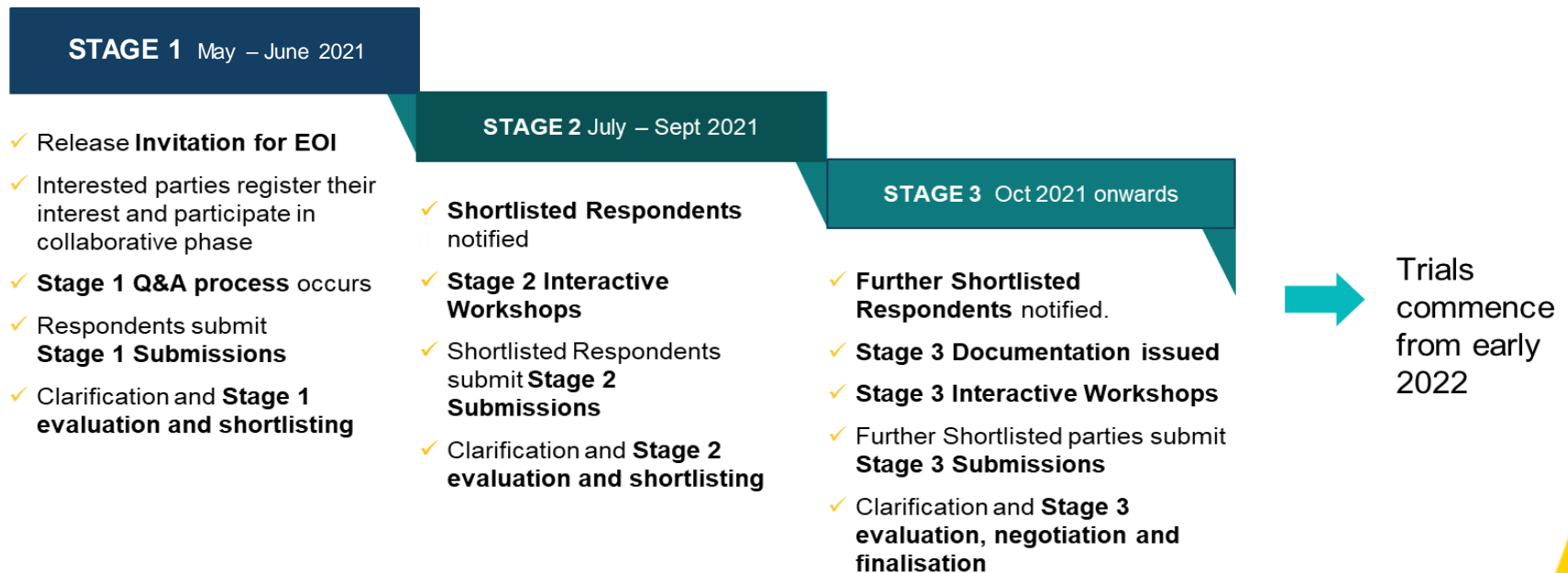
A ZEB trial will be more than a trial, it will be “Stage 1” of a ZEB transition roadmap ”

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# Staged procurement approach and indicative timeframe

*Note: Movement between stages may be staggered*



# Suggested use cases for EOI participants



## Metro and regional

Mix of operating environments: mixed traffic, high capacity and local routes.



## Key bus interchanges/streets

Improving local amenity and air quality in areas such as Melbourne's Inner West and other areas.



## Local flexible, on-demand routes

Smaller accessible buses to provide local on-demand and community services



## Longer distance services

Testing technology for longer distance bus services



# Local Jobs First



The Victorian Government's Local Jobs First Policy (**LJF Policy**) considerations for the EOI aims to:

- ✓ promote employment and business growth by expanding market opportunities for local industry
- ✓ provide contractors with increased access to, and raised awareness of, local industry capability
- ✓ expose local industry to world's best practice in workplace innovation, e-commerce and use of new technologies and materials
- ✓ develop local industry's international competitiveness and flexibility in responding to changing global markets by giving local industry a fair opportunity to compete against foreign suppliers.

For more information go to [www.localjobsfirst.vic.gov.au](http://www.localjobsfirst.vic.gov.au).



# Key milestones

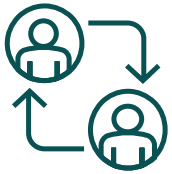
*Note: These dates are indicative and may be subject to change, and movement between stages may be staggered*

Key Milestone	Indicative Dates
<b>Stage 1</b>	
<b>Registration closes</b>	5:00pm on 14 May 2021
<b>Respondent list released</b>	17 May 2021
<b>Stage 1 Clarifications closes</b>	5:00pm on 21 May 2021
<b>Stage 1 Submission closes</b>	5:00pm on 4 June 2021
<b>Respondents shortlisted</b>	25 June 2021
<b>Stage 2 - starts Quarter 3 2021</b>	
<b>Stage 2 Interactive Workshops</b>	28 June 2021 – 16 July 2021
<b>Stage 2 Clarifications close</b>	5:00pm on 30 July 2021
<b>Stage 2 Submission closes</b>	5:00pm on 27 August 2021
<b>Respondents further shortlisted</b>	24 September 2021
<b>Stage 3 - progressively starting Quarter 4 2021</b>	
<b>Stage 3 documentation released</b>	September 2021 (may be staggered)
<b>Stage 3 Interactive Workshops</b>	Anticipated to start 27 September 2021 as set out in the Stage 3 Documentation
<b>Stage 3 Submissions due</b>	Anticipated between 27 September 2021 up to 26 November 2021 as set out in the Stage 3 Documentation (may be staggered)
<b>Project agreements signed</b>	Anticipated to start October 2021 (may be staggered)
<b>Start trial</b>	Anticipated to start October 2021 (may be staggered)



# Next Steps

## Collaboration



- DoT will release a list of all respondents shortly after registration closes
- Respondents are encouraged to collaborate

## Q&A Process



- Respondents can submit clarification questions
  - Questions must be submitted by the close of Stage 1 Clarifications (5 pm, 21 May 2021) utilising: [ZEB.DOT.Trials@transport.vic.gov.au](mailto:ZEB.DOT.Trials@transport.vic.gov.au)
- Further information about clarification questions is set out in *Clause 10.10 of the Terms and Conditions*
- DoT will issue written responses within a reasonable time
- All questions and answers will be published and may be publicly available

# Stage 1 and 2 Submissions

## Format of Submissions

### Stage 1

- ✓ must be submitted with a Stage 1 Submission Form and Commitment Letter properly executed by the Respondent and each Respondent Member
- ✓ must address the relevant matters in Appendix F
- ✓ must not exceed **5 pages in length** (excluding the Stage 1 Submission Form and Commitment Letter)

### Stage 2

- ✓ must be submitted with a Stage 2 Submission Form properly executed by the Respondent and each Respondent Member
- ✓ must address the relevant matters in Appendix F including where applicable a summary of amendments to existing bus service contracts
- ✓ must not exceed **20 pages in length** (excluding the Stage 2 Submission Form)

## Submission content

### Stage 1 Evaluation Criteria

1. Experience
2. Collaboration
3. Ability to be implemented and operationalised

### Stage 2 & 3 Evaluation Criteria

1. Ability to be implemented and operationalised
2. Customer and Environmental
3. Social Procurement and Local Jobs First
4. Respondent viability
5. Financial

### Stage 3 Binding Submissions



## More information

[www.tenders.vic.gov.au](http://www.tenders.vic.gov.au)

[ZEB.DOT.Trials@transport.vic.gov.au](mailto:ZEB.DOT.Trials@transport.vic.gov.au)