

Regional Automated Vehicle Trials

Industry Briefing

13 December 2017

Agenda

| | | |
|------|-------------------|---|
| | | |
| 2:30 | Industry Briefing | Opening addresses Clare Gardiner-Barnes – Deputy Secretary, Freight Strategy and Planning John Karaboulis – A/ Deputy Secretary, Infrastructure and Services RFEOI Details RFEOI Process |
| 3:45 | Q&A | Panel Discussion <ul style="list-style-type: none">• Evan Walker – Director, Smart Innovation Centre• Emma Reedy – Project Director, On Demand Transport• Julie Gee – A/ Principal Manager Regional Strategy• Andrew Hooley – Senior Project Officer, Smart Innovation Centre |
| 4:30 | Networking | |
| 6:00 | Event Close | |

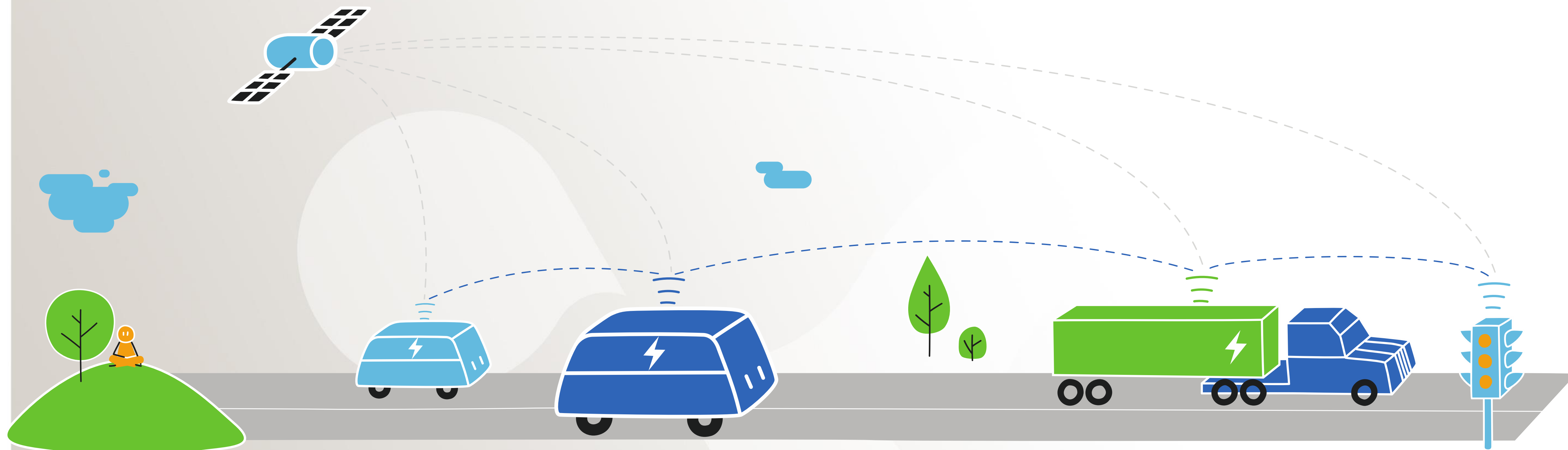
Clare Gardiner-Barnes

Deputy Secretary, Freight Strategy and Planning

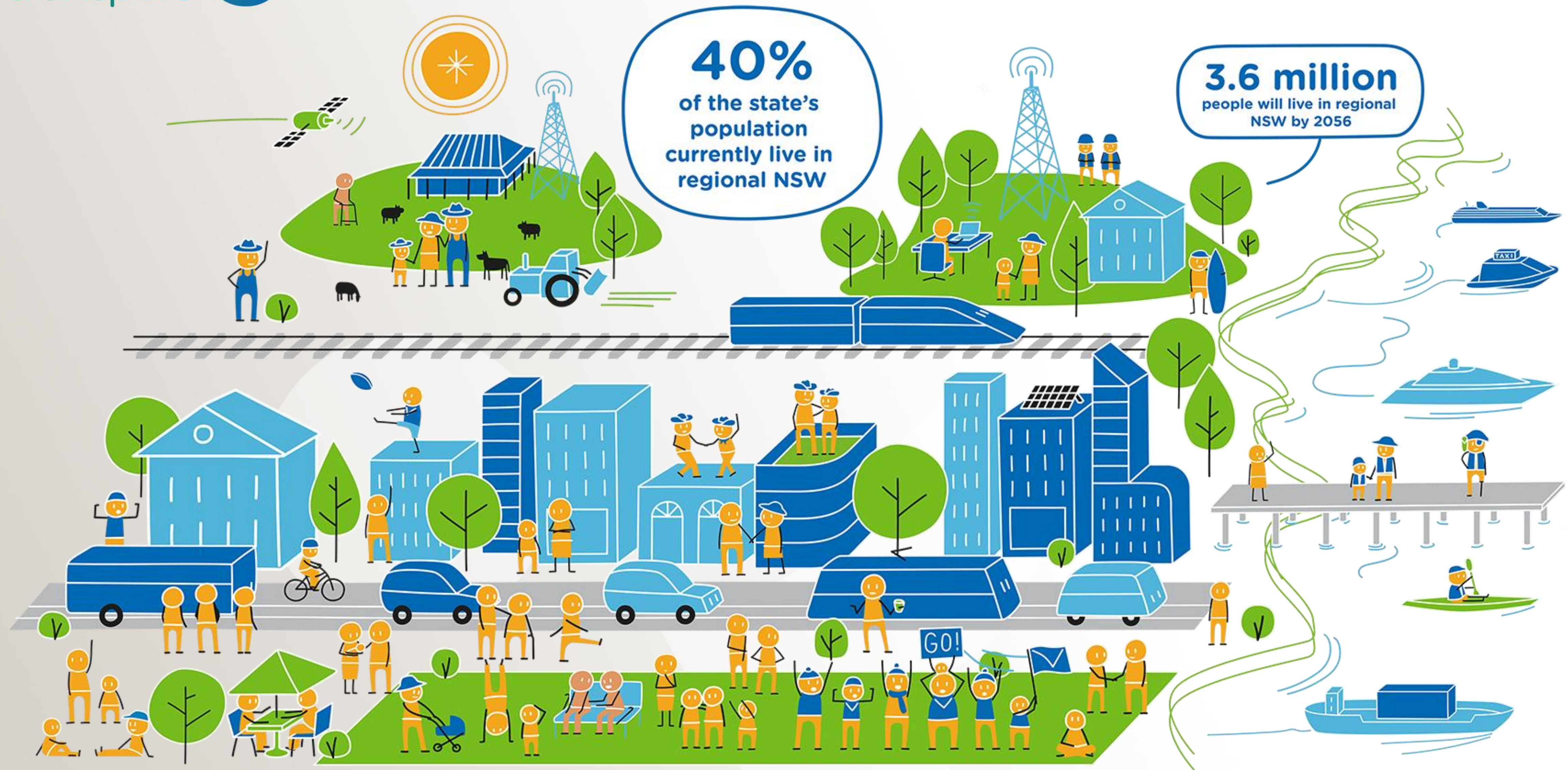
Future Transport – Strategy and Roadmap



Transitioning to an automated future



Future focus for Regional NSW



Enabling innovation and deployment





What we are doing:

- **Smart Shuttle Trial**
- **On-demand trials**
- **Cooperative Intelligent Transport Initiative**
- **Intelligent Congestion Management Project**



We are open for business

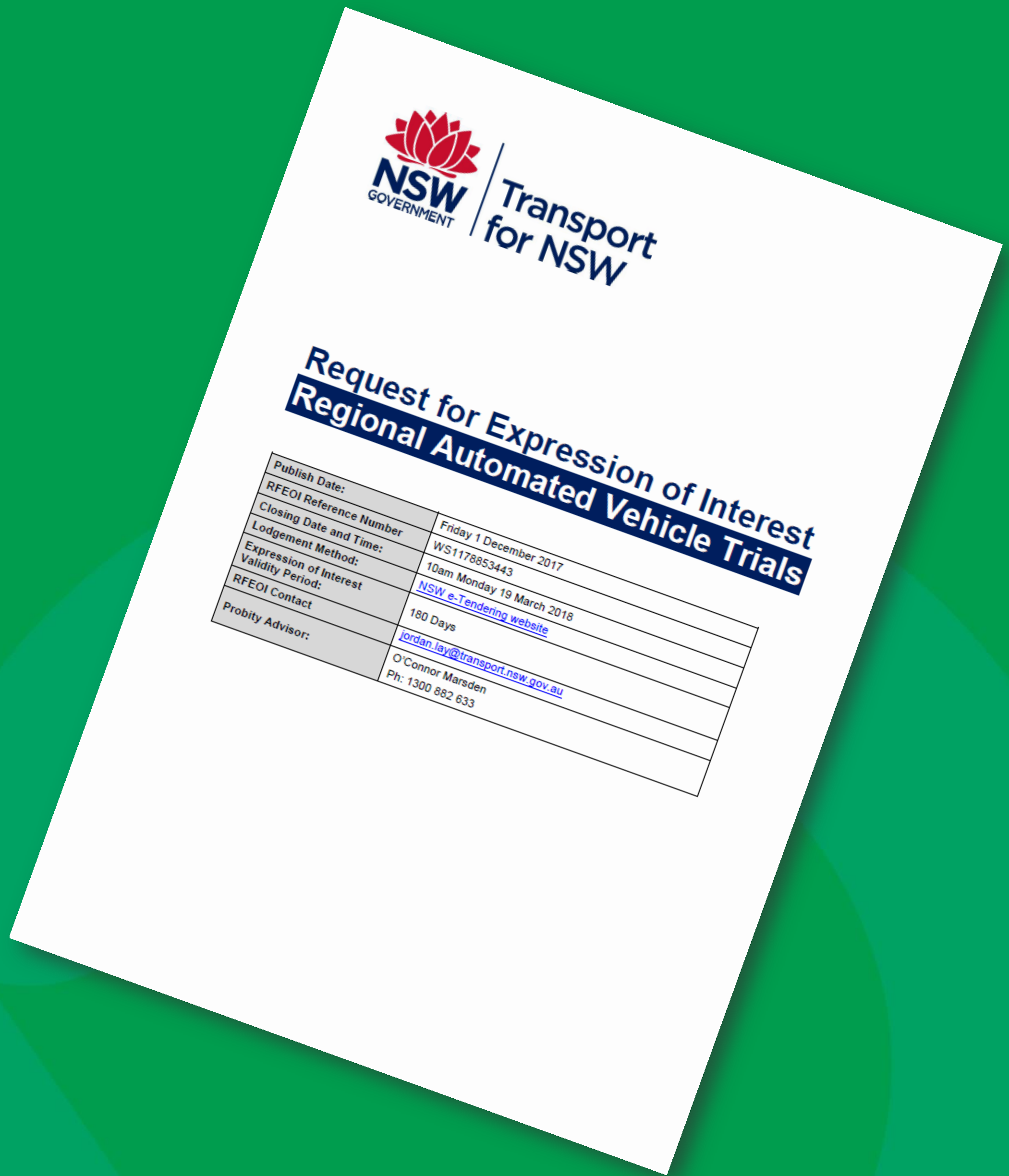
www.transport.nsw.gov.au

John Karaboulis

Acting Deputy Secretary, Infrastructure and Services

RFEOI Details and Process

Regional Automated Vehicle Trials

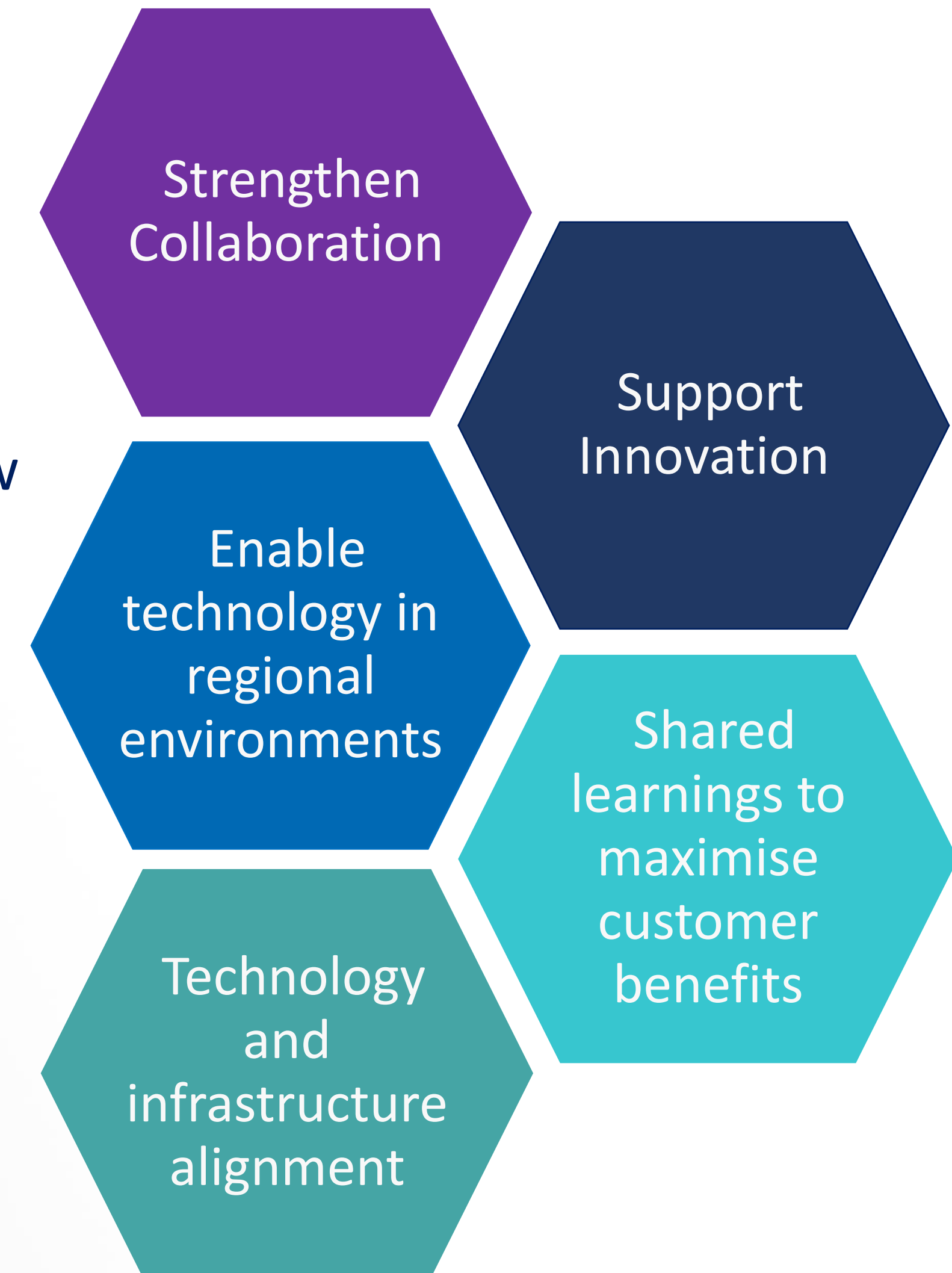


Evan Walker

Director, Smart Innovation Centre

What we're looking to achieve

- Strengthen collaboration to support innovation and stimulate trials in regional NSW.
- Lead the way in the development, application and enablement of new technology in regional environments.
- Ensure emerging technologies and our existing infrastructure and projects align, maximising the benefits for our customers.
- Create shared learnings and help us identify and implement new, creative and better ways to deliver transport to our customers.



What's in it for you

Partner with
Government

Potential to
evolve into
future service
delivery
models

Seed funding

Develop, test
and deliver
innovative
technology
directly to
customers

Gain a broad
understanding
of emerging
technology

Innovate &
Collaborate

Project Objectives

CAV's as part of the transport network

- How automated vehicles will operate as part of the integrated transport network, including collection of data and mapping of surrounding infrastructure.

Customer outcomes

- The potential for CAVs to improve customer outcomes in regional areas by developing and testing customer mobility and on-demand use cases.

Technology capability

- The current level of technology capability when operating in regional areas.

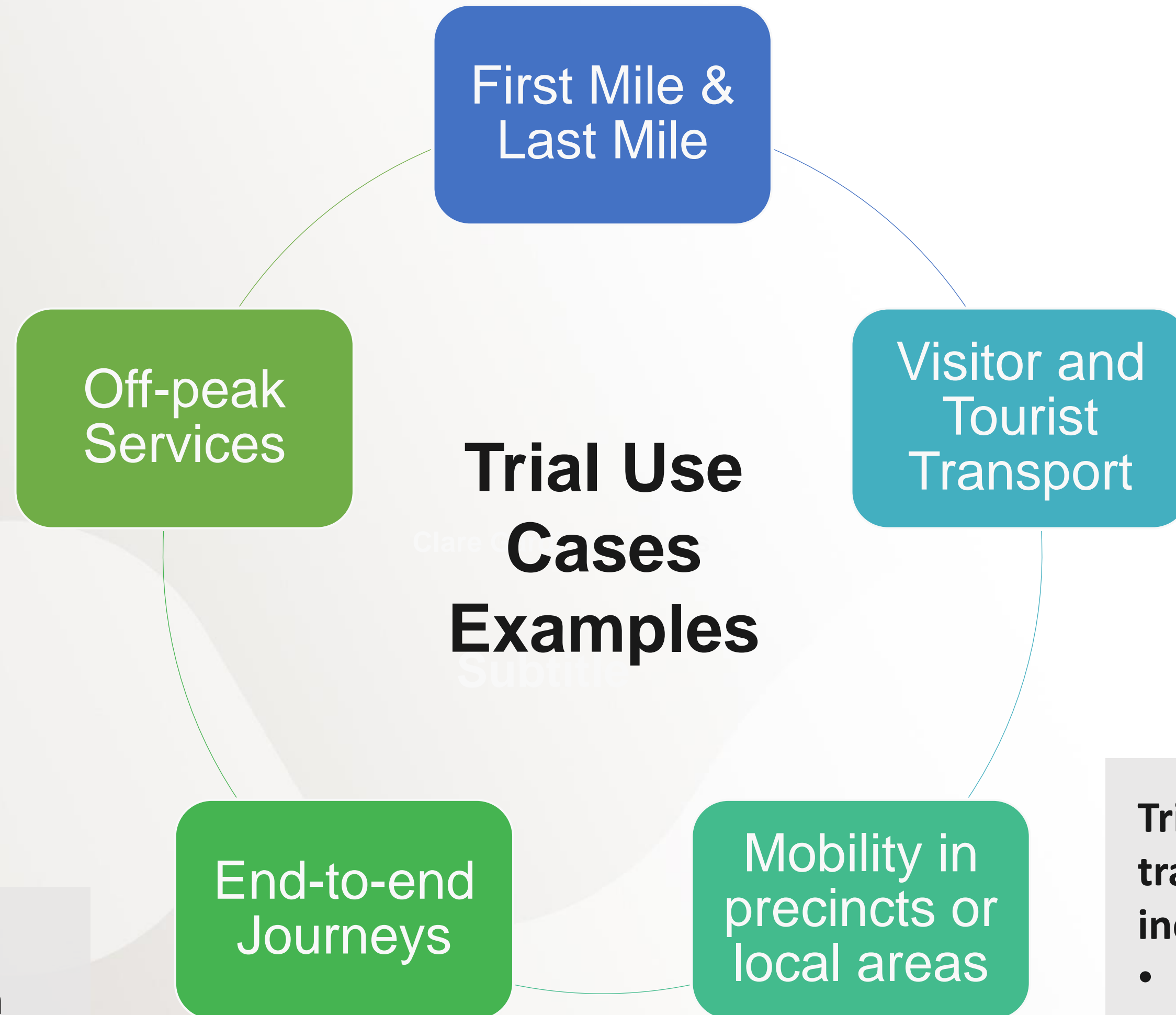
Infrastructure

- The physical and digital infrastructure required to enable and support the operation of CAVs in regional areas.

Government's Role

- The role of government and others in enabling automated vehicles to operate as part of an integrated and customer focused transport network.

Trial Scope



Vehicle Type

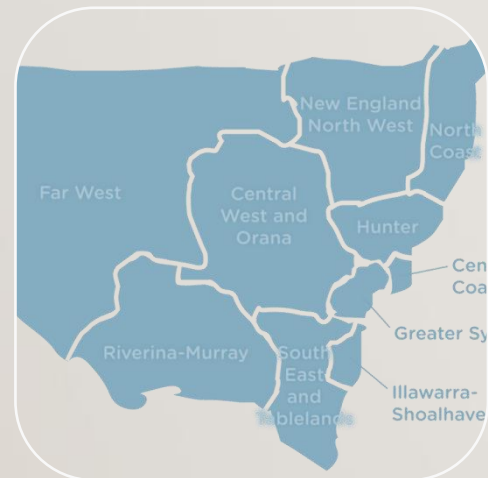
Proposed trials should focus on vehicles with SAE level 3 automation and above

Trials are not limited to public transport services and can include:

- Taxis
- On-demand solutions
- Shared mobility solutions
- All vehicle types considered

Trial Scope

Location Criteria



The trial site is located in a Regional City or other regional location and is suitable for operating the proposed trial.



The trial would support local transport needs.



The regional area has sustainable local support to establish and deliver the proposed trial.

Timeframe

12
Month
Trial

Potential
to extend
trial to
24
Months



Funding

- Looking to provide seed funding to best ideas
- Co-investment
- Merits considered on a case-by-case basis
- Potential to enable others

Potential Partners

Proposal Partners

- Proposals should include appropriate support from any parties with relevant skills, capabilities and capacity to deliver the full scope of the proposed trial.
- Proponents will have flexibility and discretion to work with any partners, under whatever arrangements they feel appropriate, in order to deliver the stated outcomes and objectives.

Integration with existing infrastructure

- Submissions should outline any key TfNSW assets or infrastructure that may be integrated with the trial to improve project outcomes.



Legislative and regulatory considerations

Relevant information to address legislative and regulatory considerations are outlined in:

- The Transport Legislation Amendment (Automated Vehicle Trials and Innovation) Act 2017 No 41
- <https://legislation.nsw.gov.au/#/view/act/2017/41/full>
- The National Guidelines for Trialling Automated Vehicles in Australia
- [https://www.ntc.gov.au/Media/Reports/\(00F4B0A0-55E9-17E7-BF15-D70F4725A938\).pdf](https://www.ntc.gov.au/Media/Reports/(00F4B0A0-55E9-17E7-BF15-D70F4725A938).pdf)
- Information on point to point transport services in NSW
- <https://www.pointtopoint.nsw.gov.au/>

Indicative Ministerial Exemption Order Approval Process



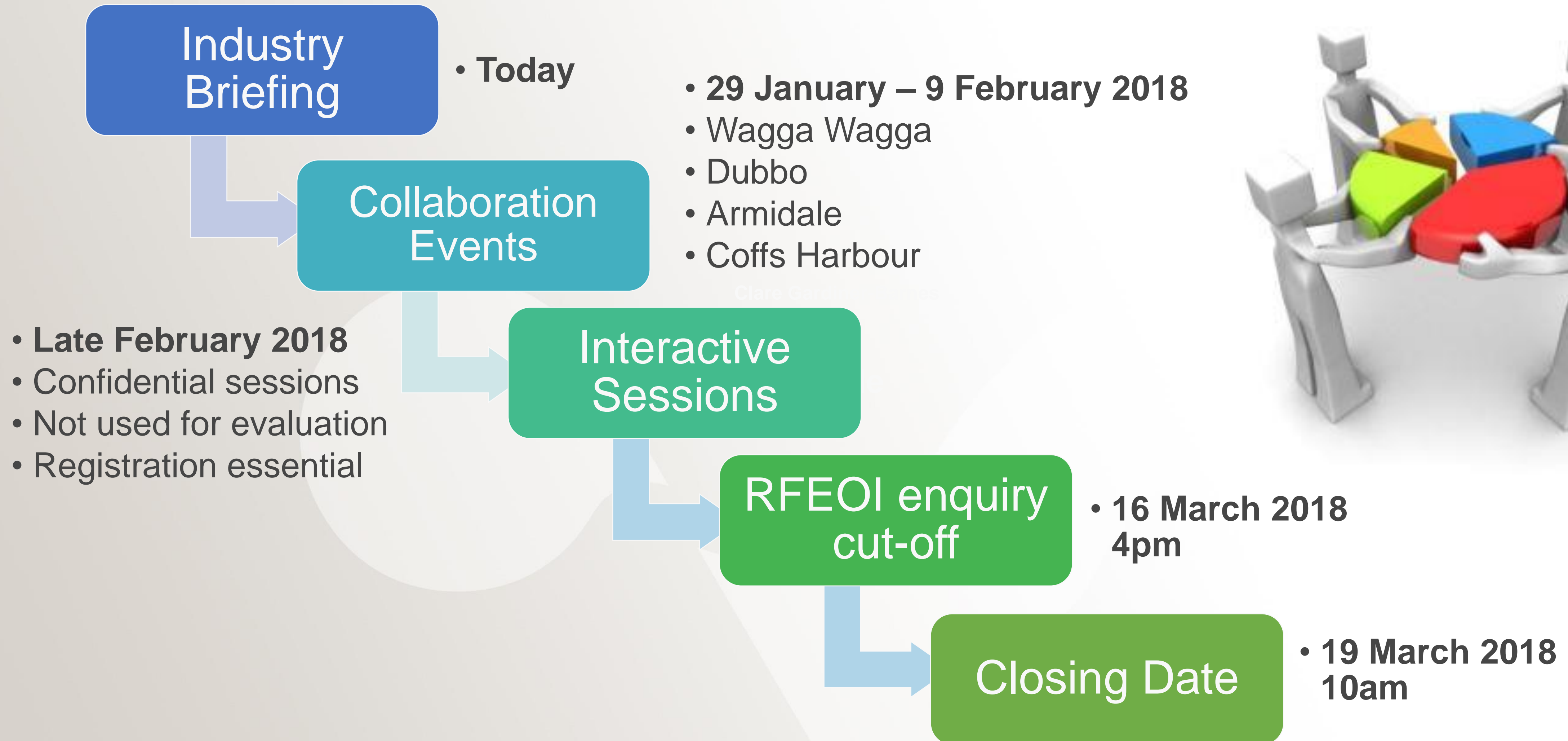
Emma Reedy

Manager, Operational Delivery

Project Director, On Demand Transport

Proposal development process

Designed to enable innovation & collaboration



Opt in collaboration information

- Before collaboration events we will circulate consolidated information from potential partners to help you identify potential collaborators to generate end-to-end project proposals.
- Participation is completely optional and permission to share your contact details and responses will be sought.

What will be shared

- Your contact details
- What are you looking to get out of a trial?
- What opportunities are you most interested to be involved in?
- What role are you looking to play in a trial and what do you have to offer other partners in developing and delivering a trial?

NSW GOVERNMENT | Transport for NSW

Regional Automated Vehicle Trials Request for Expressions of Interest (RFEOI)
Collaboration Event Registration

Organisation:
Main contact:
Email:
Phone:

What are you looking to get out of a trial?

What opportunities are you most interested to be involved in?

What role are you looking to play in a trial and what do you have to offer other partners in developing and delivering a trial?

Do you consent to TfNSW sharing the above information with other potential participants? Yes - No

Evaluation Criteria

| Evaluation Criterion | Overview |
|--|--|
| Alignment with project objectives | Proposals will be assessed in terms of how well they align with and inform the project objectives. Proposals that offer genuinely unique and valuable insights into the objectives will be preferred. |
| Location criteria | Proposals will be assessed against the location criteria. Minimum requirement: Trial must be located outside of the Sydney Metropolitan and Outer Sydney Metropolitan Bus Contract regions. |
| Level of innovation proposed in the trial | Proposals that represent an innovative approach, including demonstrating ability to translate the solution to applicability in an integrated and customer focused transport network will be preferred. |
| Potential speed to market | Speed to market includes both the ability for the trial to be deployed in the near term, and for broader rollout to occur without substantial delay should the trial be proposed to develop into a service offering post the evaluation of the initial trial. |
| Capability of Proponent and proposal partners to deliver proposed trial | The evaluation will take into consideration the capability and capacity of the Proponent and nominated proposal partners to deliver their proposed trial. Proposals that include a well rounded composition of the proposal partners to support the proposed trial will be preferred. |
| Alignment with the NTC trial guidelines and the NSW legislative framework | Proposals which demonstrate alignment with the NTC trial guidelines and the NSW legislative framework will be preferred. |

Proposals that offer the best value for money to government will be preferred. This evaluation will consider the request for funding as a total value and as a proportion of the total project value.

Minimum requirement: A minimum of 1/3rd of project costs must be contributed by the Proponent and proposal partners.

Proposal Requirements

Any chosen
format &
length

Minimum
Standards
As per
Section 12

One Stage
Process



Minimum Proposal Requirements:

- The scope of proposed trial must align with stated TfNSW objectives and evaluation criteria
- The intended trial outputs, objectives and outcomes and the degree to which these will be shared
- Details of lead project partner and proposed partnership structure
- Proposed trial financial schedule
- Proposed project plan
- Addressing legislative and regulatory considerations

Proposal Submission Process

RFEOI contact: Jordan Lay

- E: Jordan.Lay@transport.nsw.gov.au
- M: 0411 629 201

Please provide primary contact details

- If there is more than one entity, identify primary contact and list details of all entities in your submission.

All EOI submissions should be lodged via the Ariba Supplier Portal

- If you have not received login details please contact TSS.Bidder@transport.nsw.gov.au as per event on NSW eTenders website:
<https://tenders.nsw.gov.au/?event=public.rft.show&RFTUUID=97A6DABD-0A21-9A9D-B06F60DEC74E51F2>



Trial Agreements

Trial Agreement

- Where seed funding is provided TfNSW will enter an agreement with the proponent.

Agreement Structure

- TfNSW will enter into a contract with the nominated lead proponent. Seed funding payments will also be made to this proponent.

Clare Garfield

| Description | Time Period |
|---------------------------------------|----------------------------------|
| Initial term of the Trial Agreement | 12 months |
| Options to extend the Trial Agreement | Up to two extensions of 6 months |
| Maximum term of the Trial Agreement | 2 years |
| Trial progress reviews | 3 month intervals |

Andrew Marsden

Probity Advisor – O'Connor Marsden & Associates

Probity

THE PROBITY PLAN

Consistent behaviour that promotes impartiality

Equality of opportunity for bidders

Conflict free – expectation on bidders and Transport

Objective and merit based assessment

Adequate steps to manage TfNSW and bidders confidential information

Interfacing with bidders – single contact point

Clear requirements for bidders

Measure Value-for-Money – risks, price and non-price criteria



THROUGHOUT PROCESS

Active review and advice



CONCLUSION

Final report to management.



May be contacted directly if you have any issues of a probity or process nature that you believe should be resolved.

Julie Gee

A/ Principal Manager Regional Strategy

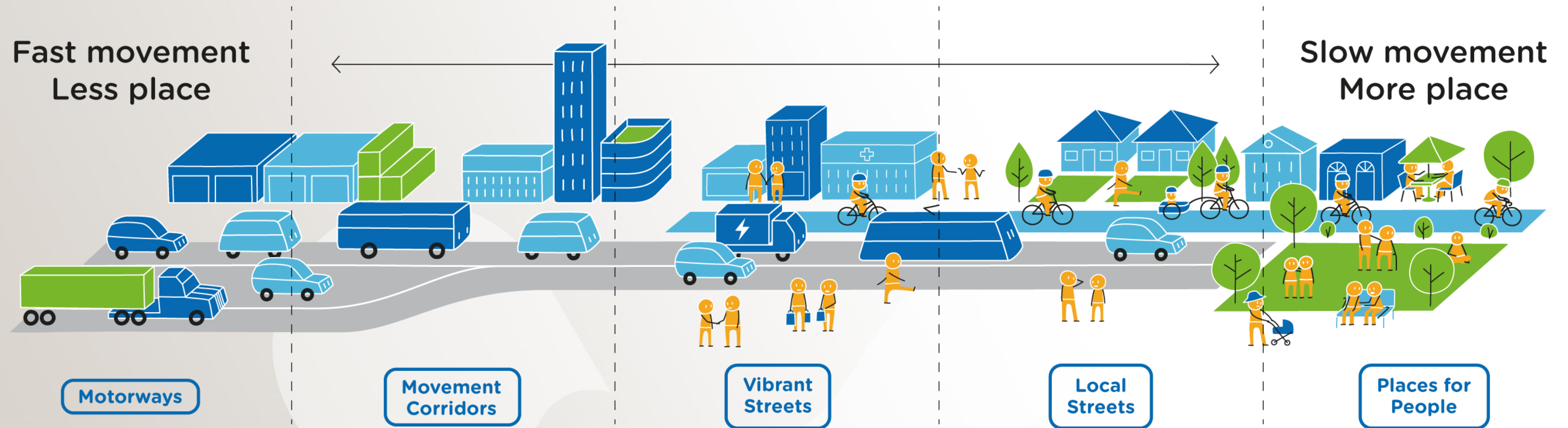
Future Transport Consultation



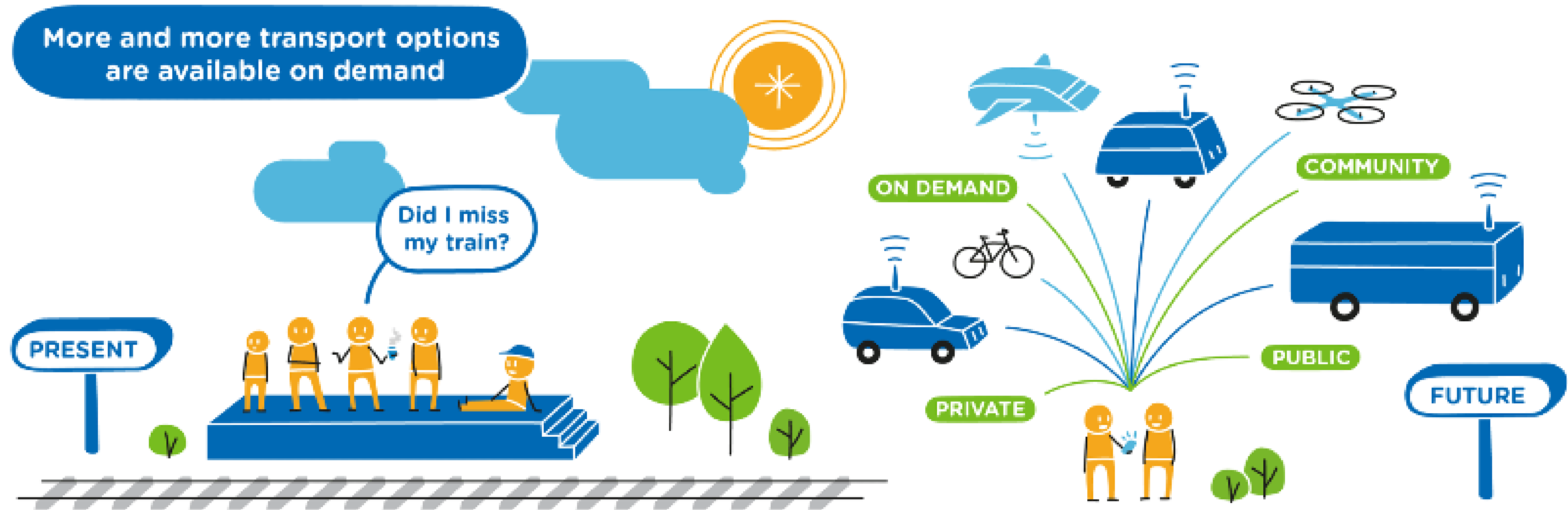
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locations



Balancing the movement of goods and people



Growing customer choice and empowerment



Q&A

Links to additional information

Collaboration Event Registrations

Dubbo: <https://www.eventbrite.com.au/e/regional-automated-vehicle-trials-dubbo-registration-41224636999>

Armidale: <https://www.eventbrite.com.au/e/regional-automated-vehicle-trials-armidale-tickets-41224663077>

Coffs Harbour: <https://www.eventbrite.com.au/e/regional-automated-vehicle-trials-coffs-harbour-tickets-41224688152>

Wagga Wagga: <https://www.eventbrite.com.au/e/regional-automated-vehicle-trials-wagga-wagga-tickets-41224600891>

Smart Innovation Centre website

<https://www.transport.nsw.gov.au/projects/programs/smart-innovation-centre/driverless-vehicle-projects#Regional>

Thank You