

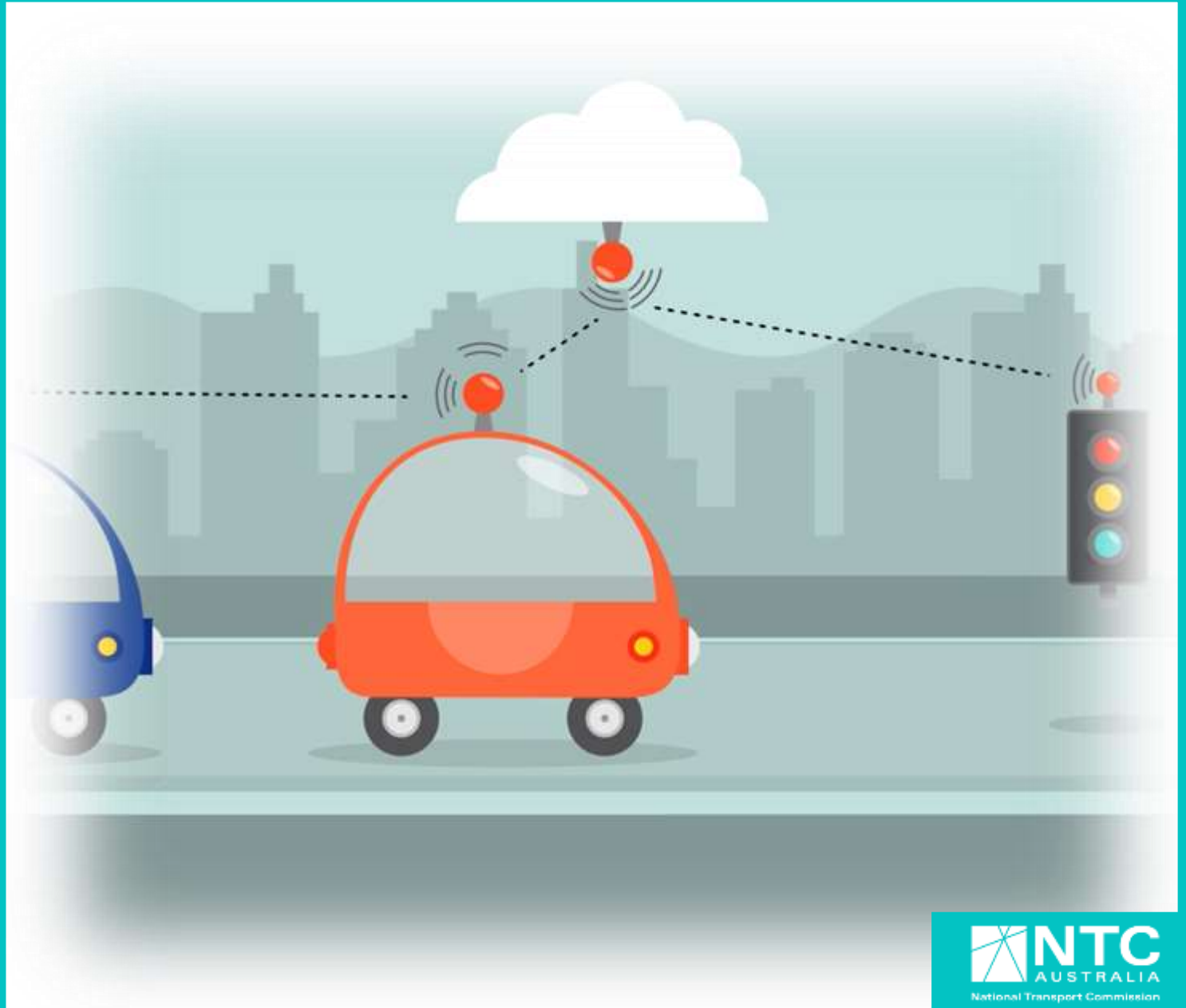
# Future innovation in road transport

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Australasia Bus Conference  
10 October 2018



## Heavy Vehicle National Law

- Mass and size
- Work and rest hours
- Maintenance

## Australian Road Rules

### Automated vehicles

Remove regulatory barriers to new, innovative transport services and products



TOMORROW  
BELONGS TO  
THOSE WHO CAN  
HEAR IT COMING

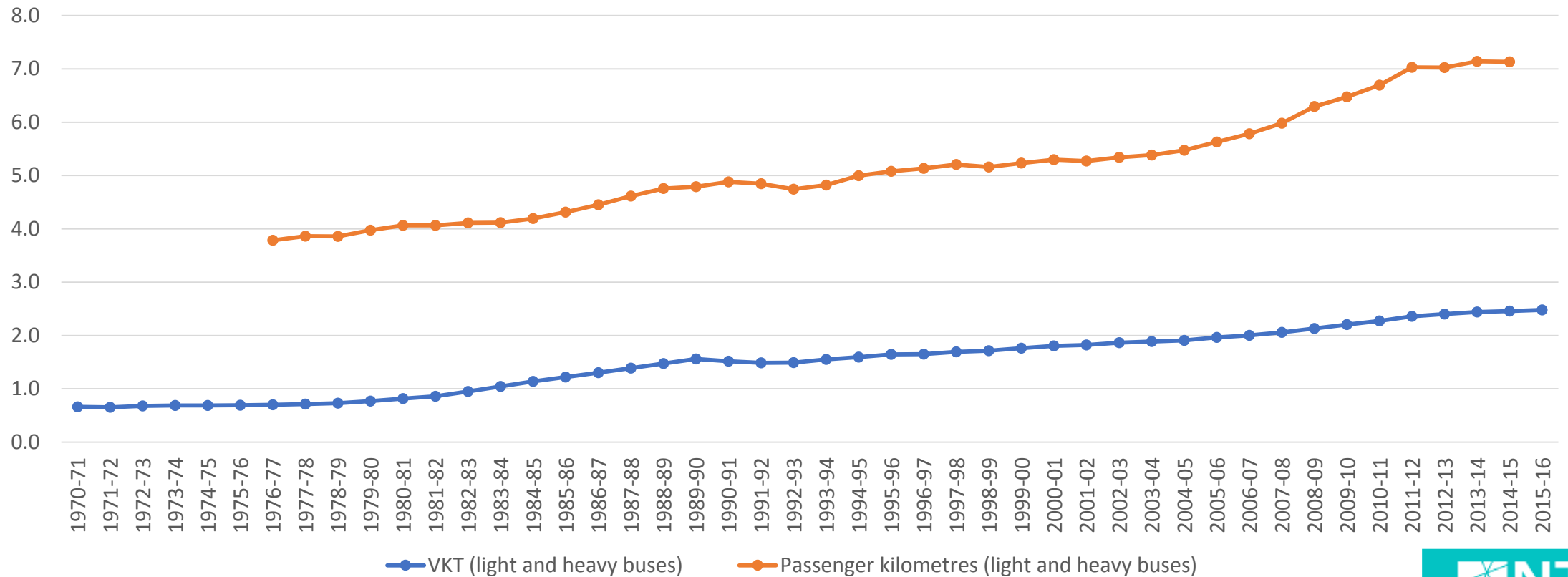
-David Bowie



# Passenger and bus (billion km travelled)

VKT and passenger kilometres by buses (billion)

Source: BITRE





# Lessons for automated vehicles

Common – technically and socially constructed

1. Far-sighted idealists envisaged transformations
2. Transformation was evolutionary not linear and NOT revolutionary
3. Expanded as people immersed in technology
4. Standardisation and lower costs significantly increase uptake
5. Cannot foresee where technology will take us





# Lessons for automated vehicles

## Different – legally constructed

1. Need laws in place to allow use – transfer responsibility from humans to other entity – something has to be responsible for the decisions



# Automated vehicles

## Opportunities

- Potential to improve road safety, personal mobility and PT
- Evolutionary development
- Increasing automated functions from 2020–21
- Tolling and reduced congestion (?)

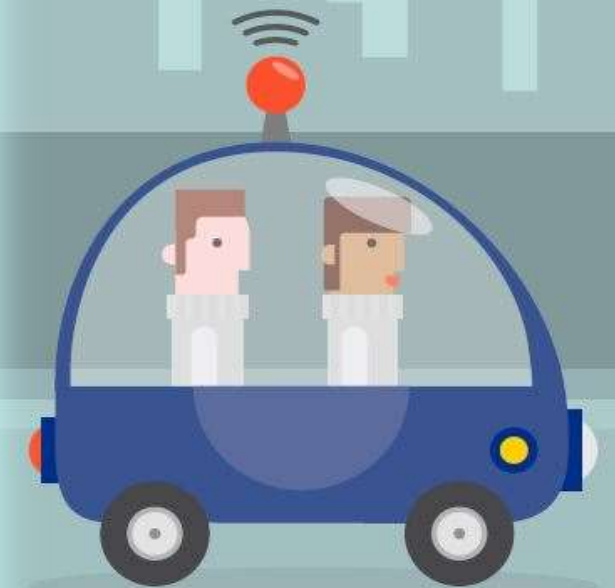




# Automated vehicles

## Challenges

- Current laws don't recognise AV use – human is always legally in control
- New laws to:
  - Ensure an entity responsible when human not driving
  - Decision on who should be in control matched to risk
  - Manage transition between human and non-human
  - Laws and responsibilities can be easily enforced
  - Incentive to continue to improve



# Current regulated parties

OWNER

MANUFACTURER

HUMAN DRIVER

# Future new regulated party

Automated driving  
system entity (ADSE)

# Start your thinking engines

The future belongs  
to those who  
hear it coming

*NSW Treasurer Dominic Perrottet*

*18 June 2018*



**For more  
information**

**[www.ntc.gov.au](http://www.ntc.gov.au)**



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