







Queen Street:

- 7,700 pedestrians in one hour
- 1,200 cars in the same hour
- 4x pedestrians as vehicles all day

The Future of Transport: Autonomous Vehicles?

23 March 2018

Danielle Gatland

Transportation Group Conference 2018



AUTONOMOUS VEHICLES

RESEARCH REPORT

October 2017

Agenda

- Benefits and Barriers
- Timeline
- Preparations
- Integrated Transport Network

Impact of Autonomous Vehicles



Road Safety



Accessibility



Travel Time

Barriers

Level	Sp 	S  ng	C  y	Res  ty
0				
1			Human	
2				
3		Vehicle		
4				

Barriers



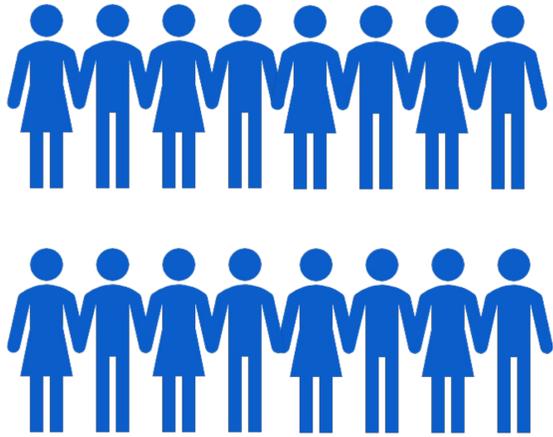
Volvo – Drive Me Vehicle

Mario Roberto Duran Ortiz / Wikimedia Commons / Public Domain

Waymo - Minivan

Daniel Cardenas / Wikimedia Commons / Public Domain

Barriers

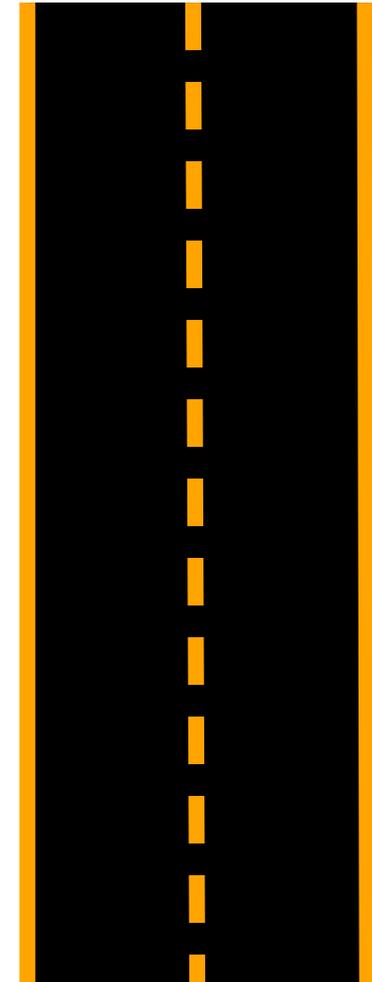


Public Support
and Awareness



Outdated
Regulations

Pressure on
Infrastructure



When?

2018-2040

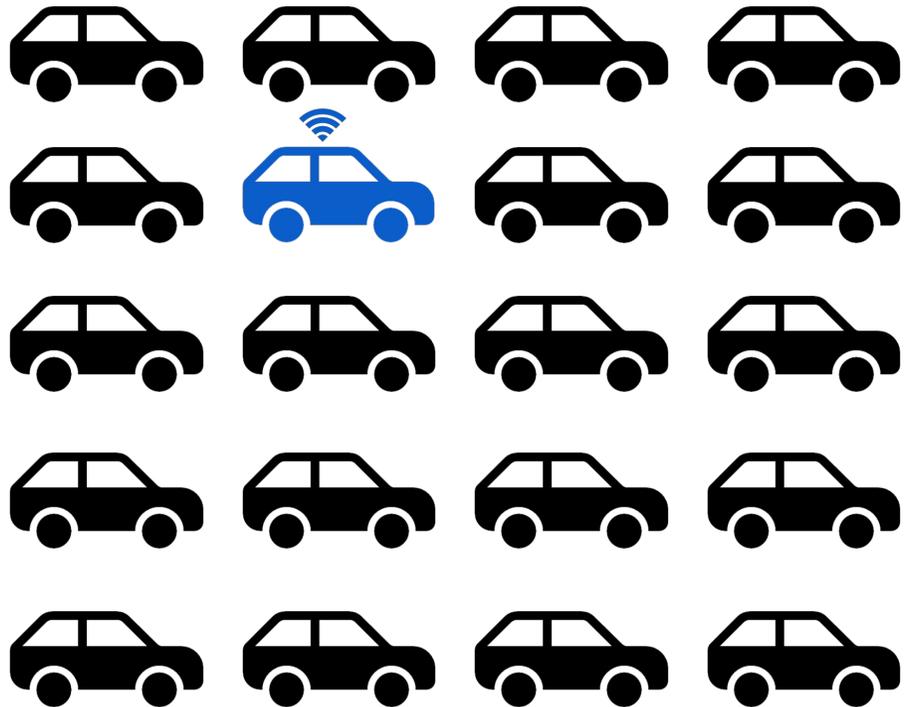
2041-2055

2056-2070

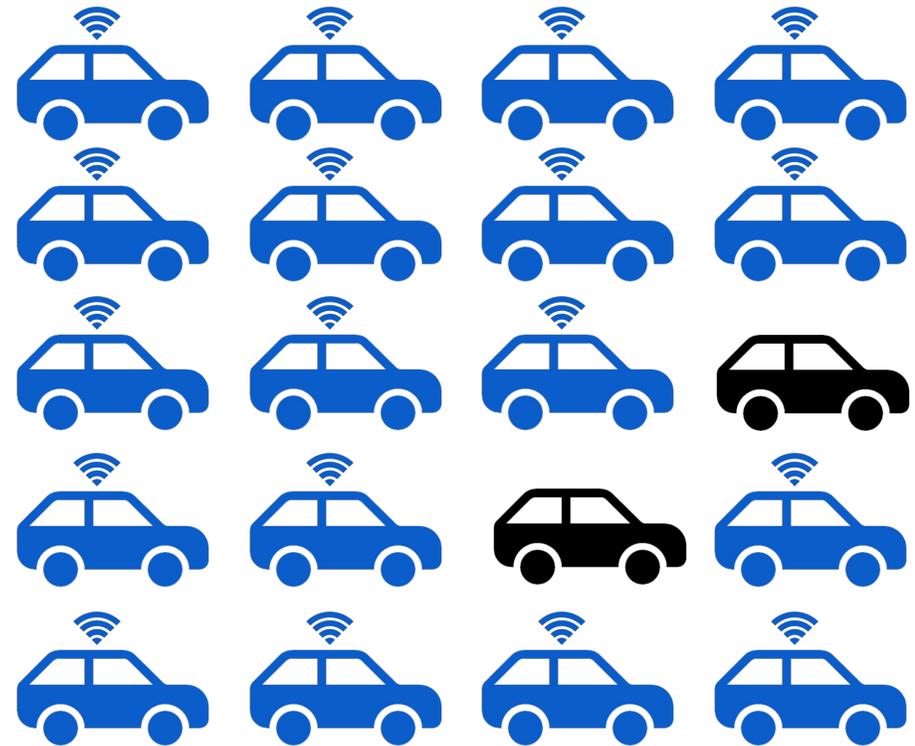
- Fully autonomous vehicles are introduced
- Widespread autonomous car share and public transport
- Autonomous vehicles are affordable
- Car ownership rates decrease
- Most cars are autonomous
- Some parking areas are repurposed

Preparing for the Future of Transport

Testing



Deployment



Preparing for the Future of Transport



Future Transport Network?



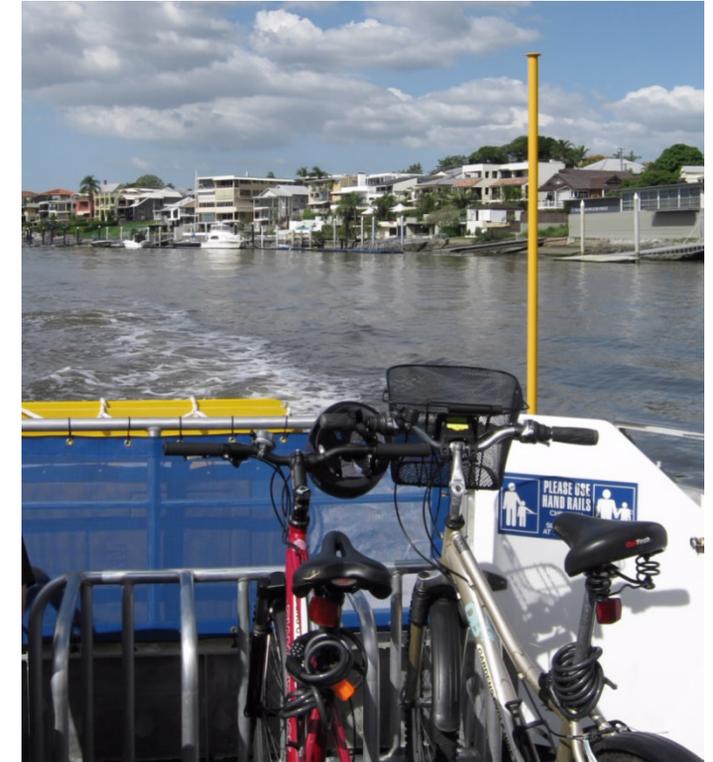
Future Transport Network?

Victoria



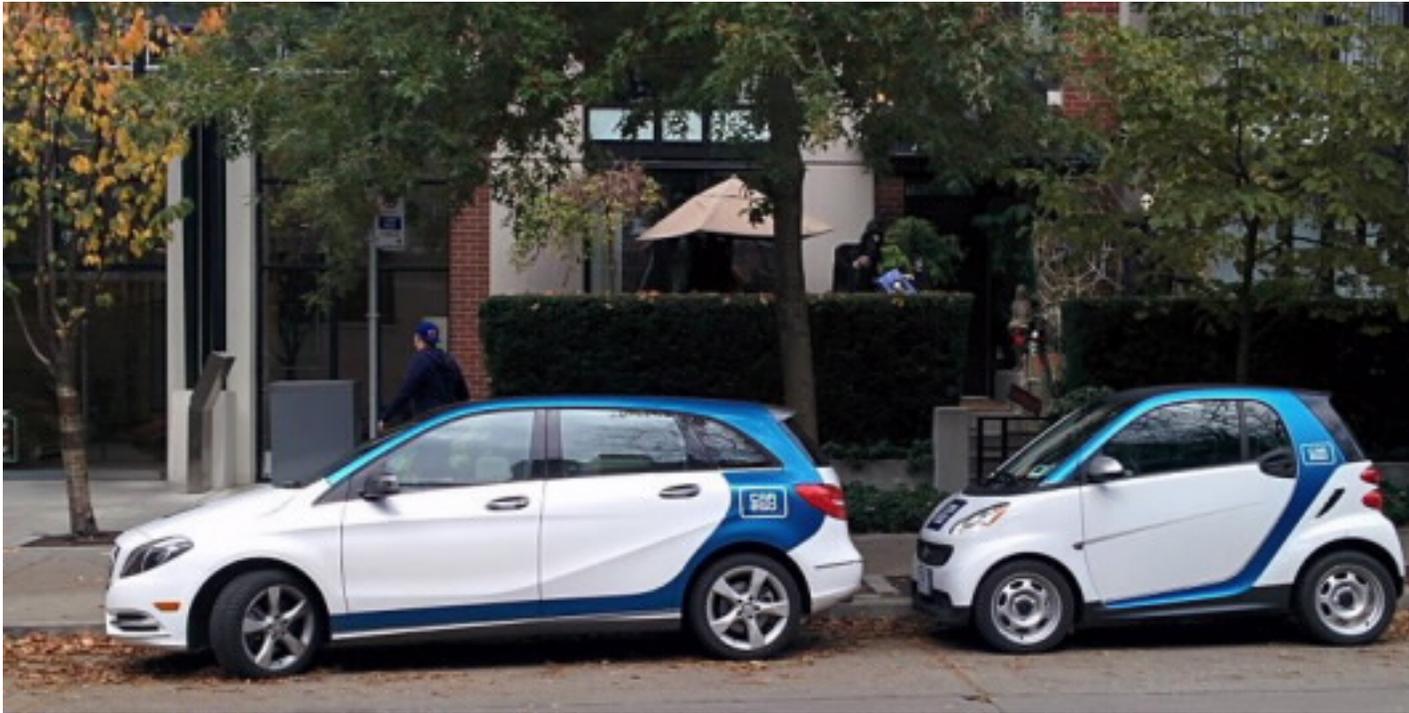
Stuttgart

(<http://trainrail.blogspot.co.nz/>, 17 October 2017)



Brisbane

Future Transport Network?



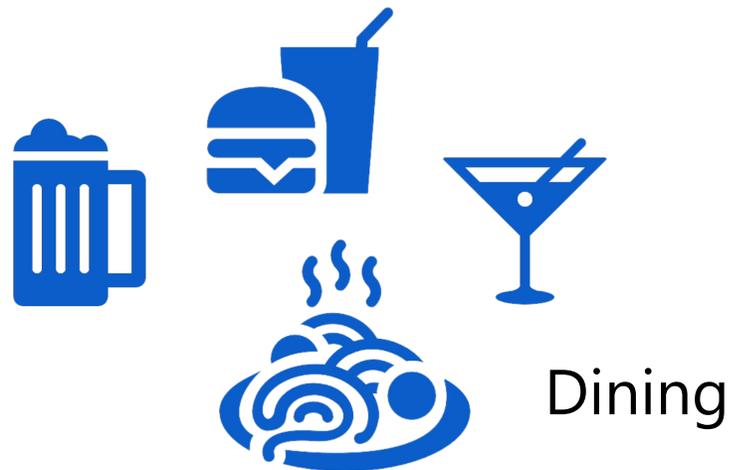
Vancouver Car Share
Wakasui / Wikimedia Commons / Public Domain



Riga, Latvia – Bike Share

Preparing for the Future of Transport

- Why should we design for people?



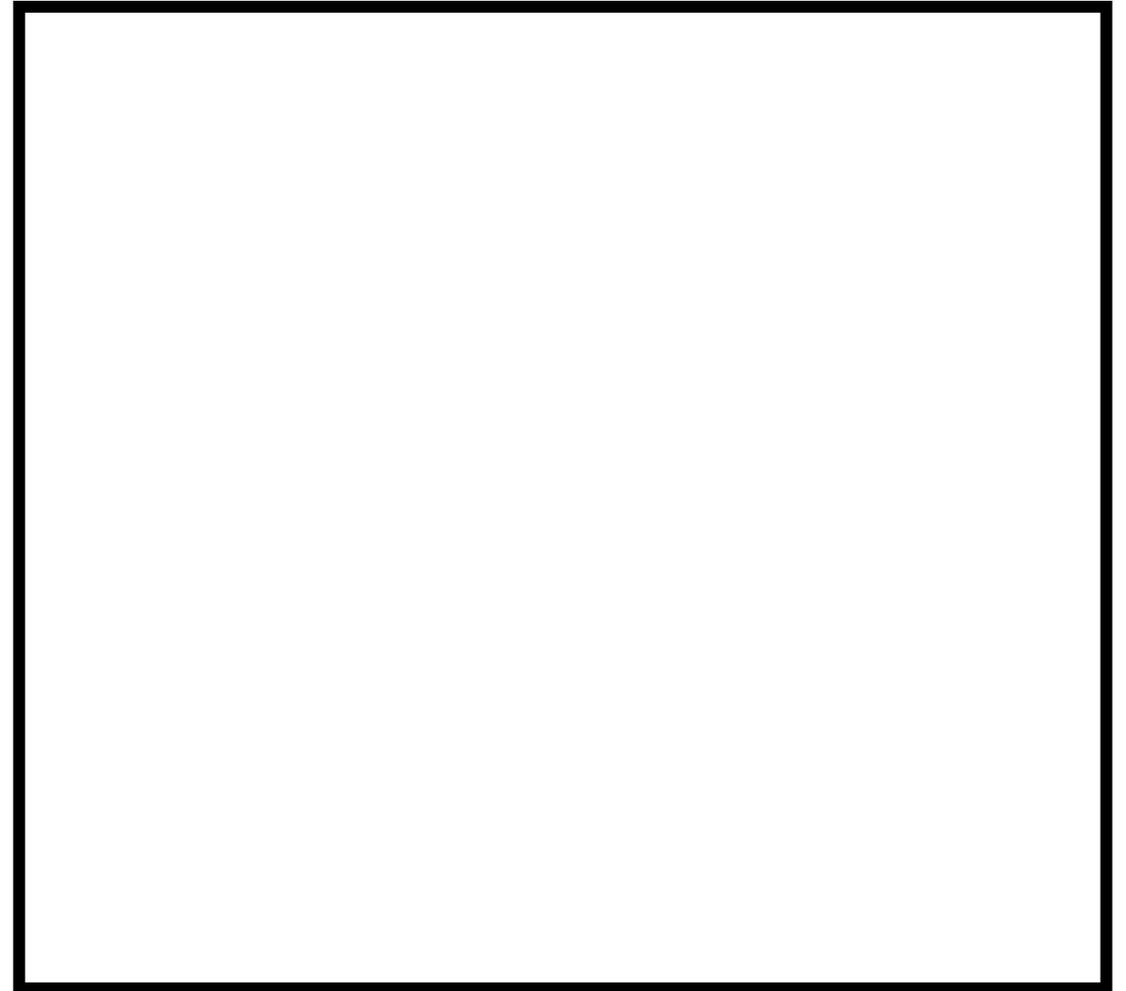
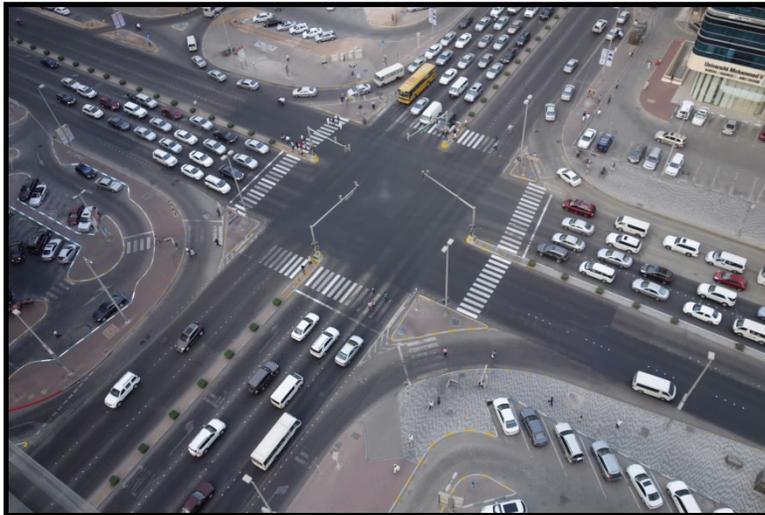
Where do cars fit in?

Urban streets	Roads
Accessibility for People	Movement of Vehicles



Summary

Level				
0				
1		Human		
2				
3	Vehicle			
4				





Chester, Louise Raynor / Public Domain

The City of the Future?

