

# What evidence have existing systems generated to support the case for urban podcars in the future.



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# Agenda



- Heathrow pod update
- Is urban important?
- Urban issues
- Future urban applications



# Heathrow pod update



- Now an established member of Heathrow transport offering
- Has carried 1.2m passengers
- Vehicles have travelled over 2.5m driverless kilometres
- 26066 hours of operation since opening.
- Saves over half a million tonnes of CO2 and removed over 200,000 bus journeys

Is Urban Important?

## Is urban important?

- 50% + world population live in urban areas
- The challenges associated with managing urban areas have increased in scope and complexity.
- Managing urban areas one of the most important challenges of the twenty first century.



Figures from UN 2014

## Why will podcars be important?

- Smarter cities need more adaptable & flexible solutions.
- Podcar technology designed principally for urban environments.
- Podcar/ATN technology is no longer a concept but a reality



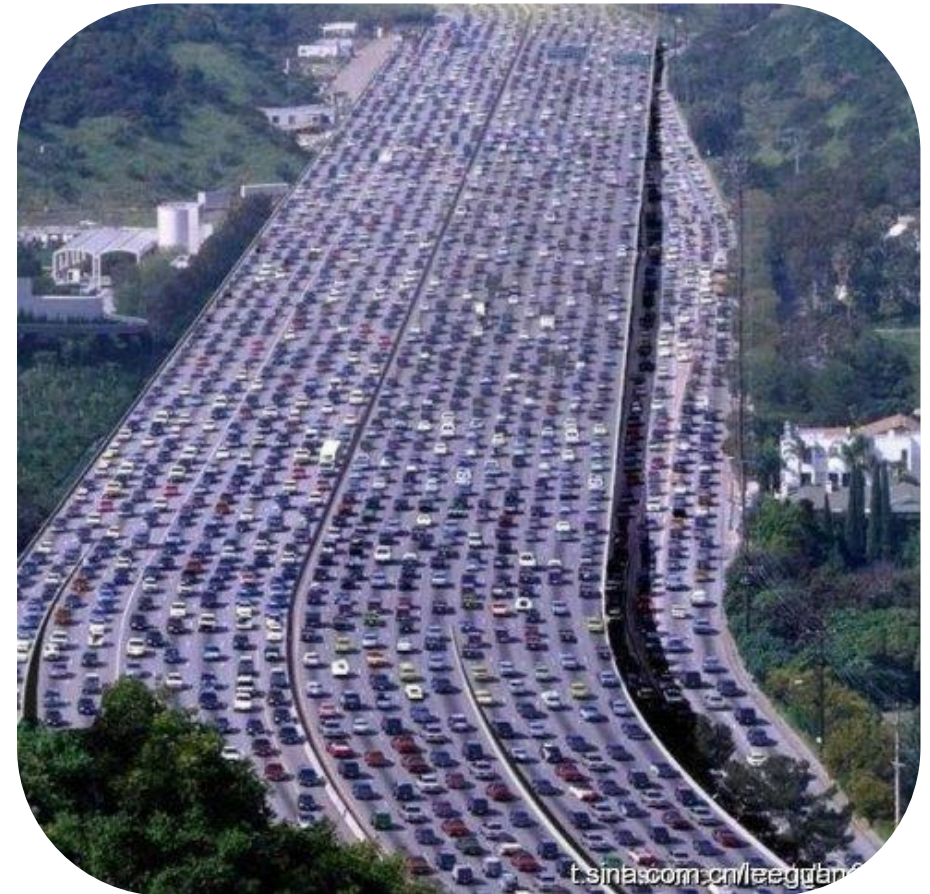
# Urban Issues?



## Problem: Congestion

### Podcar Solution:

- Podcars remove vehicles from the existing transport network.
- Removing vehicles improves other forms of public transport that are reliant on the road network.
- Efficient last mile connectivity via podcar improves propensity to use public transport





# Problem: Environmental Concerns



## Podcar Solution:

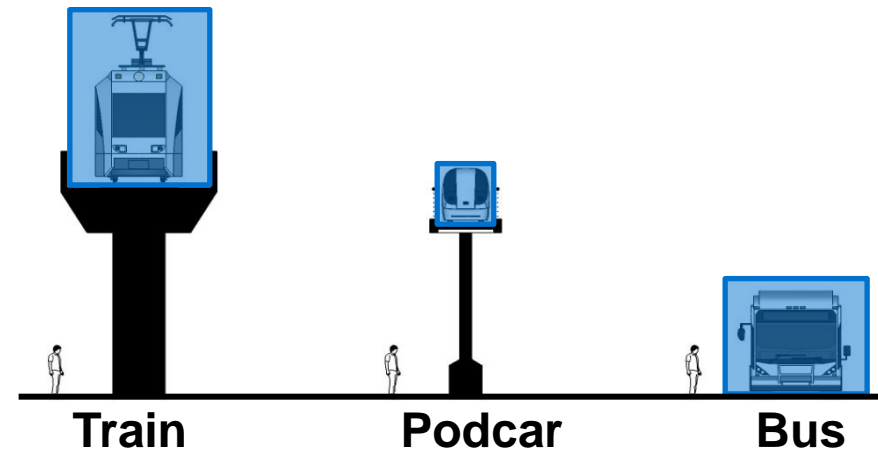
- Existing and future systems use small lightweight electric vehicles
- The very idea of personal rapid transit is economically friendly
- Low external noise



# Problem: Space Restrictions

## Podcar Solution:

- Podcars offer flexibility and adaptability
- Lightweight infrastructure, not obtrusive and can conform with public space
- Disruption minimised in the construction of podcar systems.



# Problem: Passenger Service Issues



## Podcar Solution:

- On-demand, direct, personal
- Predictable and reliable
- Comfortable and secure
- Public transport that people enjoy.





# Twitter Feedback

Retweeted by Ultra Global PRT  
**Andrew Woolliscroft** @WallaceWoolly · Aug 14  
Travelling is worth it for the Heathrow Pods alone!


Retweeted by Ultra Global PRT  
**ICanCallYouBetty** @WHU\_AI · Aug 14  
So I'm in a small pod going from parking to T5 at Heathrow. I think I'm in total recall

Retweeted by Ultra Global PRT  
**JJ Jackson** @jjperartistes · Aug 13  
On the Heathrow pod. 5 mins to terminal...very cool


Retweeted by Ultra Global PRT  
**Isabel Rogers** @Isabelwriter · Mar 26  
I have a ridiculous Monday coming up. The only thing offsetting the dread is that I get to ride in the Terminal 5 magic pods at Heathrow.

Retweeted by Ultra Global PRT  
**Paul Stack** @stack72 · Mar 27  
Heathrow T5 business parking is amazing. The automated pods to take you to the terminal make life easier and faster

Retweeted by Ultra Global PRT  
**Sean Bryan** @seanjbryan · Jan 11  
So I've been in black cabs, the tube and on red double deckers, but none beat the Heathrow Pod! The future of travel!



Retweeted by Ultra Global PRT  
**Rick Toomer** @ricktoomer · Feb 5  
Traffic almost made me miss my flight, but at least I got a go in a Heathrow pod!



# Future Urban Applications?

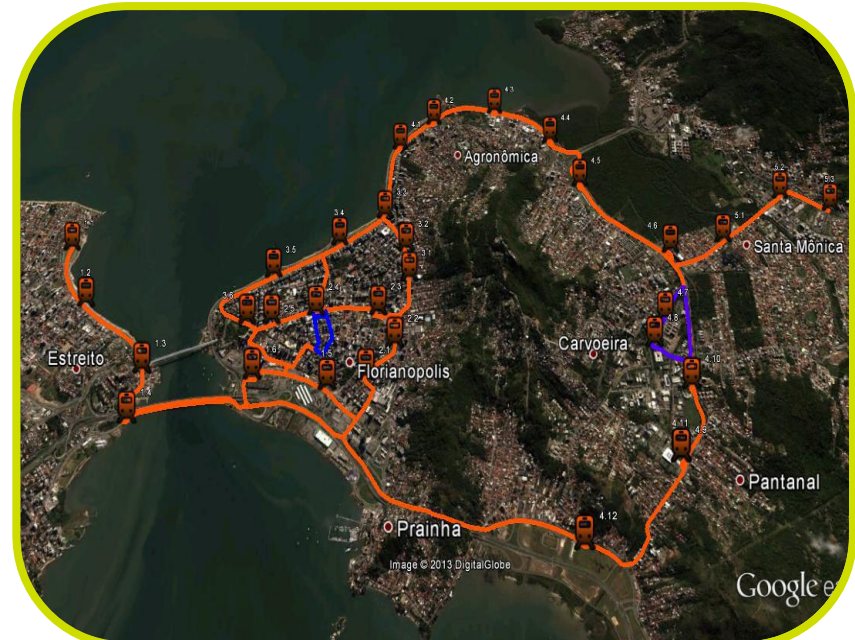
## PRT in Florianopolis, Brazil

Contacted by Brazilian company Brasell last year

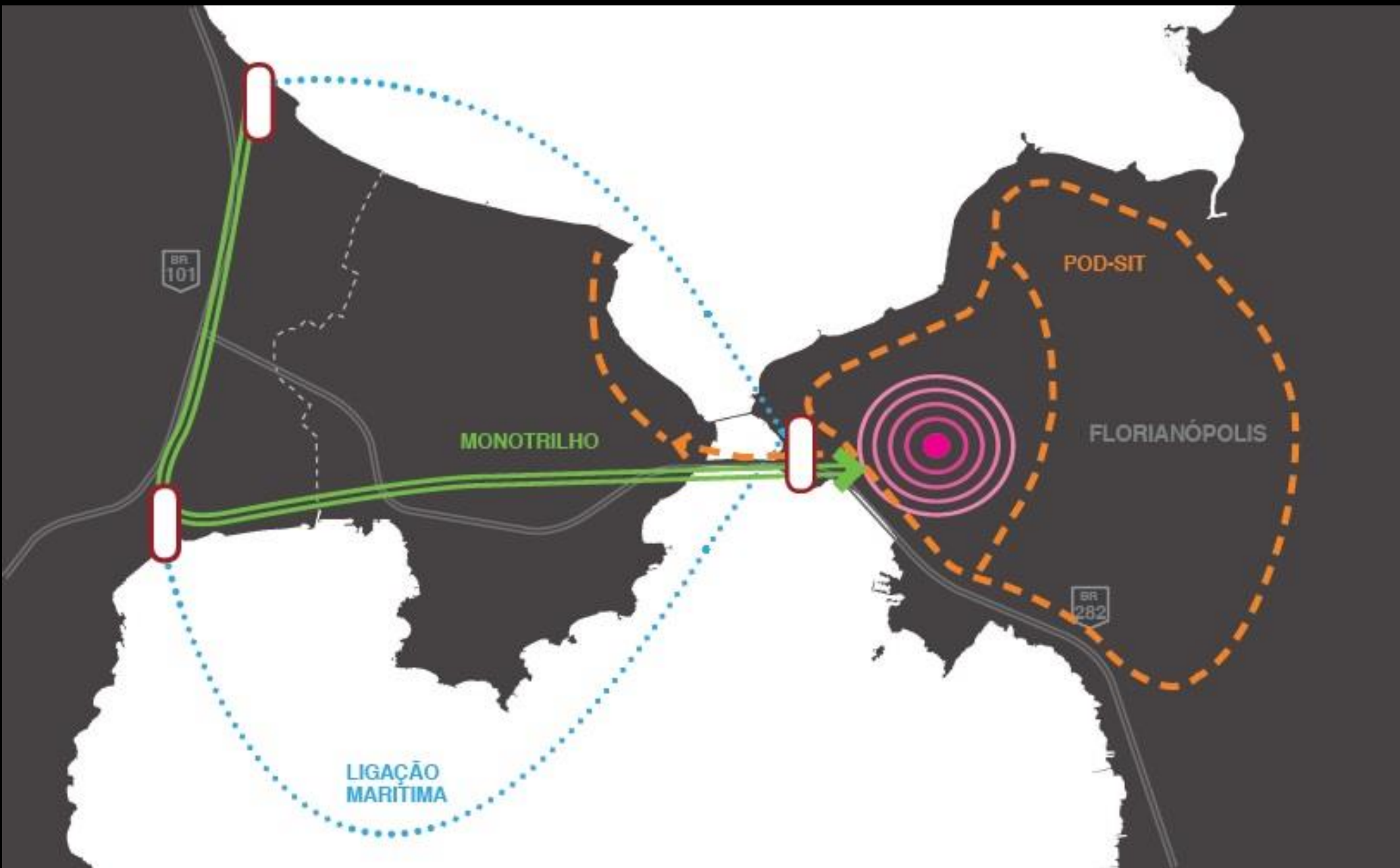
-Looking for innovative urban transport solutions

-Identified Ultra through their research from website

Will improve the mobility of the population and reduce travel time between the Mainland and the Island.













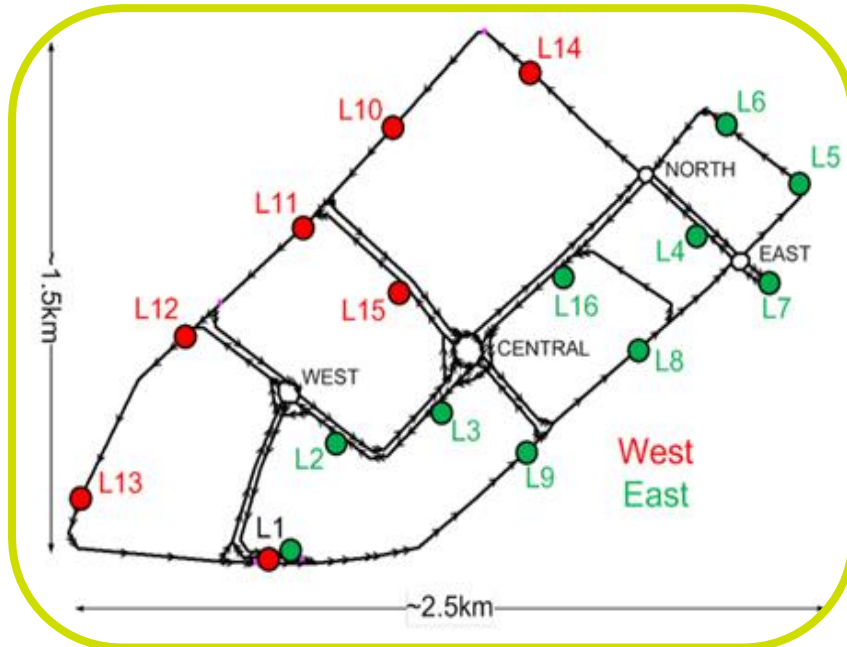


## PRT in Linkou, Taiwan

To demonstrate to the government and the engineering community:

- That PRT is technically feasible as a public transit system
- That PRT is financially advantageous over other public transit systems

Project explored a potential system for the Linkou region of New Taipei City





## Conclusions

- There is a clear opportunity for podcars to make a difference in an urban setting.
- Existing podcar systems and technology demonstrate capabilities that can be replicated in an urban settings.
- Local authorities and transit authorities are now exploring Podcars as a realistic solution to urban problems.



# INNOVATION IS

# GREAT

# BRITAIN

Heathrow pod  
Ultra Global PRT



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