UKAutodrive

The Milton Keynes: Experience of deploying Self Driving Vehicles on its streets

15th October 2078

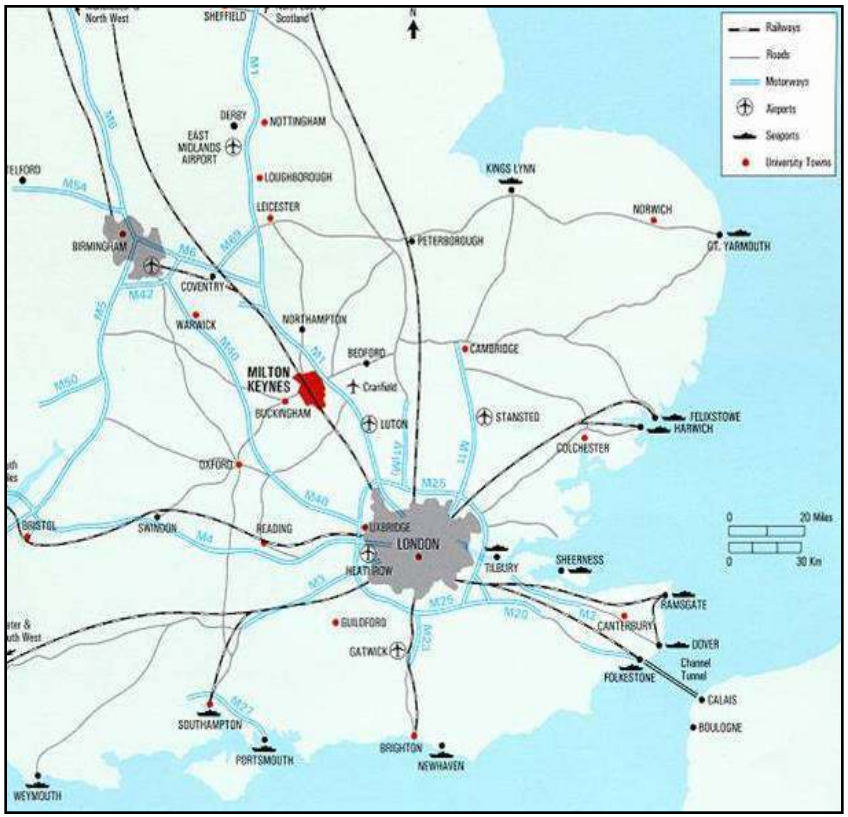
Brian Matthews
Head of Transport Innovation
Milton Keynes Council

milton keynes council

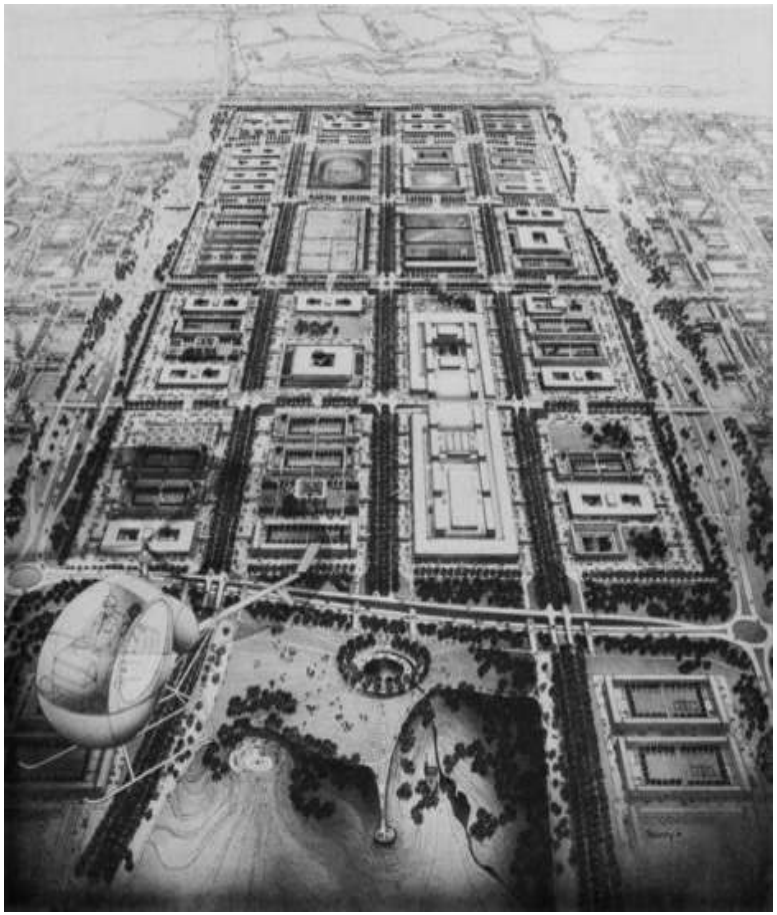
MILTON KEYNES COUNCIL

Milton Keynes - Location

- New Town started in 1967
- Midway between London & Birmingham.
- Centre of Oxford - MK – Cambridge Arc.
- National Infrastructure Commission – primary focus for growth



Central Milton Keynes - Plan to Reality



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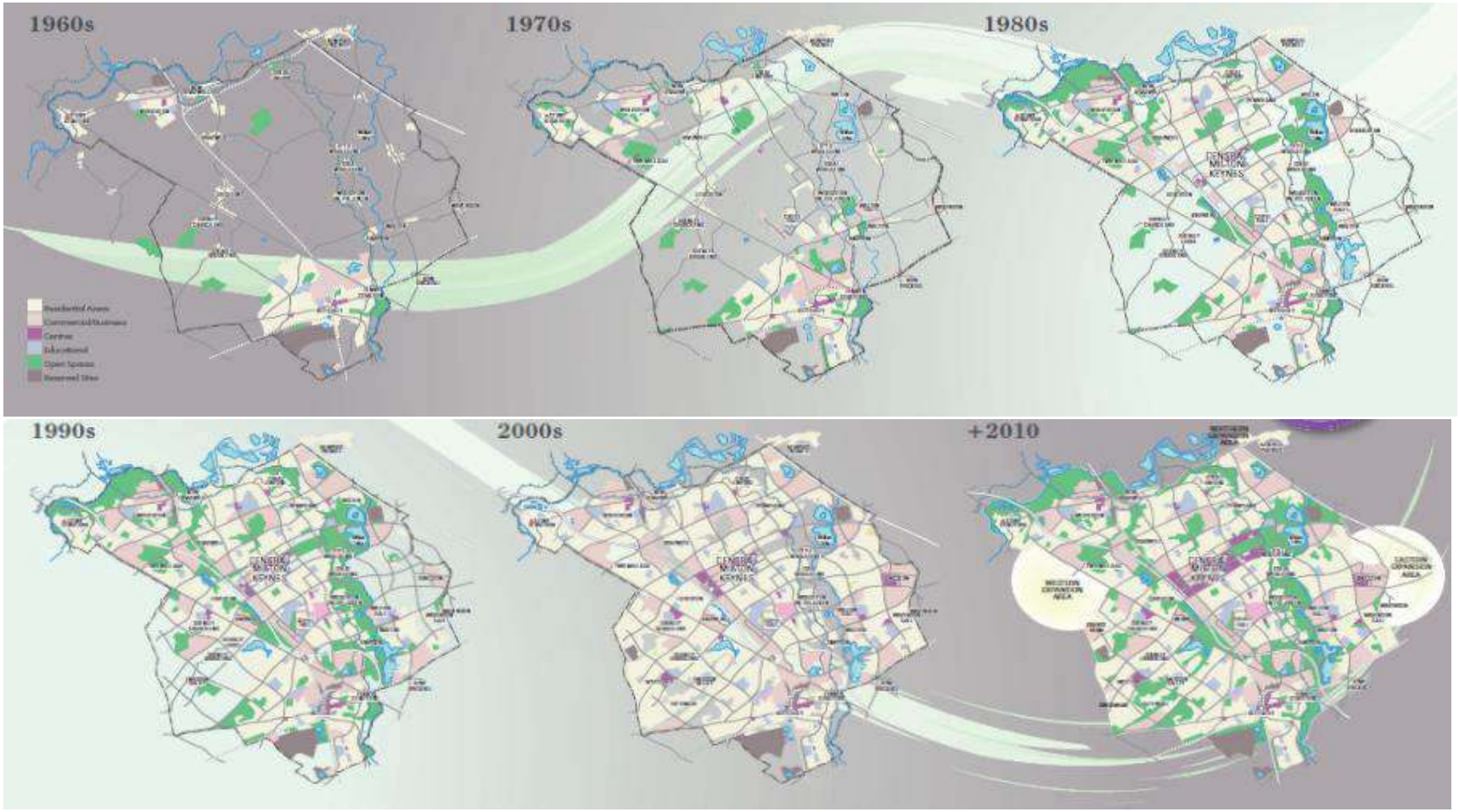
50 years of Growth



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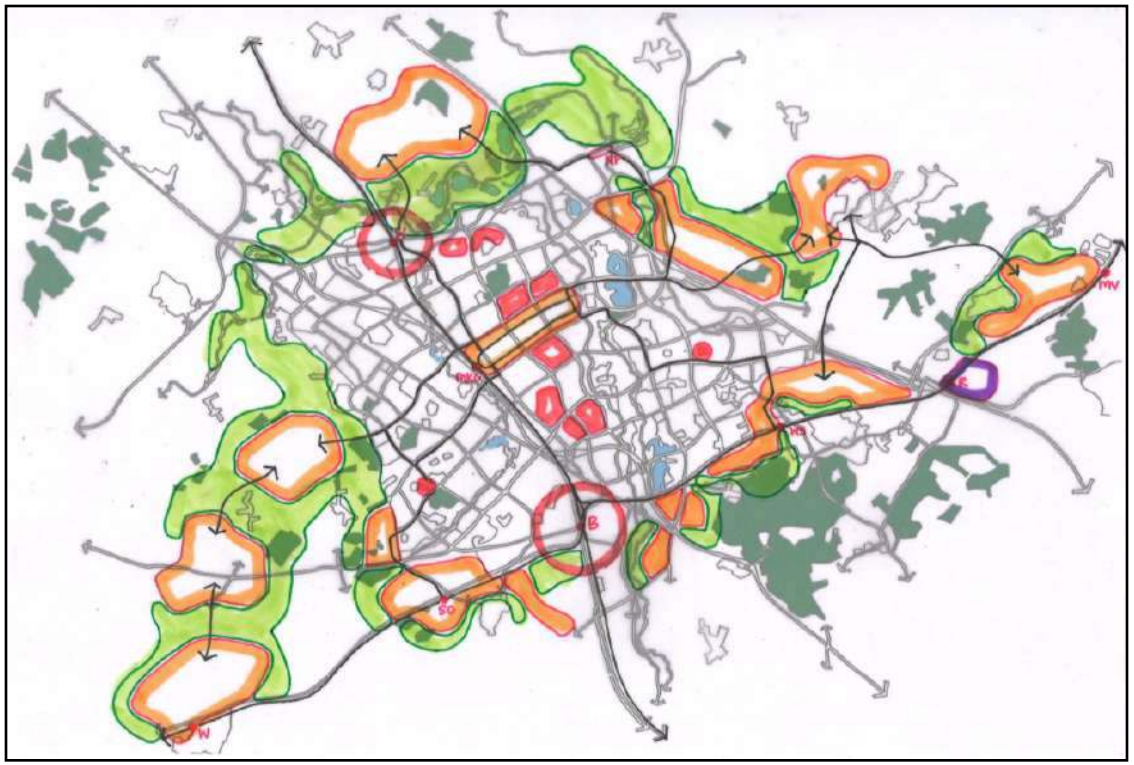
MK Future City: Programme

- Address barriers to sustainable housing and jobs growth
- Improve the lives of citizens
- Build leadership in urban innovation



Estimated population growth:

2017	**=**	**270,000**
2050	**=**	**500,000+**

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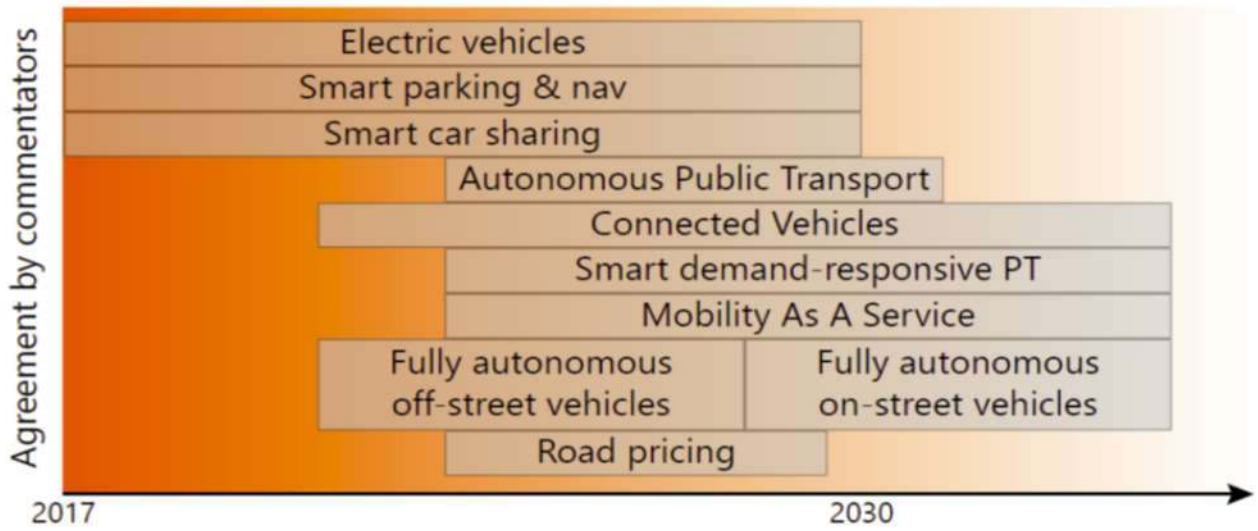
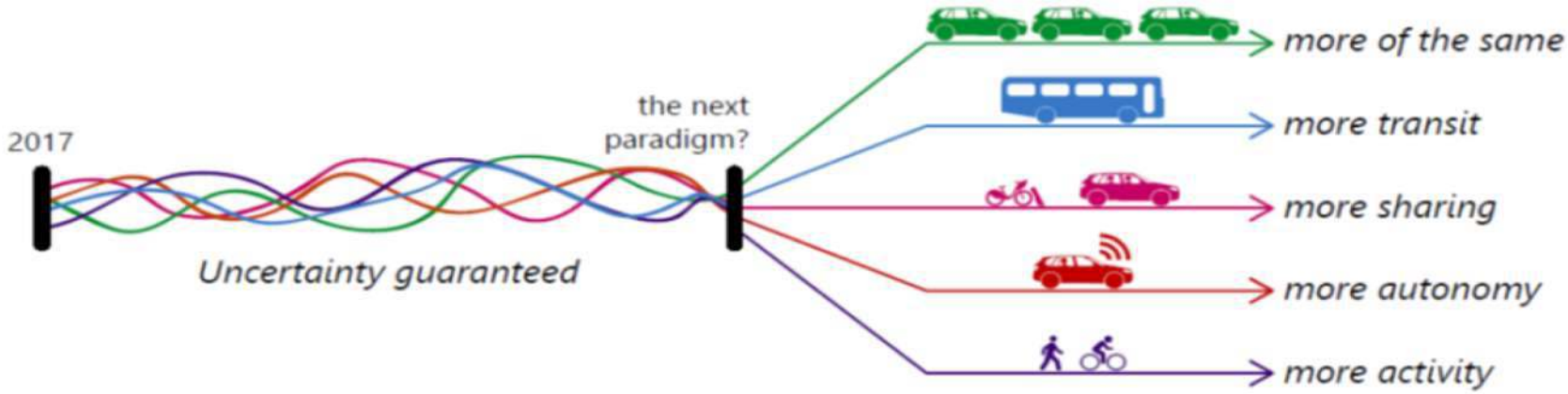
Smart Sustainable Shared Mobility





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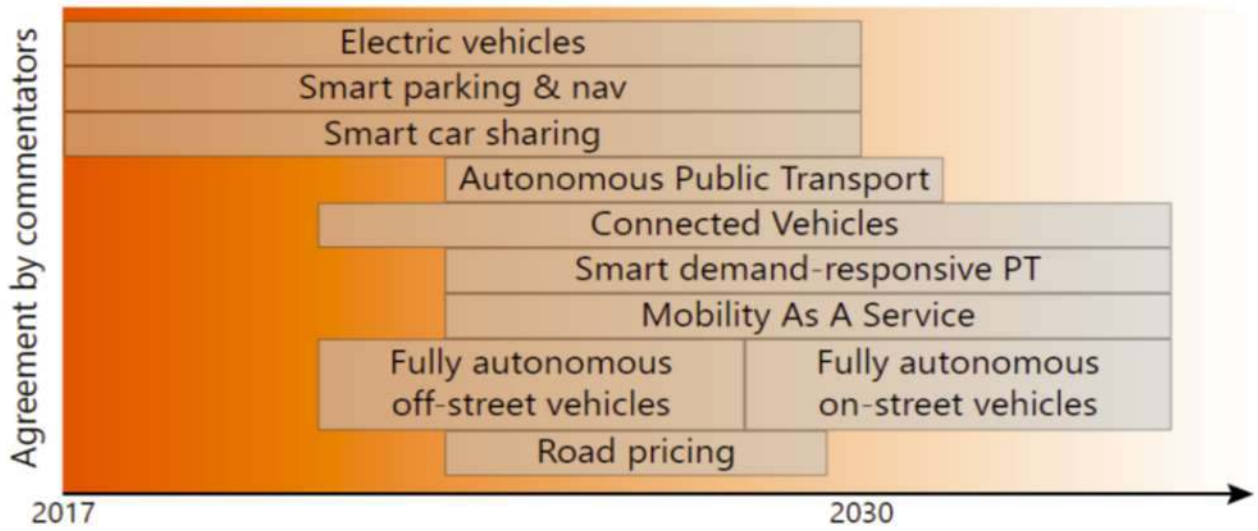
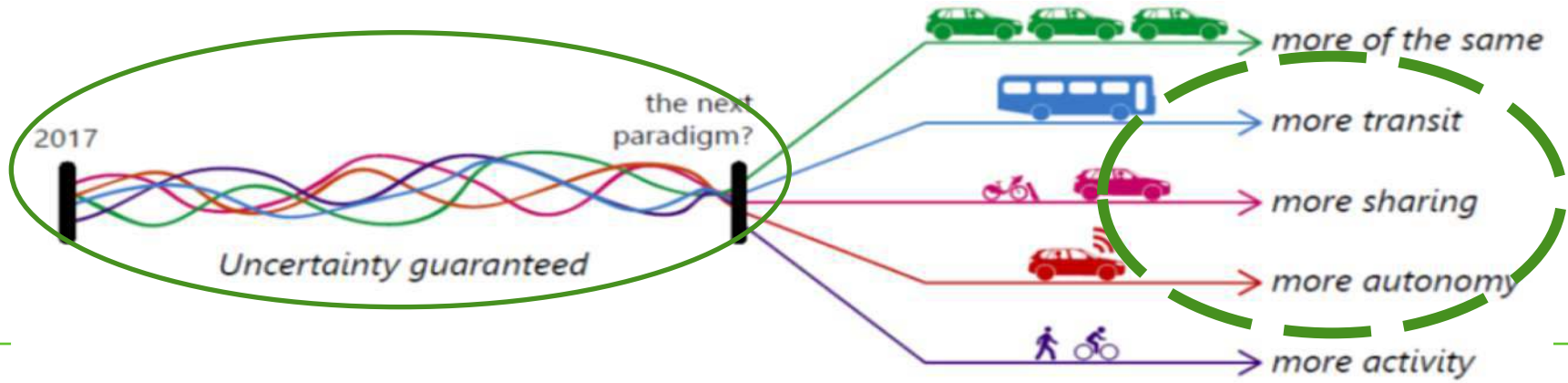
Smart Sustainable Shared Mobility





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Milton Keynes leading the way in partnership with Coventry and the motor industry

ARUP

AXA

CATAPULT Transport Systems

Coventry City Council

Ford

LAND ROVER | JAGUAR

MILTON KEYNES COUNCIL

MIRA

OXBOTICA robotics & autonomous systems

RDM GROUP

TATA MOTORS EUROPEAN TECHNICAL CENTRE

THALES

The Open University

UNIVERSITY OF CAMBRIDGE

UNIVERSITY OF OXFORD

Wragge Lawrence Graham &Co

ARUP

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M1 CAR DEVELOPMENT PROJECT

CITIES PROGRAMME

L-SATS DEVELOPMENT PROJECT

DRIVERLESS TRANSPORT STRATEGIES ROUND TABLE

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M1 CAR DEVELOPMENT PROJECT

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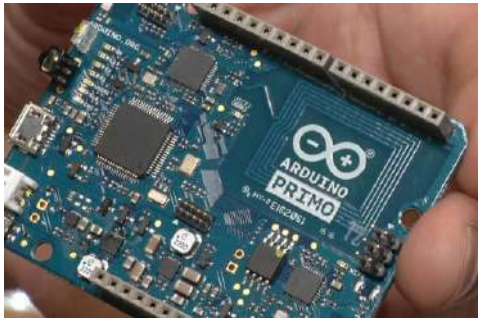
L-SATS DEVELOPMENT PROJECT



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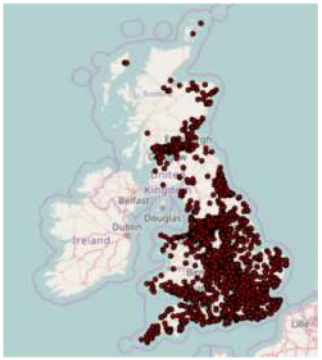
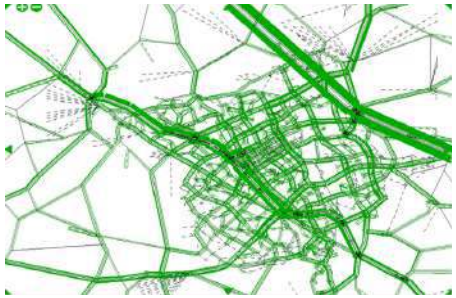


Public Attitudes Survey

MK COUNCIL

CITIES PROGRAMME



Congestion Simulations

Business Case Evaluation

‘Last-Mile’ Service Demonstration

Technology Scalability

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Why?

The World Health Organisation predicts that 70% of people will live in urban environments by 2050.

- Urban transportation challenges require innovative solutions
- Driverless cars could have a significant role, providing safe, efficient and low carbon mobility to the public

- **Safety**
- **Productivity**
- **Capacity**
- **Social inclusion**

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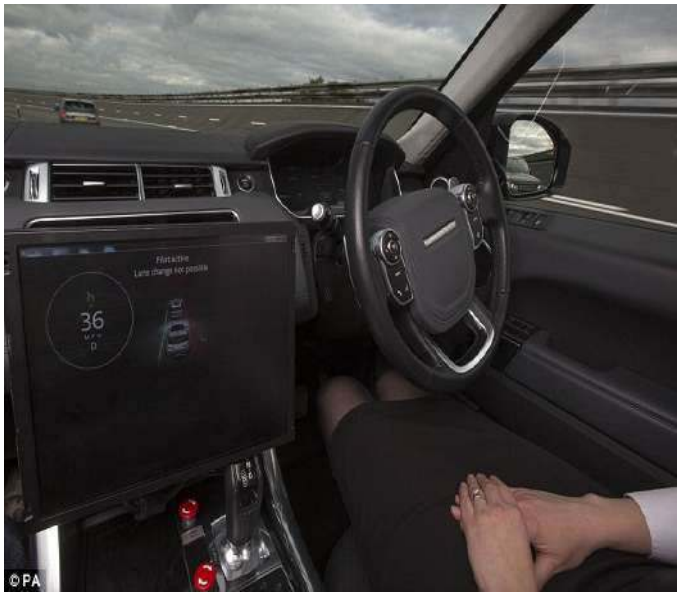
Connected and Driverless Cars

M1 Saloon Cars

Deploy a range of vehicles on live public highway in MK and Coventry



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Public Road Demonstrations

Features designed to address city challenges

Low-Speed Autonomous Transport System (L-SATS)

L-SATS

Lead Partners

- RDM
- Cambridge University
- MKC

Primary Aim

To deliver a low speed autonomous public transport system in Milton Keynes

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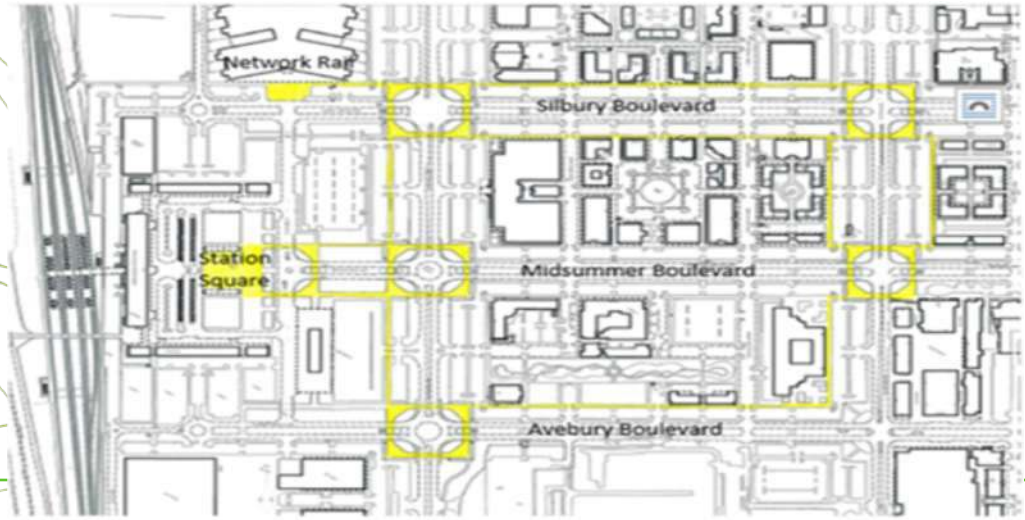
Passenger Transport Service

POD as a Last Mile Passenger Transport Service



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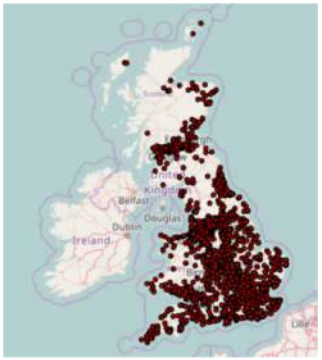

Public Attitudes Survey

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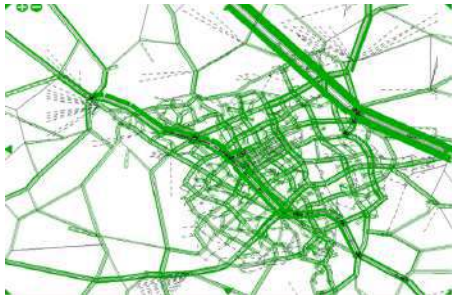
CITIES PROGRAMME



Congestion Simulations

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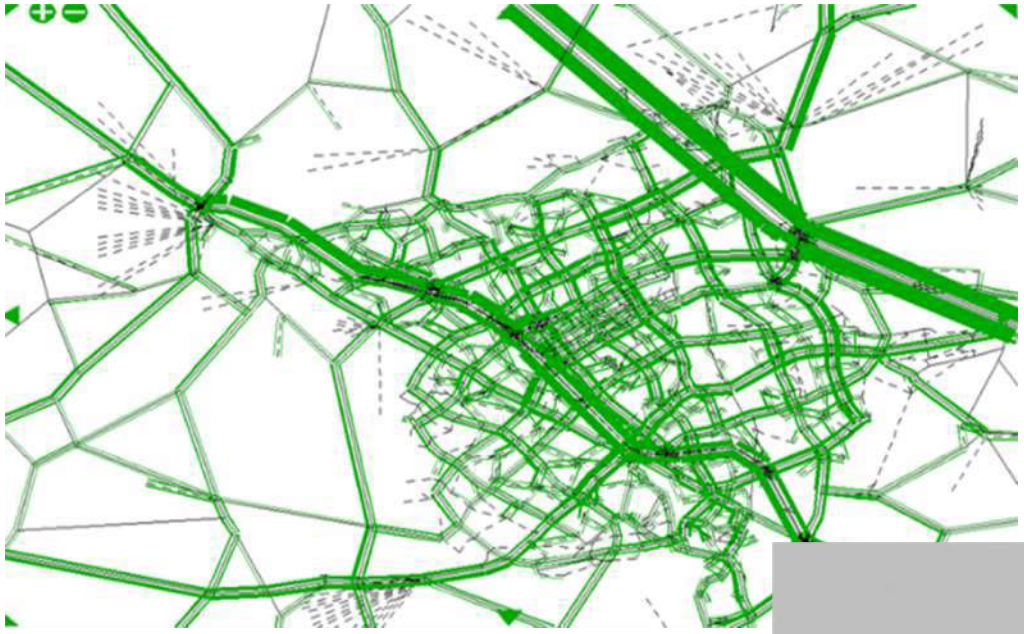
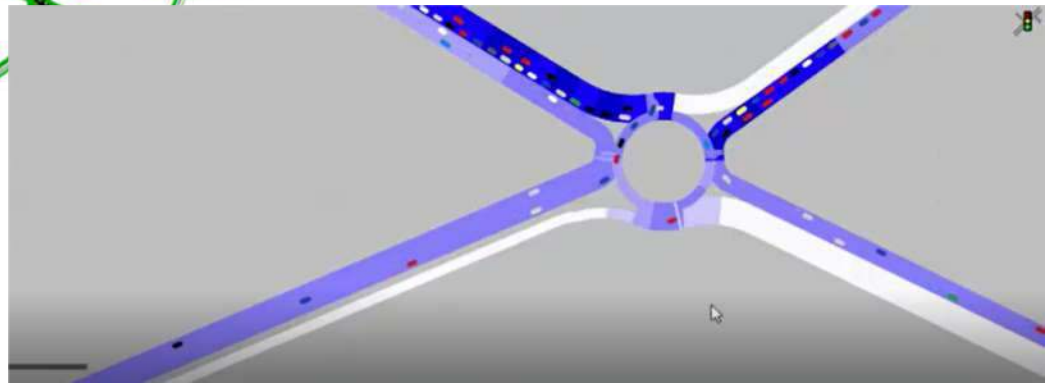
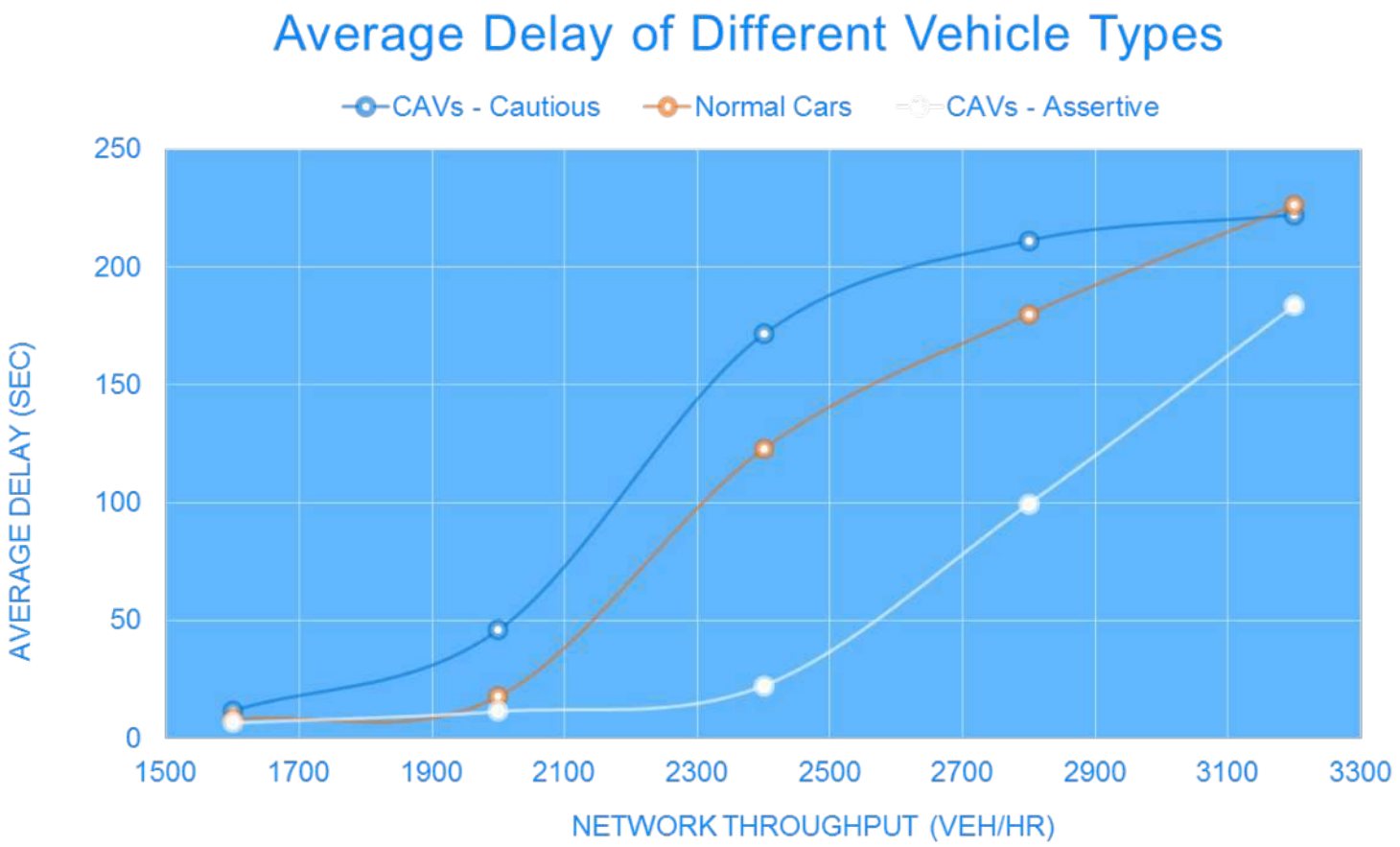
Improved highway capacity





Results (Average Delay reduced)



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Technology Scalability Study (Oxford University)

- Exam question , can you fit full sensor pack into vehicle for less than £10K

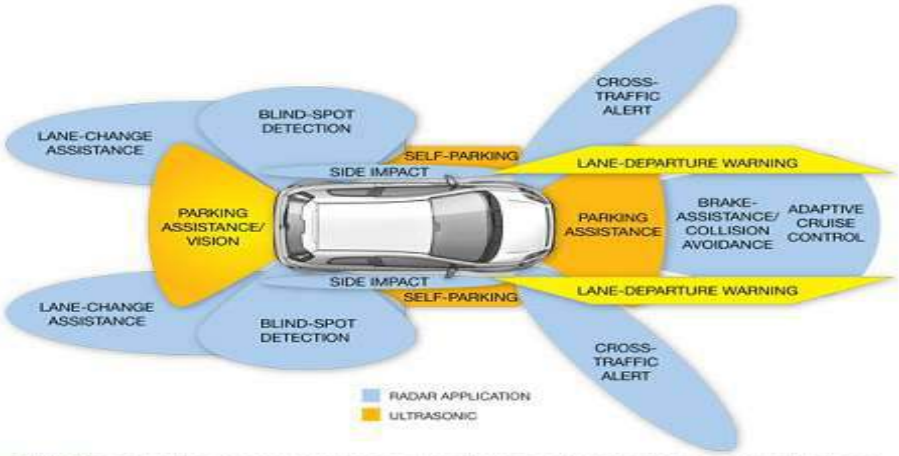
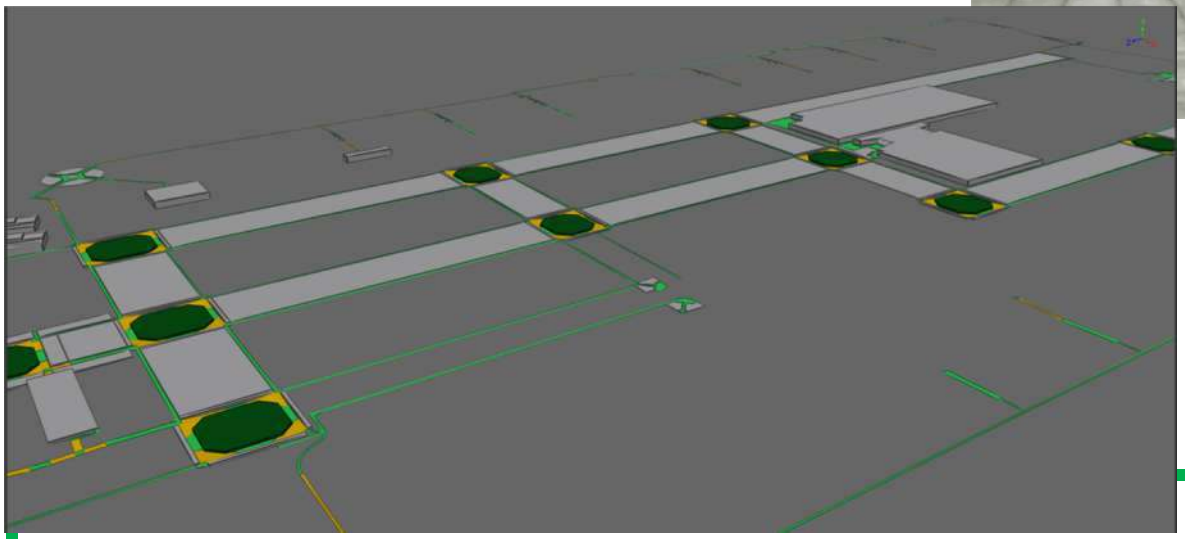
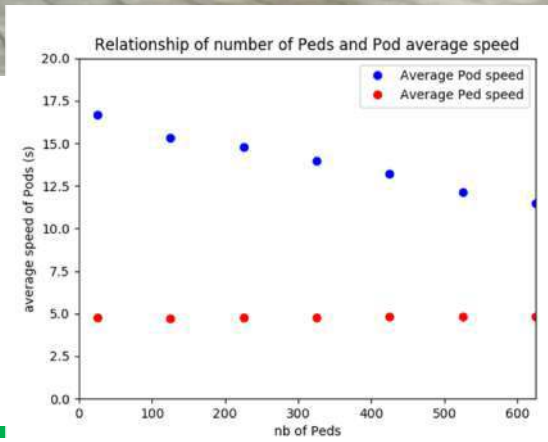


Figure 2 Several driver-assistance systems are currently using radar technology to provide blind-spot detection, parking assistance, collision avoidance, and other driver aids (courtesy Analog Devices).





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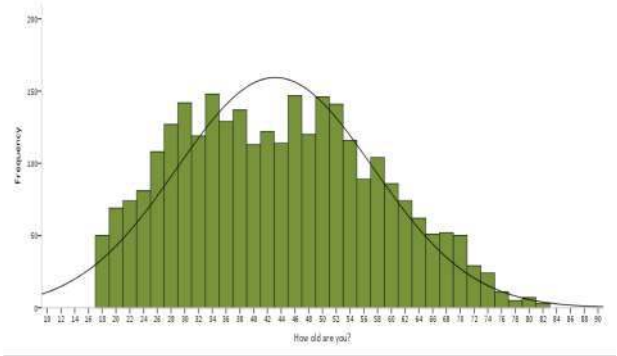
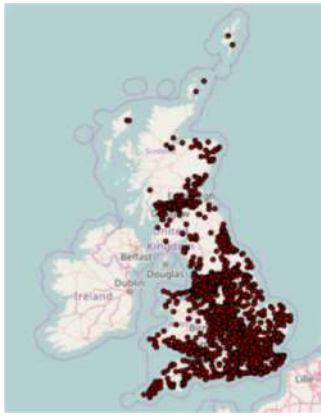
Public Attitudes Survey

October- 2016 & 2018

- 49 questions
- **Over 3,000 responses**
- **2850** valid responses





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Thank You

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