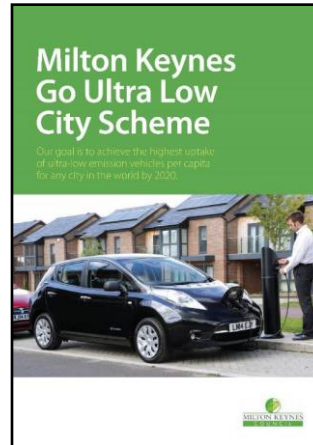


# Driverless Cars ....and a few other things

The Milton Keynes low carbon  
Transport Strategy

Brian Matthews  
Head of Transport Innovation

Milton Keynes Council



# 50 years of Growth

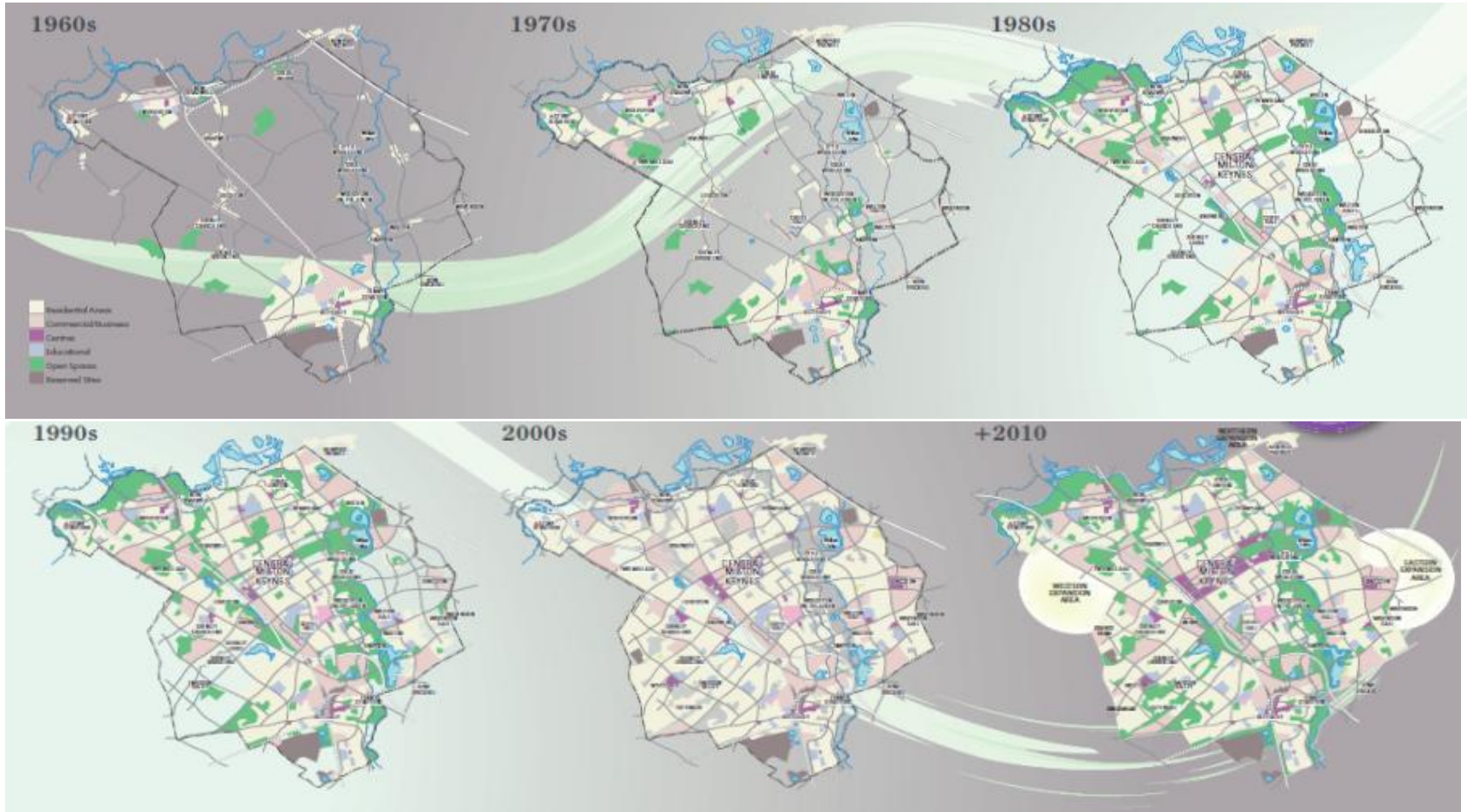
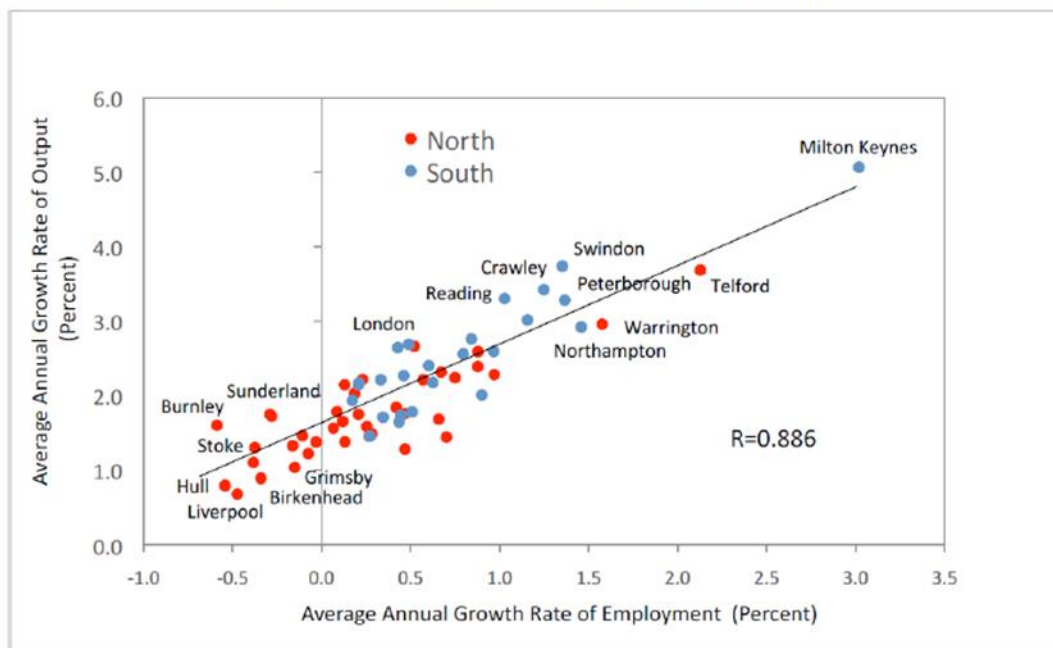




Figure 2.3: Relationship between output growth and employment growth across British cities, classified into north and south:  
(Average Annual Growth Rates for 1981-2011)



	City	Change 04-13	% change 04-13
1	Milton Keynes	24,400	18.2%
2	London	769,500	17.1%
3	Cambridge	12,400	15.7%
4	Brighton	15,100	11.1%
5	Bournemouth	15,500	10.0%
6	Portsmouth	18,800	9.2%
7	Coventry	11,800	8.4%
8	Newcastle	29,300	8.0%
9	Aberdeen	13,300	7.9%
10	Nottingham	21,400	7.7%

Growth in Jobs 2004-13  
Cities Outlook 2015  
Centre for Cities

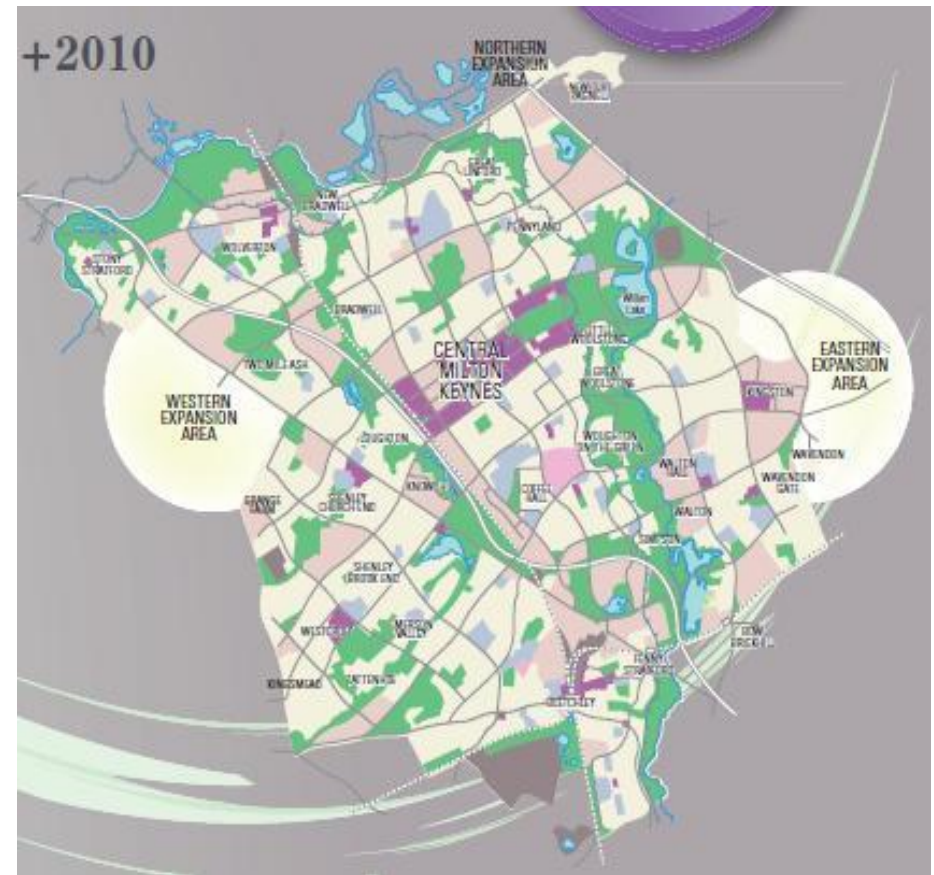
# Milton Keynes Growth 2010-2026 – infrastructure challenges

- 28,000 new homes
- 1.5 jobs per home
- Population grows to 300,000+

Travel demand increase of 60%

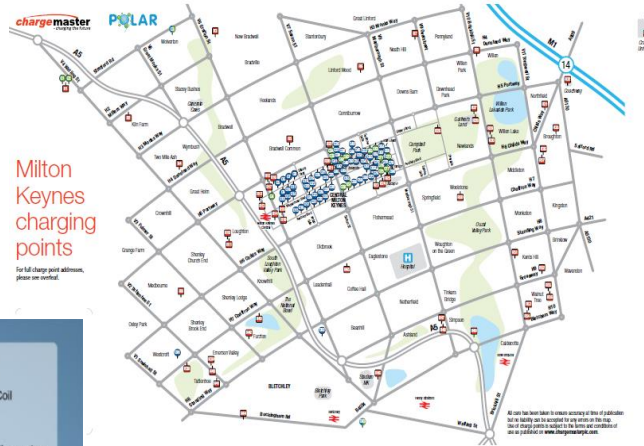
but

practical capacity improvements  
address only 25% increase



**Reduce carbon emissions per person by 40% (2010 – 2020)**

# Comprehensive Electric Charging Infrastructure



Milton Keynes charging points  
For full charge point address, please see website



Central MK:  
170 charging posts

Access a list within the app  
and [www.chargepoint.com/mk](http://www.chargepoint.com/mk)  
Customer Centres  
01908 566 666 (Mon - Fri, 9am - 5pm)  
Our 24 Hours Customer  
Support Centres  
0300 456 555  
© 2018 ChargePoint  
www.chargepoint.com  
ChargePoint UK, Battery Ready  
Vehicle Hub, UK's leading EV  
charge network  
0203 227 767  
[www.chargepoint.com](http://www.chargepoint.com)



Electric bus service: induction charging



City-wide network of  
50 rapid chargers

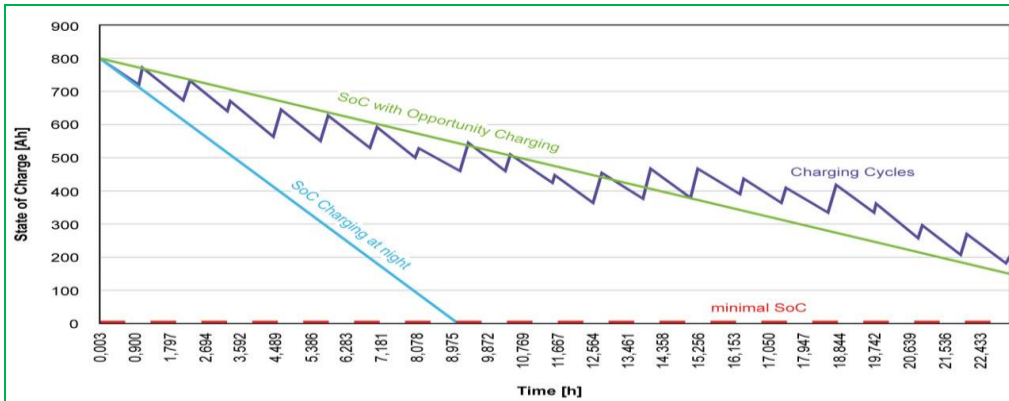
# Route 7: Electric Bus Service

Principal route through city centre,  
operating from 6:00am – 11:00pm

High annual mileage (c. 56,000 miles per bus)

Service frequency of 15 minutes

Tailpipe emissions reduced by 500 tonnes CO<sub>2</sub>  
p.a.



## UK Auto Drive - Project Structure

- Driverless Cars (M1)
- L-SATS (Low Speed Autonomous Transport System)
- Cities Programme



# The consortium

ARUP



CATAPULT  
Transport Systems



OXBOTICA  
robotics & autonomous systems

RDM  
GROUP



THALES

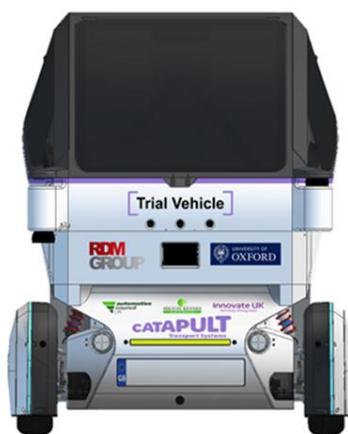
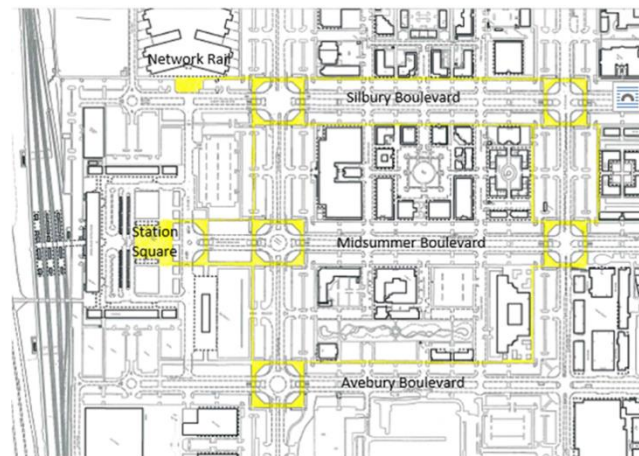


The project is co-funded by

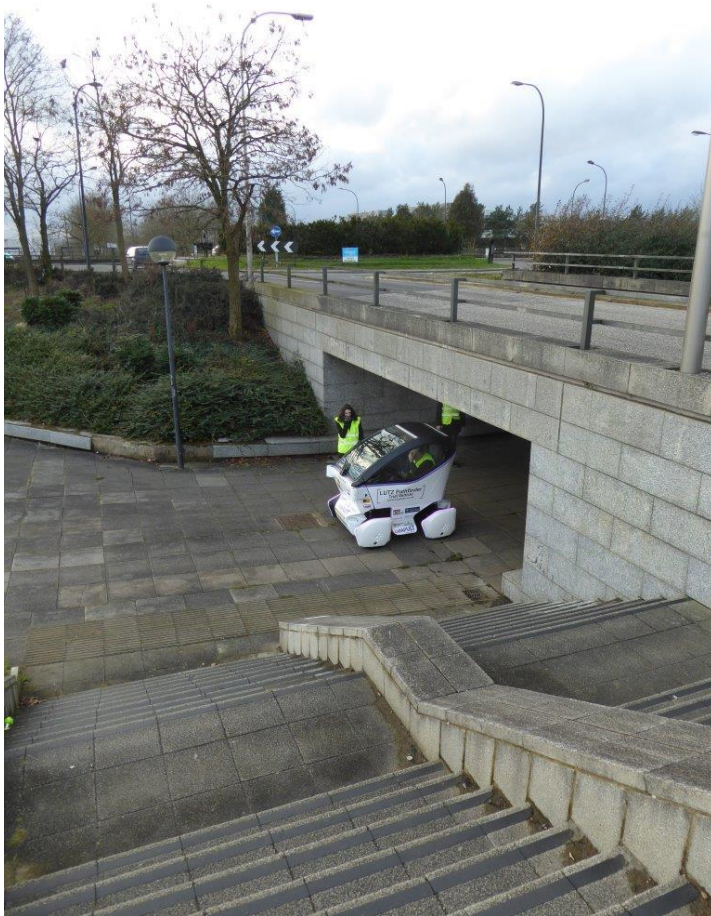
**Innovate UK**  
Technology Strategy Board

**UKAutodrive**  
COUNCIL





# Operation



# Self Driving Cars

## M1 Autonomous Cars

### Lead Partners

- JLR
- TATA
- Ford
- Thales

### Primary Aim

To demonstrate autonomous cars operating on a variety of public roads in Coventry and Milton Keynes



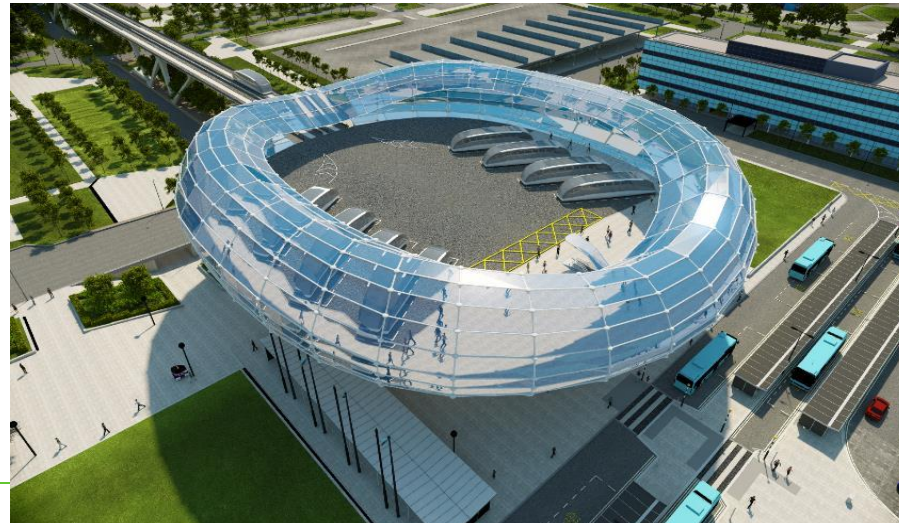
# Cities Programme

Why?

- Productivity
- Safety
- Capacity
- Mobility

Milton Keynes Council

- Urban Laboratory
- Public attitude research
- Business case development (LSATS)
- Capacity impacts
- Safety & Security
- Legal & Insurance



# Bringing it all together in Milton Keynes

- Strategic focus plus open innovation
- Eco-system of solutions
- Intelligent mobility
  - seamless journeys across travel options
  - adaptive - fits the environment & travel needs
  - flexible routing & demand responsive
  - real time information
- City-scale functionality and integration

