

Milton Keynes – Different by Design

MK:Smart Application of Smart Transport initiatives



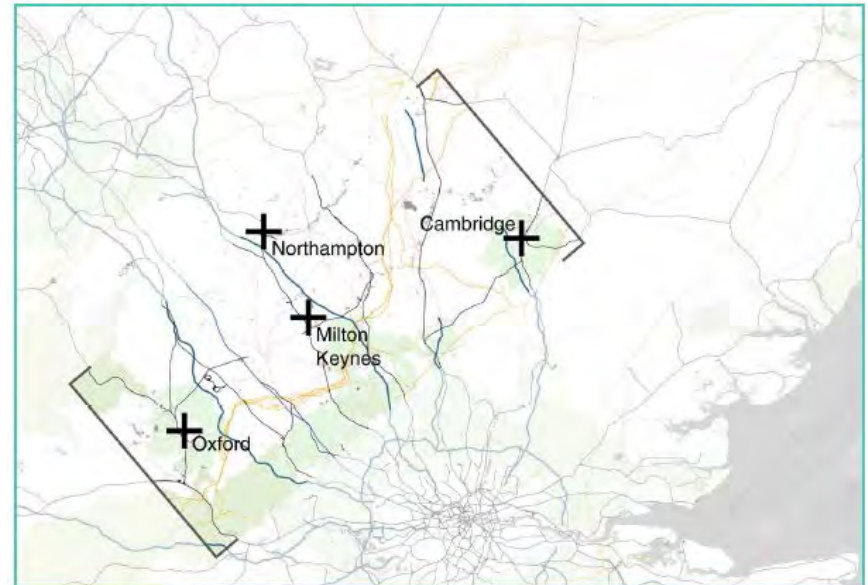
Cllr Pete Marland
Mayor – Milton Keynes

Milton Keynes – strategic location



- London: 88km
- Birmingham: 110 km
- Oxford: 74 km
- Cambridge: 77 km

Figure 1: The Cambridge-Milton Keynes-Oxford Corridor

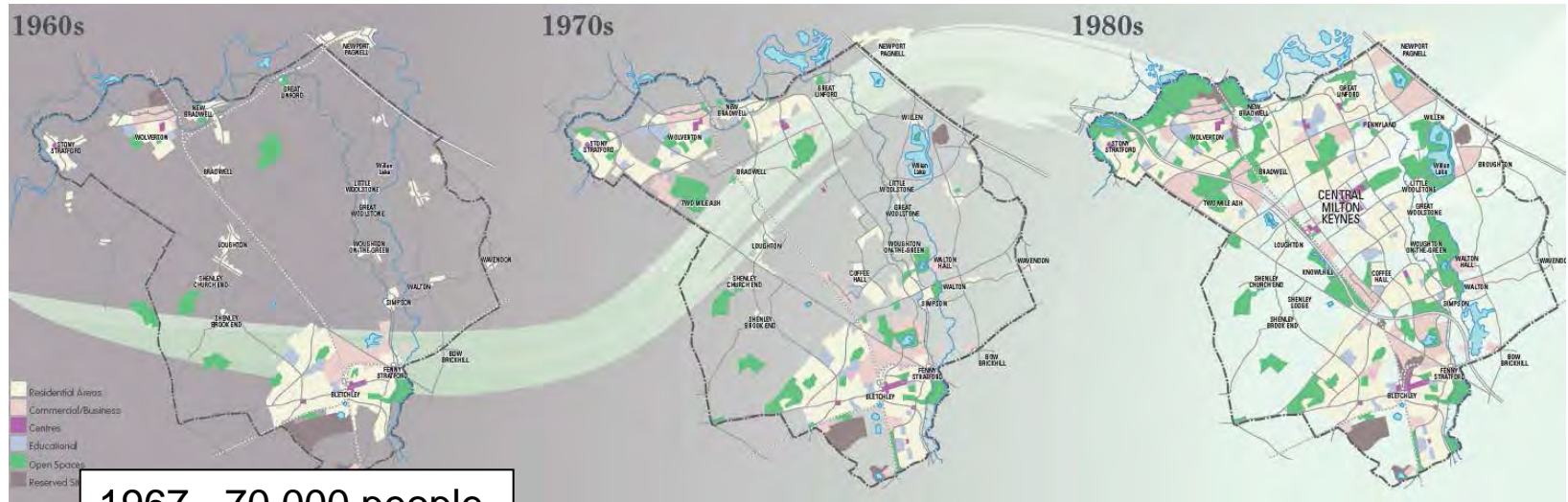


Source: 5th Studio

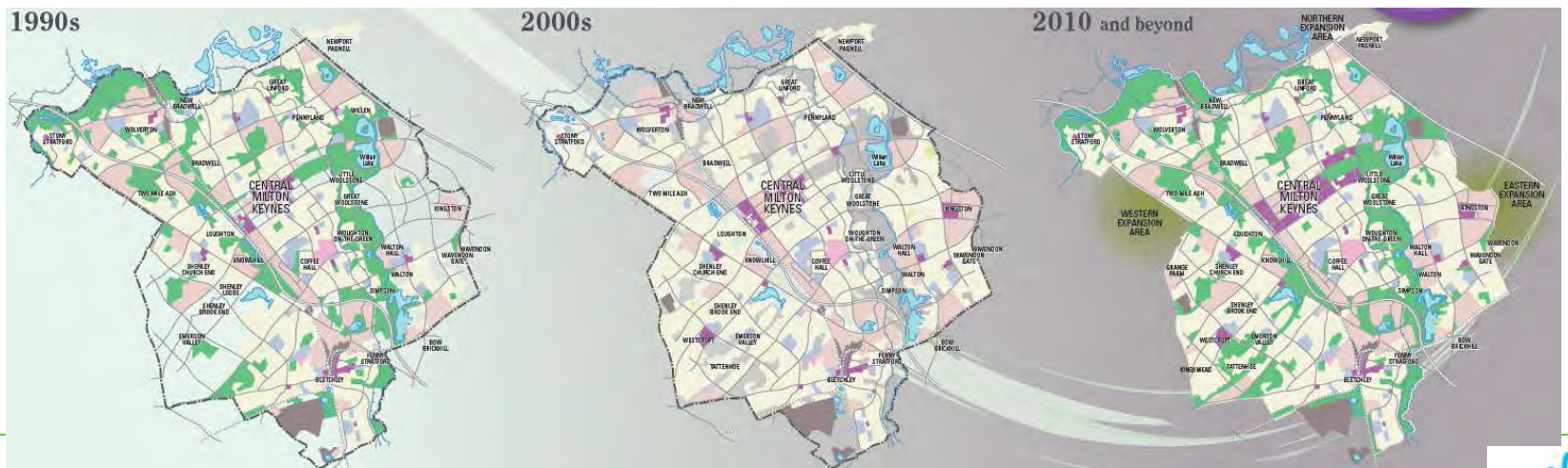
**Cambridge - Milton Keynes -
Oxford Innovation corridor**

“UK’s Silicon Valley”

Exemplar of rapid urbanisation



1967= 70,000 people



2017 = 270,000 people

MK Futures 2050

- 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+

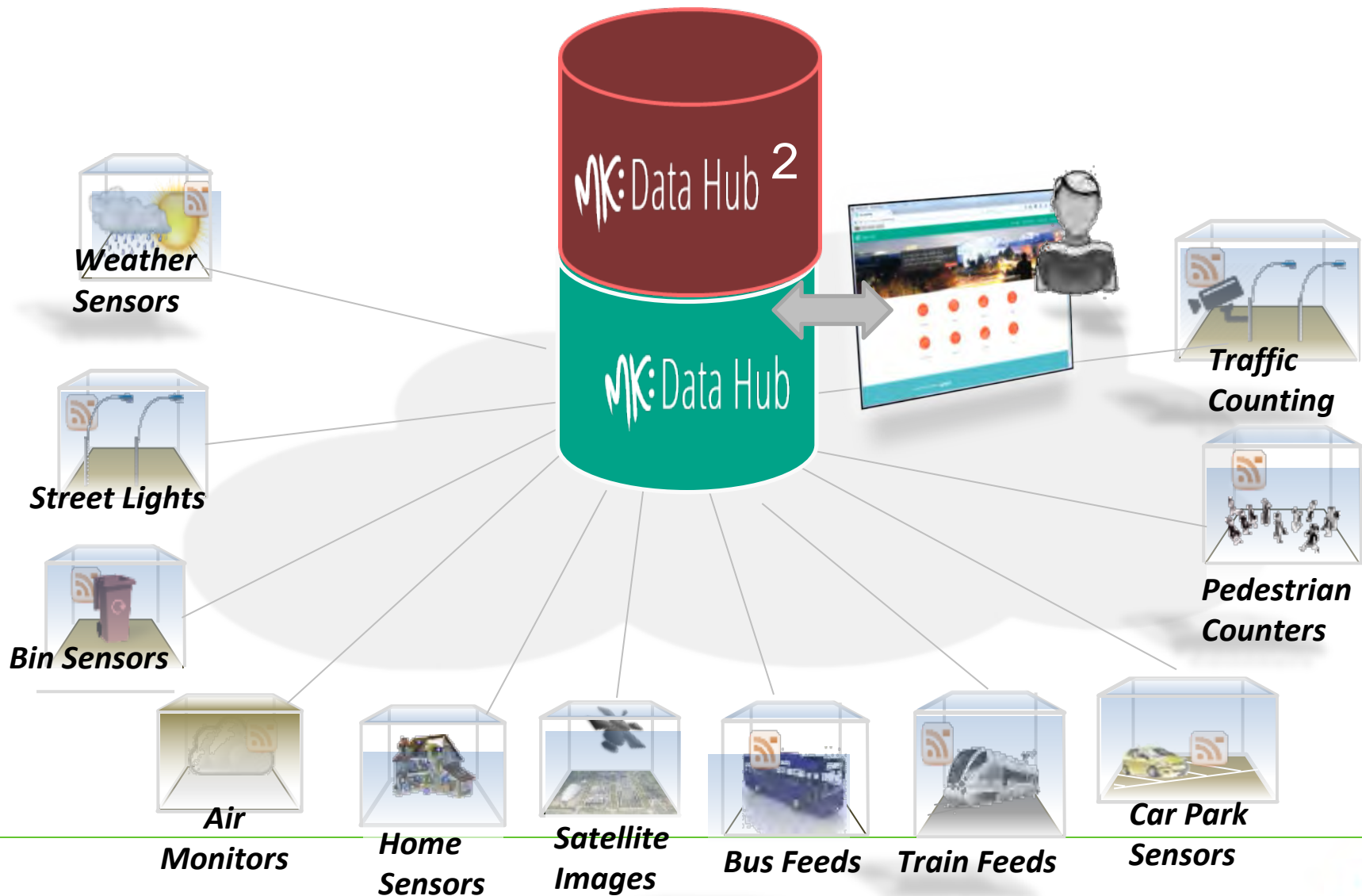
Delivering Low Carbon Transport

Milton Keynes Go Ultra Low City Scheme

Our goal is to achieve the highest uptake of ultra-low emission vehicles per capita for any city in the world by 2020.



City innovation ecosystem



Programme Partners

Core Steering Group



Universities, community groups and utilities



Major business partners



UK Catapult innovation centres



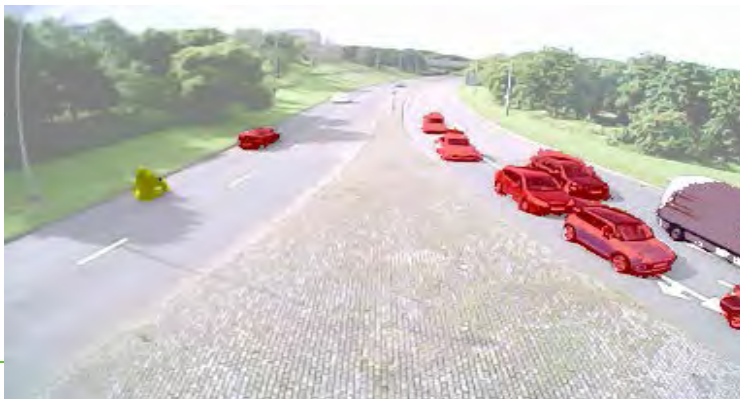
City motion map



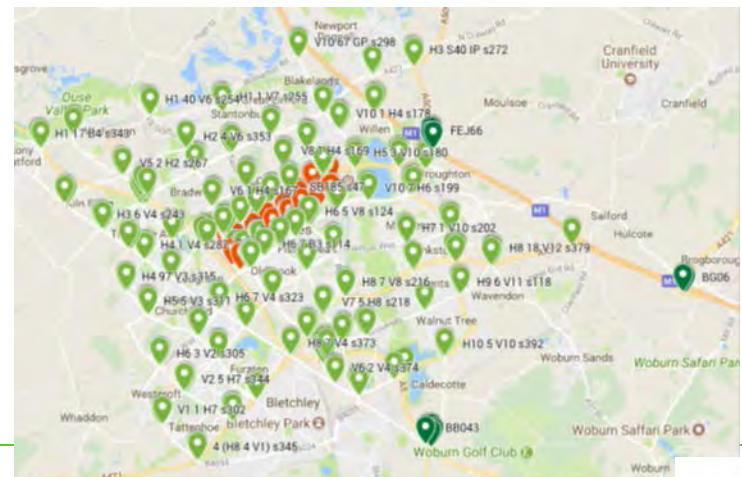
City-wide movement, parking
and timetable data

On demand, shared,
connected and low carbon
mobility

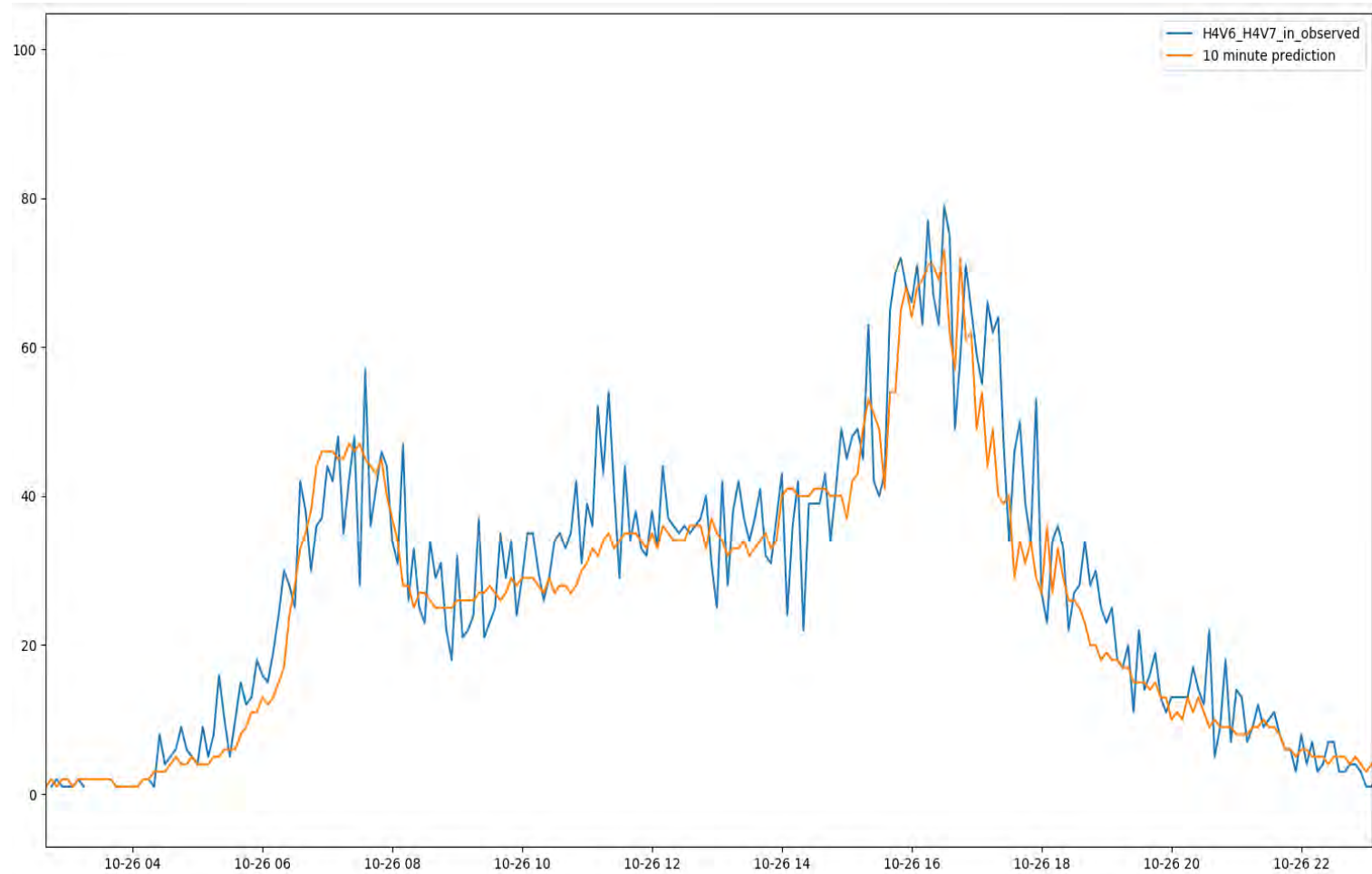
City Scale sensor deployment



- City scale deployment
 - 1816 car park sensors (14,000 spaces)
 - 445 junction sensors
- Artificial Intelligence (AI)
 - sensors analyse and transmit data several times per minute
- Potential to connect to traffic signals
- Real time detection of everything that moves



Real time AI Learning



UK Autodrive Programme

- Connected and driverless saloon car demonstration
 - Jaguar Land Rover
 - Ford
 - Tata
- Test days on live public highways in Milton Keynes
- Develop interface with driverless pods and car parking



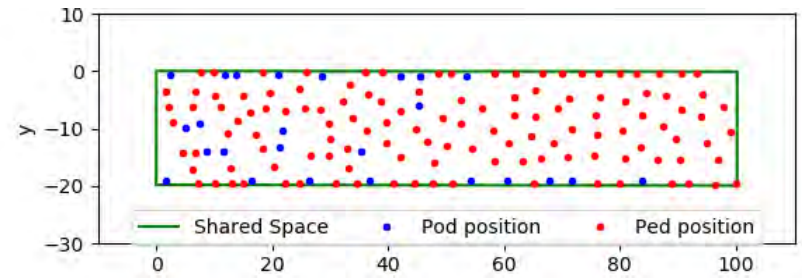
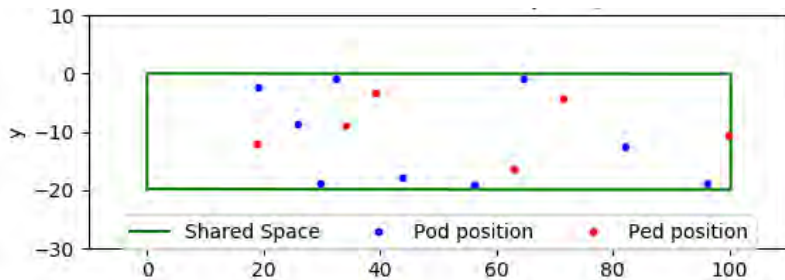
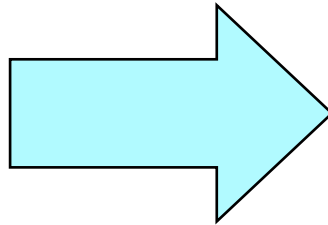
Autopods: Low Speed Autonomous Transit

On demand “last mile” solution for city centre and campus settings

- 2016: research trials of 3 pods
- 2018: small scale public transport service of 40 pods



Autonomy and Real Time AI



What Next?

