Robotics and AI – at a local government level

Japan-UK Robotics and Artificial Intelligence Seminar 2016

Llewelyn Morgan Oxfordshire County Council





The A34 in Oxfordshire carries



The M40 in Oxfordshire carries

102,000

vehicles per day

The A40 in Oxfordshire carries

45,000 vehicles per day











Congestion is driven by the capacity of infrastructure



The way we move around in cities is defined by the underlying **Capacity** of all forms of modality which defines the ease of travel within a city



NCBOX

Using a collaborative approach Mobox aims to transform the way we use transport, technology and infrastructure by providing a real world proving ground for innovative ideas, within Oxford, that can then be applied elsewhere.





MobOx Foundation CIC – Founding partners



Mobility Data – Machine Learning

- Big Data Analytics combined with Machine Learning providing new Insights and predictive analytics early warning systems
- Google pilot projects showed big data from floating data sources anonymised and analysed to give insight as good as physical sensors. <u>http://googlepolicyeurope.blogspot.co.uk/2015/11/tackling-urban-mobility-with-technology.html</u>



AV In Oxfordshire



Wider development from AV Tech



Why AV/Driverless Vehicles



We are/have run out of space for increased trips into Oxford.

Source: Automotive Council





Capitalising on AV/Robotics in Oxfordshire Culham City

- Closed real world living lab site based on Culham site Smart Cities Lab - focus on Robotics and AV
- Initial Partners: UKAEA Site Owners
- OxboticaMobOx
- Smart Oxford

Local Authorities and LEP







CONNECTING OXFORDSHIRE

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