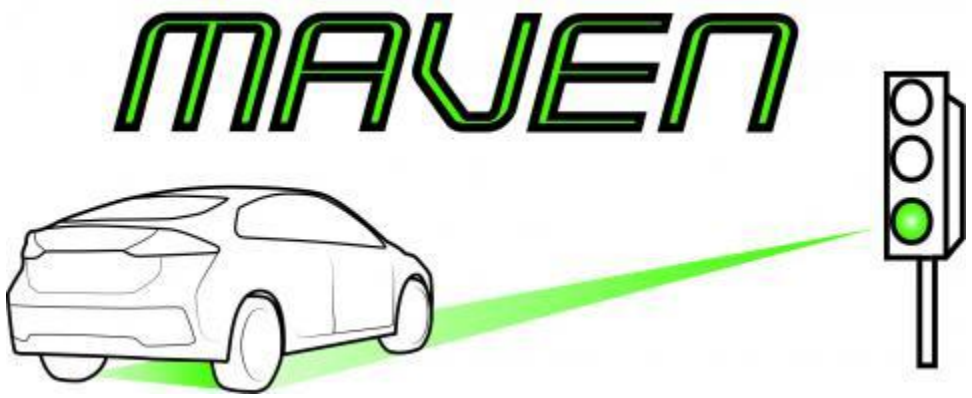
ROYAL borough of GREENWICH

dg:cities

MAVEN



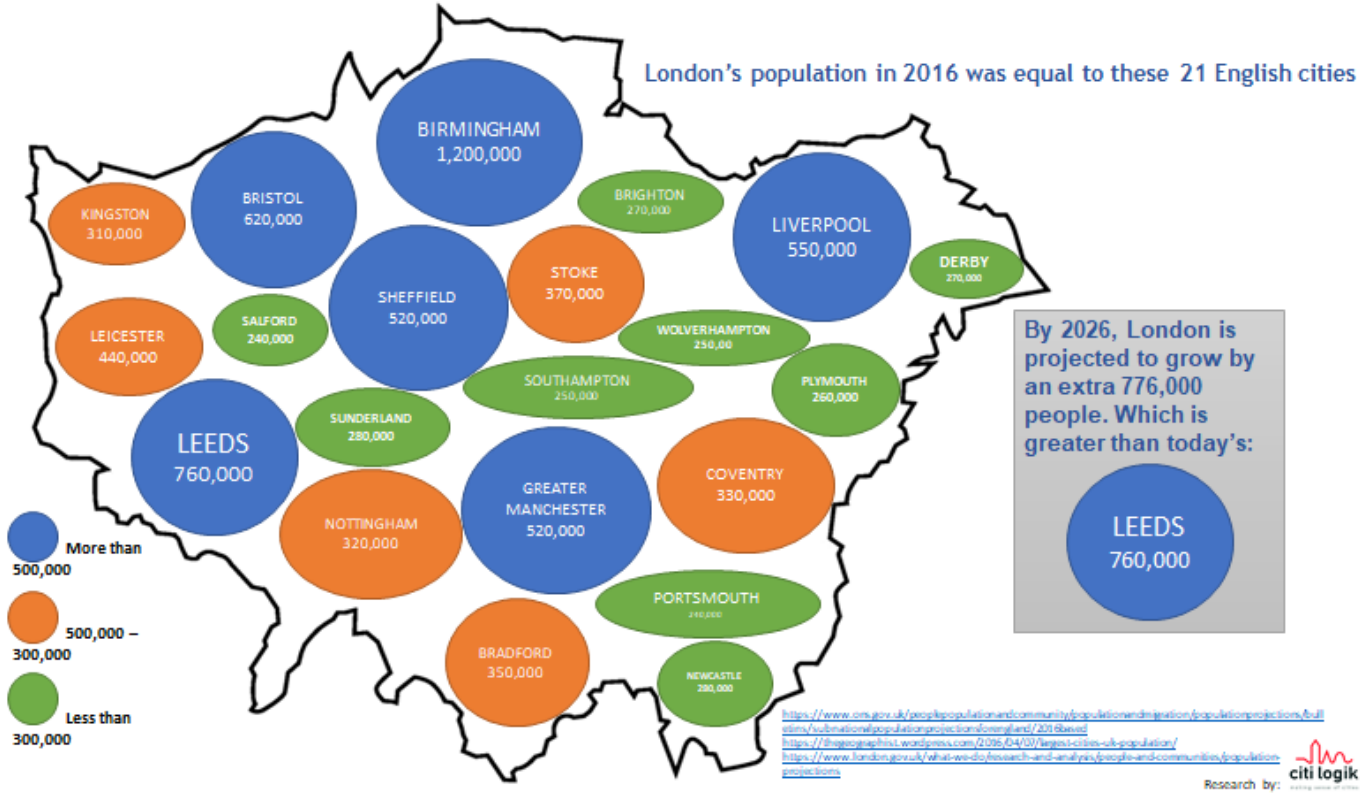
We Have Significant Challenges That Need New Approaches

- Rapidly rising population (34% 2010-2028)
- Ageing demographic & rising cost of healthcare
- Traffic congestion and air quality
- Pressure on infrastructure, public services and the environment
- Threats to jobs and the economy from globalisation and technology

ds : Cities

ds : DIGITAL GREENWICH

London's Predicted Growth Up-To 2026

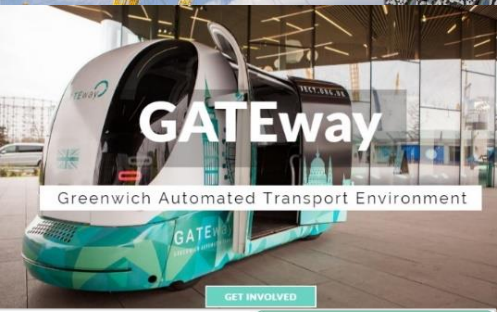


A Strategic Approach to ‘Digital’ and ‘Smart’

- Comprehensive smart city strategy published in 2015
  - Neighbourhoods & Communities
  - Economy
  - Public Services
  - Digital Infrastructure
- New Delivery Structures

ds : Cities

ds : DIGITAL GREENWICH



Timeline

2015
Smart city strategy published
Digital Greenwich and DG Cities established
GATEway driverless car bid to Innovate UK successful

2016
Successful funding bids to European Commission
Smart city and communities demonstrator
Autonomous vehicle platooning
Successful funding bids to Innovate UK
Atlas: Mapping and navigation requirements of autonomous vehicles
Move-UK: new validation methods for autonomous vehicles

Timeline

2017

Successful funding bids to Innovate UK

eRCV – first refit of diesel vehicle to electric power train

Merge UK – Autonomous ride sharing

Robotics and additive manufacturing for off-site construction of housing

Smart Mobility Living Lab: London – national test bed for CAV and new mobility solutions funded by IUK and Industry

Greenwich recognised in UK Smart City Index of leading cities

2018

3 year GATEway project completes with first UK public trails of autonomous last mile pods on the Peninsula and autonomous cargo pods in Woolwich

Sharing Cities ‘Implementation’ completed

Advising UK agencies on development of smart cities in developing world

£19m SMLL:L 18 month buildout starts April

eRCV 2 Approved

Smart Mobility Living Lab

London

The Global CAV Test Bed Centre
Delivering the Future of Transport

London: An existing real world testing ground for CAV and smart mobility systems

- Globally representative complex urban test environment:

  "*if it works here, it will work anywhere*" Cuerden

- Significant number of existing CAV trials
- Access to Mega City & transport challenges
- Close to all relevant sectors: FinTech, Gaming, Digital, Tech, Insurance, Science & Engineering +
- Skilled workforce – relationships with Universities & education sector
- High profile, High visibility
- Hub of investment for UK PLC

Our Team

- World Leading Transport authority
- Local Government and Development Corporation Backing
- Global Industry Leaders in Networking (Cisco) and Transport Systems (Cubic)
- Extensive CAV Transport Research Knowledge and Experience
- Global reach across Consortium membership

Partners

TRL
dg:Cities
London Legacy Development Corporation
Cisco
CUBIC
Transport for London
Loughborough University

Delivery Partners

Millbrook
University of Surrey
5G Innovation Centre

Established collaborative CAV projects in London & UK

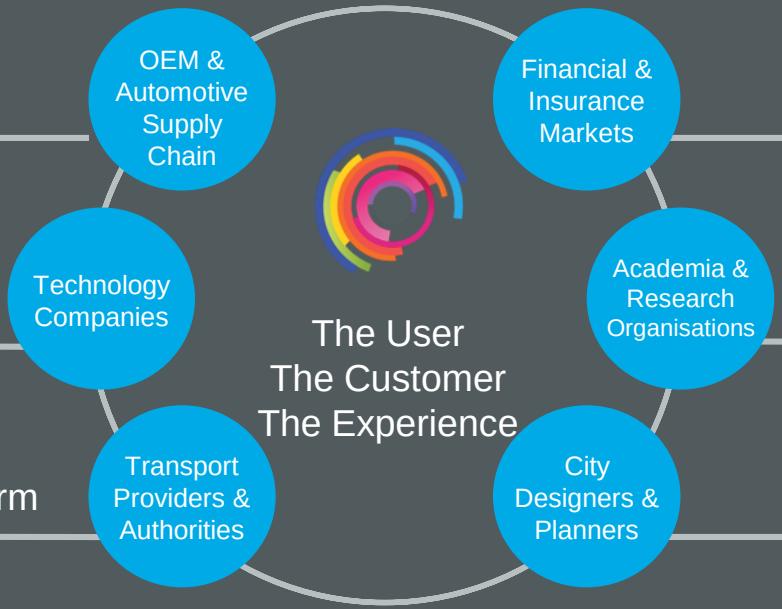
- CAPRI
- CC Cars
- Streetwise
- Alloyed
- Driven
- Navya
- Starship
- Nissan
- Volvo

Who will use the SMLL:London? What will the users do?

01 Vehicle Validation & Customer Verification

02 Expertise on building CAV ready cities & Trials

03 Access to flexible and Customisable Tech platform



04 Data Services (Storage, Analysis & Integration)

05 Development of Standards & Approvals

06 High Profile Launch & Showcasing

Business model development & validation

A growing ecosystem of like-minded collaborators

A growing ecosystem of like-minded collaborators

And the future customer list is growing ….

Our Underlying Principles

Committed to working collaboratively with UK CAV Test Bed ecosystem

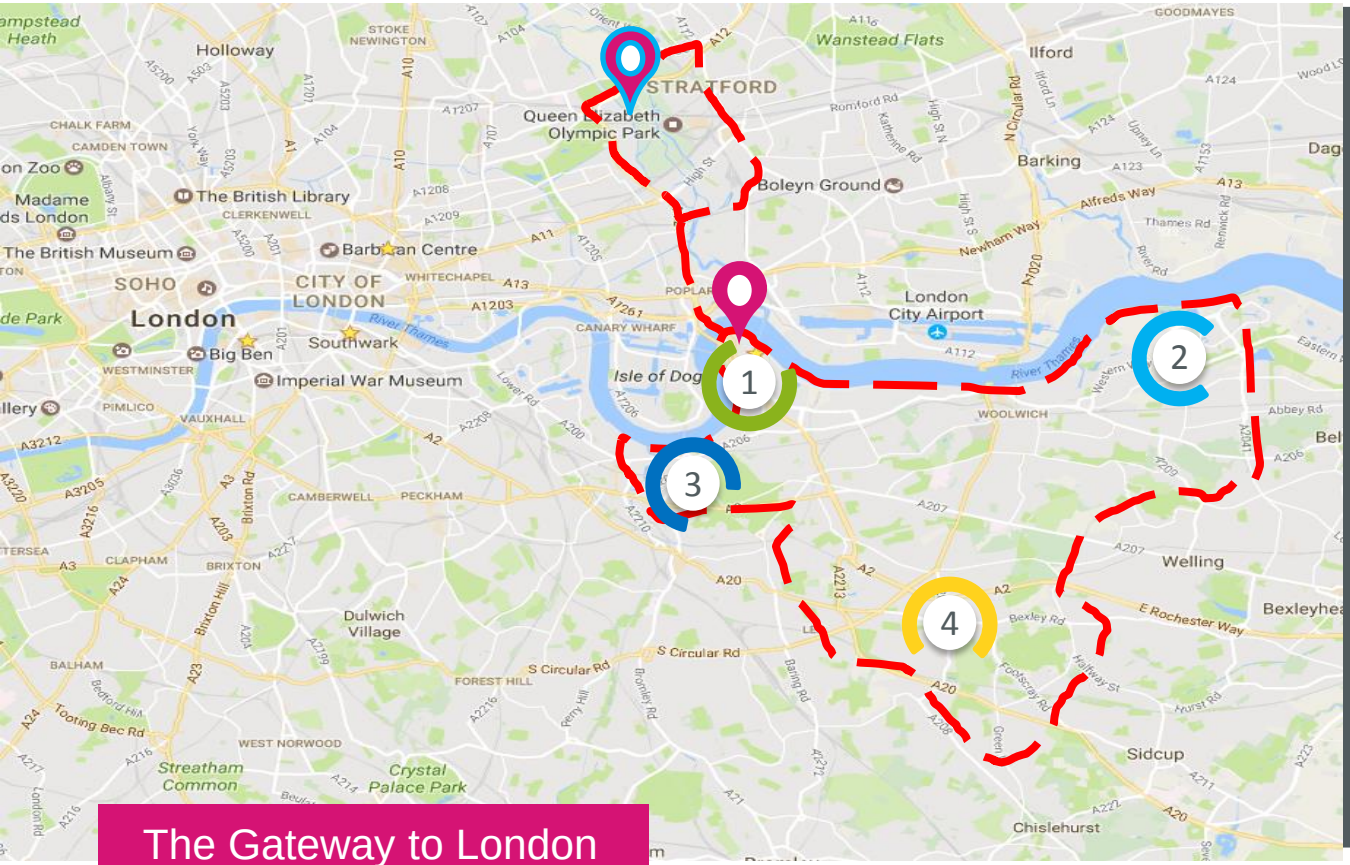
Phases – Building on existing projects & experience

Phase 1

- 12 to 18 months
- Design & Build Smart Mobility Living Lab: London
- Set-up NewCo
- Refine & evolve services and business plan

Phase 2

- 6 months to 10+ years
- NewCo established and operational
- Develop, grow, invest and sustain business
- Customers: traditional and new mobility providers



Testing Zones

RB Greenwich & QEOP

QEOP HQ

DG Cities HQ

1 Shuttle Transport on Greenwich Peninsula

2 Quiet Residential, Thamesmead

3 High Density Urban, Historic Maritime, Greenwich

4 Major corridors, A2 and A20 Commuter Routes

The Gateway to London

Contributing to wider outcomes

- Democratise access to cost effective CAV testing & validation services
- Grow CAV jobs, skills pipeline & build capacity
- Contribute to 6,000 new UK jobs (70% in software)
- Establish UK as leading CAV technology provider
- Promote CAV research & provide interface with academic community (Research Centre)
- Accelerate the real world delivery of CAV technologies to realise the associated societal benefits in London & other international cities
- Provide open-innovation within the wider UK CAV Test Bed ecosystem – seamless environment for all new & existing businesses to develop

Smart Mobility Living Lab™ London

Thank you