

MAVEN (Managing Automated Vehicles Enhances Network)

A city perspective: Greenwich

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Greenwich



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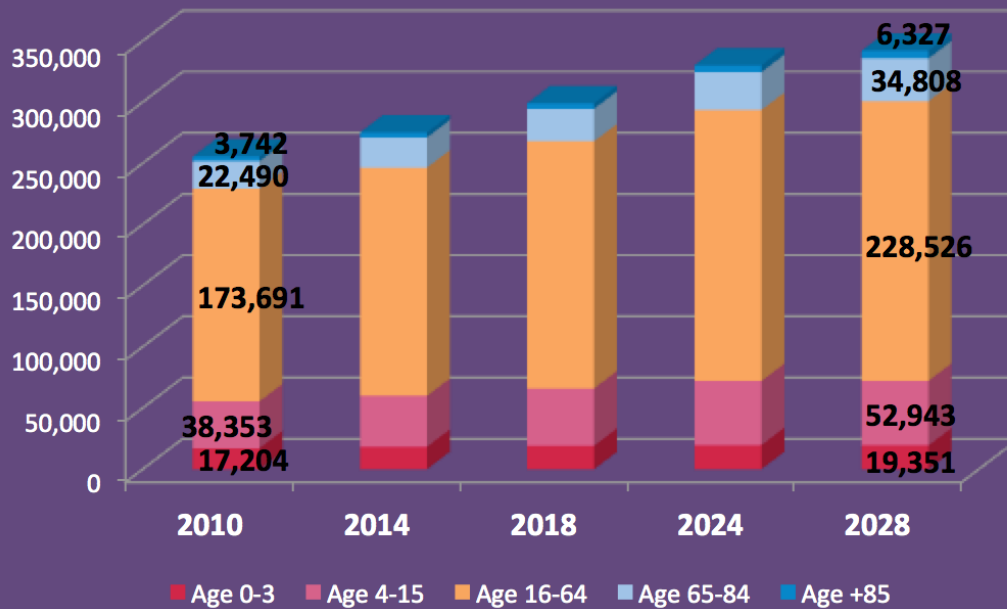


Population: Growth

- ❑ The Royal Borough of Greenwich is one of London's 33 Boroughs and between 2010-2028 the current population of around 275,000 is expected to rise by a third, or possibly more
- ❑ The number of people over 65 is expected to rise 57%, from 26,000 to 41,000 and the number of people over the age of 80 is expected to rise by 70%
- ❑ 17 Wards, population densities from 3,487 people / sq km to 10,441 people / sq km



Population: Demographic



Current population is 275,000 inhabitants (17% more than in 2001) and is expected to grow to 342,000 by 2028.

	2010	2028	Increase %
Age 0-3	17,204	19,351	+ 12.4 %
Age 4-15	38,353	52,943	+ 38 %
Age 16-64	173,691	228,526	+ 31.6 %
Age 65-84	22,490	34,808	+ 55 %
Age +85	3,742	6,327	+ 69 %
Total	255,480	341,955	+ 34 %

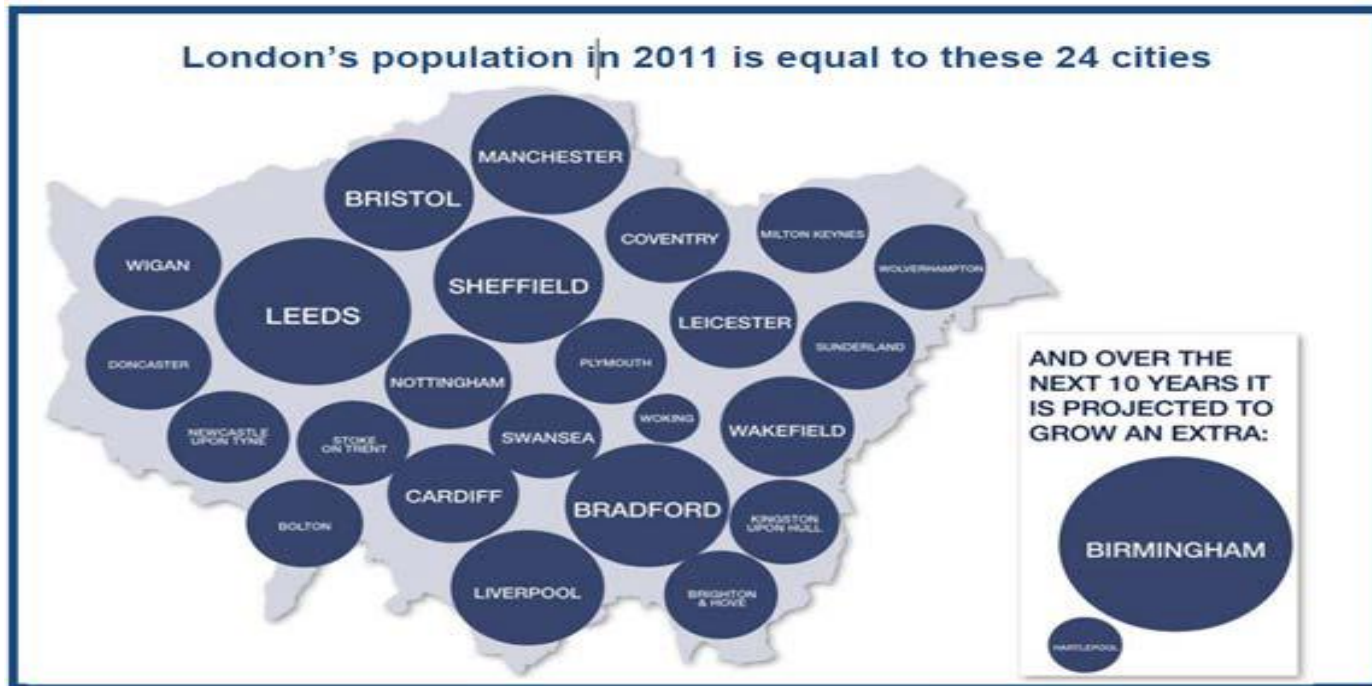
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Population: The London Context



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Greenwich Road Travel: 2015

- ❑ 1065 million vehicle kilometers travelled by motor vehicles
- ❑ 821 million vehicle kilometers travelled by cars
- ❑ 78,626 PLG vehicles owned / licenced
- ❑ 66 kilometers of A roads
- ❑ 438 kilometers of minor roads
- ❑ Cars account for 45% of journeys made in the Borough



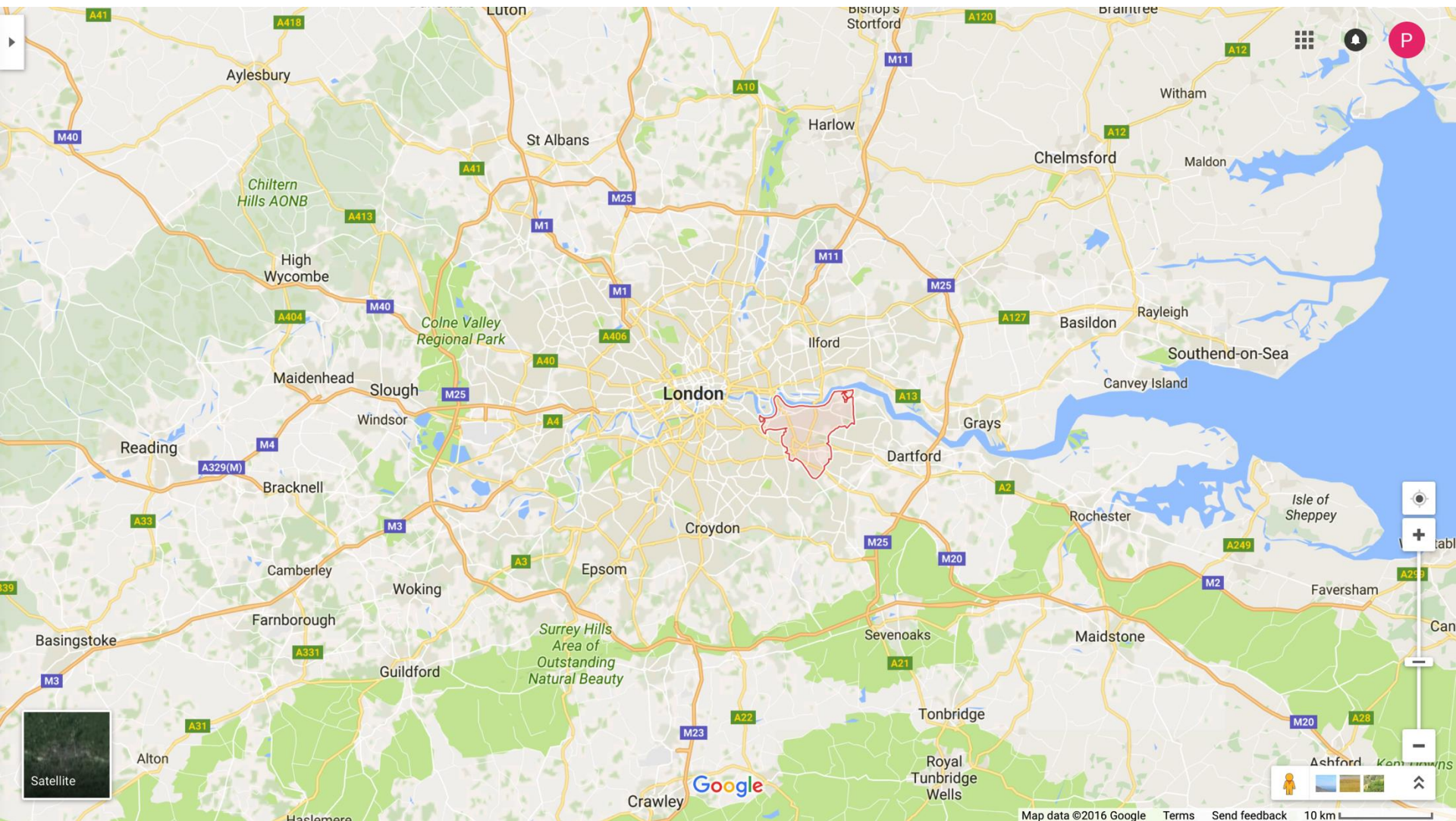
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Travel: The Daily Commute

- ❑ ~95,000 resident journeys to work
- ❑ ~24,000 residents work in Greenwich
- ❑ ~71,000 residents commute out of Greenwich
- ❑ ~40,000 people commute into Greenwich
- ❑ ~135,000 commutes twice a day
- ❑ ~62,000 work related road journeys each morning & evening



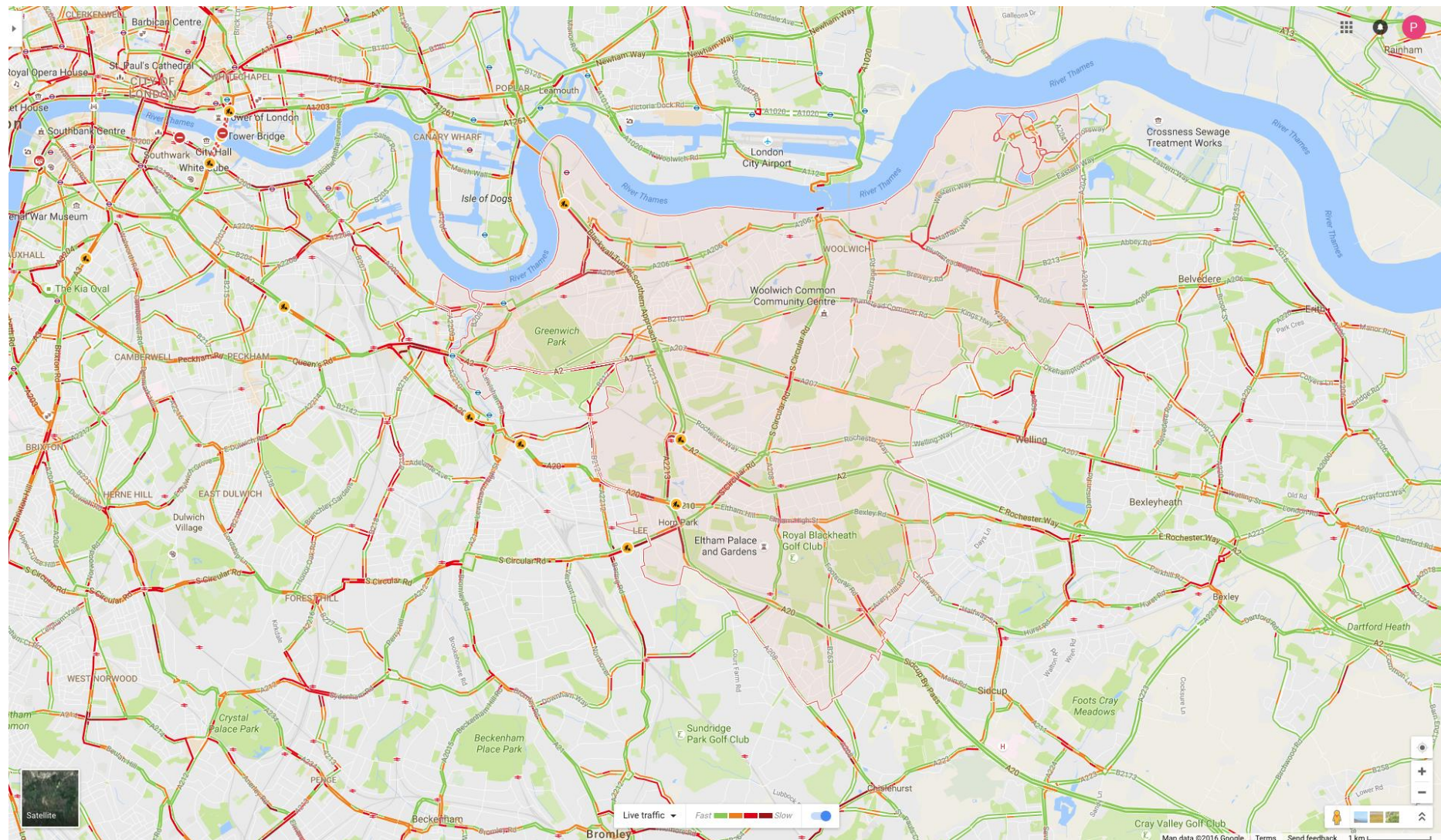


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A Smarter City

‘Integrating design, intelligence, data and technology to deliver better outcomes for the city and its citizens’

- ❑ GATEway: The Greenwich Autonomous Test Environment**
- ❑ ATLAS: Examining the data needed for efficient autonomous navigation**
- ❑ MOVE UK: New solutions for validating autonomous driving systems**
- ❑ MAVEN: Managing Automated Vehicles Enhances Network**
- ❑ Sharing Cities: Creating a demonstrator in building, sustainability, e-mobility**



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Greenwich Shuttles



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We are looking for MAVEN to provide insights into how managed autonomous vehicles could work in a city like Greenwich

- ☐ **Much of our traffic already platoons, just very slowly**
- ☐ **What happens at the boundaries, i.e. where the coverage stops?**
- ☐ **What happens in the transition, i.e. when some vehicles are unmanaged?**
- ☐ **How do we manage traffic across multiple junctions?**
- ☐ **What are the advantages in a congested environment?**
- ☐ **What are the data requirements?**



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Thank you!

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