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What will 5G mean for smart cities?

Painted Hall, Old Royal Naval College





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Royal Borough of Greenwich
One of 32 London Boroughs
Population 270,000
Area 5,000 hectares
Smart City Testbed
Gigabit Borough



Enfield

Barnet

Haringey

Waltham Forest

Redbridge

Havering

Harrow

Brent

Camden

Islington

Hackney

Barking and Dagenham

Newham

Tower Hamlets

Southwark

Greenwich

Bexley

Lewisham

Lambeth

Wandsworth

Merton

Croydon

Bromley

Sutton

Kingston

Richmond

Hounslow

Ealing

Hillingdon

Westminster

Kensington & Chelsea

Hamersmith & Fulham

City

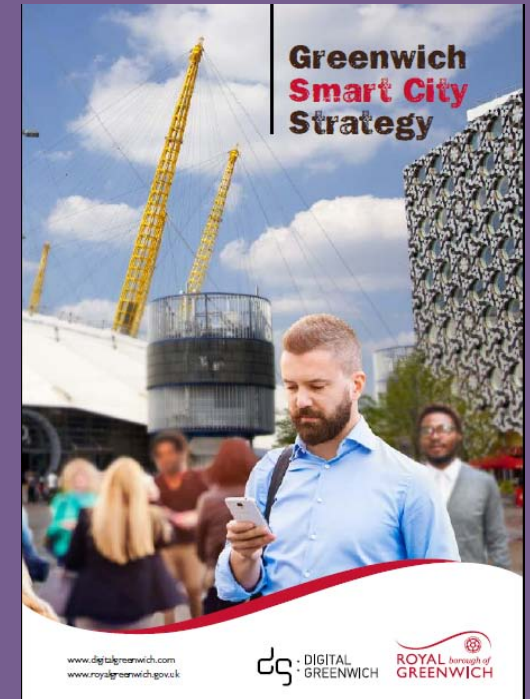
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Smart city strategy – launched Oct 2015

- Smart Neighbourhoods and Communities
- Infrastructure for Change
- An Innovative and Smart Council
- Economic Growth and Higher Value Jobs

Download from

www.digitalgreenwich.com



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Gigabit Borough

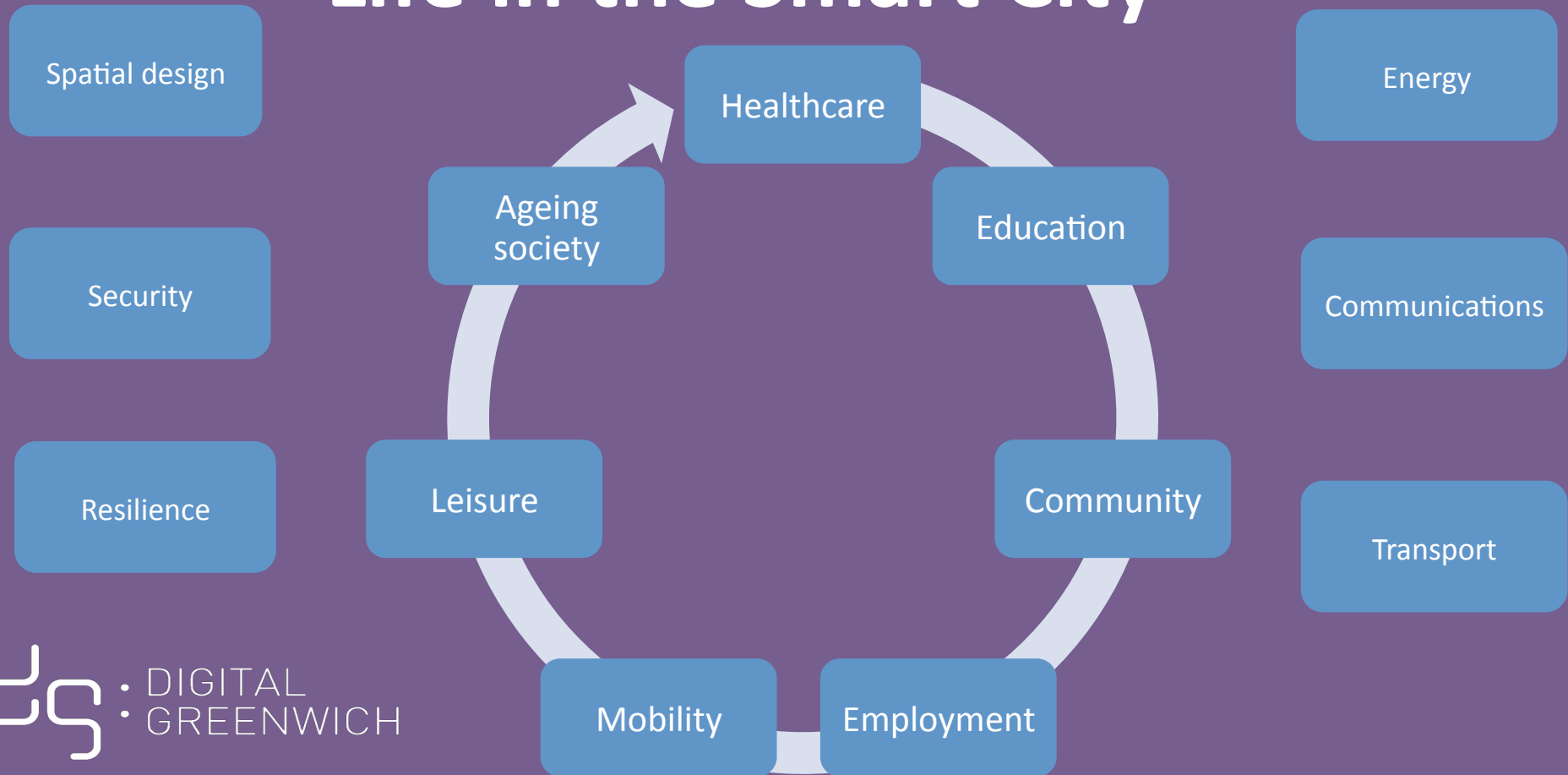
- Open market review – Dentons – in progress
- Giga-wireless 4.5G trials
- GPON deployment and duct planning
- Municipal MVNO – NB-IoT – using agnostic SIMs
- Smart street lights with mesh network
- Integration with 5G Innovation Centre programme
- Review partnering options and spectrum availability

Greenwich sample use cases

- Adult social care
 - service broker for 2,500 users
- Waste management
 - route planning and sensors
- Connected & autonomous vehicles
 - 500 vehicle fleet, 3 projects
- Connected homes
 - 25,000 units of social housing



Life in the Smart City





UK Smart Mobility
Living LabTM
@ Greenwich

GATEway 

Greenwich CAV test bed



MOVE-UK – Bosch sensors



Starship – delivery robots

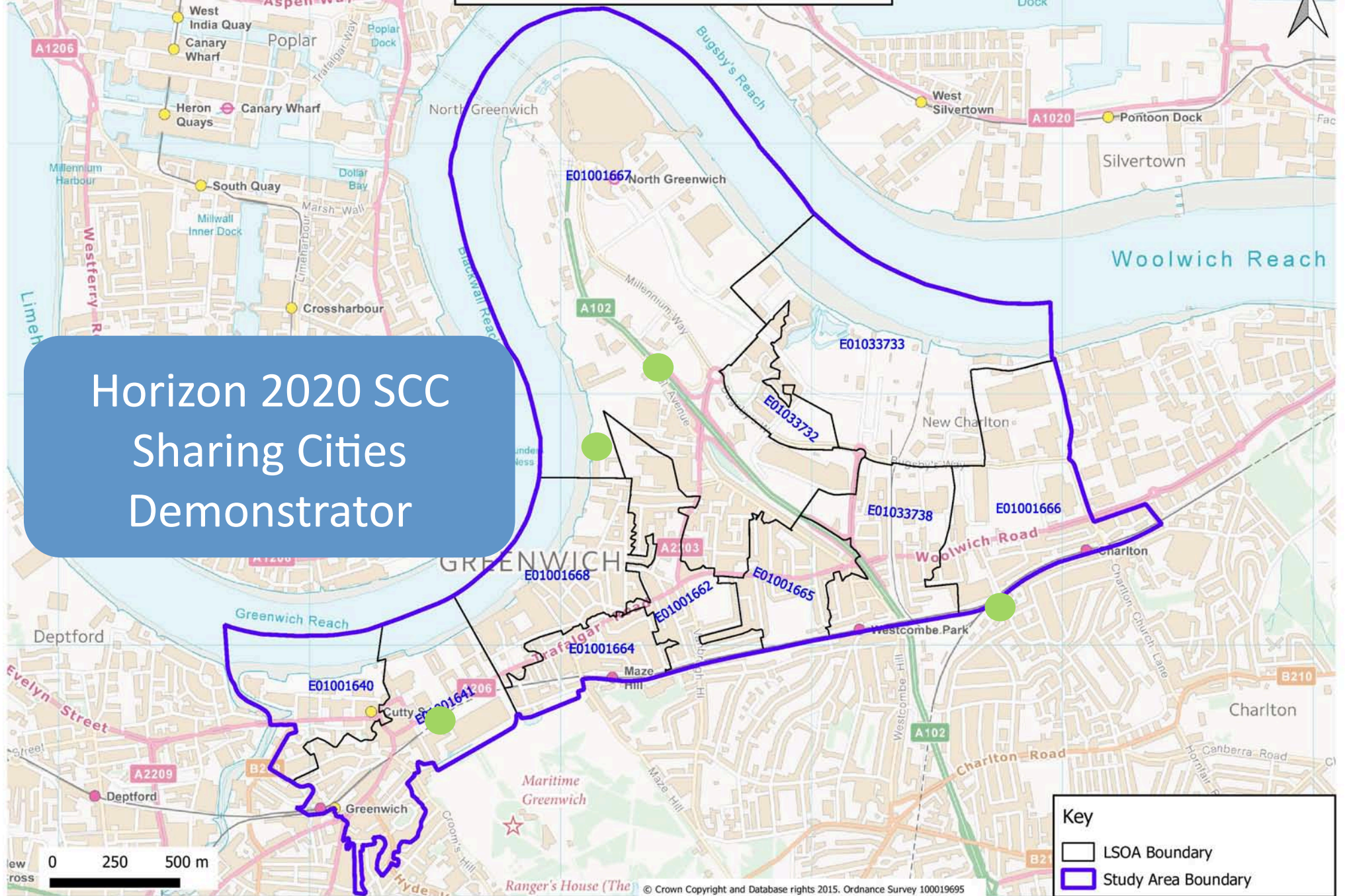


GATEway – autonomous pods

Autonomous mobility research agenda

- Public response – pedestrian, cyclists, drivers
- Mode interface and demand driven services
- Business models – media value, health budget, etc
- Cyber security, insurance liability, vehicle recovery
- Impact on urban design, planning, land use policy

Horizon 2020 SCC Sharing Cities Demonstrator



Menu

Local Authority Asset Data

Social Data

Roadworks and Traffic

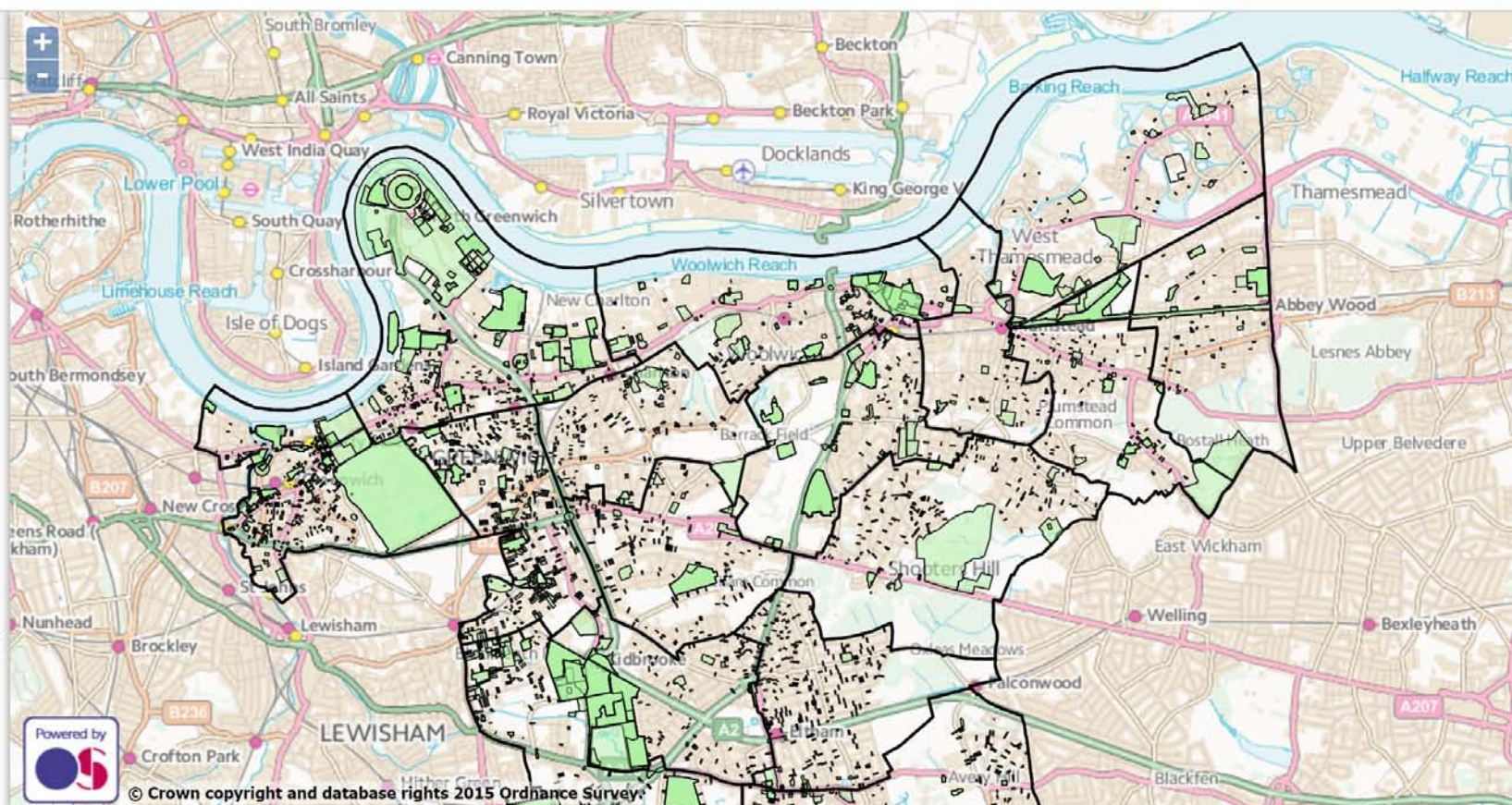
Planning Information

☒ Planning Applications 2014/15

Environment Information

Ordnance Survey Data

This application contains data from
 Ordnance Survey © Crown copyright and
 database rights 2015 Ordnance Survey,
 Transport for London feeds Powered by
 TfL Open Data. Map template based on
 Bootstrap.



Future Gigabit network



Data integration model

