

Condo

Dept of the Built Environment Overview

Main Business Activities

- Planning service, bridges & highways management, transport & public realm enhancement projects, waste & cleansing service, Building Control & resilience
- Contributes to corporate aims shaping outstanding environments, thriving economy, flourishing society,
- Key role in delivery of corporate capital building projects
- 220 staff; Net revenue local risk budget £19M; annual forecast capital spend over £20M
- DBE leads on digital infrastructure in several key areas
- DBE service improvements are made easier by going digital



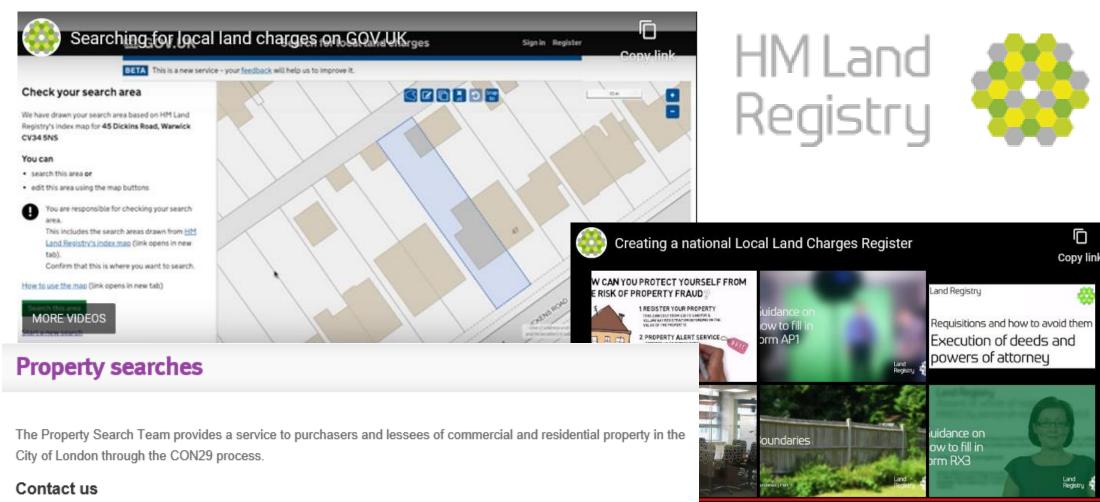
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Digital Infrastructure Lead Areas

- <u>Wayleaves</u> standardised wayleave toolkit to speed up broadband connections; endorsed by Mayor of London and adopted nationally
- Wi-Fi fastest outdoor mesh Wi-Fi network in Europe, 156 access points, speed over 200 megabits per second to over 80,000 users.
- <u>4G</u> City & Cornerstone delivered 200 "small cells" on street furniture to enhance 4G coverage & eradicate "not spots"
- <u>5G</u> City offering rooftops and street furniture to mobile operators to encourage roll out of 5G in 2020. City already has several live 5G sites deployed on non-Corporation owned buildings.
- <u>Fibre to the Premises</u> Openreach have achieved 90% coverage, remaining 10% to be completed by 2021. 12 City housing estates will have access from two suppliers by end 2020.



Recent Service Improvement Example: Digital Service for City's Local Land Charges





Property Search Team

The Department of the Built Environment

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Recent Service Improvement Example: Digital Service for City's Local Land Charges

- Context: 23,000 local land charges registered for one Square Mile
- Up to 200 charges registered on individual properties
- 100 local land charge searches monthly; paper-based system; 6 day turnaround.
- <u>Shift to Digital</u>: Data quality checking: 6 month process, 3 staff involved, 10,000+ data issues affecting 9,000 charges. 3rd local authority to shift in England; 1st in London.
- Outcome: Better data set for the City property market available via HM Land Registry website since Oct 2018.
- <u>Outcome</u>: Same day automated digital response; lower £15 processing fee; available worldwide.



Current Improvement Example: Digitising & Publishing Highway Projection Licences



DIRIGE

P.O. Box 270 Guildhall London EC2P 2EJ

Telephone 0171 606 3030

Minor (Architectural) Projections over the Highway Highways Act 1980 (Section 177)

WHEREAS

City Secretary

Tom Simmons

(1) Legal & General Assurance Society Ltd

f Bucklersbury House, 3 Queen Victoria Street, London EC4N

(hereinafter called "the Licensee") for the purposes of this Licence being the person or body corporate (or his/their successor(s) in title) entitled to receive the rack rent in respect of:-

31-45 Gresham Street, EC2

(hereinafter called "the Building") has requested permission from the Common Council (hereinafter called "the Corporation") for the construction of:-

architectural features

(hereinafter called "the Works") attaching to the Building, in accordance with Registered Planning Permission No. 96-1157W dated 9 August 1996

and situated over the street(s) known as:-

Staining Lane, Wood Street, Gresham Street

(hereinafter called "the Said Highway(s)"); all as shown on the submitted Drawings numbered:-

ASK-095, A2/7, A12/5, A101/5, A120/6 for E

(2) The Licence of the Corporation under Section 177 of the Highways Act 1980 (hereinafter called "the Act") is necessary for the Works subject to such terms and conditions as the Corporation think fit.

NOW in pursuance of the provisions of the said Section of the Act the Corporation as Highway Authority licences the construction and retention of the Works subject to the terms and conditions attached.

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Current Improvement Example: Digitising & Publishing Highway Projection Licences

- Context: Checking and scanning highway projection licences involves several DBE sections plus LMA scanning skills.
- Original estimate of 2,200 paper licences dating back to 19th century held by LMA.
- Projections can be above or below ground so includes building vaults under the highway which are relevant to redevelopment proposals
- Shift to Digital: 1200 licences obsolete & removed; 150 newly 'rediscovered' hidden in old paper files
- Outcome: Now have c.1200 licences checked, scanned and georeferenced; to be published on web and GIS layer.
- Outcome: Reliable data source for owners/developers/utilities, etc.



Current Improvement Example: Street Lighting Upgrade and Smart Monitoring





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Current Improvement Example: Street Lighting Upgrade and Smart Monitoring

- Street lighting upgrade giving greater control and scope to use resilient communication mesh for real-time monitoring of environmental conditions – rollout currently 70% complete
- Outcome: New LED lighting is <u>efficient</u>, 20% fewer needed, with remote control though a resilient comms 'mesh' network.
- <u>Outcome</u>: Comms network is <u>resilient and smart</u>; can transmit data from smart monitoring devices at lighting locations, e.g. weather conditions, light levels, noise, air quality, security threats.
- Need IT and skills upgrades to make the most of the potential for smart monitoring.



Future Improvement Example: Digital Service for Development Monitoring



MAYOR OF LONDON

APPENDIX 1

Parking Matrix		
Existing	_	
No. Standard Vehicle Spaces (Residential)	No. Standard Vehicle Spaces (Non-Residential)	No. Non-Standard Vehicle Spaces
Resulting Parking Facilities	•	•
No. Standard Vehicle Spaces (Residential)	No. Standard Vehicle Spaces (Non-Residential)	No. Non-Standard Vehicle Spaces

Housing Delivery

Year	Q1	Q2	Q3	Q4	
2019					
2020					
2021					
2022					
2023					
2024					
2025					
Cont.					

Demolished / Lost Floor Space

Unit No.	Unit Type	Gross Internal Floor Area	No. Habitable Rooms	No. Bedrooms	Current Tenure	M4(2) Compliant	M4(3) Compliant
Comm	unal Flo	or Space Serving		mmodation			
		Gross Internal Floor Area					
				1	1		1

Combined Planning Data Standard

London boroughs to monitor planning permissions, starts and completions across London

Technical Specification

Greater London Authority

been running since 2004.

15 May 2019

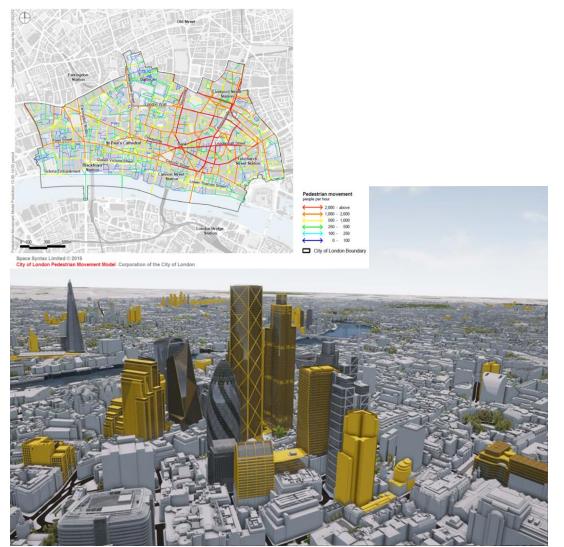
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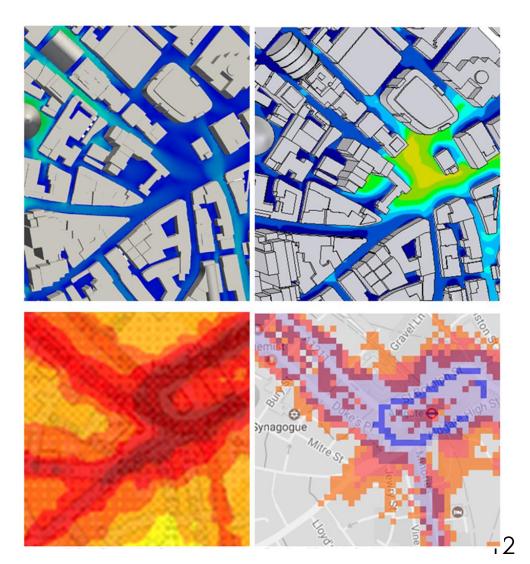
Future Improvement Example: Digital Service for Development Monitoring

- London Development Database replacement project is a partnership of GLA, London boroughs and the City.
- Updated planning application 'Local Validation List' will require
 developers to provide the right data directly via new website portal.
 More comprehensive and consistent data collection which avoids
 double-handling of data.
- <u>Outcome</u>: <u>London-wide overview</u> and site-specific detail available online as database and in maps
- Outcome: Real time monitoring of development progress
- Commencement due late 2020



Future Improvement Example: Digital Modelling of Development Impacts





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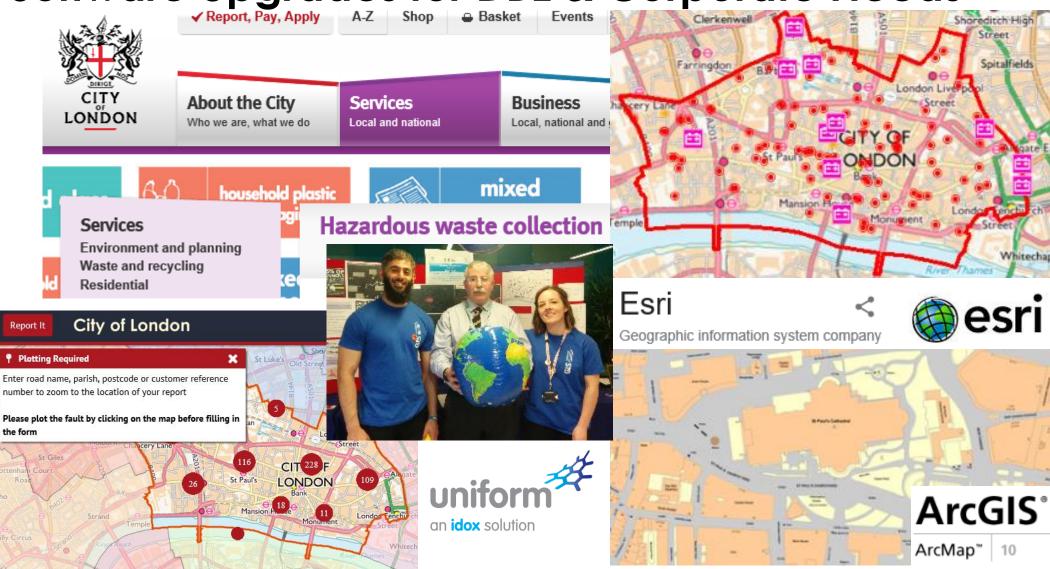
Future Improvement Example: Digital Modelling of Development Impacts

- Computer modelling of the built environment and environmental conditions helps shape a better built environment and future City.
- 3D virtual model of the City uses 'VuCity' licenced software; demonstration kit available at City Centre.
- Outcome: scope for better consultation and engagement, design refinements and better decisions, leading to more successful developments and enhancement projects
- Outcome: Projected pedestrian flow data for 2026 informs traffic management and public realm enhancement priorities. Informed our covid-related temporary street changes
- <u>Outcome</u>: Wind and thermal comfort modelling for a better and safer public realm to walk, cycle and spend time



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Future Improvement Examples: Software Upgrades for DBE & Corporate Needs



Future Improvement Examples: Software Upgrades for DBE & Corporate Needs

- 2020: Esri GIS software licence extension for City's corporate mapping needs – now done.
- 2020: 'Hazcol' software replacement for managing hazardous waste on behalf of all London boroughs
- 2021: Uniform/M3 software replacement jointly with M&CP for processing planning applications, building control & environmental health
- 2021/22: Replacement of 'HyMS' software for managing street works
- Need good IT infrastructure and software to deliver the right services & outcomes



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Conclusion: Digital Technology Improves DBE Services & Resilience

Context

- Good IT & software provides relevant data for good service delivery
- Good data quality and management processes reduce business risk
- City's complex multi-level, multi-use geography needs to be understood, updated, managed and monitored digitally
- Open data obligations help us to address the digital needs of City, national and global partners helping improve services and resilience

<u>Future</u>

- Need to shift from mixed digital and paper systems towards digital;
 remote working due to covid-19 is speeding it up
- 3D virtual models help us understand, consult on remotely, and manage physical change in the City
- More smart monitoring can bring efficiencies and service resilience
- Good IT kit and 5G is needed to support agile and responsive working





