



GEOSPATIAL COMMISSION PUBLIC SECTOR & PSGA EVENTS 2024

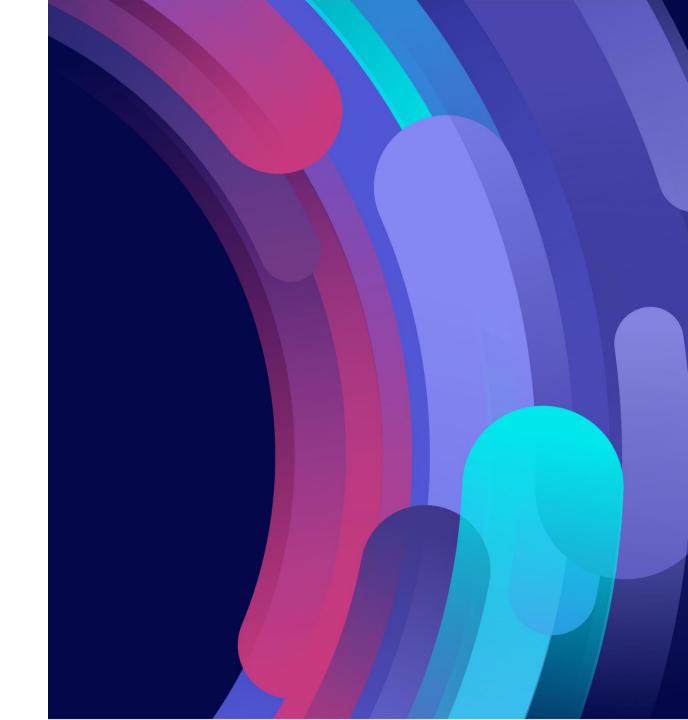
#GCxPSGA24





WELCOME TO THE GEOSPATIAL COMMISSION PUBLIC SECTOR & PSGA EVENTS 2024

#GCxPSGA24







MORNING PROGRAMME

TIME	SESSION	PRESENTER		
10:00	Welcome	Steven Sibbald Gemma McAusland	Geospatial Commission Ordnance Survey	
10:10	The latest evolution of OS's product offer and its future roadmap	Dean Paulley	Ordnance Survey	
10:40	ONS Geography: Looking to the future	Olive Powell	Office for National Statistics	
11:10-11:40	Morning break			
11:45	OS National Geographic Database workshop	Nathan Davis James Armstrong	Ordnance Survey	
12:45-13:35	Lunch break			





AFTERNOON PROGRAMME

TIME	SESSION	PRESENTER	
13:40	Welcome back	Gemma McAusland	Ordnance Survey
13:45	Showcasing change over time (SCOTi)	Steve Campbell	Ministry of Housing Communities and Local Government
14:00	Aerial Photography for Great Britain (APGB) – what's new?	Ralph Coleman	Bluesky International Ltd.
14:15	Introducing the new APGB web services	Dave Horner	Getmapping Ltd.
14:30	PSGA developments and update	Nathan Davis James Armstrong	Ordnance Survey
14:45-15:15	Afternoon break		
15:20	Applying the OS NGD to public health	James Lewis	UK Health Security Agency
15:35	PSGA Future capabilities update	Andy Wilson	Ordnance Survey
15:50	Closing comments	Steven Sibbald	Geospatial Commission
16:00	Close		







OUR SPONSORS





Collins Bartholomew

A LEADING PROVIDER OF DIGITAL MAP DATA, SERVICES AND SOLUTIONS

KESTRIX



















HOW TO GET INVOLVED

- WiFi network: Leonardo Guest Wi-Fi No password required
- Ask questions on Slido using the code #LOGCxPSGA2024
- Come and find us during the breaks at the Ordnance Survey stand in the exhibition space

Start a conversation on social media using #GCxPSGA24







Agenda



OS NGD - TWO YEARS ON



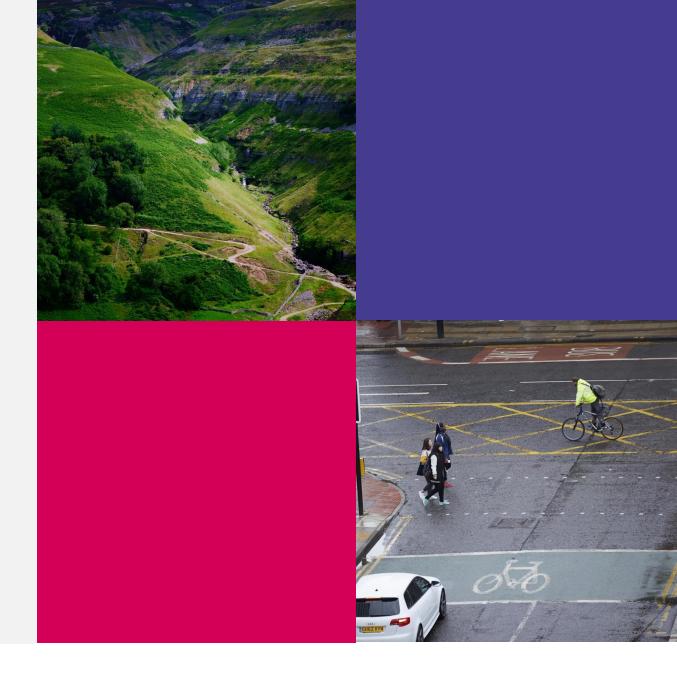
CUSTOMER EXAMPLES



WHAT'S NEW?



WHAT'S NEXT?



2 years since launching OS NGD



Previous releases

22/23



OS NGD Launch!

September 2022

- Redesigned data across 9 themes
- + New distribution services (OS Select+Build and APIs)



OS NGD Address

- + Floor levels, business names, classifications
- + OS Places daily currency



OS NGD Transport

- + Average and Indicative Speed
- + GB road width data

Sept 23



OS NGD Buildings

- + New geometry
- + Usage, connectivity and address counts
- + New Cross References



OS NGD Transport

- + Rail Network
- + Pavements
- + GB Coverage of Tracks and Paths



OS NGD Buildings

March 24

- + Age
- + Construction Material
- + Basement Presence



OS NGD Structures

+ Field Boundaries



OS NGD Land Cover

+ Habitat classifications and % coverage

☐ Network

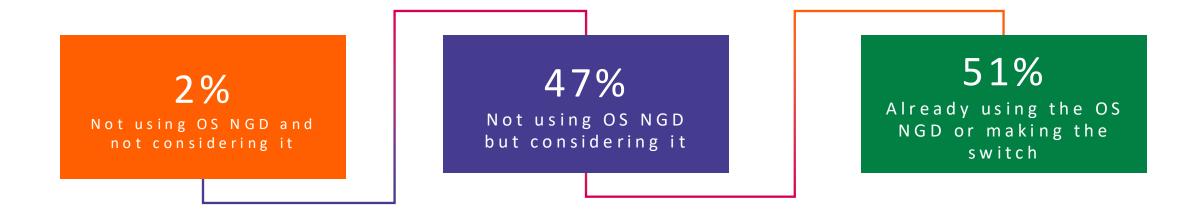
Multi-Modal Routing



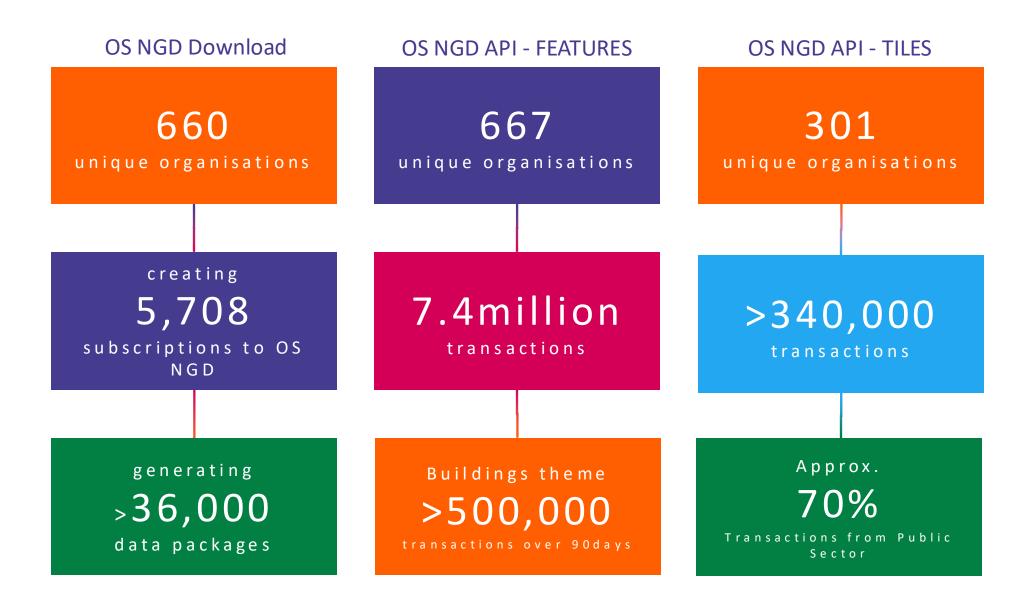
Emergency Services Gazetteer

And so much more..!

How much are YOU using the OS NGD



Usage of OS NGD Data



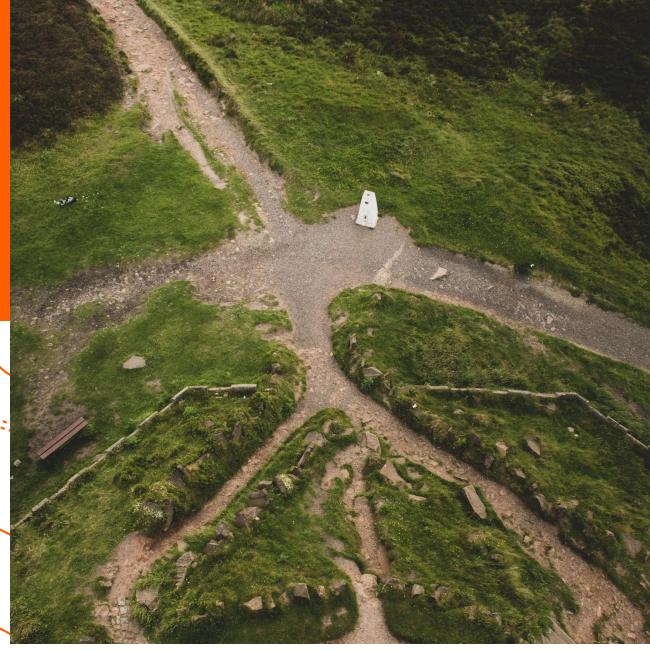




Customer Examples

How are you using our latest offerings?





Creating sports facility catchment areas



The new MRN will allow users of Active Places
Power to calculate drive, walk and cycle catchments from sports facilities.



Using the MRN meant
less preprocessing as
speed data and the
presence of pavements
are included in the
dataset.



Active Places Power and the catchment area tool guide investment decisions and support strategic planning for sports provision.



The MRN is **invaluable** for geospatial analysis, offering **excellent accuracy** and comprehensive coverage. The **reduced processing time and additional attribution**, when compared to previous products, allowed the fast development of new tools and will assist greatly in keeping the network inputs up to date in the future

- Liz Clarke, Head of GIS, Sport England









Active Travel England's Scheme Tool

+

Active Travel England created a tool to view active travel schemes with important context, helping judge suitability for funding.



OS NGD data has been used to investigate the amount of road space available, and average speeds and speed limits.



This has allowed
ATE inspectors to easily
review proposed
schemes.

"

Ordnance Survey's data on **carriageway and footway widths** is delivering valuable insights that enable Active Travel England to better understand our highways network. **This supports our mission to make walking, wheeling, and cycling more accessible for everyone.**

Nicos Taylor, Inspector, Active Travel England





Analysing Vacant & Derelict Land

+

Defra is analysing
"Vacant & Derelict land"
to identify areas that
have potential for
increased levels of
woodland.



OS NGD Land, Sites and Address data alongside 3rd Party datasets have been used to undertake the work



This work supports
planning and decision
making for Government's
aim to increase woodland
cover in England to 16.5%
by 2050.



With increasing pressures on land use, the timely delivery of this project provides the **solid evidence base** that's necessary to underpin developing policy.

- Edward Matthews, Defra Vacant and Derelict Land lead





Customer Sentiment

"

A huge improvement on previous method of ordering... OS NGD is a huge step forward

- Easy process, decent instructions. Excellent data which is straightforward to manipulate and interpret in GIS
- OS NGD is an incredible tool that can only get better! My imagination runs wild with all the recipes I can think of, and it takes no time at all to do! Game changer!

"

The NGD will provide us with a flexible way for our customers to access and use data

"

NGD is the go-to for accessing OS data and data extracts are widely used across the council

The NGD allows me to get much more refined data, much quicker. Everything is slicker, smoother, and easier to access. I can run analysis quicker because I don't have to include tons of extra data that I don't need.



WHAT'S NEW AND NEXT?

Recent and short-term enhancements



September 24: What's New?

OS NGD LAND USE



Enhanced Land Use Attribution



Enhanced topographic features attribution

OS NGD STRUCTURES



Bridge **Interactions**

OS NGD BUILDINGS



Number of Floors





September 24: What's New?

OS NGD LAND USE



Enhanced Land Use Attribution

+ New classification schemes



Increased Completeness

+ Greater coverage for both Residential and non-residential sites



Enhanced topographic features attribution

+ Land Use attribution now present on component parts

OS NGD STRUCTURES



Bridge Interactions

+ Attribution identifying the network passing over and under a bridge

OS NGD BUILDINGS



Number of Floors

+ The maximum number of occupiable floors at or above ground level



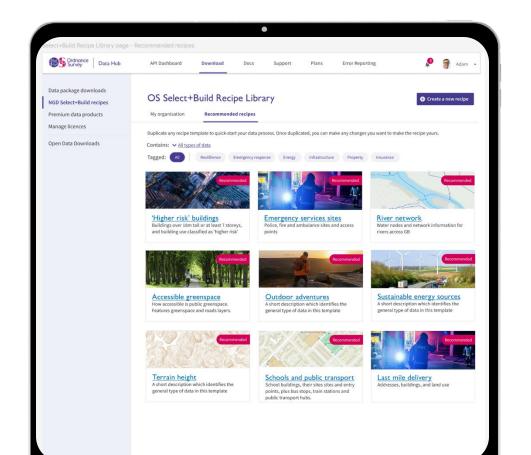
March 25: What's Next?

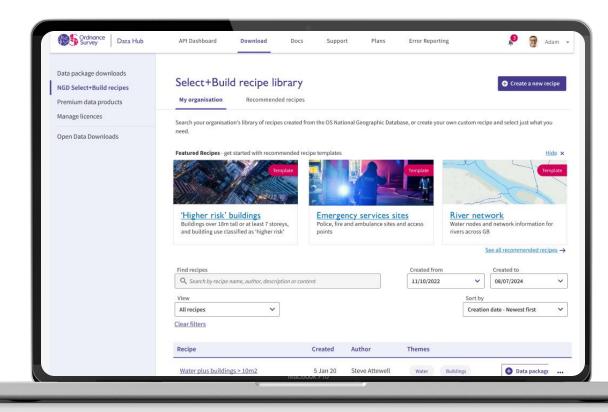
OS NGD BUILDINGS		OS NGD LAND USE	OS NGD GEOGRAPHICAL NAMES	EMERGENCY SERVICES GAZETEER
Roof Shape	Roof Aspect	Increased Coverage	Vernacular Names	Tunnels
Roof Material	Presence of Solar Panels	Increased Access Points	Tunnels	
Presence of Green Roofs	Access to PublicBuildings			

Building Height

OS Recommended Recipes

+ Pre-selected OS NGD data which meets your requirements and allows you to subscribe to updates. Making it even quicker and easier to get going.





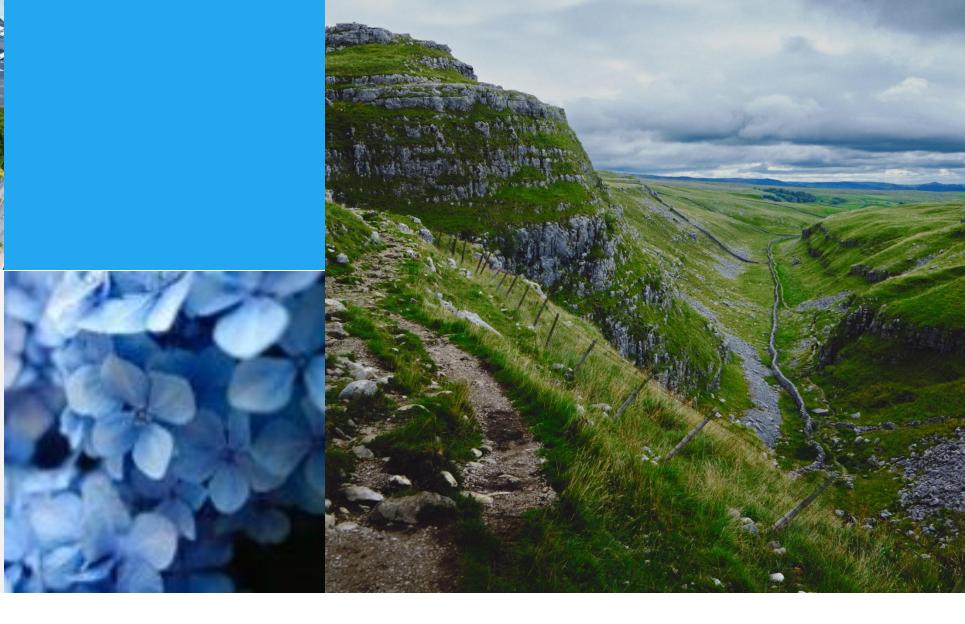
Be Part of the Design Team -





THANK YOU

Dean Paulley
Head of Product



ONS GEGRAPHY: Looking to the future

Olive Powell

Head of Geography / Geospatial



Office for National Statistics

Statistics for the public good

Informing the UK.
Improving lives.
Building the future.



ONS Geospatial & Geography Teams



What do we do?







Derive new insights from geospatial data sources



Provide expertise on complex location queries and spatial analyses



Build geospatial capability across the analytical function





Assist and advise on the geographic data visualisation



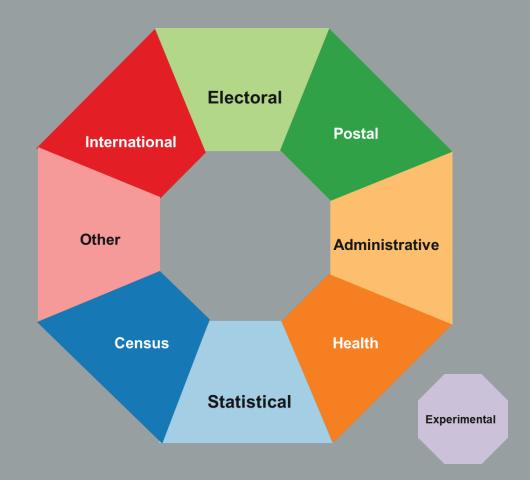
Maintain

existing &

create new

geographies

Office for National Statistics



https://geoportal.statistics.gov.uk/documents/ons::hierarchical representation-of-uk-geographies-december-2023/explore

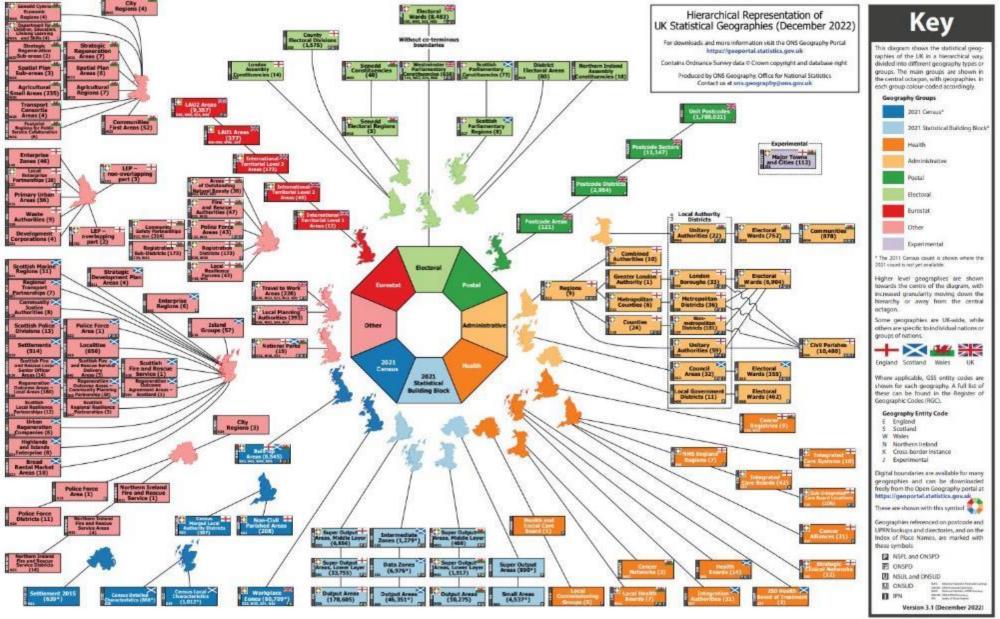
123 Geographies operative in the UK

10 Products (6) **Electoral:** 4 Products Postal: **Administrative:** 18 Products (14) **Health:** 13 Products (5) Statistical: 11 Products (6) 7 Products (4) Census: 55 Products (13) Other: International: 4 Products (4) 1 Product (1) **Experimental:**

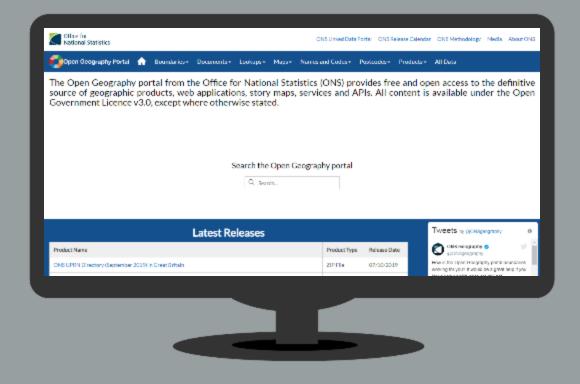




Office for National Statistics Hierarchical Representation of UK Statistical Geographies Hierarchical Representation of UK Statistical Geographies



How to access



ONS Geography Linked Data

This is the across priet for information on statistical geographics required to support the use of official statistics. It is designed to allow sense to discover, view and use peospotal data.

This site is complementary to the ONS Open Geography Portal it allows across directly to datas within the group poly products in machine-residable for mend using an Application Programming Interface.

A Linked Data companion site to the ONS Open Geography Portal

This site uses cookies, respects your privacy and works hard to be accessible to nature years.

Presented by SubMiddle, for a 600 in Study Chara reserve hip and financing academized as information and statistics.

Open Geography Portal (statistics.gov.uk)

ONS Geography (data.gov.uk)





Vision



Support outcomes for the UK public good through the smarter linking and integration of our physical and human geographies.







Four areas of focus

1

2

3

4



National Geographic Database



Cross-Organisation
Systems
Integration



Strategic
Alignment
of Data Strategies



Joint Data products for better analytical outputs

Benefits

- Cross government efficiencies
- Standardised data practices
- Increased data quality & timeliness
- Greater geospatial products for granular / targeted interventions



One Geo Marketplace

- Greater quality & consistency across datasets & documentation
- Improved comparability & usability through aligned metadata standards
- Greater functionality & flexibility in building geospatial datasets
- Saved time & resources!







Slido: #LOGCxPSGA2024



https://app.sli.do/event/2BUdrLqiUsudxUePWNm1ck

ONS.Geography@ons.gov.uk



Thanks!

ONS.Geography@ons.gov.uk





THE NEXT SESSION WILL START AT 13:40







AFTERNOON PROGRAMME

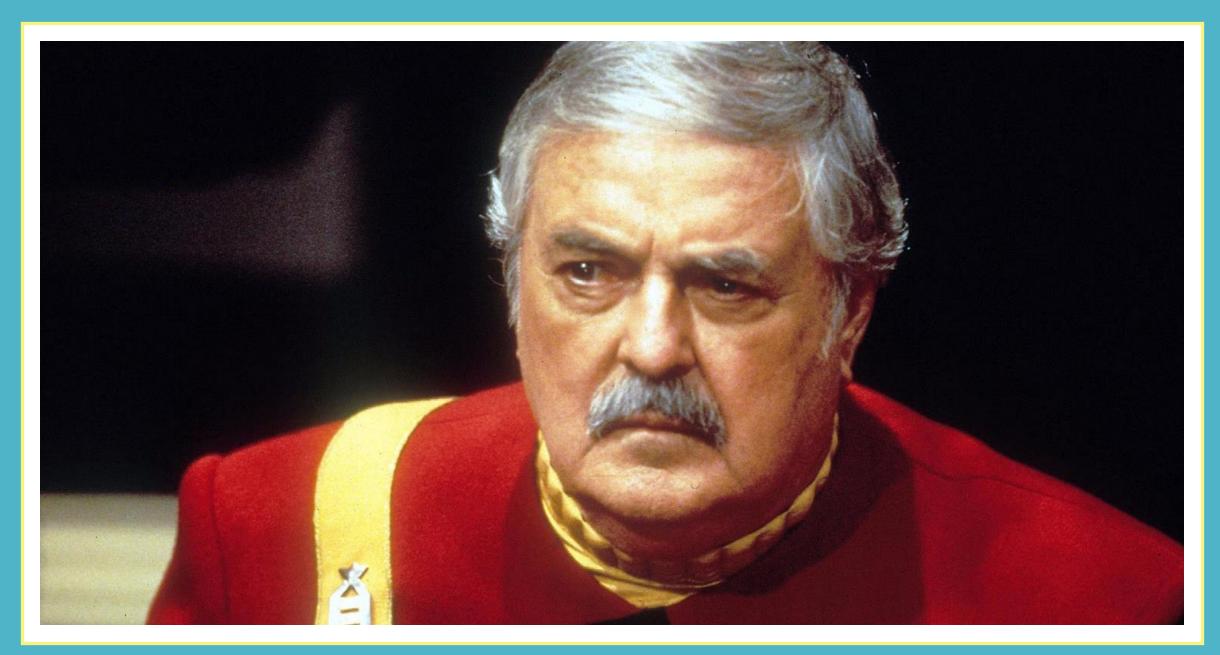
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16:00	Close		

Showcasing Change Over Time (SCOTi)

Steve Campbell

Ministry of Housing, Communities and Local Government

November 2024



Study the past, if you would divine the future

- Confucius



(© Getty images)

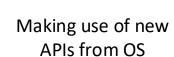
Background

Traditional longitudinal studies
Time Consuming to compile
Small scale (Geographically speaking)
Single policy focused

True story of Funding/Interventions/Incidents
Hard to draw rapid conclusions
Hidden by scale
Siloed conclusions

Initial Proposal







Look at how places have evolved over time



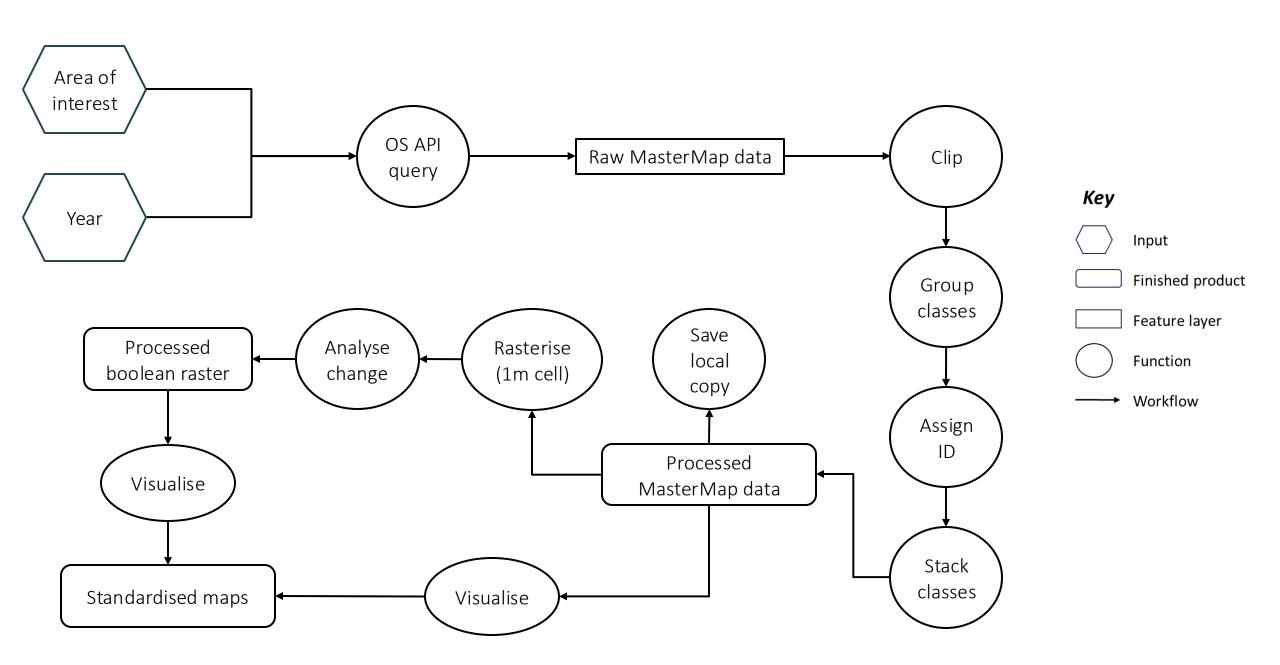
Overlaying multiple timeseries datasets to show detailed change





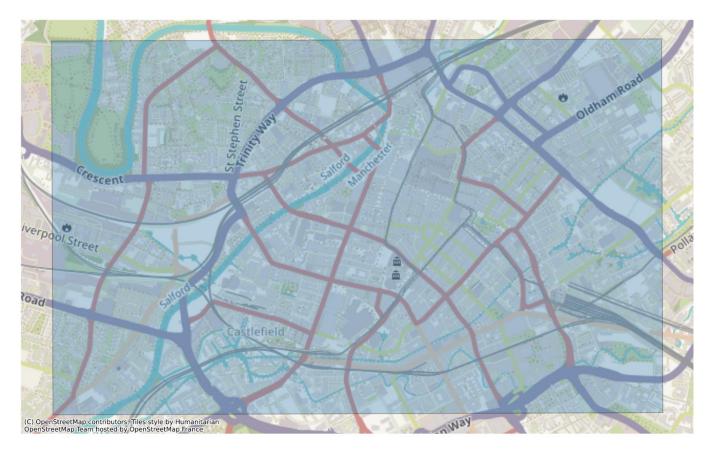


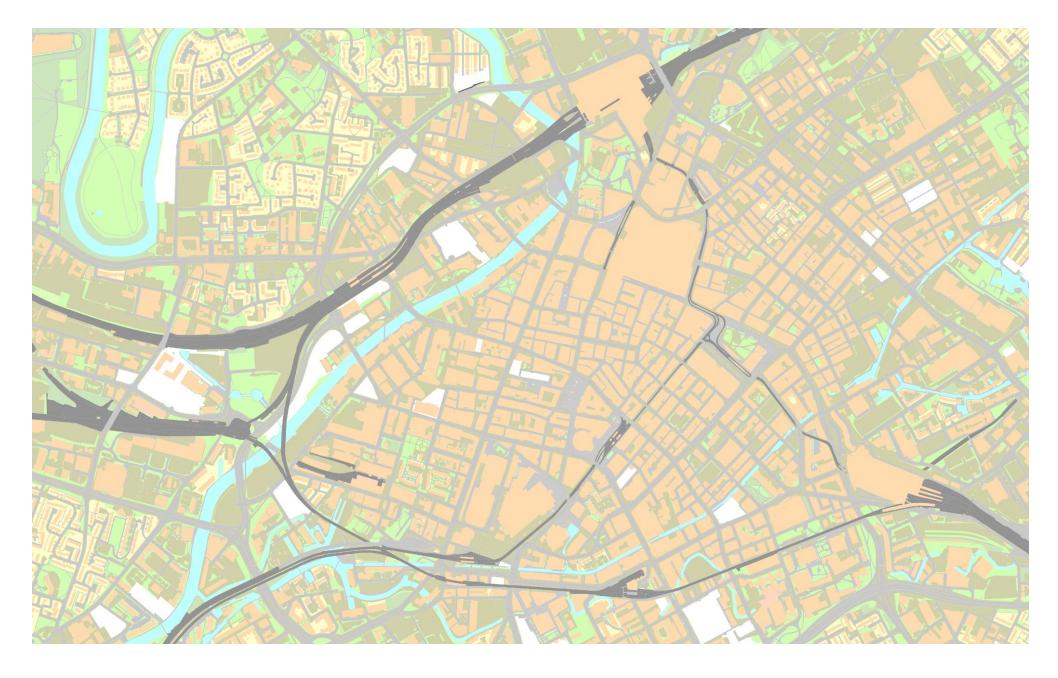
Causality Exploration



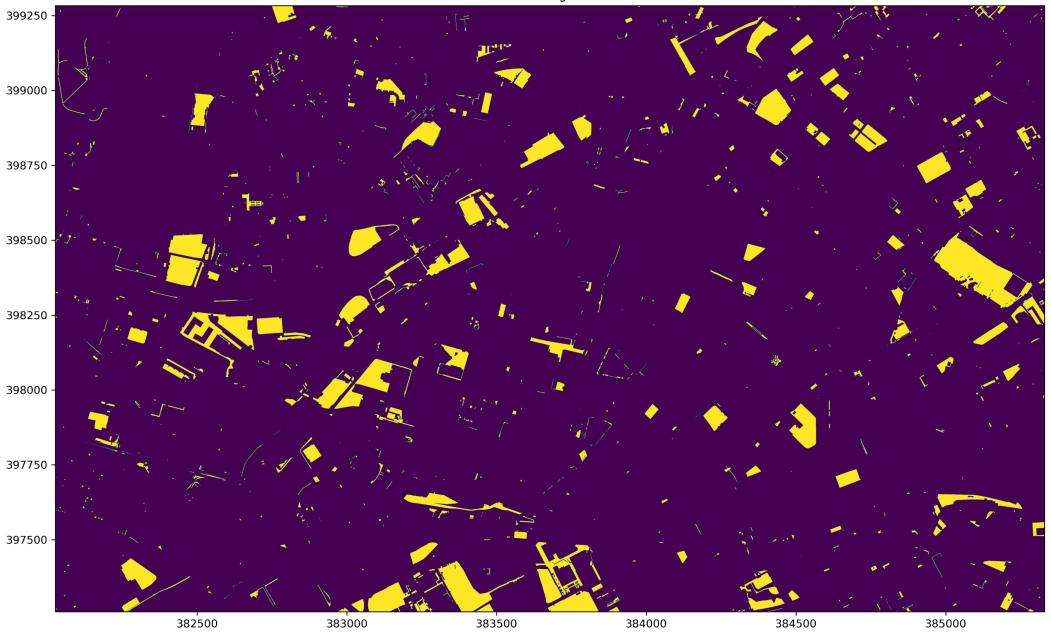
Manchester

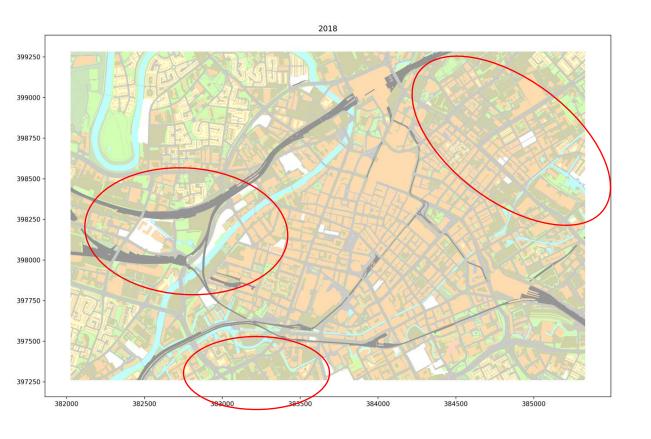
- City centre region
- Roughly 19km²
- Analysed a 15-year period (2008 2023)
- ~25k polygons per year
- Entire end-to-end process ~1 hour

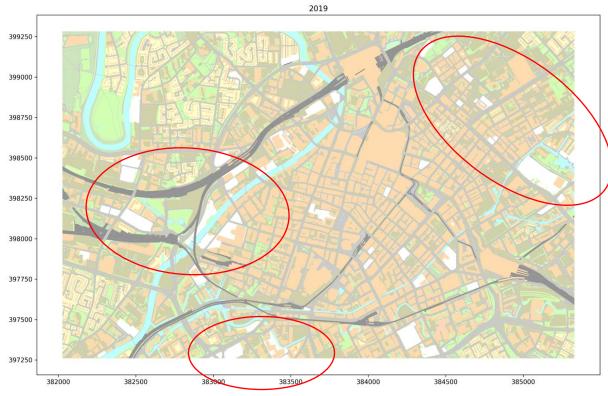




Change











AFEUR MINUTES LATER

Vision & Strategy

Our Vision:

To build capability within the DPM DU and more broadly to inform placebased decisions. This will ultimately address key priorities such as housing, planning, new settlements, and child poverty.

Our Strategy:

- To continuously collaborate with the DPM DU and stakeholders to enhance departmental capabilities.
- Additionally, shape and refine SCOTi to support the department's priorities by improving place-based insights.
- The data, techniques and skills developed on SCOTI will help further analytical techniques across DLHUC, X-Gov and the wider public sector (Devolved Administrations)

User Feedback

What has user feedback said about SCOTi:

To date, we have collaborated with GMCA to further develop SCOTi. Based on user feedback from GMCA, we have received positive feedback about developing SCOTi further for the purpose of supporting policy objectives.

What we have found:

Place-based data has been static to date:

- When comparing spatial data, GMCA have been doing this by layering.
- GMCA do not use much place-based data to inform policy, but there is a demonstrated need to improve this
- They hold over 400 datasets, but do not have the capability or capacity to combine any of this into single data bases.

GMCA have highlighted ways in which SCOTi could help inform policy:

- There has been specific demonstrated value for using SCOTi with EPC data to inform energy policy.
 - Fuel poverty is a big policy focus but have struggled with getting this at a granular level.
 - Interest in IMD/eligibility factors for grants and properties still below a certain energy threshold.
- Benefits for the application of SCOTi with land registry data has also been highlighted.
 - Residential spillover effects.
 - Track movement with EPICC going up.
 - Pushing domestic retrofit.

Use Cases

WHAT WE ARE CURRENTLY WORKING ON	WHAT DOES THIS DELIVER	
Analysis on EPCs and Energy Efficiency within Manchester	Improved insight and understanding for GMCA to deliver more effective policy	
Analysis on built environment on two specific sites in Manchester		
Partnership development with Ordnance Survey to refine and develop new ways of data sharing.	Improve OS knowledge and expertise using new geospatial datatypes. This will prove beneficial to all public sector, and UK PLC over the coming years, through quicker data analysis speeds and more flexible data storage.	
Building connections across government and education with similar interests in SCOTi	Delivering further use cases and benefits from SCOTi	

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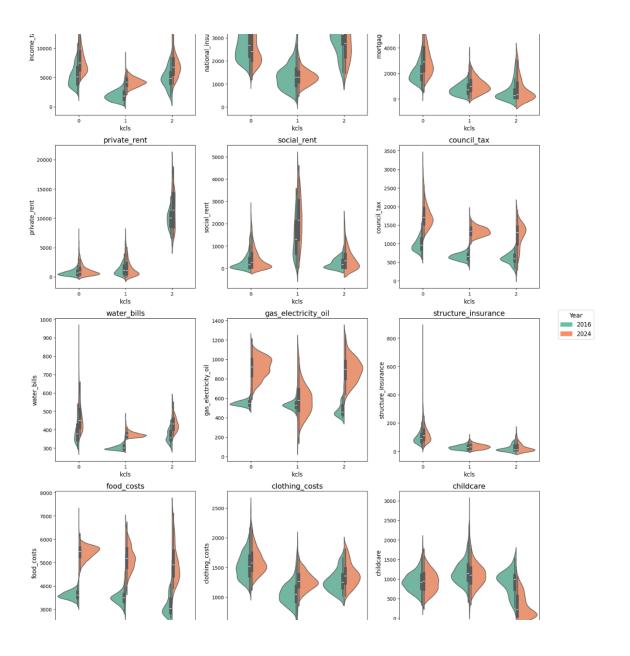
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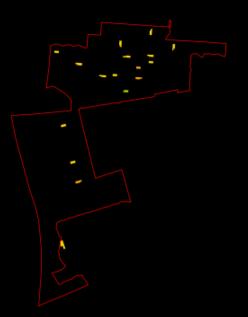
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Sample Results

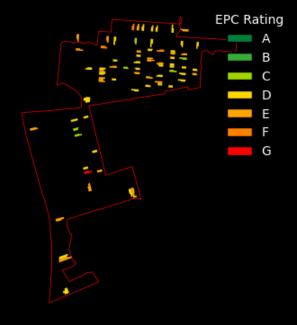


2016: Owner-occupied

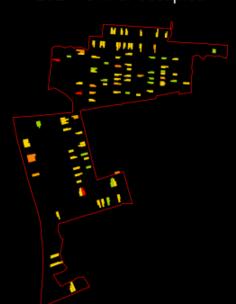
2016: Rental (social)



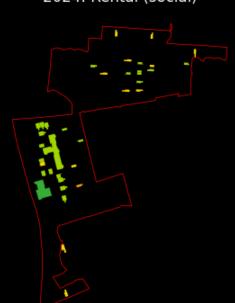
2016: Rental (private)



2024: Owner-occupied



2024: Rental (social)



2024: Rental (private)



How SCOTi is Adding Value

There are 3 main ways that the development of SCOTi is currently adding value

- 1. Access to new data
 - We now have access to, and better understanding of, datasets we did not have access to before
 - The SCOTi archive
 - Energy Performance Certificates
 - Income based data, plus connections to more organisations with data relating to energy retro fitting and smart meters
- 2. Value through partnerships:
 - Working on SCOTi has strengthened our partnership work
 - Working directly with Ordnance Survey has led to greater understanding of their content, and for Ordnance Survey greater insight in their forward direction for product and data delivery.
 - Gained further insight into GMCA's policy priorities and how we can support them, as well as potentially other devolved administrations.
- 3. Building capabilities:
 - Improving capabilities across DPM DU
 - Work on SCOTi has pushed the team's knowledge and understanding across multiple datasets
 - Learning and development on models and statistics have been transferable to other applications across DPM DU, supporting the work on new towns and ATLAS

APGB Presentation

Geospatial Commission Contracts Regional Conference London 2024

Ralph Coleman, Bluesky International Ltd.







APGB Introduction

- What is APGB?
- Core Products
- Case Study
- What's new?
 - 5cm
 - 25cm DSM
 - Lot 3
 - Moving toward a 2 year update programme







12.5cm Aerial Photography (RGB) | Location: Essex







50cm Colour Infrared (CIR) | Location: Essex







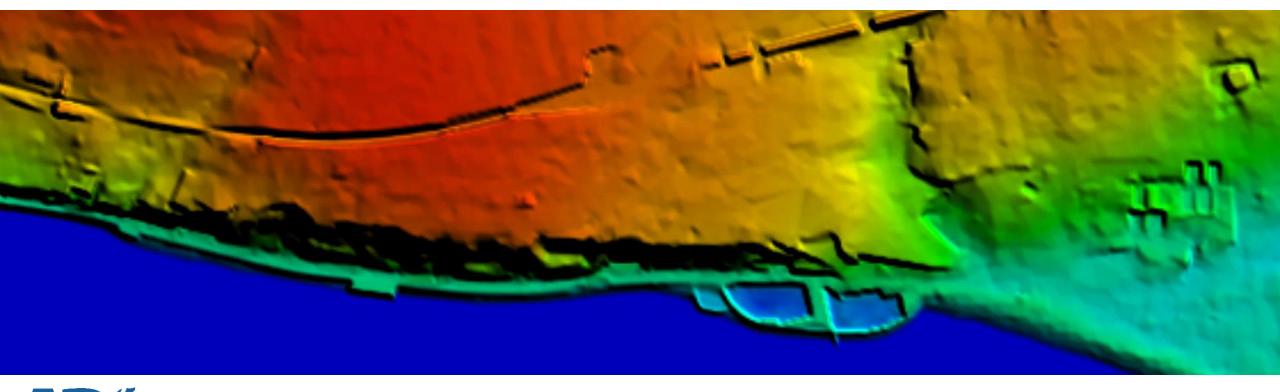
2m Digital Surface Model (DSM) | Location: Essex







5m Digital Terrain Model (DTM) | Location: Essex







APGB Case Study The Mersey Forest Partnership

Client: The Mersey Forest is created from a partnership of local authorities (Cheshire East, Cheshire West and Chester, Knowsley, Liverpool, Sefton, St.Helens, Halton and Wirral), landowners, the Forestry Commission, Natural England, Environment Agency, businesses, and local communities.

Summary: The Mersey Forest's Natural Flood Management (NFM) team are working to create effective and sustainable flood prevention and reduction measures. Their ethos is to protect what is there, to restore and to mimic nature. Additionally NFM should improve water quality, biodiversity, habitats and climate resilience.

Challenge: Over the past decades and centuries, people have changed the course of river paths. In UK cities in particular we have a heavily modified water network. This was primarily due to the need in the post-war era to make the land more productive. However, it is now apparent from these historic changes coupled with the effects of climate change, that there is a need to slow down water flow and store water in upper catchment areas.

Hard engineering is incredibly expensive and not particularly aesthetic so natural flood management solutions need to be found.





APGB Case Study The Mersey Forest Partnership

THE MERSEY
FOREST
more from trees

Solution: Using Bluesky's 12.5cm aerial imagery and Height data via the APGB download portal, the Mersey Forest are able to create flood management interventions that can then be introduced to land owners and community groups.

The aerial data enables clear plans to be shared with contractors and land owners for cost effective flood management solutions that are sympathetic to the natural environment.

Results: Using Bluesky's data has enabled a time and resource efficiencies, saving time and cost because the team are able to assess exactly what materials contractors need for natural flood management projects.

They can see where there is a need to intercept water and slow it down by knocking the peak flow off meaning there is lower water levels.

The data has resulted in the team being able to provide comprehensive end-to-end reviews from the initial appraisal through to the design and delivery on-site and future monitoring.





5cm Aerial Photography

5cm aerial photography of 25 cities is available to APGB Members via the Mapshop and Web Services. More to come!

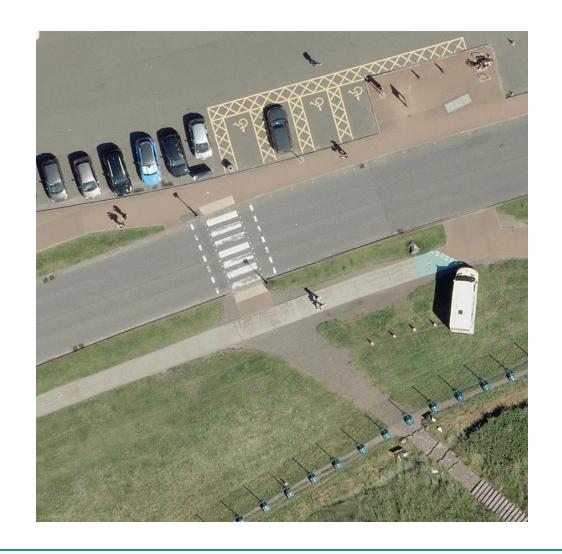






5cm Aerial Photography

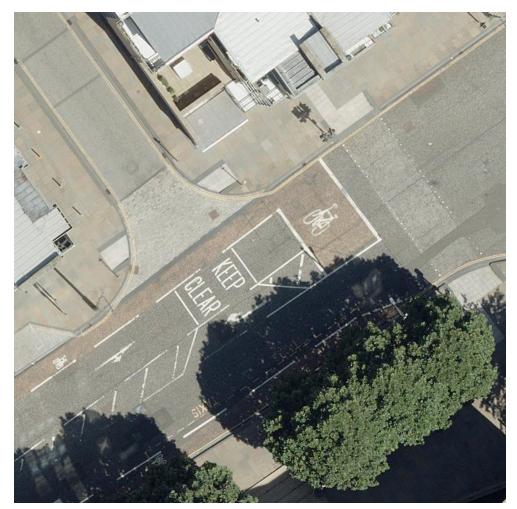
- Clearer, sharper, richer
- Increased accuracy
- Applications:
 - Planning enforcement
 - Asset inventories
 - o Al/ML
 - Event planning
 - Security
 - Urban greening/BNG







5cm/12.5cm Aerial Photography Comparison

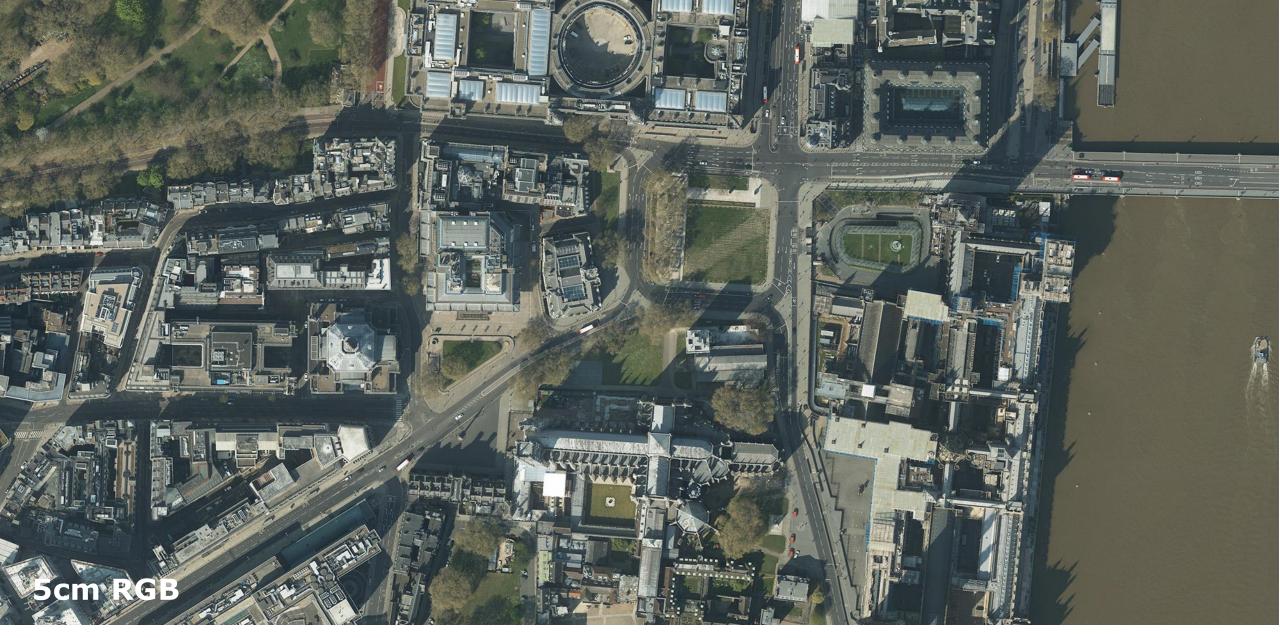






12.5cm









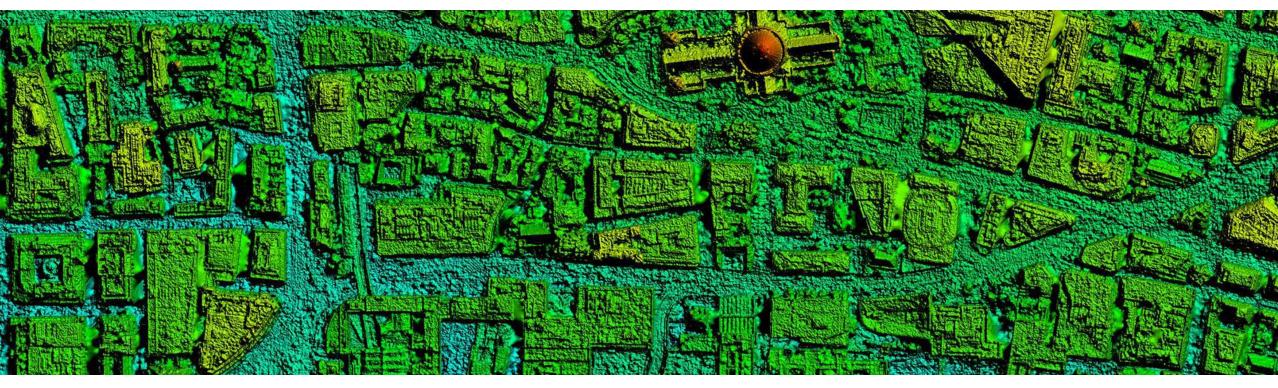






25cm DSM

25cm DSM for Great Britain is available to APGB Members by request

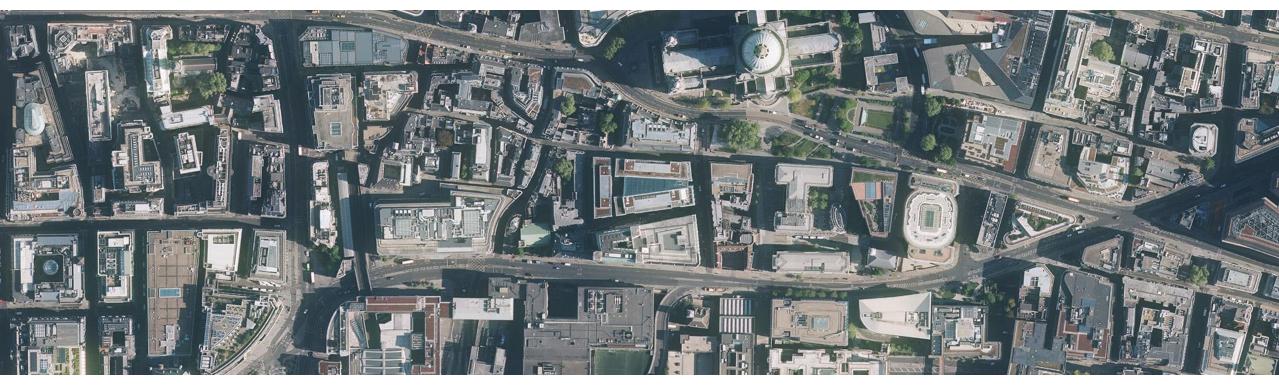






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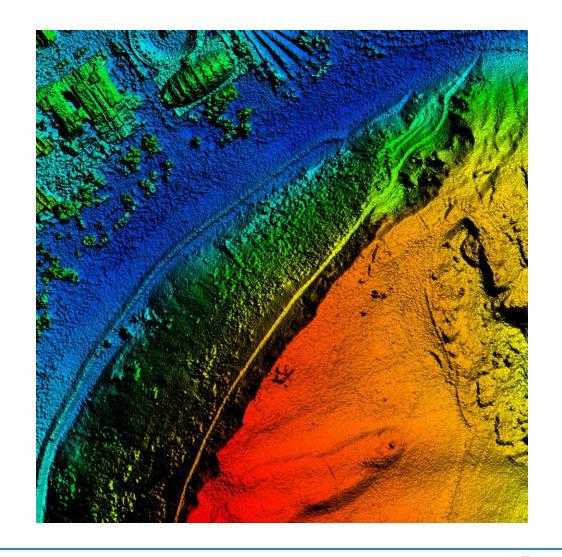






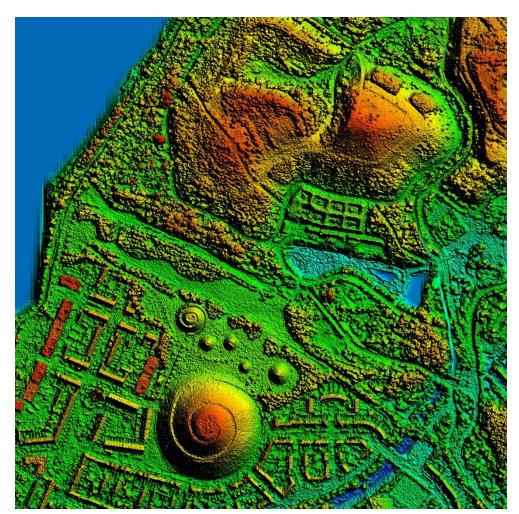
25cm DSM

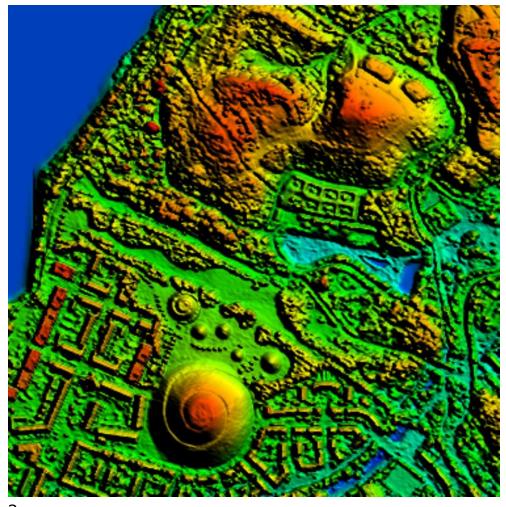
- Denser, more detailed surface
- Feature rich
- Increased accuracy
- Increased number of applications for:
 - LoS/ZVI analysis
 - Visualisations/Public engagement
 - Change detection
 - Land use analysis
 - Infrastructure/Urban planning









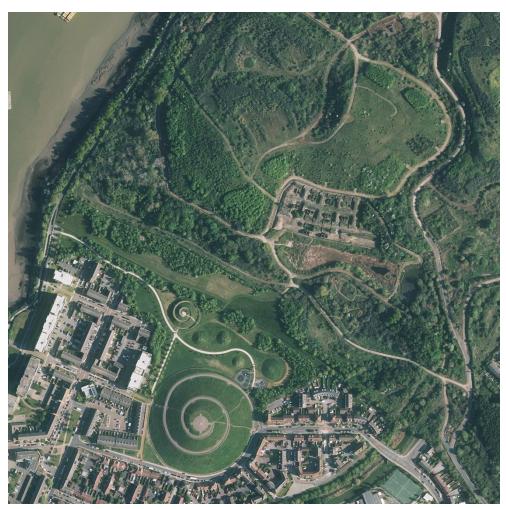




2m



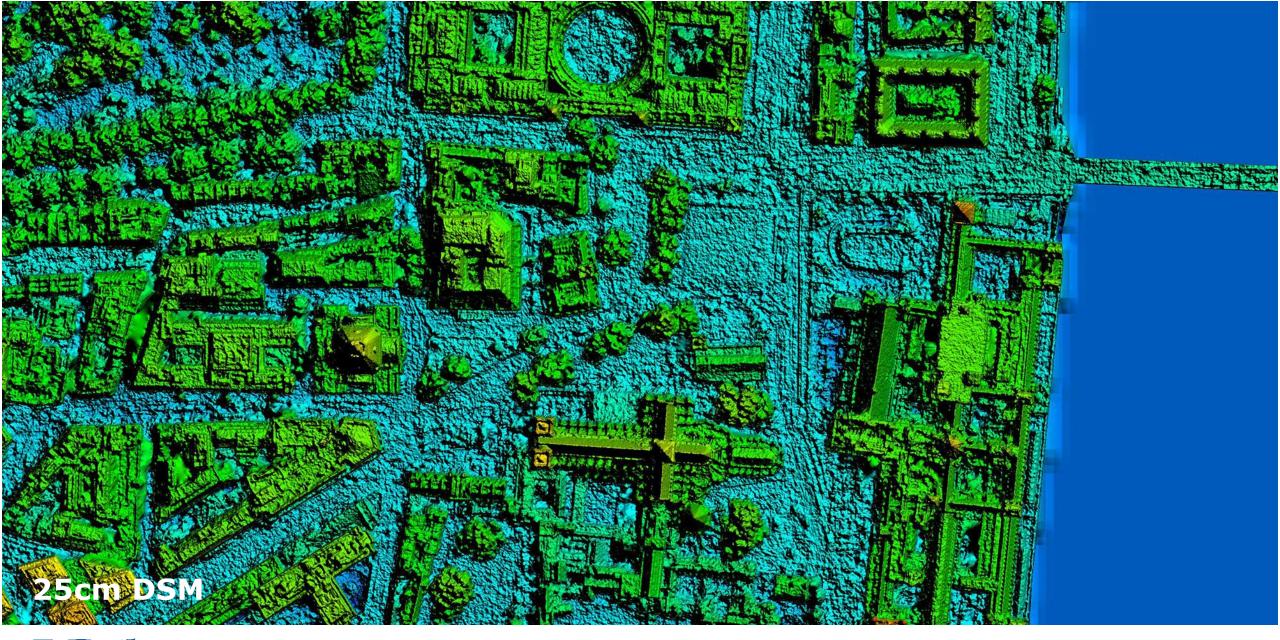






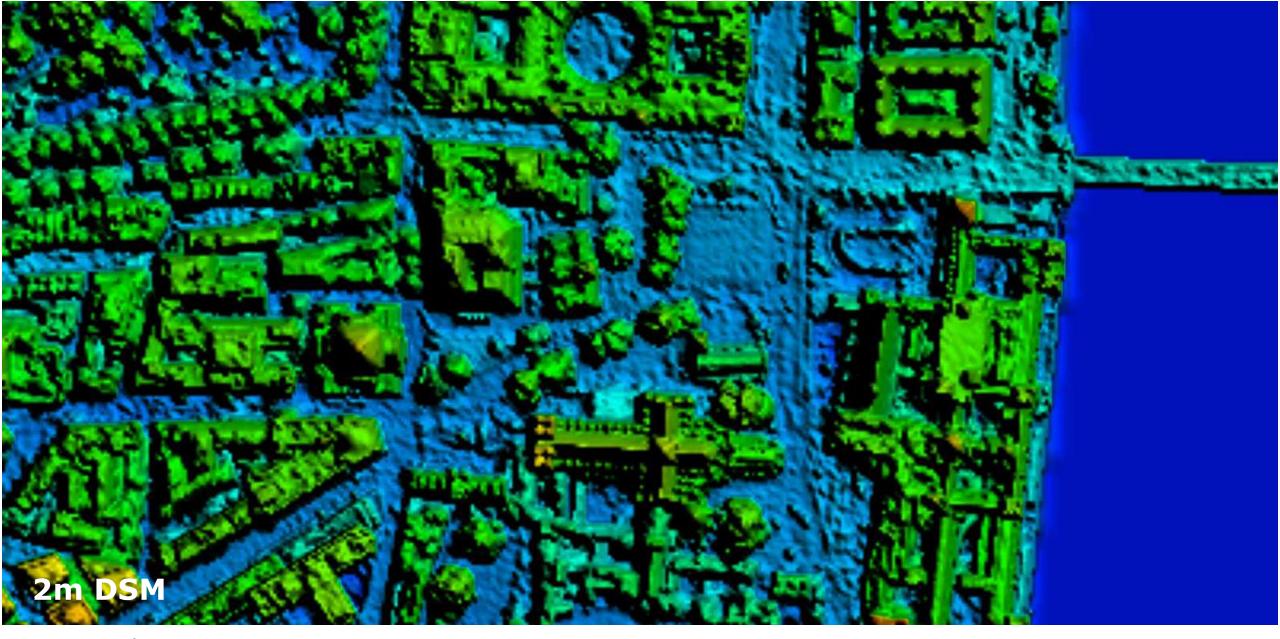
2m











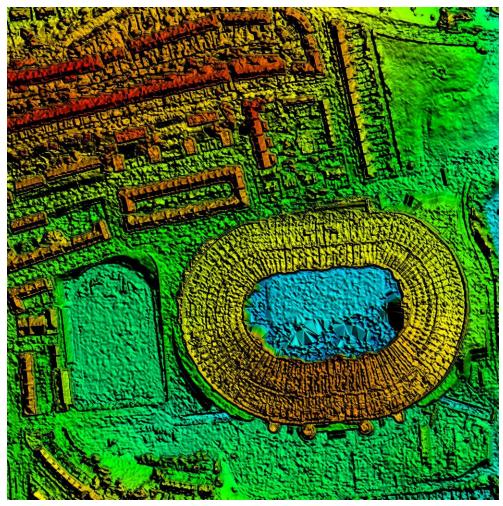


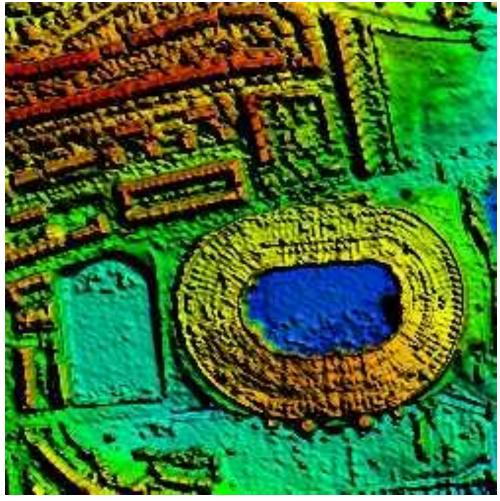










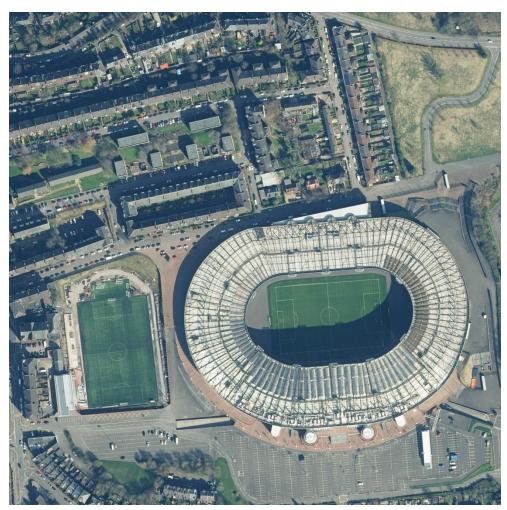














25cm

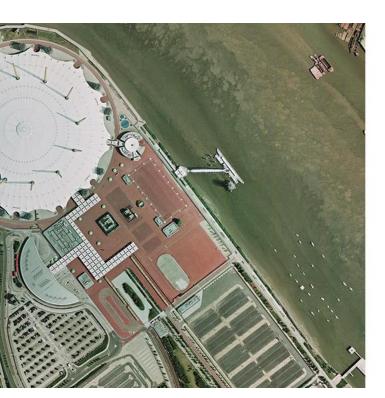


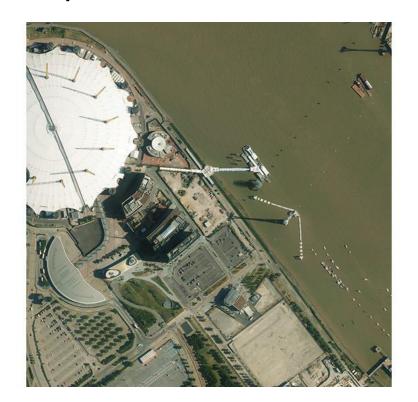


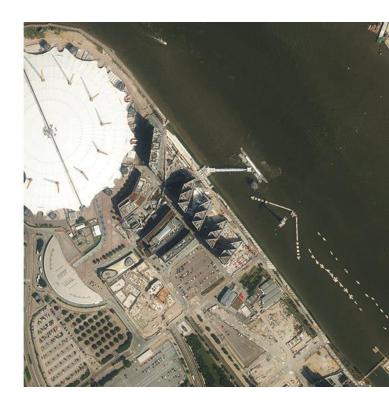


Historical Aerial Photography

Historical Photography dating back to 1999 is available to all members via the Mapshop & Web Services.

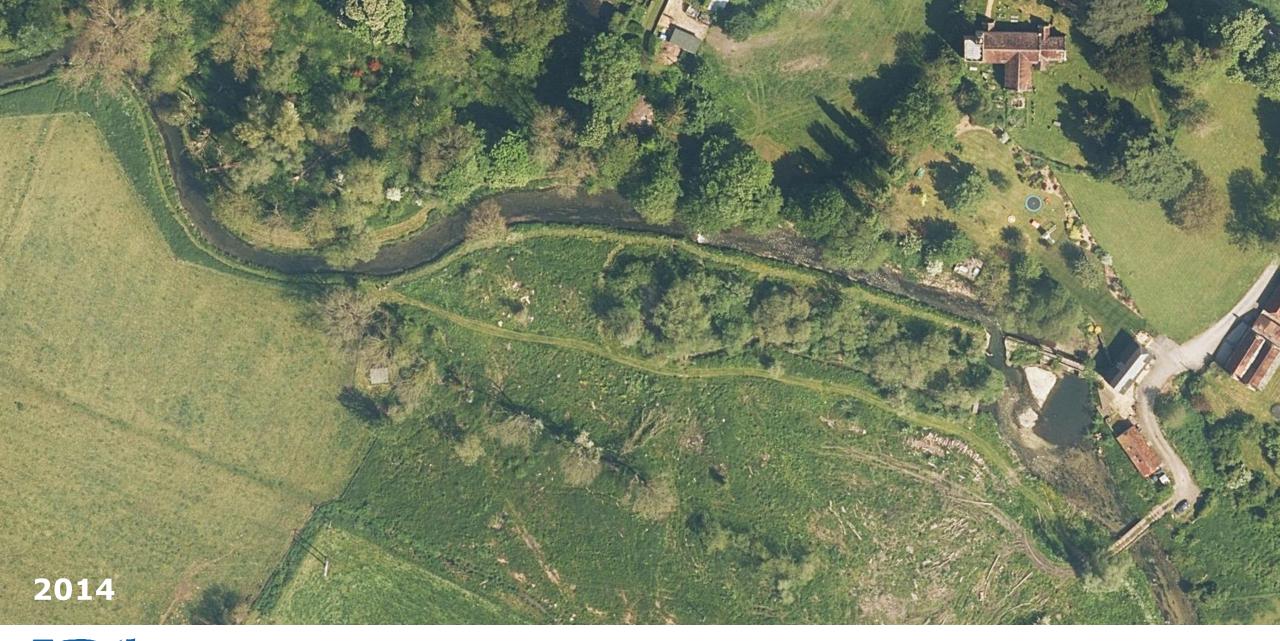






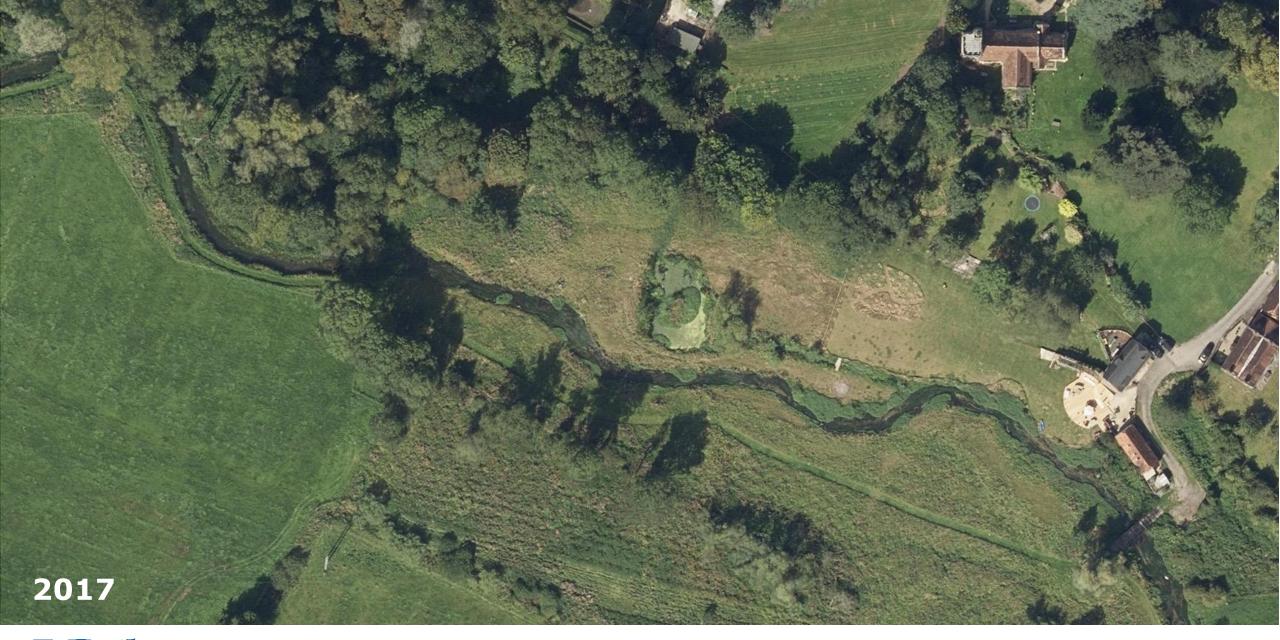






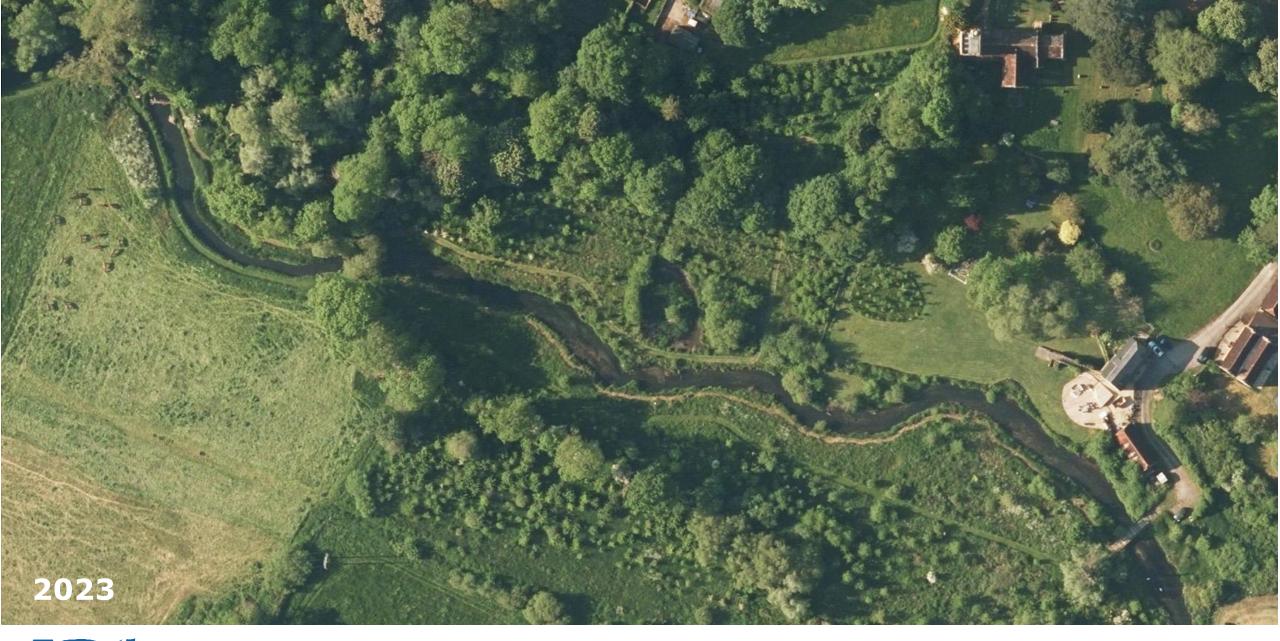
















APGB Stats

Nine new Unique Members in this contract:
 Crown Estate Scotland, East Suffolk District Council, South
 Derbyshire District Council, The North East of Scotland Transport
 Partnership, Worcester City Council, Crofting Commission,
 Clackmannanshire Council Oadby & Wigston Borough Council

492 Members have signed the new licence

• **2,414,802 sqkm** sqkm already delivered. 14% increase on the same period in 2023

16 orders of 5cm Aerial Photography





APGB FAQs

Can my sub-contractors access the Products?
 Yes, as long as a signed Sub-contractor Licence is in place they can access the Mapshop and Web Services

What copyright statement needs to be used?

Lot 1: © Bluesky International Ltd

Lot 3: © Bluesky International Ltd and Getmapping Ltd

 How do I see if my area has been updated?
 The planned flying, capture updates and currency shapefiles of all products are available at APGB.co.uk





Thank you

Bluesky International Ltd Ralph Coleman









Introducing the NEW APGB Web Services APGB Lot 2

GC Public Sector & PSGA event

Aerial Photography and Height Data Web Services

- OVERVIEW OF SERVICES
- MEMBER USAGE
- PERFORMANCE DATA

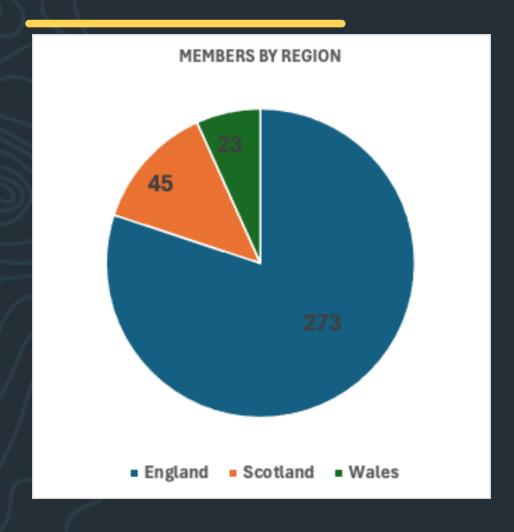


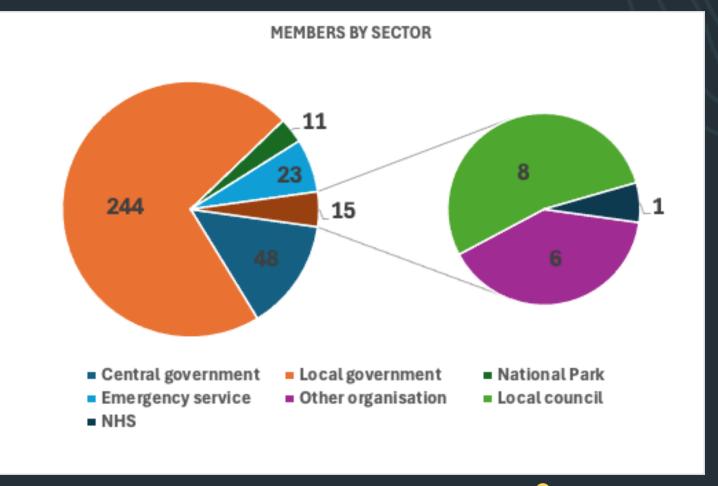
APGB WEB SERVICES OVERVIEW

- SERVICES
 - WMS / WMTS
 - WFS
- DATA
 - AERIAL PHOTOGRAPHY (RGB) 12.5CM
 - COLOUR INFRARED AERIAL PHOTOGRAPHY (CIR) 50CM
 - DSM / DTM AS SHADED RELIEF
 - HISTORIC AERIAL PHOTOGRAPHY GOING BACK TO 1999
 - INDEX OVERLAY LAYERS FOR CURRENT AND HISTORIC DATA



APGB USAGE BY MEMBER







APGB MEMBER USAGE - WMS HEAT MAP



Hits
60001+
50001 - 60000
40001 - 50000
30001 - 40000
20001 - 30000
10001 - 20000
10 - 10000



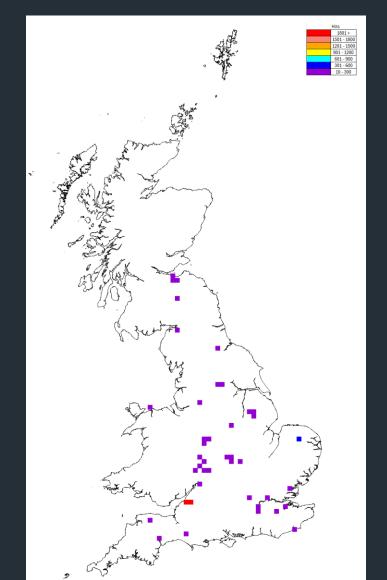
APGB MEMBER USAGE - WMTS HEAT MAP

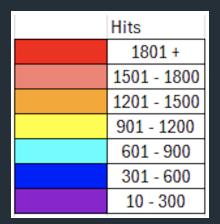


Hits
120001 +
100001 - 120000
80001 - 100000
60001 - 80000
40001 - 60000
20001 - 40000
10 - 20000



APGB MEMBER USAGE - WFS HEAT MAP

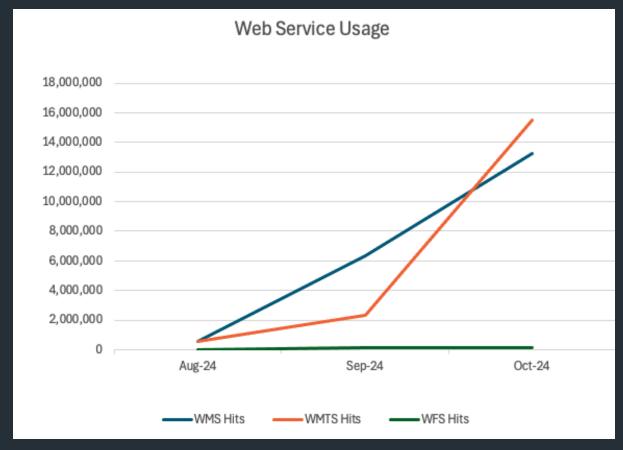






APGB MEMBER USAGE - TOTAL HITS

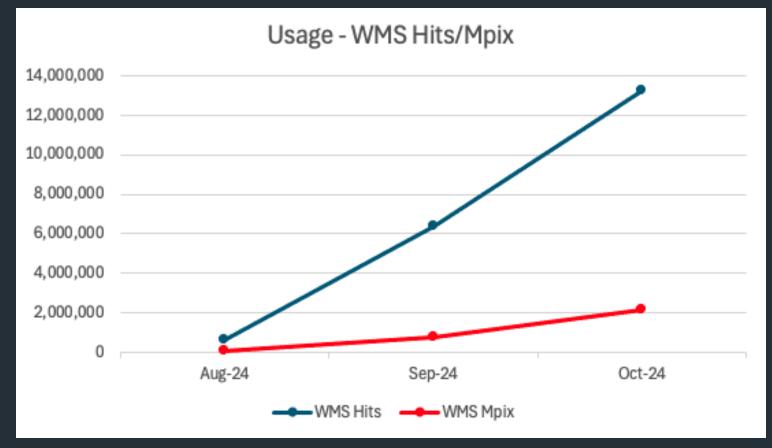
MEMBER SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE - WMS HITS/MPIX

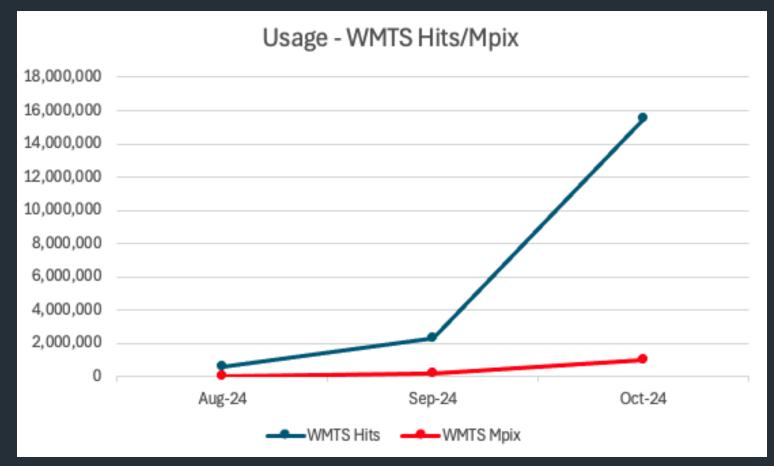
MEMBER WMS SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE - WMTS HITS/MPIX

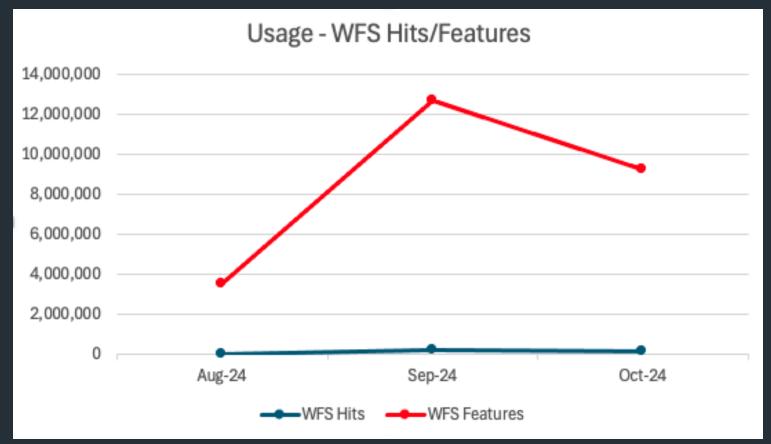
MEMBER WMTS SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE - WFS HITS

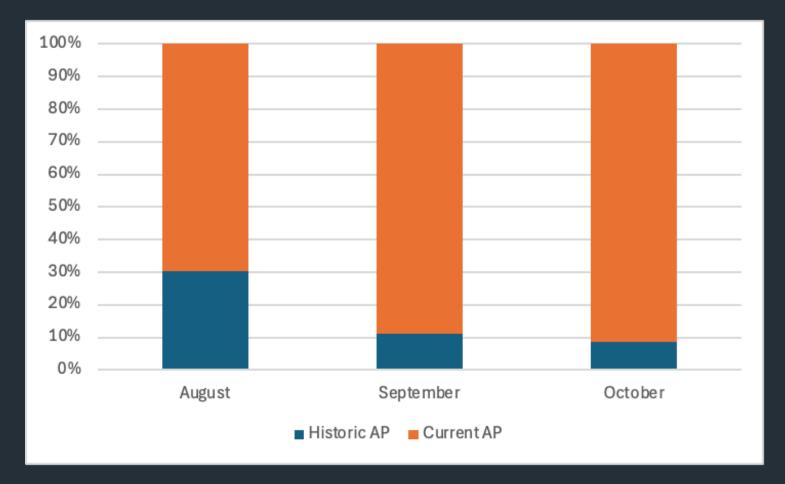
MEMBER WFS SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE – HISTORIC AP USAGE

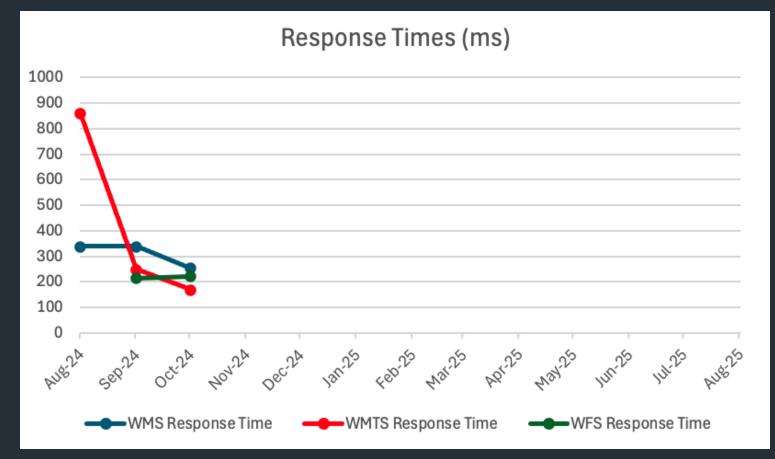
MEMBER HISTORIC / CURRENT SERVICE RESUESTS (AS PERCENTAGE OF TOTAL)





APGB PERFORMANCE DATA

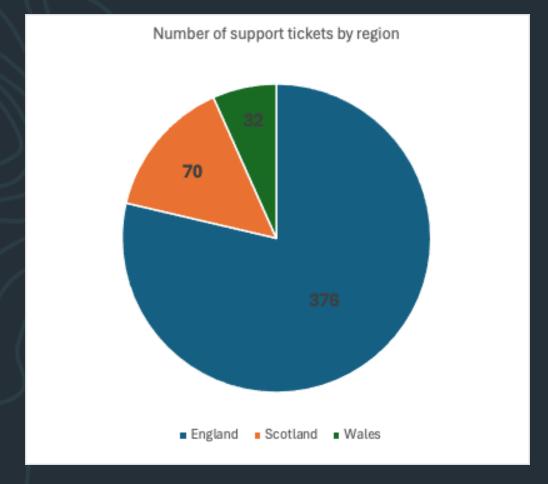
SERVICE PERFORMANCE BY MONTH

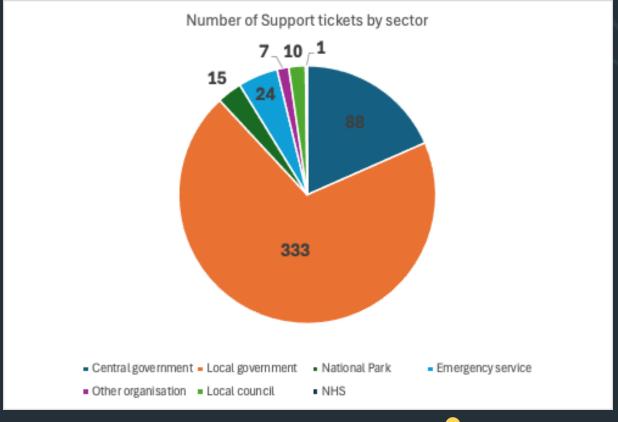




APGB LOGGED TICKETS

TICKETS LOGGED BY MEMBERS FOR THE REPORTING PERIOD







APGB LOGGED TICKETS

TICKETS LOGGED BY MEMBERS FOR THE REPORTING PERIOD

79% tickets are New feed requests



THANK YOU

Dave Horner/dhorner@getmapping.com



PSGA DEVELOPMENTS AND UPDATE

Nathan Davis

James Armstrong



EVERYTHING YOU SHOULD HAVE READ IN THE PSGA NEWSLETTERS, BUT PROBABLY DIDN'T HAVE TIME TO



PSGA Communications

- Newsletters for regular updates on the PSGA
 - latest data releases
 - webinars and events
 - latest case studies and blogs
 - product and service updates
 - sign up at <u>os.uk/psganews</u>
- **OS website** for latest PSGA news, blogs and over 20 case studies published so far this year for inspiration on use cases
- Webinars delivered by OS product, data and licensing experts
 - 13 PSGA webinars hosted in 2024
 - webinar recordings available on the PSGA members area
- Social media follow Ordnance Survey on X, LinkedIn and YouTube











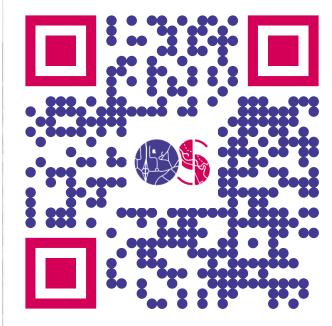
View in browns



Registration for this year's annual regional events is open!

The Geospatial Commission and Ordnance Survey (OS) are hosting in-person events this autumn. Discover the value of geospatial to the public sector and get the support you need from OS and Aerial Photography data experts and OS Channel Partners.

Places will be awarded on a first come first served basis, so sign up today!



OS Data Hub

 Delete and edit recipe name now available in OS Select+Build

 BGS Open datasets available via the OS Data Hub

New OS Data Hub workspace functionality

Data Hub New workspace

Welcome to Workspace!

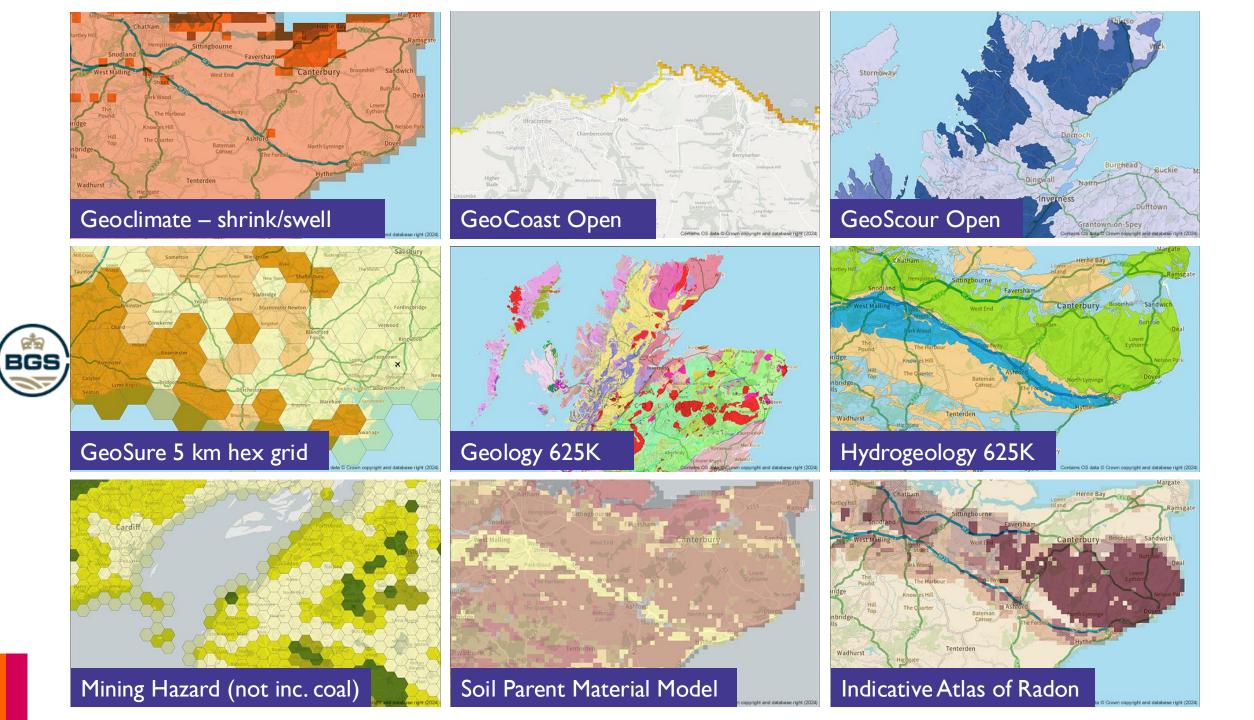
Your new workspace brings all your projects, downloads, and API usage all together in one place. You can also:

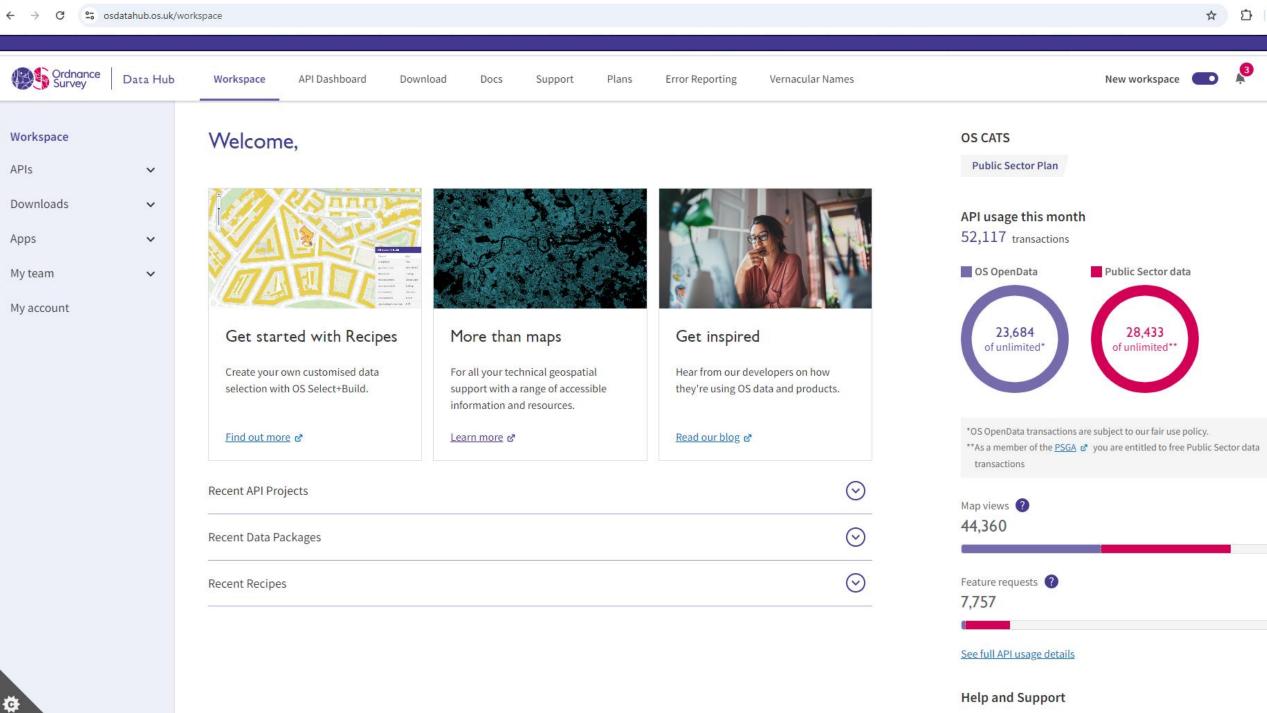
- · Find our latest documentation and support
- · Track your most recent activity
- · Get the latest product updates and features



Start using workspace

nect build.	information and resources.	triey re using 03 data and
	<u>Learn more</u> ♂	Read our blog ♂





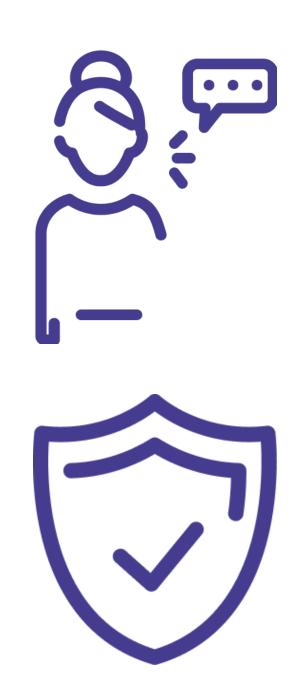
Pricing and Licencing

 Updated PSGA Member Licence (May 24) available with some updated URLs. Latest version of the licence is on our website:

PSGA Member Licence v 3.0

• Updated PSGA licensing guide available that simplifies the guidance around sharing OS data and publishing your derived data.

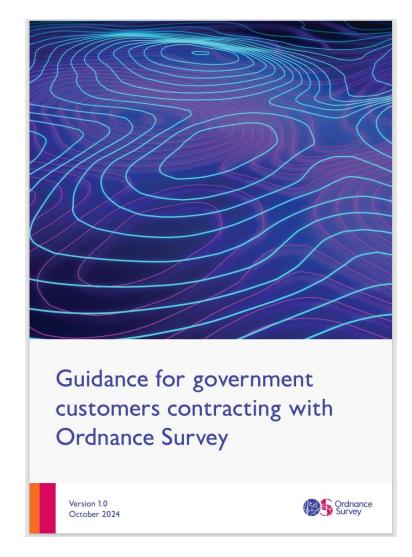
PSGA Member Licence Start Guide



Guidance for contracting with Ordnance Survey

- Your membership of the PSGA can facilitate the use of OS data, services and capabilities to deliver your outcomes.
- We've created guidance that helps set out additional options for accessing OS data and services that aren't covered by the PSGA

Guidance for government customers working with Ordnance Survey



OS NGD Enhancements – March 2024

NEW OS NGD DATA



OS NGD Buildings theme

- Simple building description
- Building age & construction material
- Basement presence



OS NGD Structures theme

 Location, nature and properties of field boundary



OS NGD Transport theme

Location of tram tracks



OS NGD Land Cover attribution

- Habitat classification schemes
- Percentage coverage of land cover



OS NGD Geographical Names theme

Names & location of road junctions

March 2024

OS NGD Enhancements – September 2024

OS NGD LAND USE



Enhanced Land Use Attribution

+ New classification schemes



Increased Completeness

+ Greater coverage for both Residential and non-residential sites



Enhanced topographic features attribution

+ Land Use attribution now present on component parts

OS NGD STRUCTURES



Bridge Interactions

 Attribution identifying the network passing over and under a bridge

OS NGD BUILDINGS

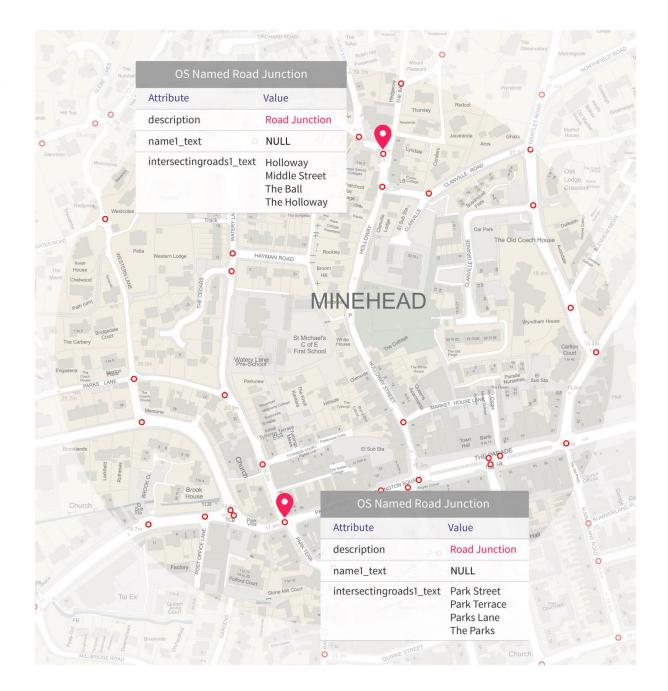


Number of Floors

+ The maximum number of occupiable floors at or above ground level

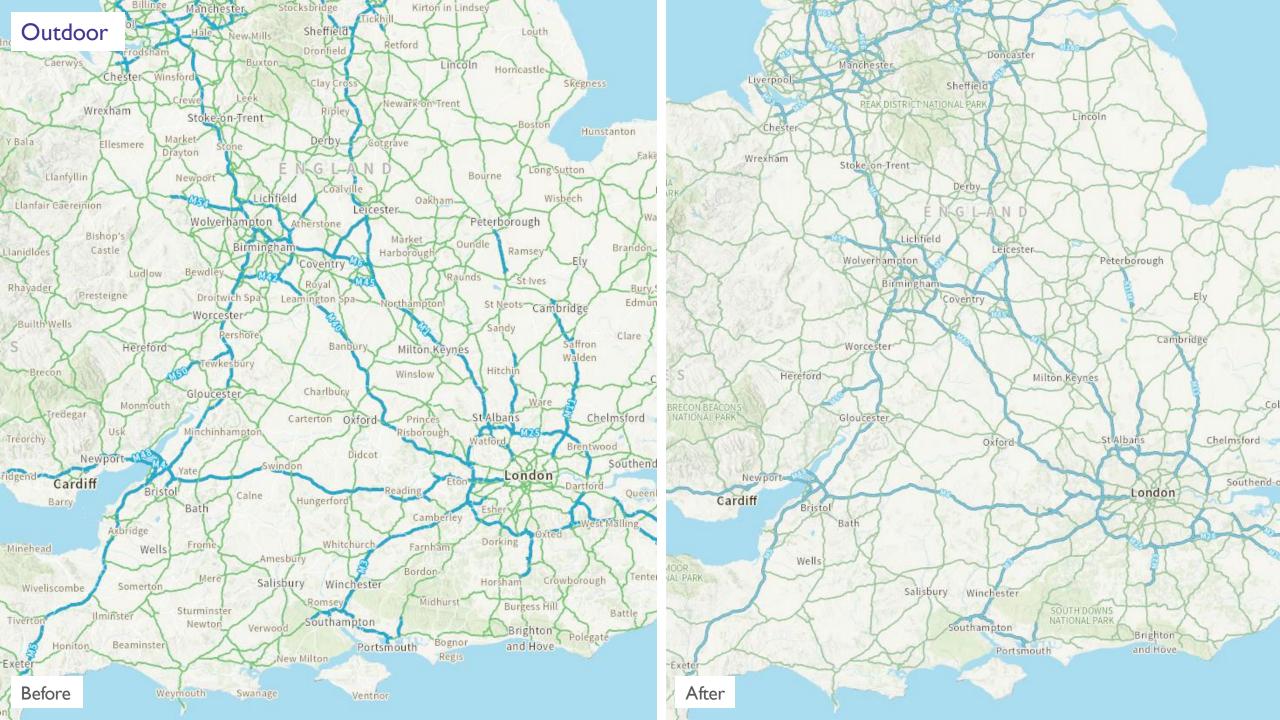
Other PSGA Product Updates

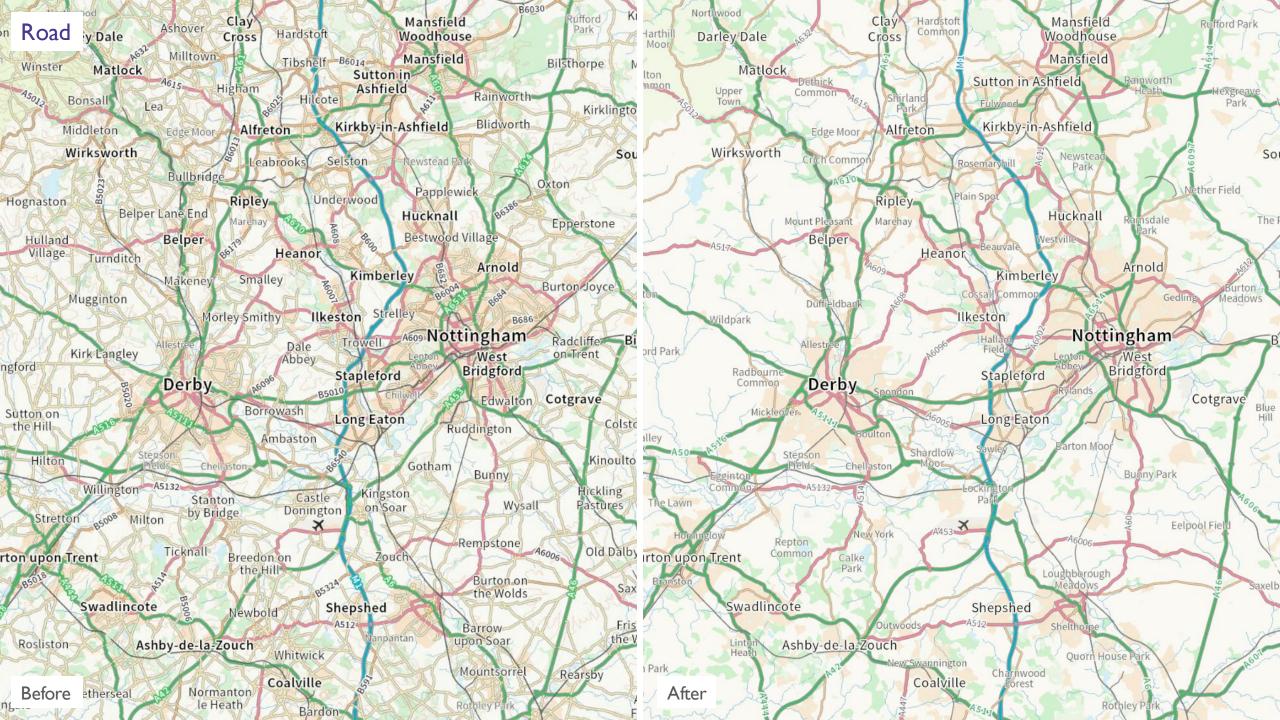
- Emergency Services Gazetteer
- Multi-Modal Routing Network
- OS VectorMap Local Vector (MBTiles) specification change in July release
- Improvements to OS Open Built-Up Areas

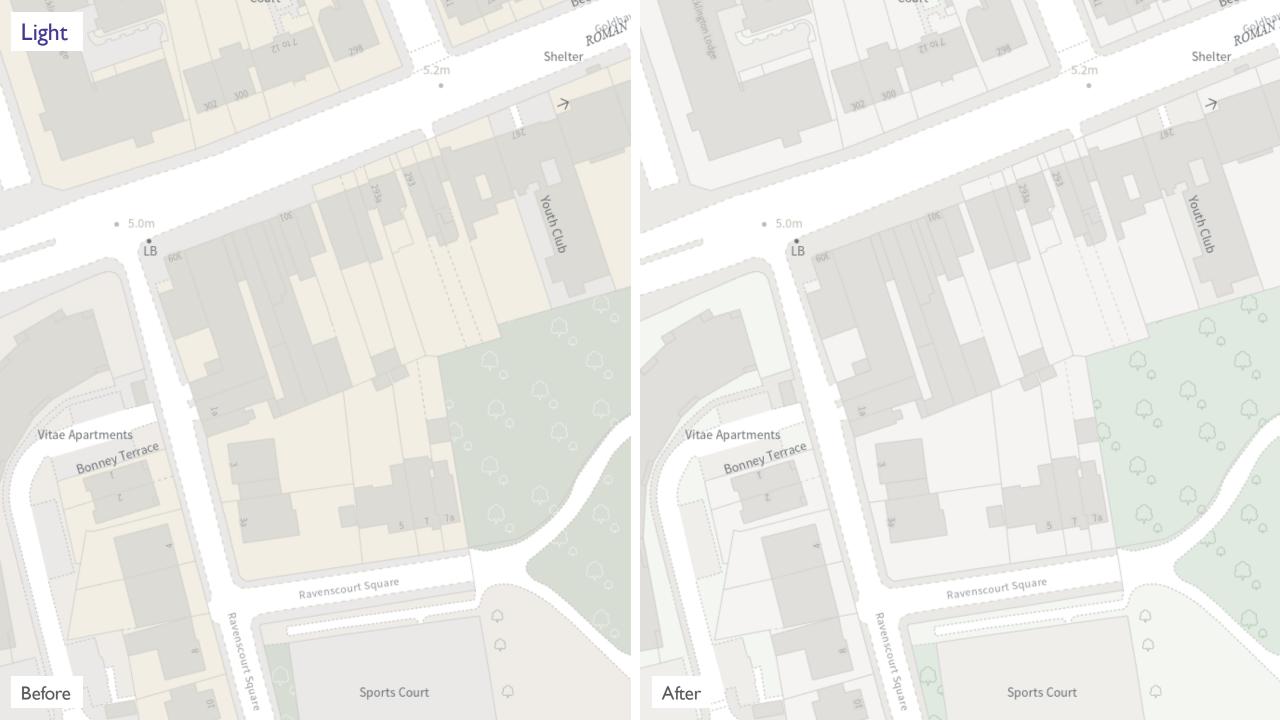


OS Maps API Styling









GB Overview Maps

- We are refreshing the cartographic styling of the GB Overview Maps Open Data product
- It will have closer affiliation with other contextual products with backdrop road data, the inclusion of shading for National Park areas and improved text.
- Acknowledging customer feedback on synchronicity of product updates, annual update/publication will move from December to January to synchronise with the publication of MiniScale
- New version will be available to download via the OS Data Hub in January 2025.

GB Overview





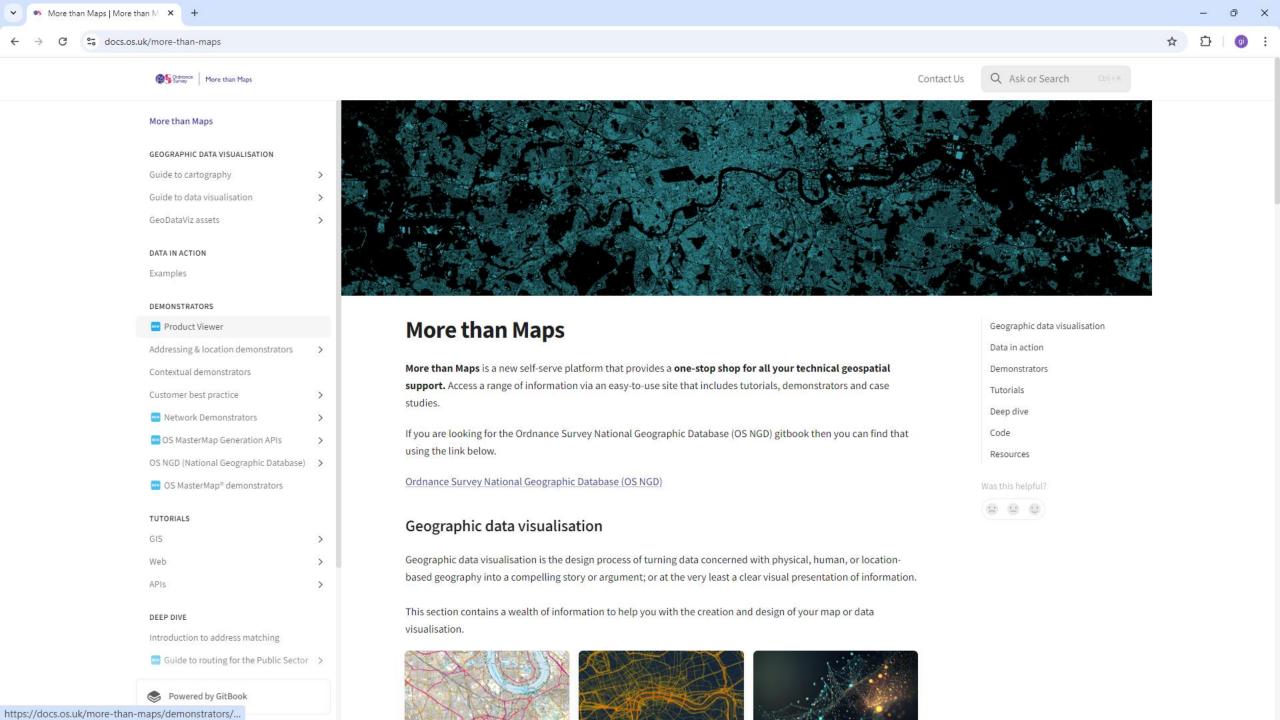
GB Overview Plus

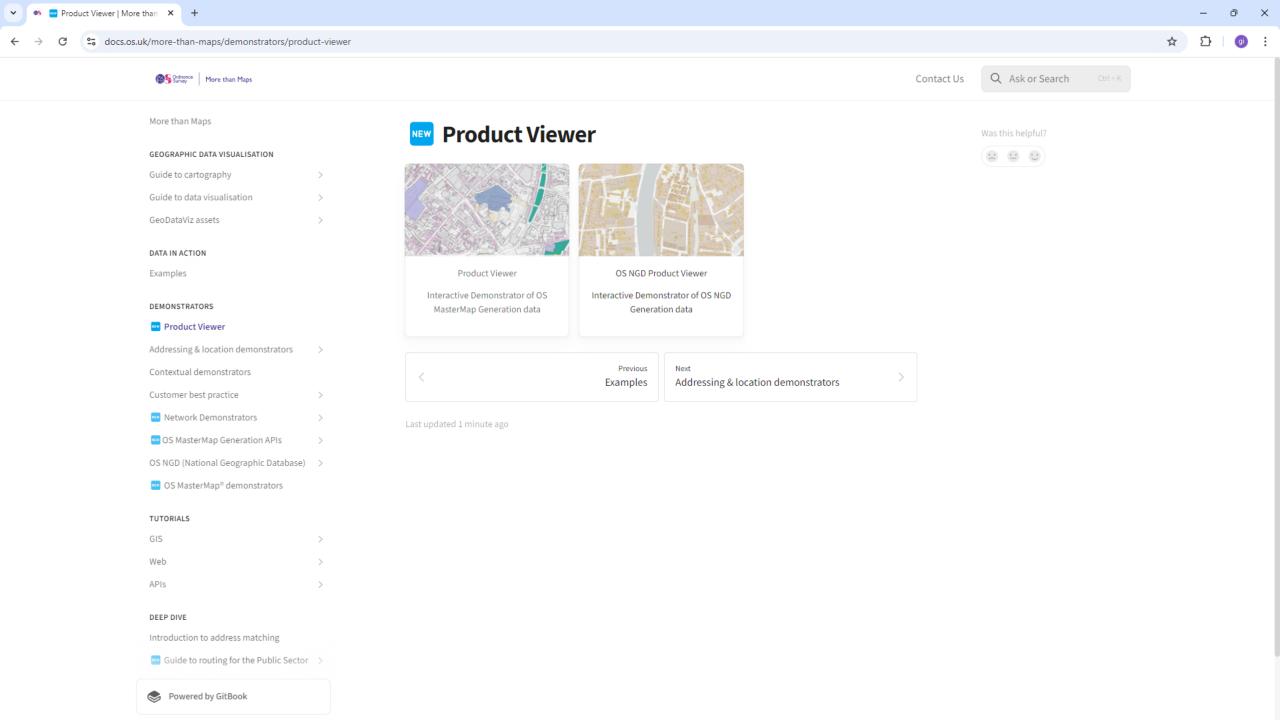


More Than Maps

- Updated Product Viewer
- OS NGD Product Viewer
- Lightning Talks
- Wider Documentation platform <u>https://docs.os.uk</u>
 - More than Maps
 - OS Downloads
 - OS NGD
 - APIs







experience.arcgis.com/experience/20981dabcb14402687dccb437a4a78fb/











Welcome to the OS Product Viewer

We have three sample data areas for you to explore. Click on the area that interests you and discover OS data through the map viewer tool.



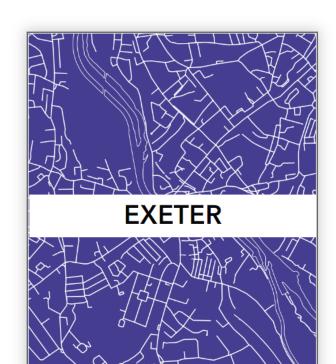


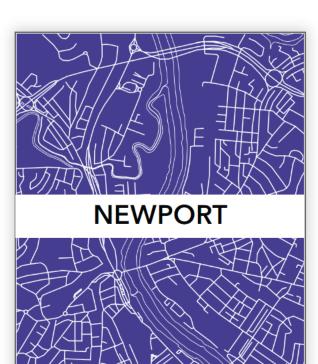


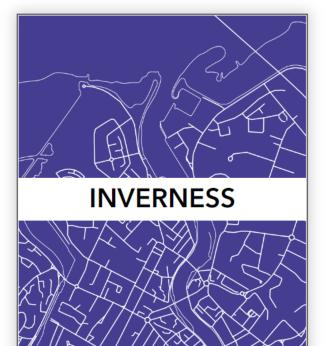


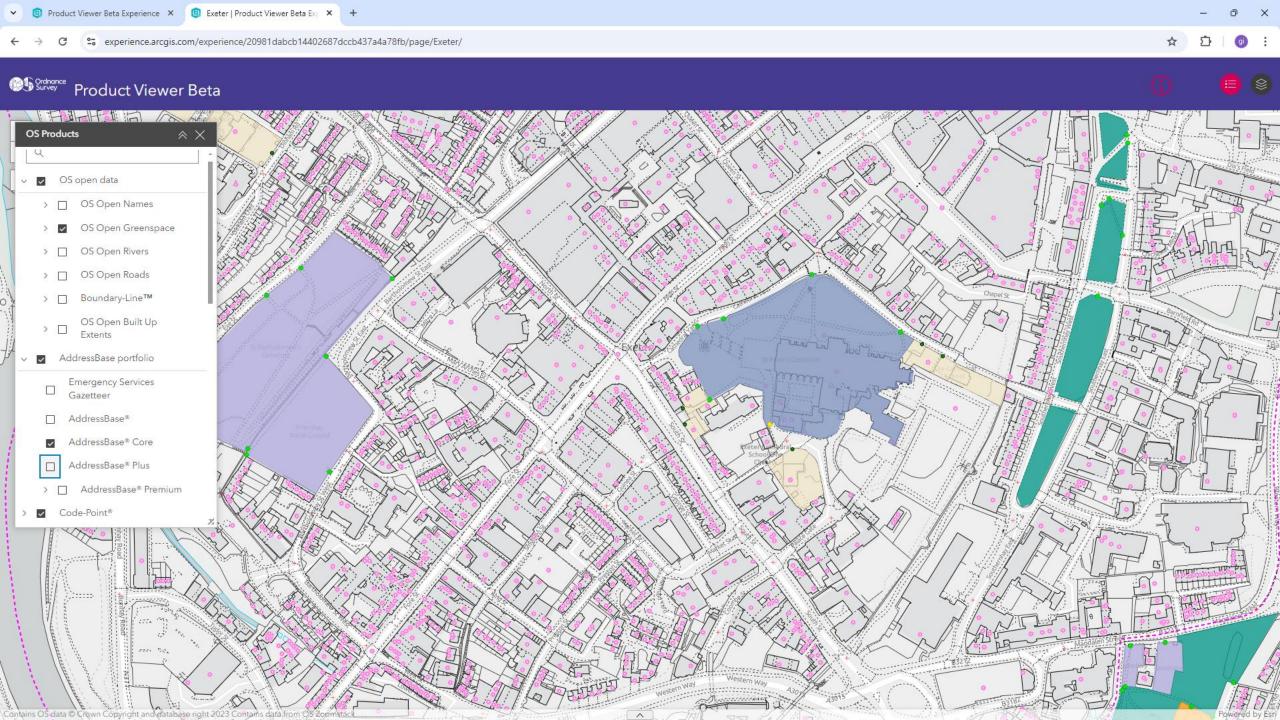


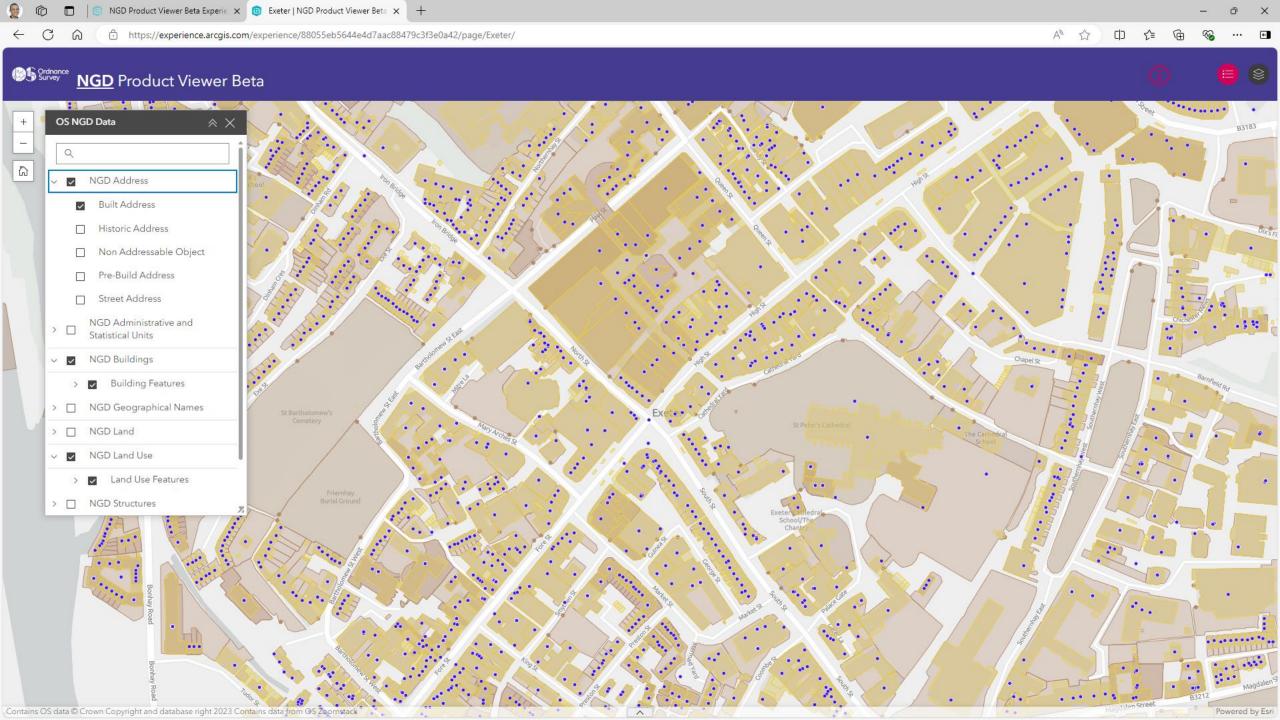
Share the OS Product Viewer with others











Thank You

PSGA Helpdesk psga@os.uk

Tel: 03453 75 75 95

Nathan Davis

nathan.davis@os.uk

James Armstrong

james.armstrong@os.uk







WE'RE TAKING A SHORT BREAK

The next session will start at 15:20









WELCOME BACK

The next session will start at 15:20







Applying the NGD to public health

James Lewis
Head of Geospatial
Data, Analytics & Surveillance
UK Health Security Agency

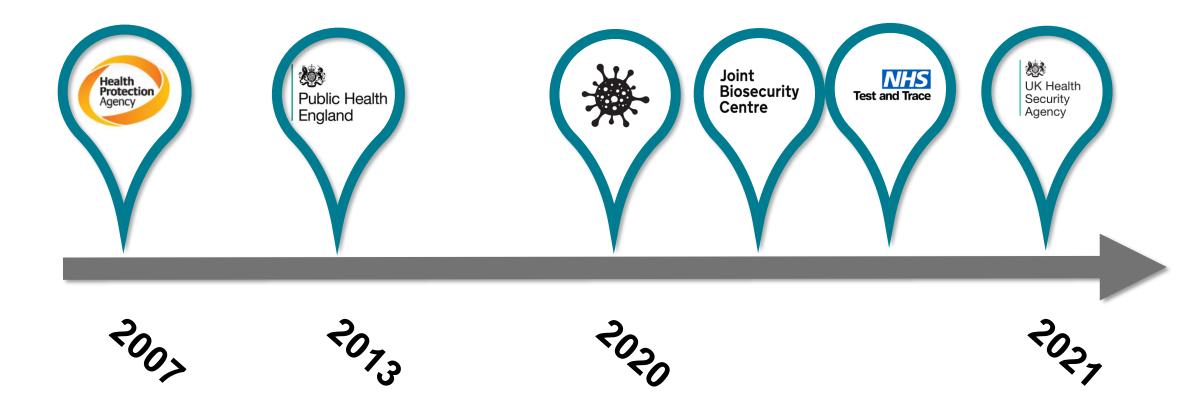
Tuesday 26th November 2024



- Who we are
- Applying the NGD to public health
- Raising awareness









Our mission

To prepare for, prevent and respond to health threats, save lives and protect livelihoods

Our vision

Through our scientific and operational expertise, we aim to protect every person, community, business and public service from infectious diseases and environmental hazards, helping to create a safe and prosperous society

Our goals

Prepare

Be ready for, and prevent, future health security hazards

Strategic priorities

Be ready to respond to all hazards to health

Improve health outcomes through vaccines

Respond

Save lives and reduce harm through effective health security response

Strategic priorities

Reduce the impact of infectious diseases and antimicrobial resistance

Protect health from threats in the environment

Build

Build the UK's health security capacity

Strategic priorities

Improve action on public health through data and insight

Develop UKHSA as a high-performing agency

Achieve more equitable outcomes

Data, Analytics and Surveillance Group (DA&S)

Our mission is to enable the UKHSA. Deliver impact and lead an innovative programme to transform the UK's approach to Public Health data, analytics and surveillance. Help make the nation secure.

We'll achieve that mission through our five objectives





Strengthen our ability to lawfully and securely process data and information and drive a data culture change

Create the conditions for UKHSA teams to safely, lawfully and efficiently receive and process data.

Manage, maintain, and optimise UKHSA's data platforms, tooling and capabilities.

Lead a data

transformation

Build on and transform UKHSA approach to surveillance, working effectively across the one health landscape, delivering enhanced and coordinated capabilities.

Enhance our approach to

surveillance

Develop the innovative use of data, advanced analytical tooling, replicable analytics techniques, and statistical methodologies within UKHSA. Enhance transparency and trustworthiness of UKHSA

Partner across UKHSA to

deliver unique insight and

foresight into current and emerging health threats

Improving our public health impact, making insight relevant to policy

analysis.

Deliver an all source, all hazard health threat assessment capability for Government. providing situational awareness and insights into current and emerging global health threats.



UKHSA Geospatial Unified Approach







The UKHSA Geospatial Unified Approach

Unlocking the power of geospatial in support of public health security

"Many datasets about health threats now come with spatial information, sometimes to the household level.

The accuracy with which we can describe those threats and assess the potential effectiveness of mitigation strategies is dependent on how we use geospatial data. This strategy describes clearly how UKHSA will continue to improve the way we use these data by increasing capabilities and developing partnerships."

Steven Riley. Director General, Data, Analytics & Surveillance, UKHSA







Applying the NGD to public health – UPRN and the NGD

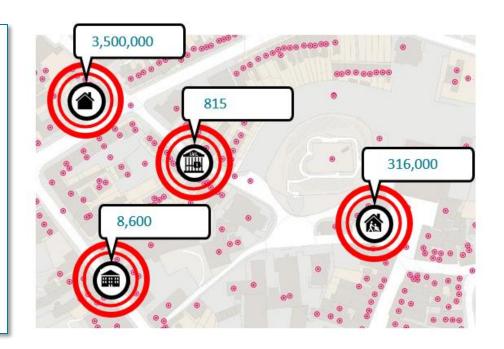
Linking public health data to UPRN and the wider benefits of linkage to the NGD Buildings theme

Aims

- Adopt UPRN as a critical geographic identifier within public health surveillance, monitoring and response systems
- Leverage additional benefit from NGD data (setting identification, building characteristics) to inform identification of vulnerable populations and settings within our data

Approach

- Retrospective linkage and **infection centric** approach:
 - COVID-19 cluster detection in care homes, prisons etc. and visualisation/geospatial tools
 - Invasive group A streptococcal disease (iGAS)
 - Monkey Pox
 - Scarlett Fever
 - H5N1
- Identifying vulnerable populations using a place-based approach
 - COVID-19 PROTECT National Core Study Outbreak Investigation
 - Health Equity explicit and implicit settings



Climate change impact and the NGD

Investigate how climate change exacerbates existing health inequalities due to extreme temperature events across geographies in England

Aims

- build on the analytical framework developed by Gasparrini et al. (2022) analysing the association between ambient air temperature and all-cause mortality and morbidity
- map the impact of extreme temperature events across England using scales of climate, socioeconomic, and topographical and property predictors.

Approach

- Collecting data on (A) individual mortality and morbidity in England, (B) mean air temperature, and (C) area and individual-level variables related to vulnerability to extreme temperature events at LSOA level.
- Estimating the excess deaths caused by high and low air temperature in the last two years by LSOA
- Forecasting # excess deaths and hospitalizations by LSOA level under projected climate scenarios



Shigella Toxin Producing E.coli (STEC) outbreak investigation and the NGD

Retrospective investigation of the cause and role of environmental datasets during **2022 STEC outbreak**

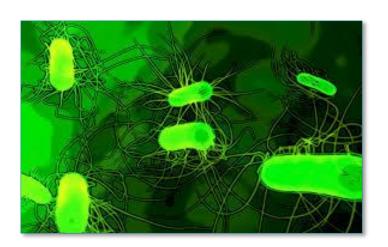
Background

- Foodborne pathogen; Mild (diarrhea, vomiting, stomach cramps) to severe (hospitalisation)
- Substantial increase in cases in late August/Sept 2022
- Research links weather events to an increase in food pathogen infections
- Incident Management Team (IMT) commissioned analysis

Cascading risks of weather events on foodborne pathogen outbreaks (a) Amplification 1. Source - animal reservoir of gastrointestinal pathogens 2. Amplification - heavy precipitation event 3. Transportation - surface flooding 4. Contamination - contamination of fresh produce 5. Consumption of contaminated produce 6. Infection - gastrointestinal illness 3 Transportation 4 Contamination 5 Consumption

Approach

- Food exposure information & food chain investigations to identify likely outbreak sources.
- Weather events from meteorological and flood risk data, plus NGD land use data e.g. fresh produce for human consumption
- Visualisations + epi models enabled the identification of source locations (farm level)



Raising awareness

NATIONAL GEOGRAPHIC DATABASE APP

Introducing NGD App – your one-stop selfservice platform for exploring and evaluating NGD datasets. Designed for ease and efficiency.

Quadri Adebayo 1 October 2024



OS Building

National Building Dataset – Powering Public Health Protection.

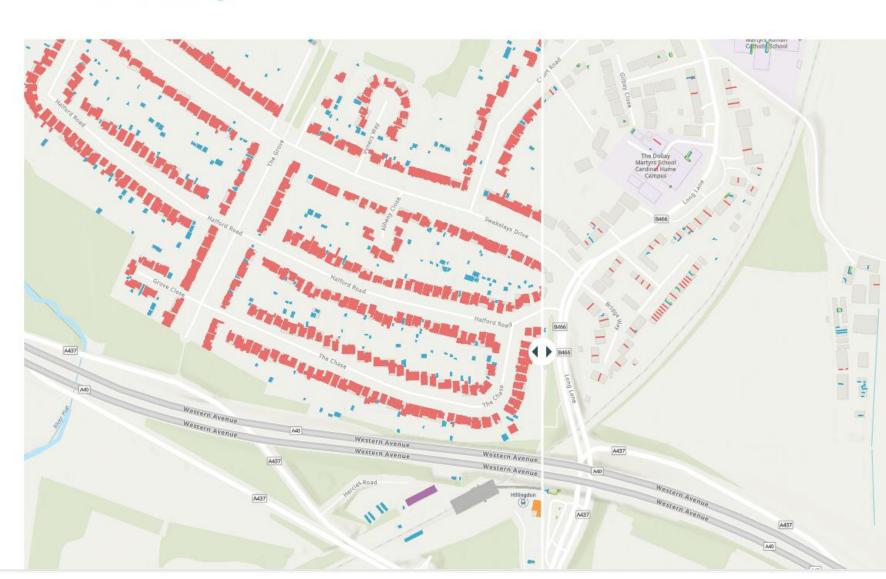
About the Data: The National Building Dataset offers a detailed, multi-layered view of building data that is invaluable for public health applications. It comprises three key layers:

Building Line: Outlines the footprint of each building.

Building Part: Details the structural components within a building.

Building: Provides overarching information about the entire building, including its function and size.

These layers can be explored on an interactive map, allowing





OS Building OS Open Greenspace OS Open Built up Area OS Landform OS Land Water Body Resources

Resource

Powered by: Geospatial Team

For any questions contact Geospatial@ukhsa.gov.uk

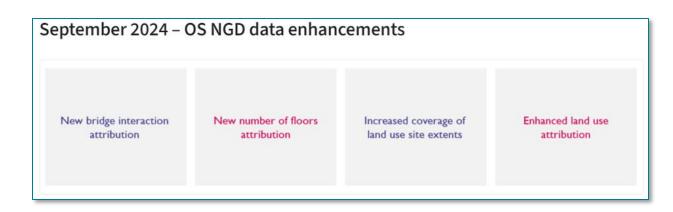
You can fill out the below form to request for data a

Data Request Form

Resources	OS NGD Documentation Platform OS					
	National Geographic Database					
Building Layer	Building Features OS National					
	Geographic Database					
OS Land	Land Features OS National Geographic					
	Database					
Water Body	Water Features OS National					
	Geographic Database					
OS Open Greenspace	OS Open Greenspace Data Products					
	OS					
OS Open Built Up Area	OS Open Built Up Areas Data Products					
	<u> OS</u>					

Summary

- Valuable resource that is demonstrating the need for scalable identifiers in our data and the added value leveraged from the NGD
- OS NGD Select & Build and OS NGD API
- Achieving equitable public health outcomes:
 - Setting identification
 - Building characteristics as indicators of place-based vulnerability
 - Other





Thank you.

<u>James Lewis</u> <u>james.lewis@ukhsa.gov.uk</u>

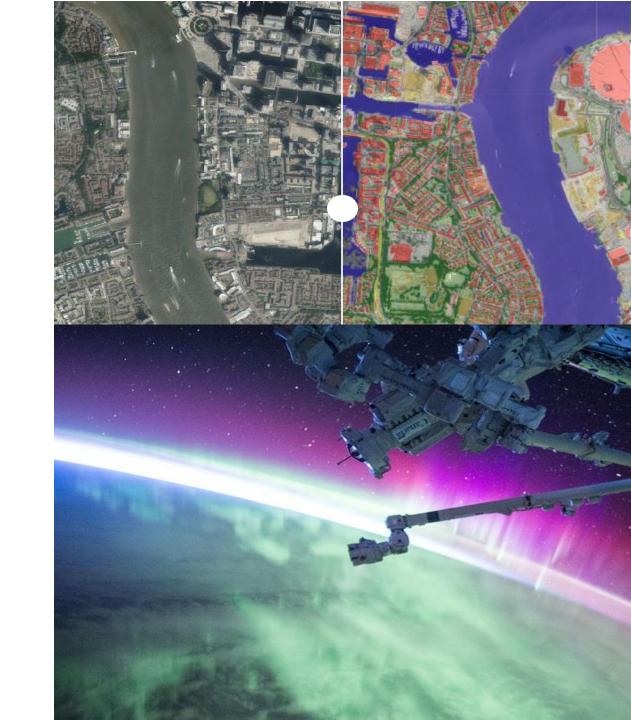
PSGA FUTURE CAPABILITIES- UPDATE

Andy Wilson, PSGA Futures Lead Ordnance Survey



Original set of PSGA future capabilities...

- UPRN and USRN adoption support
- Higher resolution/3D, more seamless data
- Information hub partnerships
- Improved currency
- Improved coastal zone data
- Position, Navigation and Timing (PNT) resilience
- Dynamic data linkages
- Derived analytical content



User Engagement activities over last 18 months

Public Sector Mix of structured interviews and sector-based workshops

60 public sector organisations (138 participants)

Additional feedback gathered in a sessions at 4 x PSGA Events, Autumn 2023

Partners

Mix of structured interviews and bilateral workshops

15 Partner organisations (19 participants) + workshop with OS Connect

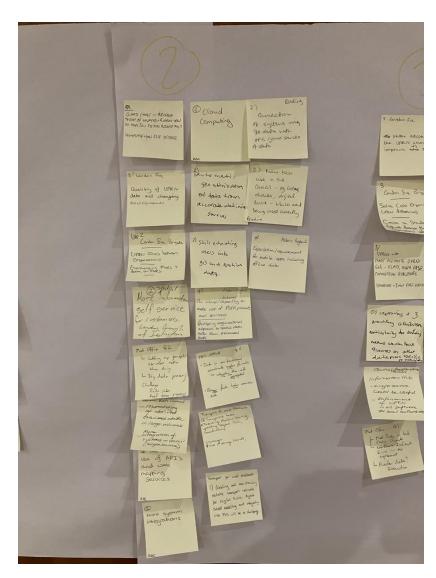
Additional feedback gathered in workshop at OS Partner Conference, March 2024

Analysis & reporting

Findings captured in structured format to support business case evidence User Engagement Report shared with to GC

PSGA Events- Discovery and analysis of 750+ post its!





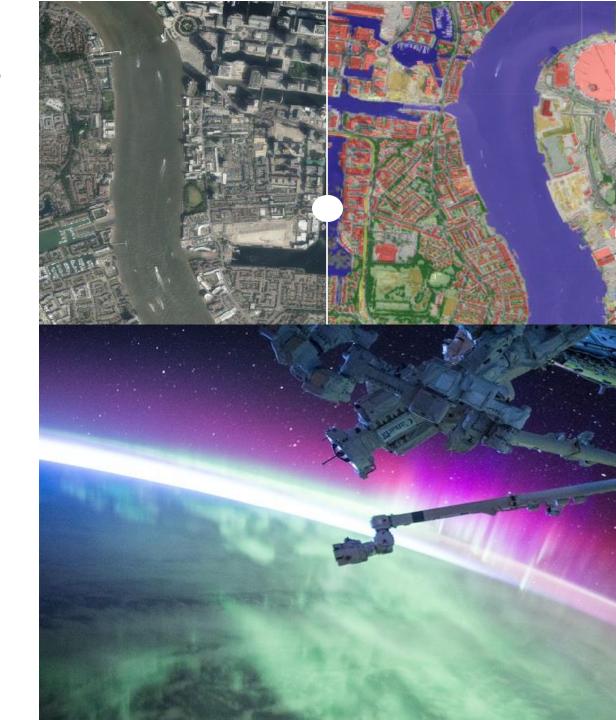


Priority Future capability themes

Enabling linking and sharing

• Better data

Data and services for safety and security



Summary of importance of requirements

Captured via interviews, workshops and PSGA events

Better data

- 3D geospatial data
- Indoor mapping
- Feature granularity and classification
- Coastal zone
- Derived analytical datasets
- Improve currency
- Improved spatial accuracy
- Change history
- Integration of 3rd party identifiers/data with OS data
- Enabling use of real time data feeds

Enabling linking and sharing

- Access to 3rd party data via OS Data Hub
- Provision of OS data via other platforms
- Reducing barriers to use of OS data
- Identifiers from OS enabling data linking (inc UPRN adoption)

Data and services for safety and security

PNT capabilities and resilience

Key trends identified by customers as driving changing needs

- Desire to democratise access to geospatial insights, enabling more applications and increased impact
 - Demand for insights to more complex questions, which in turn is driving needs for more richer, more complete, current, accurate geospatial data.
 - Frustration that it is difficult to aggregate and share geospatial information, both within and between organisations
 - Need to increase efficiency related to managing geospatial data, alongside challenges with capacity and skills (particularly in the public sector)
 - Opportunity for AI to enable increased benefits from geospatial data

Overview of resulting 7 specific propositions

Data and services for safety and security

Risk mitigation

PNT services

Better data

Enabling evolving geospatial applications and policy outcomes

Enhanced land cover & habitat data

Enhanced transport networks

Functional Economic Market Areas Enabling linking & sharing

Improving efficiency and effectiveness

OS Data Hub for government geospatial datasets

Higher currency & pre-construction for properties

Enhanced location information for emergency response

Next Steps



Engaging with the Geospatial Commission to determine priorities (subject to Government budgetary processes)

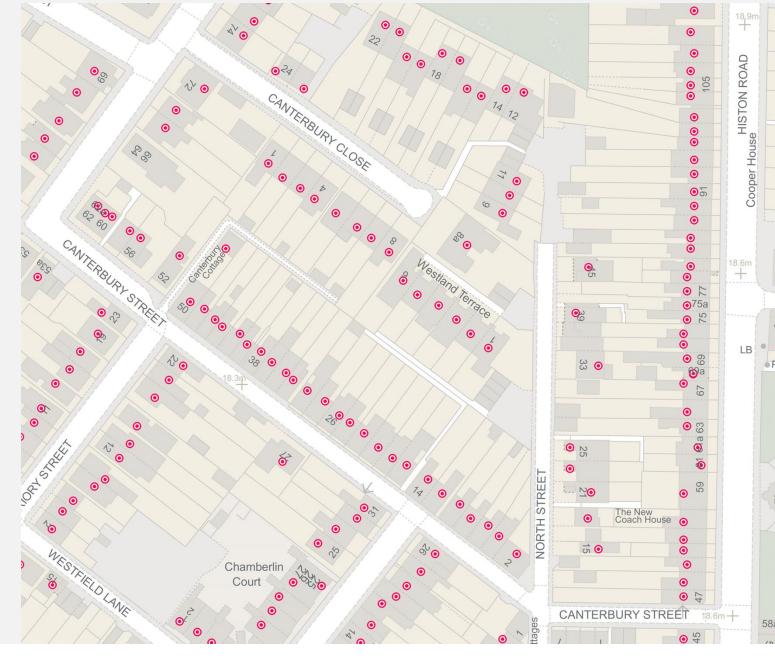


Continued proposition development and engagement with customers to ensure requirements are fit for purpose



Assessing lessons learned from new data releases

Update on Address and Street Information Directory (ASTRID) Trial





The Government Mandate

1 July 2020, the Open Standards Board, via the Government Digital Service (GDS) mandated that:

The Unique Property Reference Number (UPRN) and Unique Street Reference Number (USRN) are the public sector standard for referencing and sharing property and street information.

All new public sector systems and projects that include address and/or street data should include the identifier.



Specific feedback on visibility and access to UPRN/USRN data from PSGA customers...

"When a gov dep is holding data at UPRN level they should be publishing it openly."

"Visibility and awareness of data is a real challenge"

"Would welcome a UPRN catalogue approach (what's been linked to UPRNs)"

"Can OS support other gov bodies to develop a standard to follow when they publish their data with UPRN — something similar to INSPIRE" "Establish a UPRN data catalogue so you can see who has matched their data to the UPRN — would be really useful"

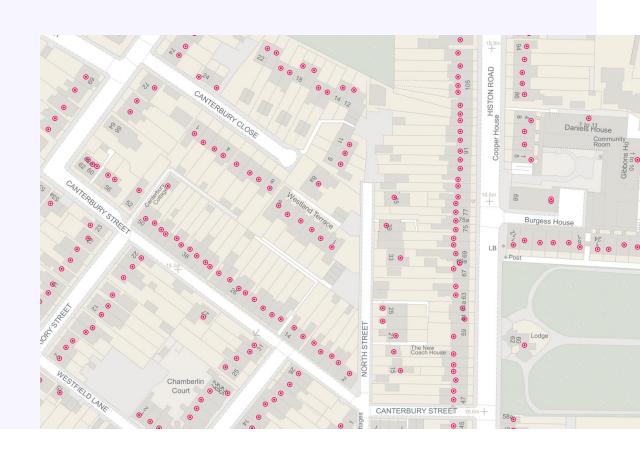
ASTRID Pilot

Pilot for the creation of an on-line searchable UPRN/USRN data directory

This first iteration was a searchable library comprising of the following data fields;

- Dataset attributed to UPRN/USRN? e.g. Energy Performance Certificates, Air Quality etc
- Dataset owner/custodian
- Details of how to obtain dataset
- Update cycle of data

Functionality to request datasets for inclusion if not present.



Domestic property information to support Council Tax Banding			No	Property List	Valuation Office Agency	9/19/2024 8:44 AM	Open register	~
GP surgeries: Main Sites (Open Government Licensed version)			Yes	GP data	Welsh Government/Di gital Healthcare Wales	9/19/2024 8:44 AM	Open register	~
HMO (Houses in Multiple Occupation) licensing register			No	Property List	Nottingham City Council	9/19/2024 8:44 AM	Open register	~
Non-domestic property data to support Business Rates valuations			No	Property List	Valuation Office Agency	9/19/2024 8:44 AM	Open register	~
Risk of Flooding from Rivers and Sea - Properties at Risk			Yes	Flood risk	Environment Agency	9/19/2024 8:44 AM	Open register	~
Sample BCP LLPG			No	Local Land and Property Gazetteer sample	BCP Council	9/19/2024 8:44 AM	Open register	~
This is a test	Built	Geopackage	No	Property List	test	9/19/2024	Open register	~

Bulk data uploads in CSV formatted files, please use the template for column headings and table structure



Benefits of ASTRID



Provides and single place for PSGA members and the wider market to see what data is already attributed to the UPRN & USRN



Use cases and value can also be captured as part of the subsequent versions of the directory



Will help identify gaps in attribution across government for targeted adoption focus

ASTRID- Phase 2 Next Steps and timeline



If you are interested in participating in the next phase of the trial, please contact tianna.barefoot@os.uk

THANK YOU

Andy.wilson@os.uk





THANK YOU

