



GEOSPATIAL COMMISSION PUBLIC SECTOR & PSGA EVENTS 2024

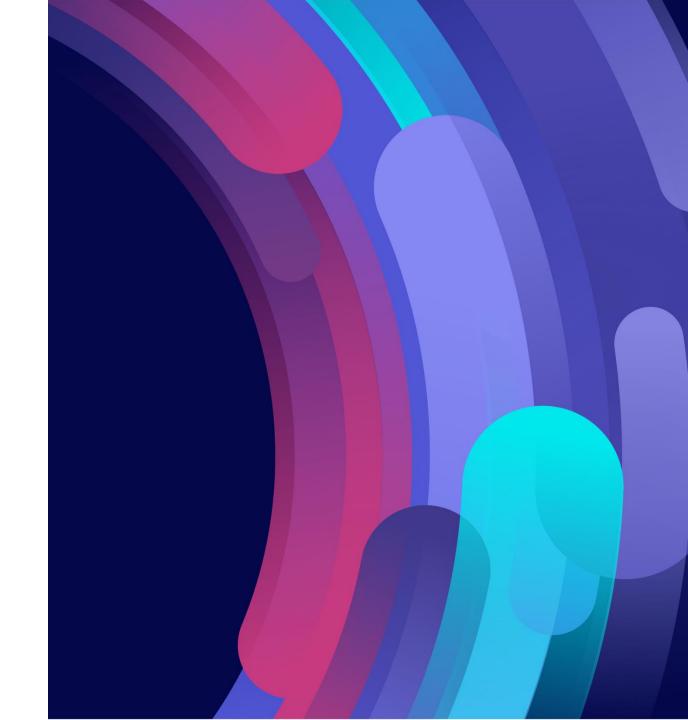
#GCxPSGA24





WELCOME TO THE GEOSPATIAL COMMISSION PUBLIC SECTOR & PSGA EVENTS 2024

#GCxPSGA24







MORNING PROGRAMME

TIME	SESSION	PRESENTER	
10:00	Welcome	Steven Sibbald David Ball	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	Jen Hampton	Office for National Statistics
11:10-11:40	Morning break		
11:45	OS National Geographic Database workshop	Rory Prentice Jess Baker	Ordnance Survey
12:45-13:35	Lunch break		





AFTERNOON PROGRAMME

TIME	SESSION	PRESENTER	
13:40	Welcome back	David Ball	Ordnance Survey
13:45	Customer story	Gair McAdie	Driving Vehicle Licensing Agency
14:00	Aerial Photography for Great Britain (APGB) – what's new?	Kathryn Lucas	Bluesky International Ltd.
14:15	Introducing the new APGB web services	Helen Wattie	Getmapping Ltd.
14:30	PSGA developments and update	Rory Prentice Jess Baker	Ordnance Survey
14:45-15:15	Afternoon break		
15:20	Customer story	Frank Blades	Ceredigion County Council
15:35	PSGA Future capabilities update	Andy Wilson	Ordnance Survey
15:50	Closing comments	Steven Sibbald	Geospatial Commission
16:00	Close		







OUR SPONSORS





















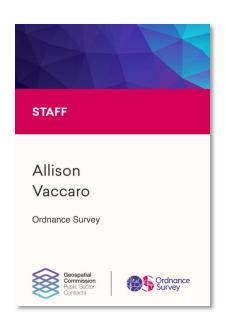




HOW TO GET INVOLVED

WiFi network: CWS-Broadcast PW: LeatherWillow24

- Ask questions on Slido using the code #CAGCxPSGA2024
- 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



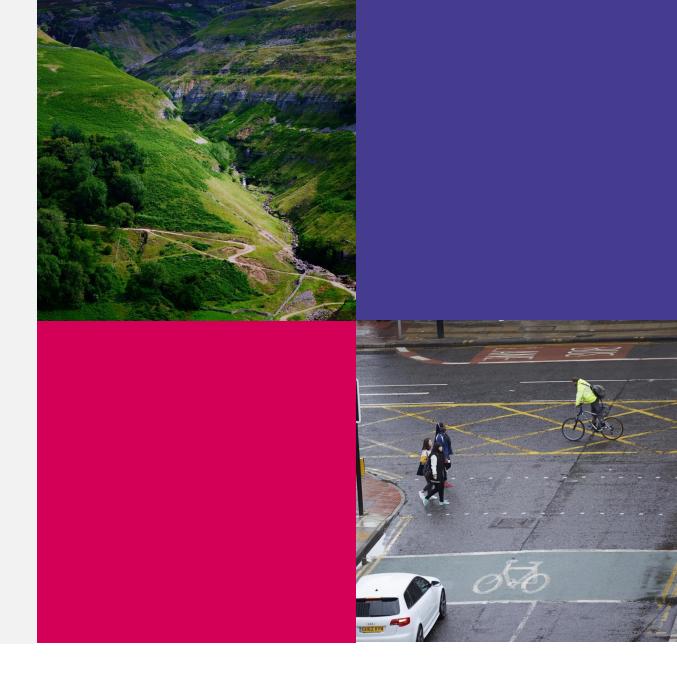
CUSTOMER EXAMPLES



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

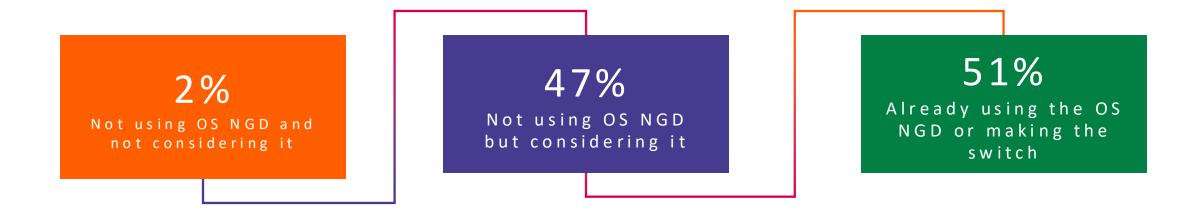
Multi-Modal Routing



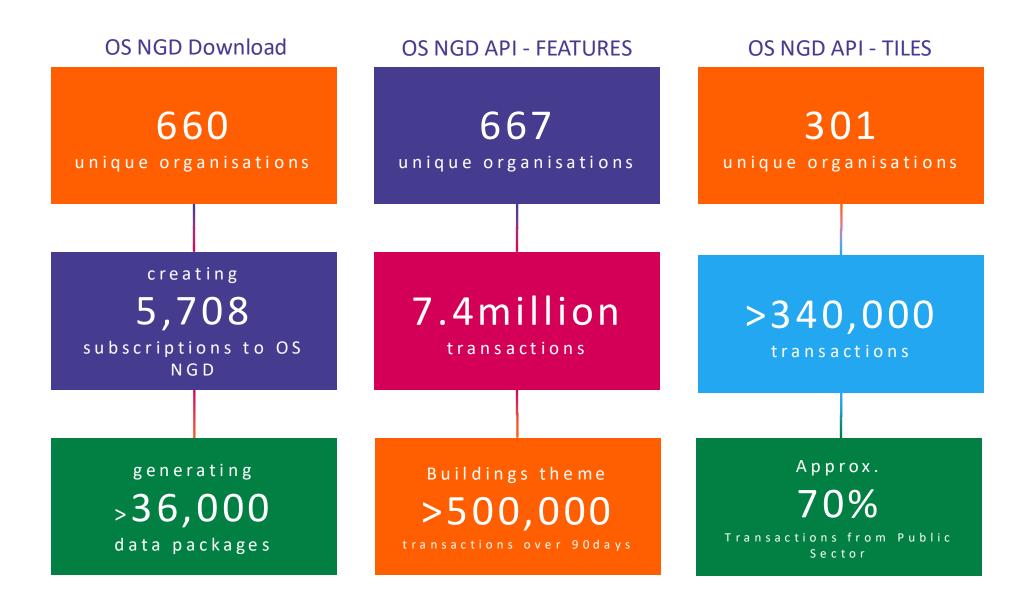
Emergency Services Gazetteer

And so much more..!

How much are YOU using the OS NGD



Usage of OS NGD Data



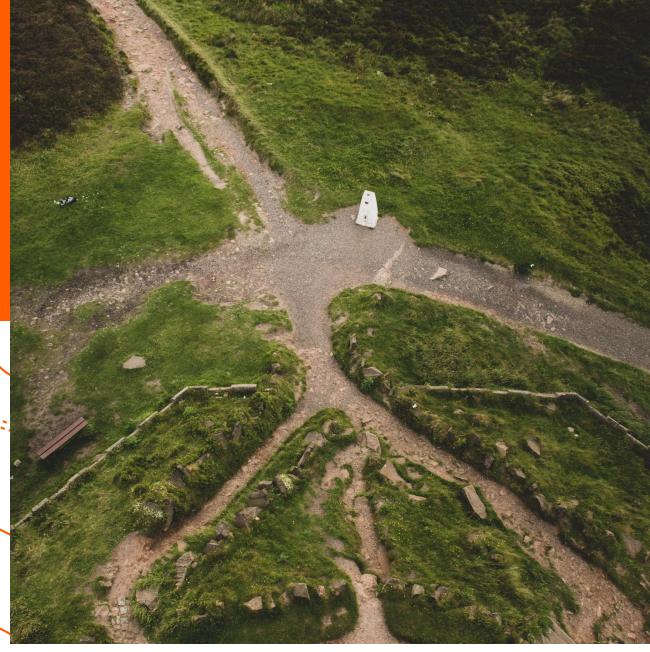




Customer Examples

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



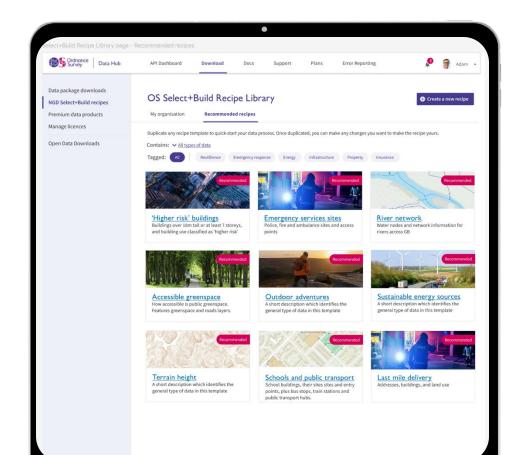
March 25: What's Next?

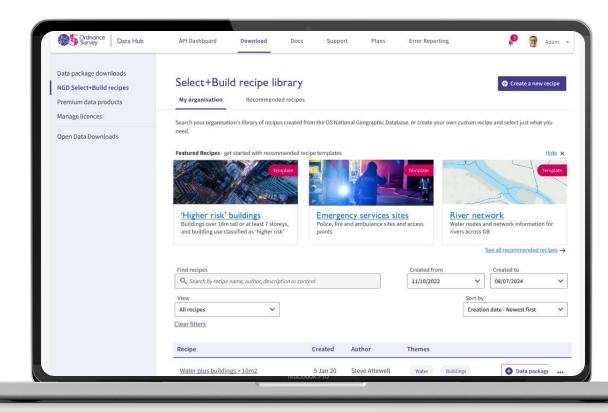
OS NGD BUILDINGS		OS NGD LAND USE	OS NGD GEOGRAPHICAL NAMES	EMERGENCY SERVICES GAZETEER
Roof Shape	Roof Aspect	Increased Coverage	Vernacular Names	Tunnels
Roof Material	Presence of Solar Panels	Increased Access Points	Tunnels	
Presence of Green Roofs	Access to PublicBuildings			

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.





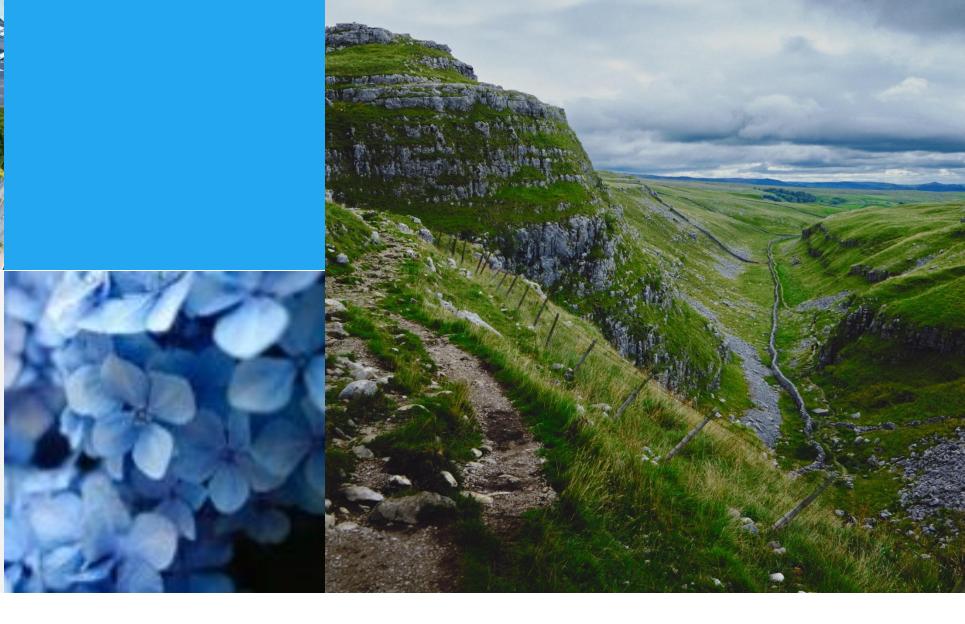
Be Part of the Design Team -





THANK YOU

Dean Paulley
Head of Product



ONS GEGRAPHY: Looking to the future

Jen Hampton

Head of Geospatial Analysis & Innovation



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



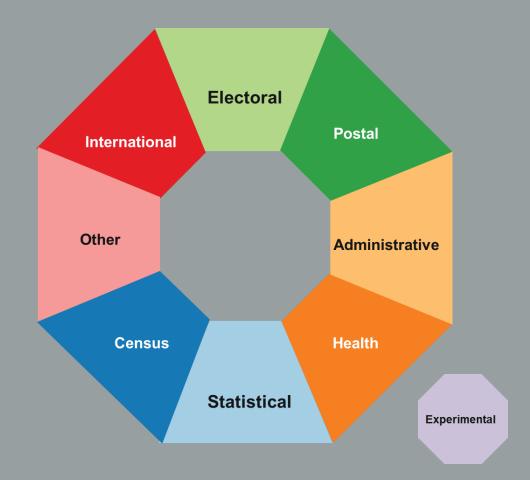
Maintain

existing &

create new

geographies

Office for National Statistics



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

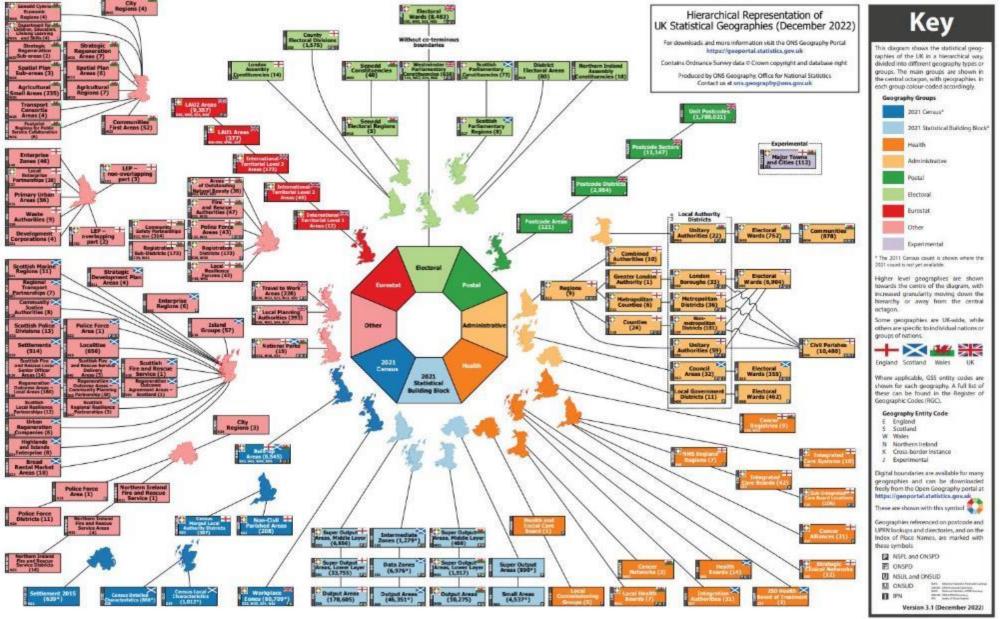
123 Geographies operative in the UK

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:**

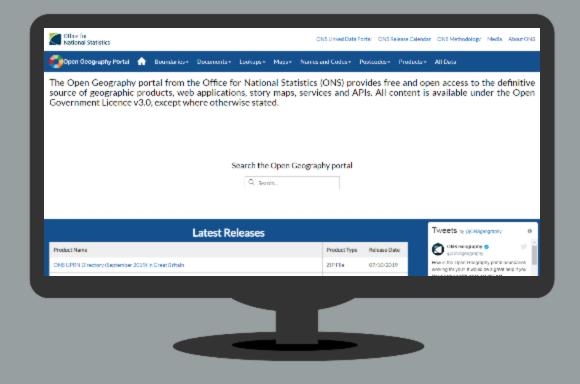




Office for National Statistics Hierarchical Representation of UK Statistical Geographies Hierarchical Representation of UK Statistical Geographies



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



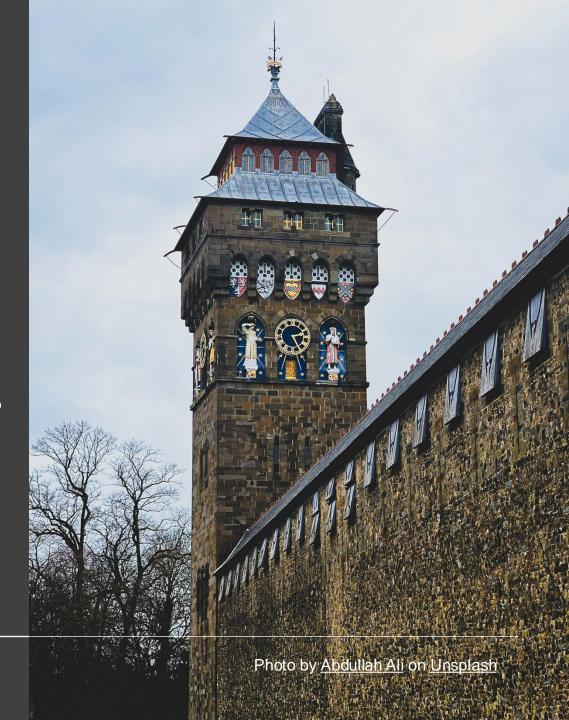
Strategic
Alignment
of Data Strategies



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: #CAGCxPSGA2024



https://app.sli.do/event/j65TqetCvepxiTWK6FVqsB

ONS.Geography@ons.gov.uk



Photo by <u>Daniela Paola Alchapar</u> on <u>Unsplash</u>

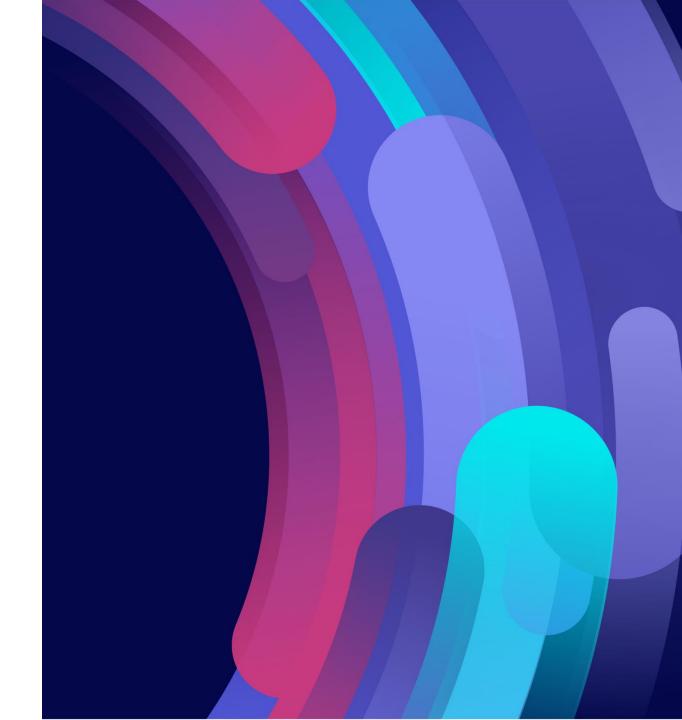
Thanks!

ONS.Geography@ons.gov.uk





THE NEXT SESSION WILL START AT 13:40







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Address Capture and Handling using NGD

DVLA Local Addressing Solution





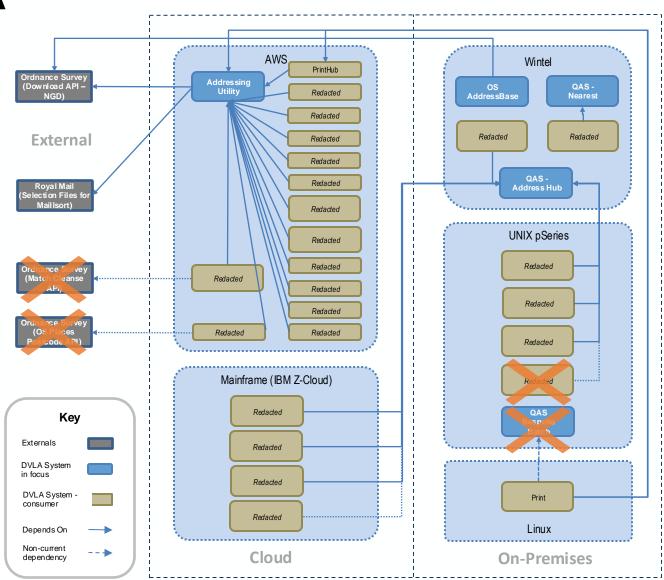
Addressing at DVLA

Driver and Vehicle registers, current and previous addresses

- >50M active driver records
- >40M active vehicle records

Most high level systems dependent on Address lookup

- >250K address lookups/day, 24x7
- >1000/second peak
- Legacy system dependency on Experian QAS



Address Capture Requirements

Cross Government Guidelines - https://design-system.service.gov.uk/patterns/addresses/

Further Constraints and Requirements for bulk mail handling organisations

- Addresses captured across multiple interactive and non-interactive channels, by 1st, 2nd and 3rd parties
- 90%+ validated Royal Mail PAF (Post Address Format) addresses required for bulk mail discounts
 - Upon print, match addresses to PAF by including Mailsort and DPS (Delivery Point Suffix) within Envelope barcode for UK Mail/Royal Mail sorting
 - Support as many up-to-date addresses as possible and minimise free-keyed addresses
 - BFPO (British Forces Post Office) military addresses do not have a DPS, and are very low volume
- Minimise the need to free-key addresses
 - Ensure quality, minimise returned mail rates
 - Supplement PAF addresses with Local authority addresses (not the other way around)
 - Include new build and multiple residence properties
- Conform to output constraints, for example
 - 45 chars address line width on envelope window
 - Two recipient lines, five address lines plus postcode (or BFPO number)
- Welsh alternative addresses supported where available
- Allow BFPO capture without postcode, with BFPO number validation
- Allow mixed case address capture

DVLA Requirements

DVLA Specific Requirements (we like to make things difficult for ourselves)

- All addresses, including free keyed addresses, must contain a valid post town postcode combination
 - This assists with data quality, where pre-populating the post town based on postcode ranges derived from PAF data improves address quality
 - As well as stopping addresses being rejected from DVLA vehicles register, and post towns being replaced by the Drivers register



- Country and address type constraints depending on service
 - For example, UK only, GB only, including/excluding Channel Islands, PO box addresses, sets of BFPO addresses...



Require proof of residency for commercial addresses



- Business Names removed where already present in recipient lines (vehicles only)
- We have had a requirement to monitor addresses for profanities (more on this later)



- Application fees that depend on a change of address, implying address comparison
- Flag addresses on known suspicious addresses list, implying address comparison
- Re-format addresses in multiple formats
 - Capture and display mixed case, but output in upper case on envelope and licences
 - Picklist format; one line; 2 line; 5+1 lines; differing character sets, line lengths and constraints

Legacy Requirements 😖

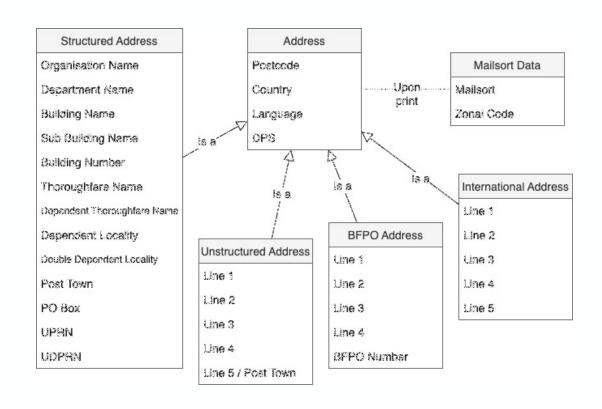
Examples of further legacy constraints

Not strategic but still enforced -

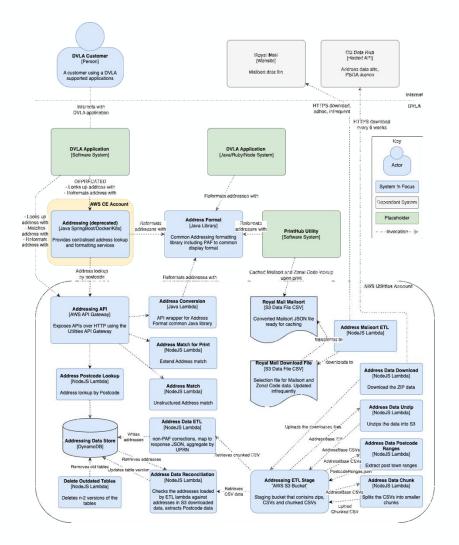
- 30 char address line limits, use of supported thoroughfare abbreviations
- 20 char post town (vehicles only)
- BFPO, Welsh and other special address types distinguished by using hardwired identifiers in postcode field
- Addresses stored in upper case
 - They are also supplied from OS / GeoPlace as upper case despite PAF being mixed
- Legacy character set constraints
 - Diacritic character substitution
 - Removal of dots and commas drivers only
 - Removal of other unsupported non alpha-numeric characters found in some PAF and more in Local Authority addresses
 - Minimum characters on address lines, including 3 alphas on each line drivers only
 - · Parenthesis must be paired drivers only

Address Data

- Storing structured PAF address data allows maximum flexibility in address processing and output format
- Royal Mail PAF source data
 - Required for bulk mail handling and delivery
 - BFPO addresses
 - Welsh addresses
 - Non-GB
 - New Build and Multi-residence files not available through NGD
- Local Authority used to supplement
 - Country attribution
 - New build residential addresses
 - Multi-residence addresses
 - Commercial addresses
- Local store of addresses required to support preprocessing and non-functional requirements



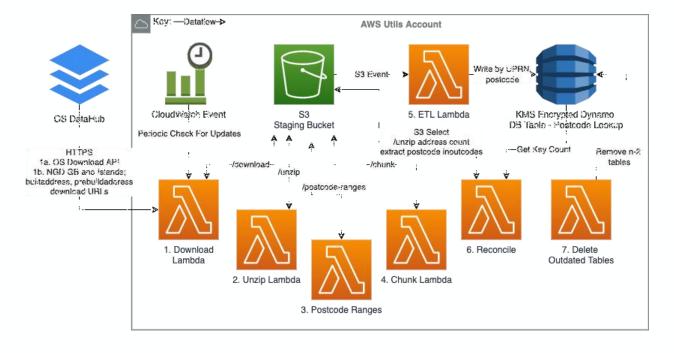
Local Addressing Solution using NGD



Example detail of a serverless solution that is re-usable, generic and re-deployable

- Address lookup, Address match, Format address
- PAF address formatting libraries for Ruby, Node, but not currently the original Java version, available here:

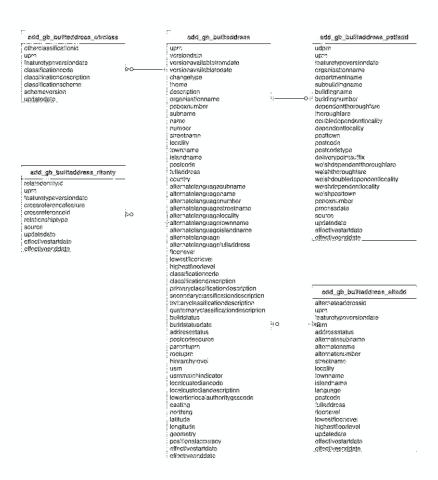
https://github.com/orgs/dvla/repositories?q=postman-paf



NGD Dataset Benefits

NGD benefits over AddressBase –

- Updated daily
- Combines multiple datasets
 - Download API allows flexible selection of required datasets
 - For address capture, only a small subset is required: Built-Address and Pre-build-Address, for GB and Islands datasets
- Support for combining Royal Mail PAF and Local Authority addresses
 - De-duplication using UPRN
 - Country attribution
 - Local Authority addresses mapped to PAF-like structure



NGD Usage for Address Capture

Questions

- Which addresses should be included for residential address capture?
 - Requires use of classificationcode, postcodesource, addressstatus and buildstatus...
- Should address capture prioritise Royal Mail PAF or Local Authority addresses? NGD?
- What about commercial addresses?
 - · Should we supplement PAF with additional Local Authority addresses?
 - Where we have both for a UPRN, which is more up-to-date, reliable? Should we return both when different?

NGD Mapping Challenges

- Data model clarity
- Address classification
- Address ordering
- Completing local authority address mapping to PAF data structure
- Local Authority post town corrections
- Local Authority data quality concerns
- Mixed case PAF addresses only available in upper case
 - · Retrospective conversion to mixed case is error prone

Examples

Post towns

There are 1482 English language post towns recognised by Royal Mail. Local Authority addresses have 16,688 distinct English language towns, including empty

Examples from investigating supplement PAF with Local Authority Addresses

```
Wrong classification?
"ADDRESS": "TOILET, UNIT 5, BURNFIELD HOUSE, 4A, BURNFIELD AVENUE, GIFFNOCK, EAST RENFREWSHIRE, G46 7TL",
"UPRN": "131033042", "STATUS": "APPROVED", "CLASSIFICATION CODE DESCRIPTION": "Office / Work Studio",
PII?
"ADDRESS": "DYNASTY RIME INVESTMENT CO LTD & LLOF MANAGING TRUSTEE LTD 020 7317 4649 OR 07989 559 948, SECOND FLOOR PHONE ROOM, COTTAM HOUSE, 36-40,
YORK WAY, LONDON, ISLINGTON, N1 9AB",
"UPRN": "10096364593",
No post town, road name
"ADDRESS": "LUCE VIEW, A747, DUMFRIES AND GALLOWAY, DG8 0JU",
"UPRN": "137117259", "STATUS": "APPROVED", "LOGICAL STATUS CODE": "1", "CLASSIFICATION CODE DESCRIPTION": "Detached", "POSTAL_ADDRESS_CODE_DESCRIPTION": "A
record which is linked to PAF"
Should these be addressable, current, residential?
"ADDRESS": "2, PENPARC, C3042 JC PP29/1/1 TO JUNCTION U3099 VIA WOLFSCASTLE, CAS-BLAIDD, HWLFFORDD, PEMBROKESHIRE, SA62 5NT",
"UPRN": "10023952348", "STATUS": "APPROVED", "CLASSIFICATION CODE DESCRIPTION": "Detached",
"ADDRESS": "PARK COTTAGE, C167 FROM WYNDGARTH HOUSE TO JUNCTION WITH Y2258 AT CORNER COTTAGE, REYNOLDSTON, ABERTAWE, SWANSEA, SA3 1AD",
"UPRN": "10011727477",
```

Profanities

To investigate whether we could alert on inappropriate free keyed addresses, we found over 1M addresses that contained a word from an identified bad word list "ADDRESS": "FUCKOFFEE, 215, BETHNAL GREEN ROAD, LONDON, E2 6AB",



Thank you



APGB Presentation

Geospatial Commission Contracts Regional Conference Cardiff 2024

Kathryn Lucas, 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: Dyfed







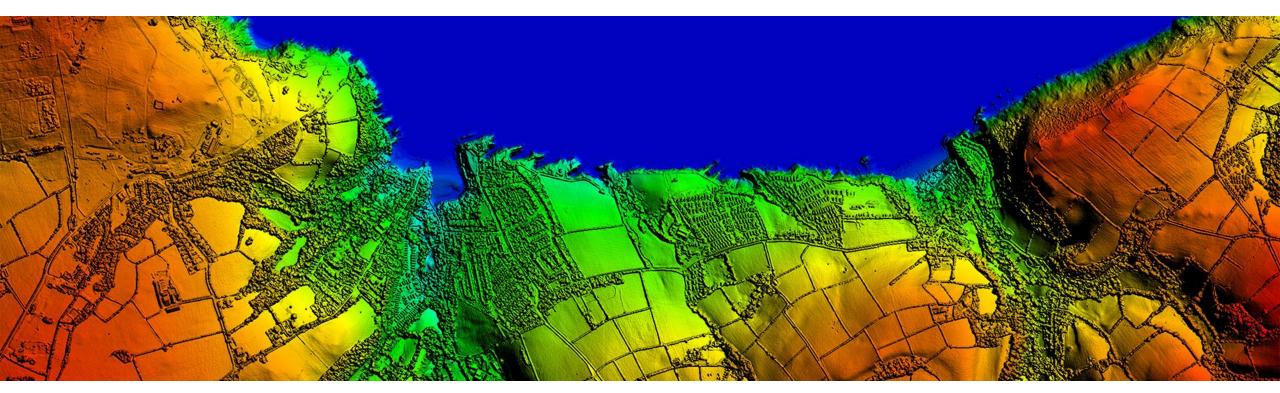
50cm Colour Infrared (CIR) | Location: Dyfed







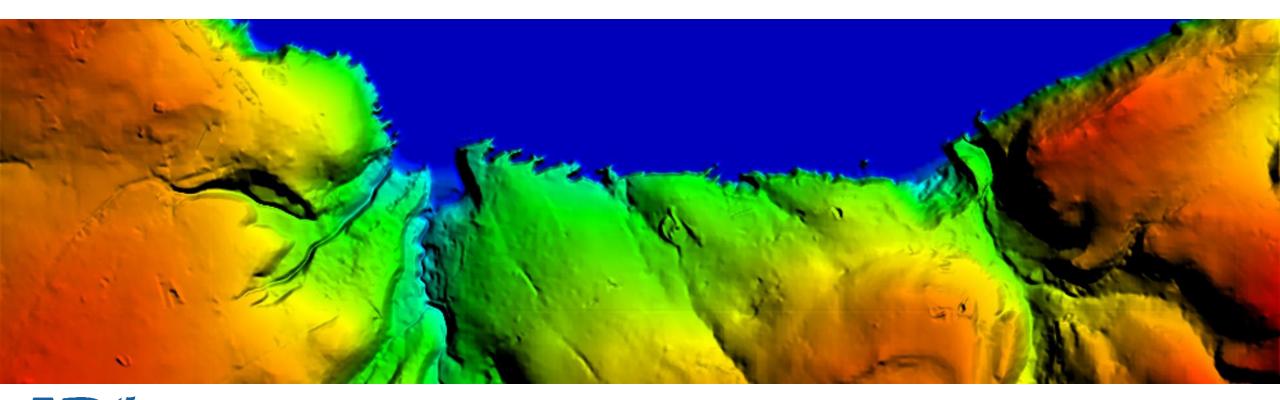
2m Digital Surface Model (DSM) | Location: Dyfed







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







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. More to come!

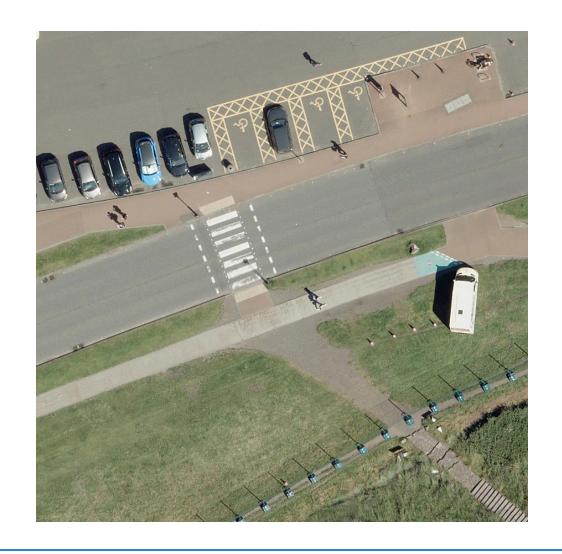






5cm Aerial Photography

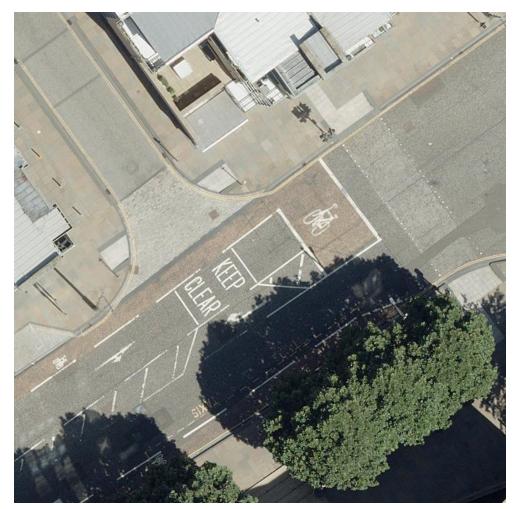
- Clearer, sharper, richer
- Increased accuracy
- Applications:
 - Planning enforcement
 - Asset inventories
 - o Al/ML
 - Event planning
 - Security
 - Urban greening/BNG







5cm/12.5cm Aerial Photography Comparison

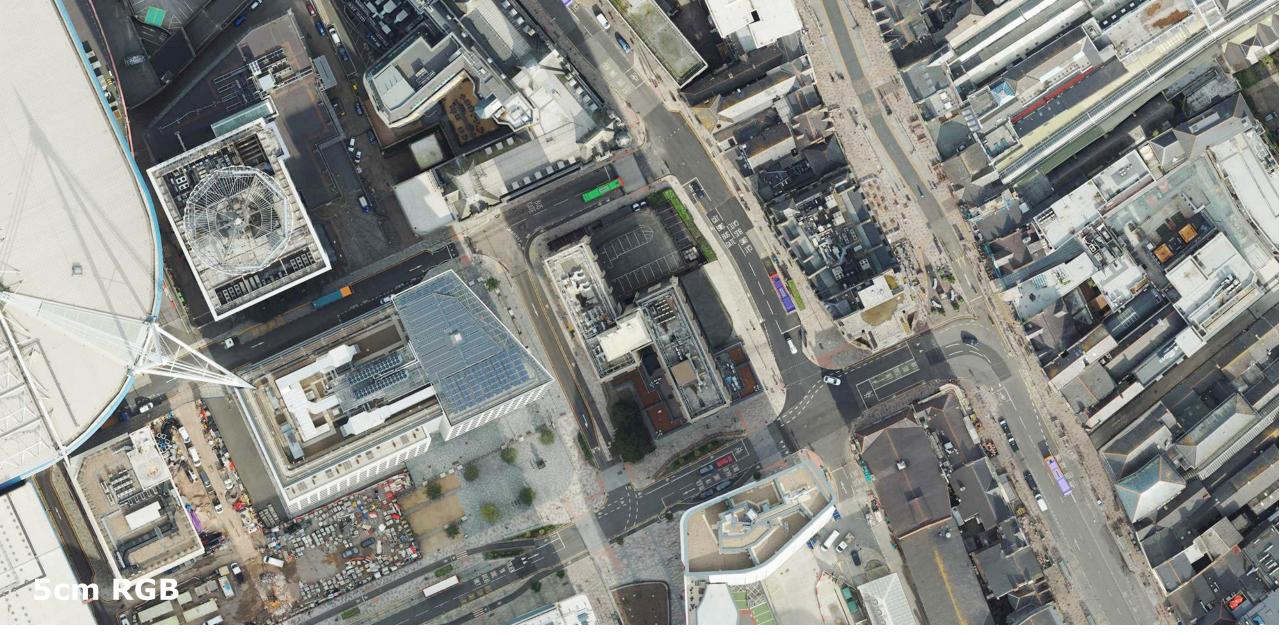






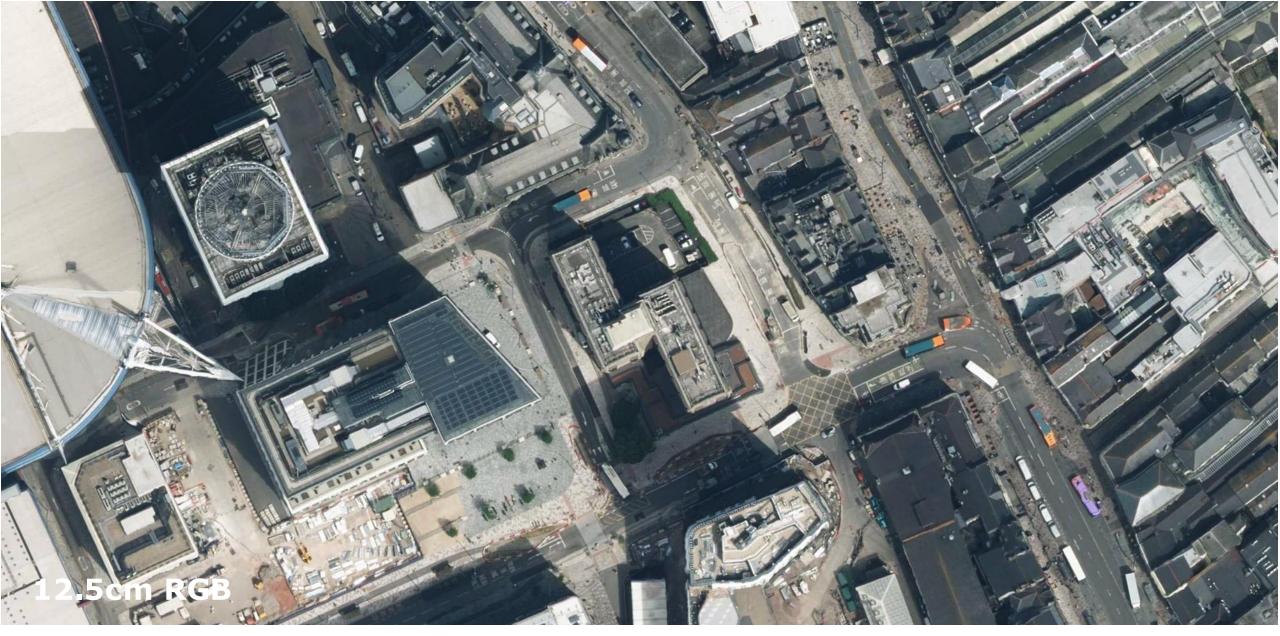
12.5cm









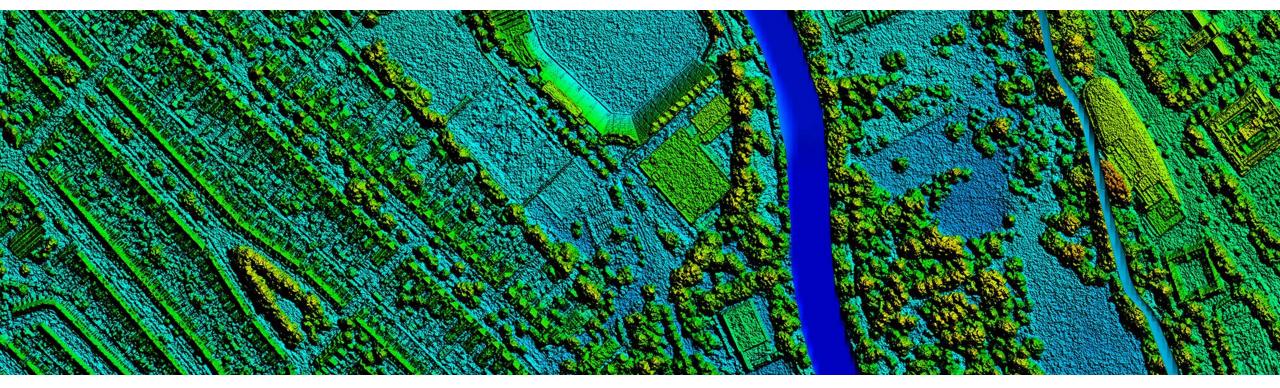






25cm DSM

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







25cm DSM

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

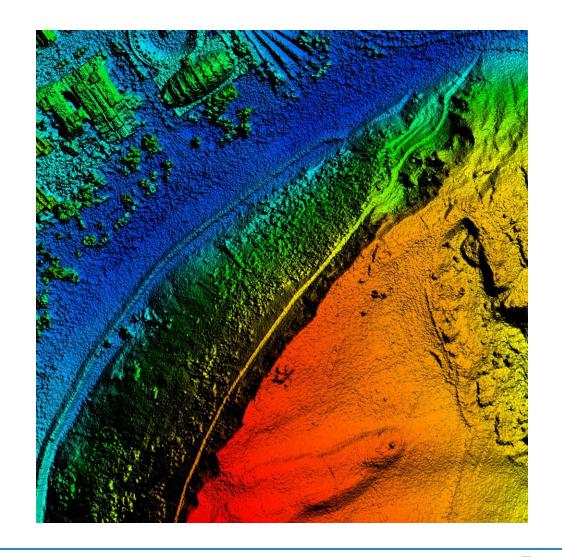






25cm DSM

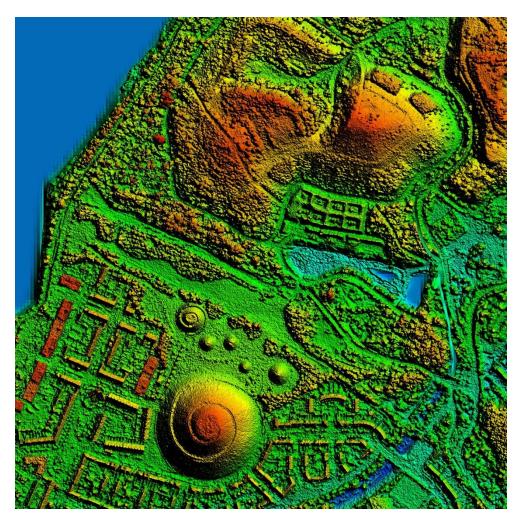
- Denser, more detailed surface
- Feature rich
- Increased accuracy
- Increased number of applications for:
 - LoS/ZVI analysis
 - Visualisations/Public engagement
 - Change detection
 - Land use analysis
 - Infrastructure/Urban planning

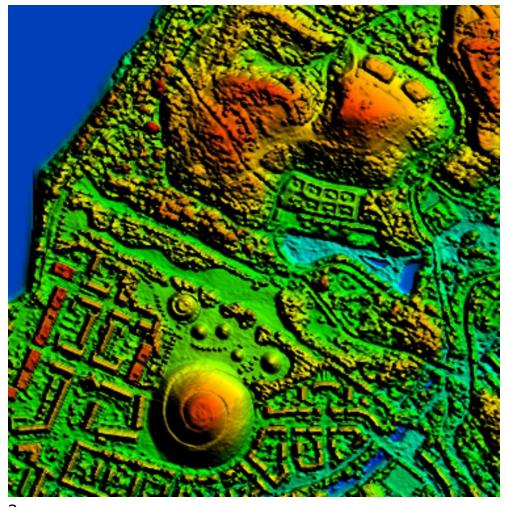






25cm/2m DSM Comparison







2m



25cm/2m DSM Comparison



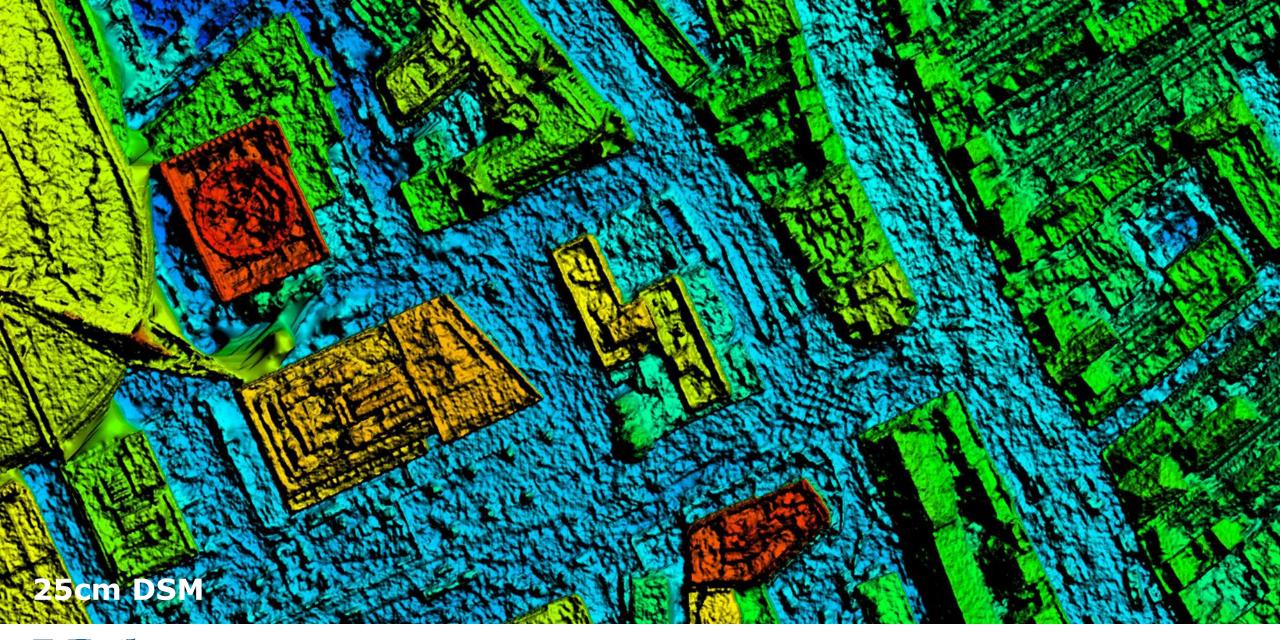






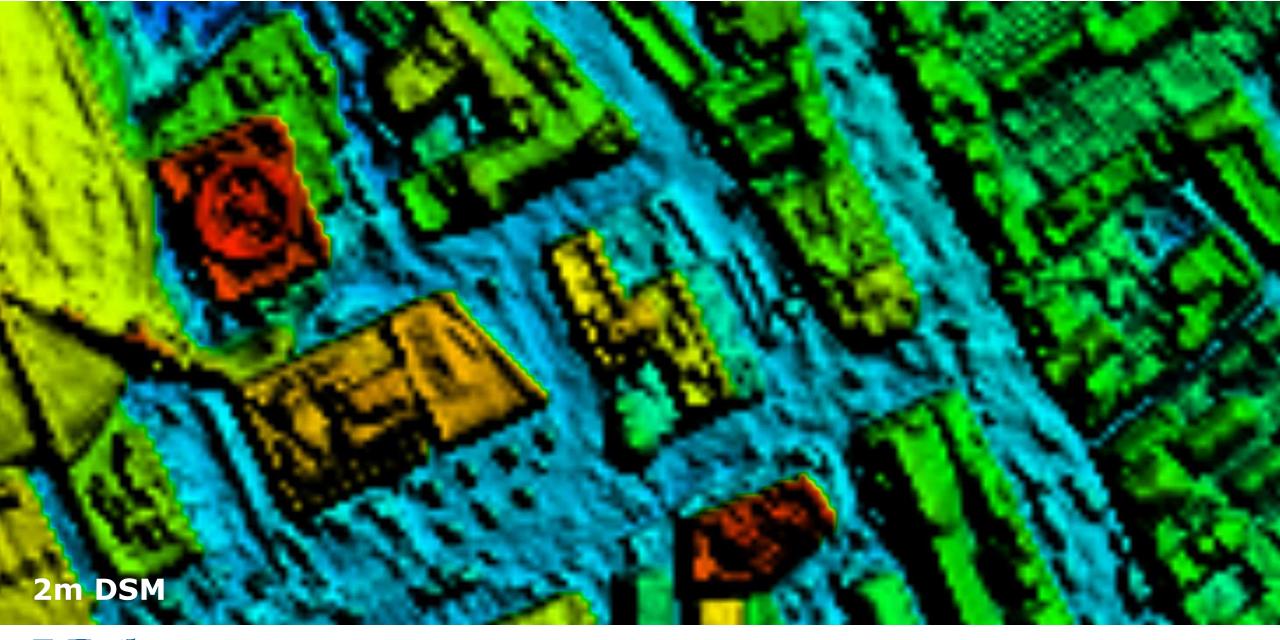














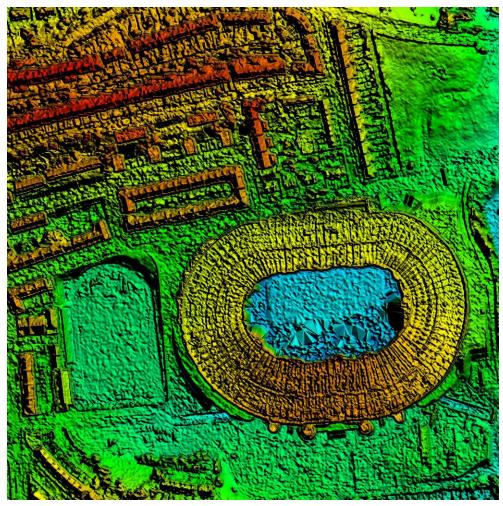


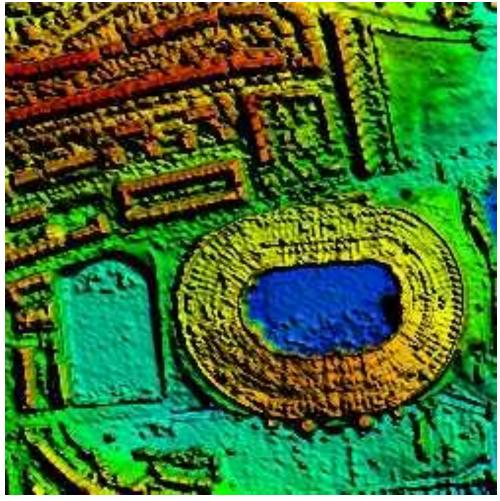






25cm/2m DSM Comparison





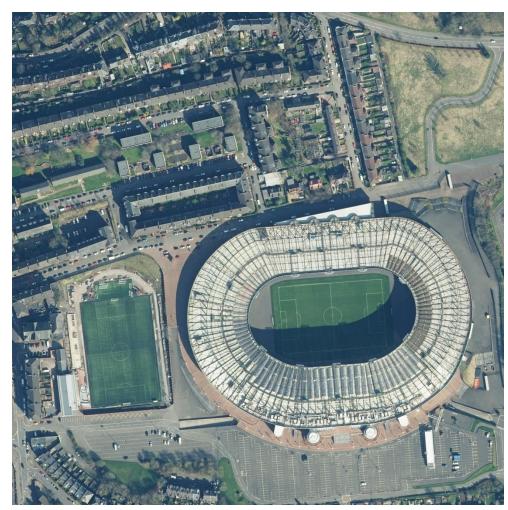








25cm/2m DSM Comparison





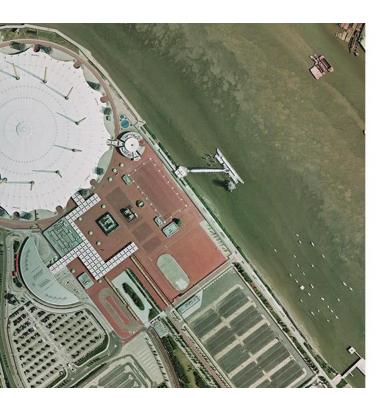


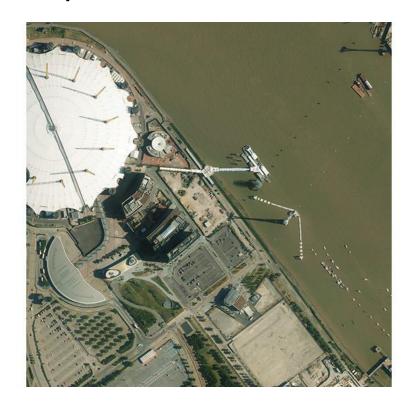


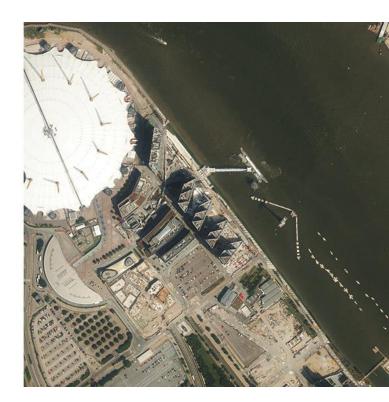


Historical Aerial Photography

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

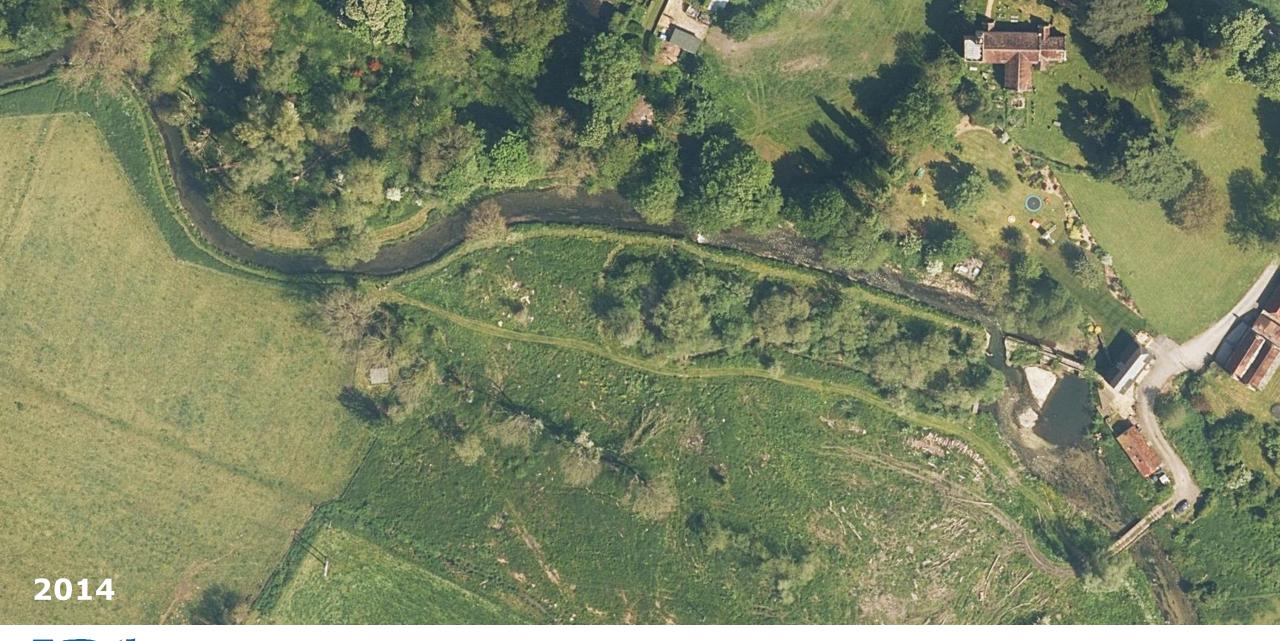






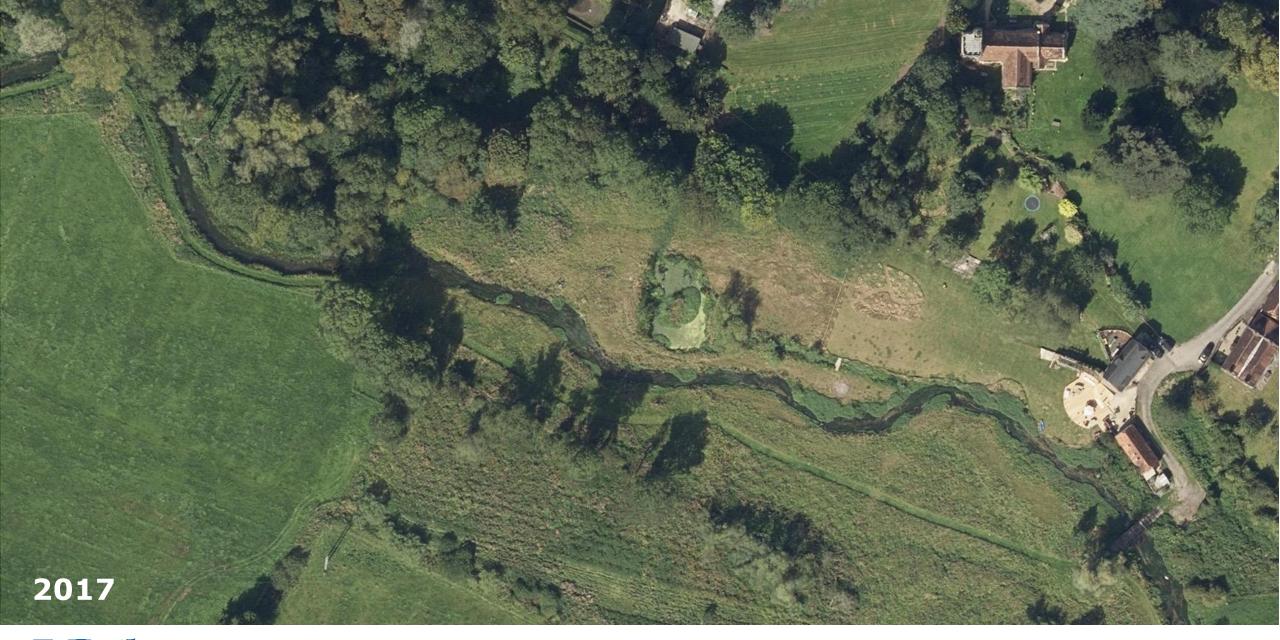






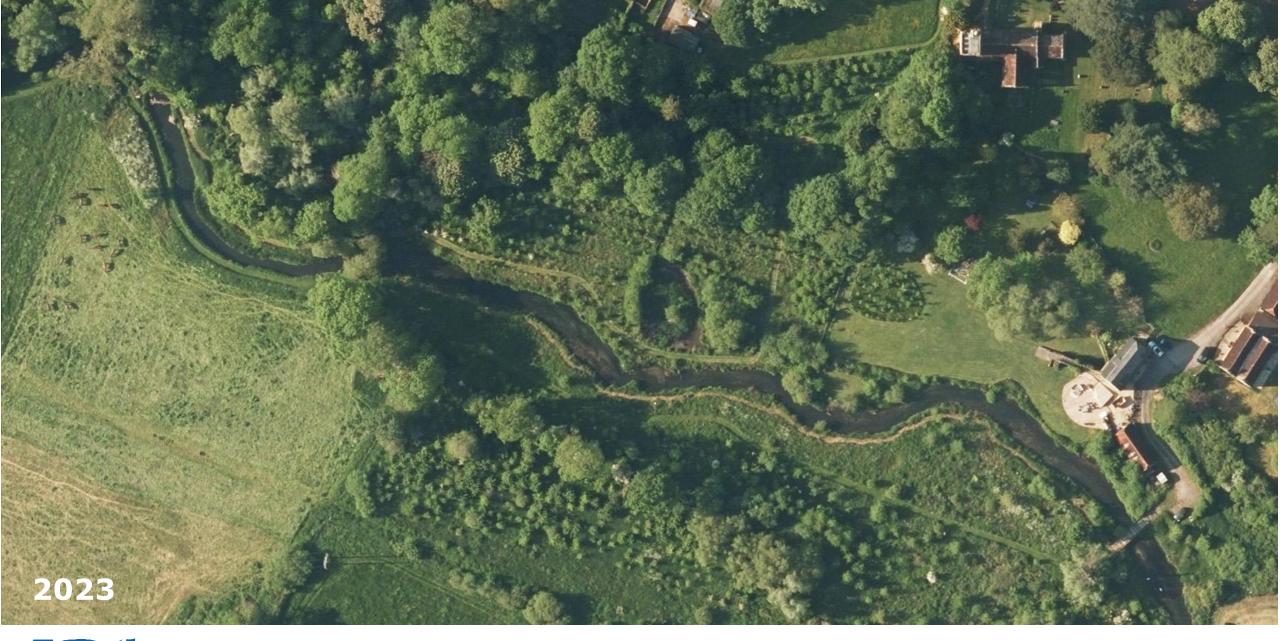
















APGB Stats

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

• 21 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 Kathryn Lucas









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

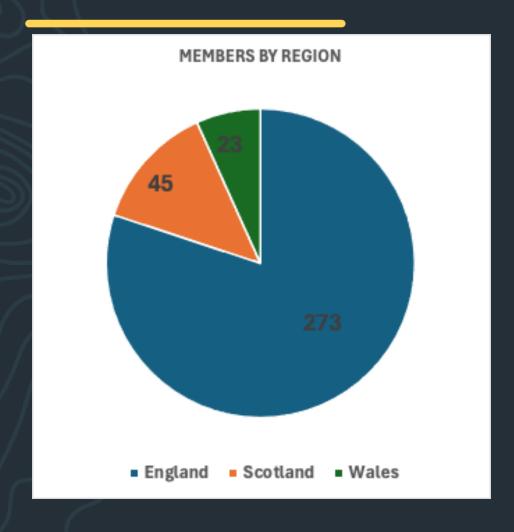


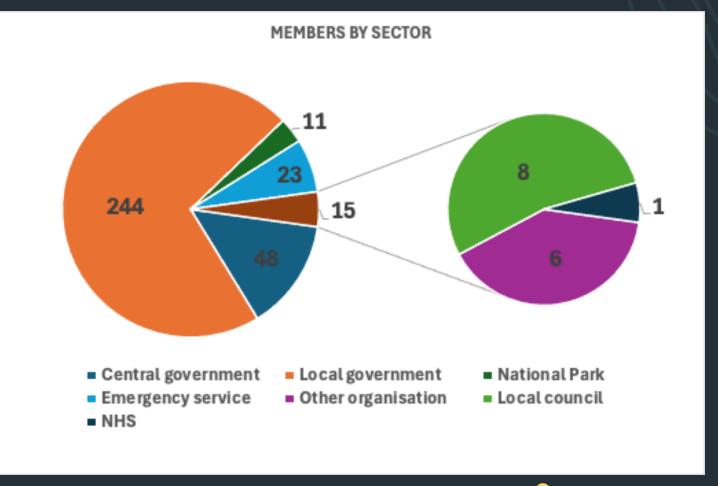
APGB WEB SERVICES OVERVIEW

- 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



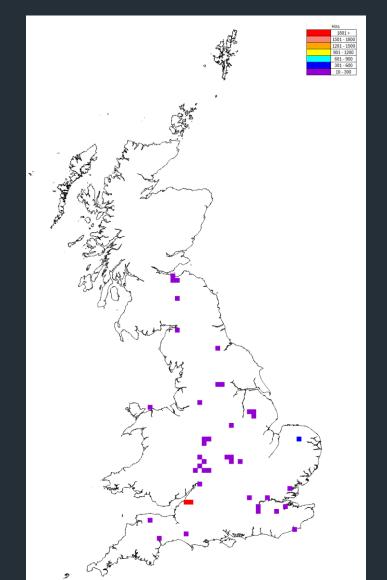
APGB MEMBER USAGE - WMTS HEAT MAP

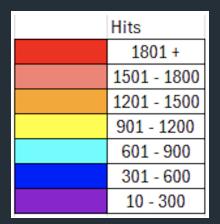


Hits
120001 +
100001 - 120000
80001 - 100000
60001 - 80000
40001 - 60000
20001 - 40000
10 - 20000



APGB MEMBER USAGE - WFS HEAT MAP

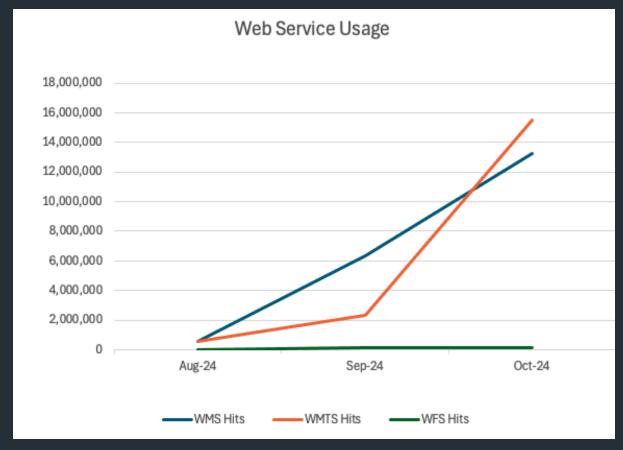






APGB MEMBER USAGE - TOTAL HITS

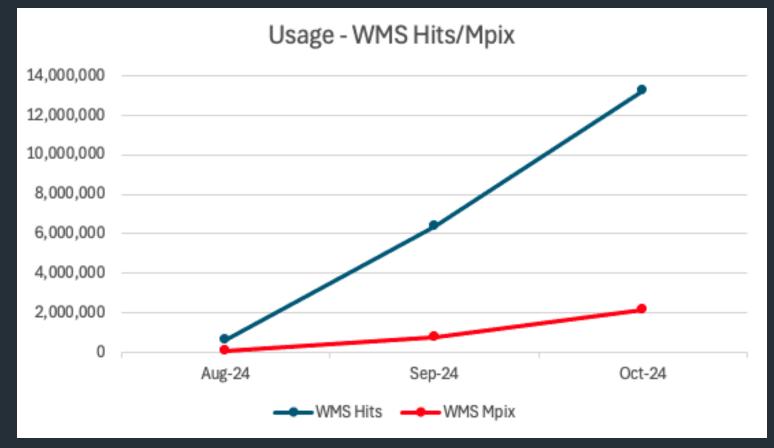
MEMBER SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE - WMS HITS/MPIX

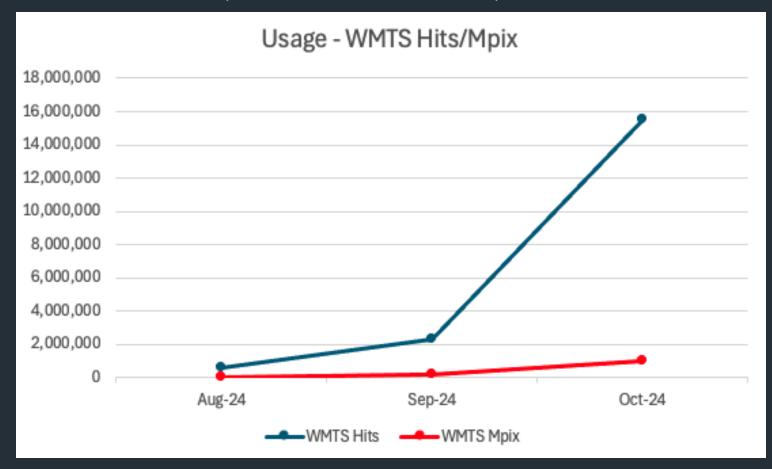
MEMBER WMS SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE - WMTS HITS/MPIX

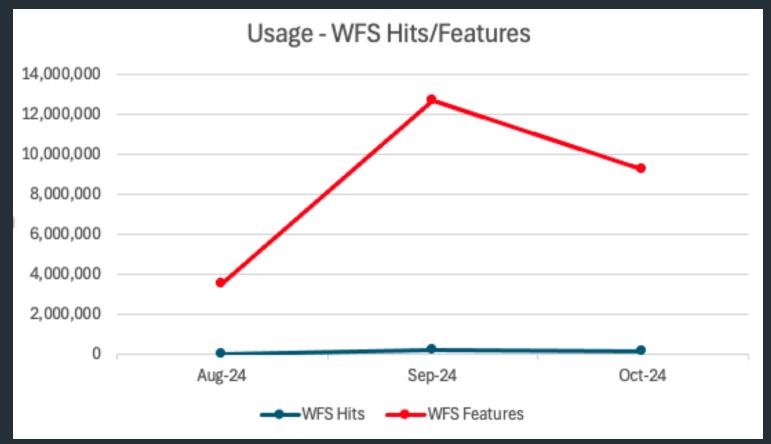
MEMBER WMTS SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE - WFS HITS

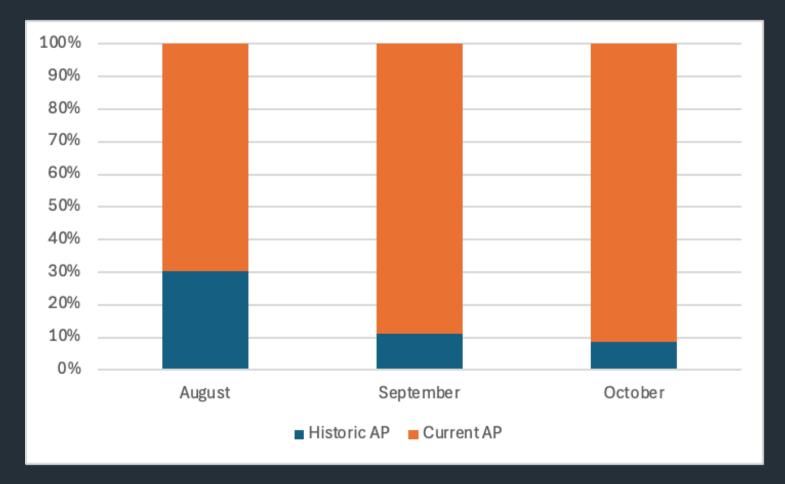
MEMBER WFS SERVICE RESUESTS (HIT COUNT BY MONTH)





APGB MEMBER USAGE – HISTORIC AP USAGE

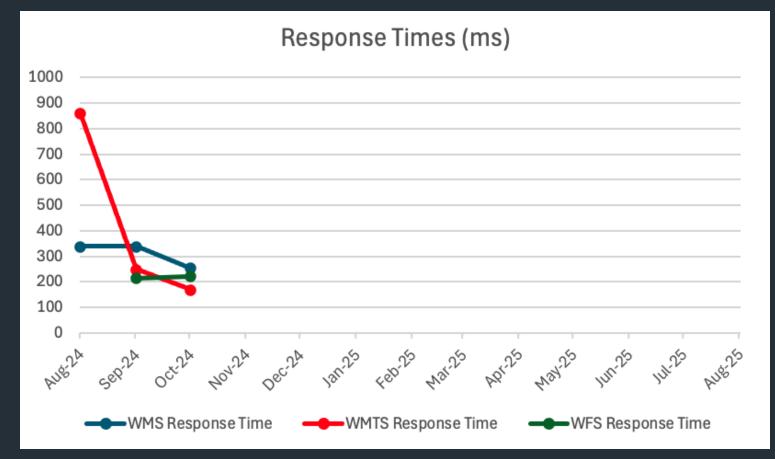
MEMBER HISTORIC / CURRENT SERVICE RESUESTS (AS PERCENTAGE OF TOTAL)





APGB PERFORMANCE DATA

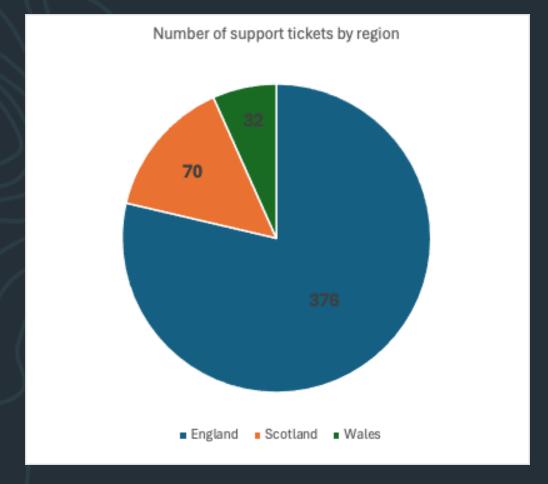
SERVICE PERFORMANCE BY MONTH

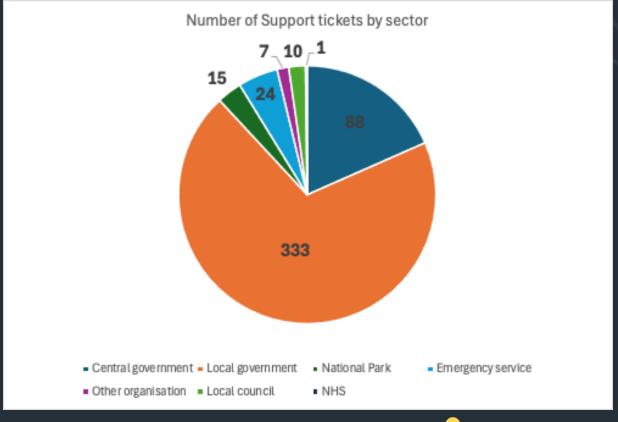




APGB LOGGED TICKETS

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

Helen Wattie / helen.wattie@getmapping.com



PSGA DEVELOPMENTS AND UPDATE

Rory Prentice



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



PSGA Communications

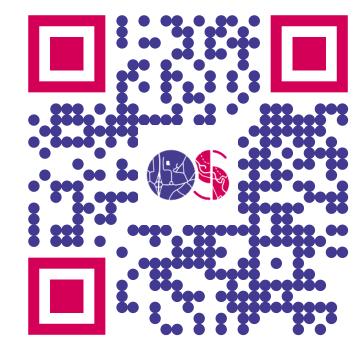
- Newsletters for regular updates on the PSGA
 - latest data releases
 - webinars and events
 - latest case studies and blogs
 - product and service updates
 - sign up at <u>os.uk/psganews</u>
- **OS website** for latest PSGA news, blogs and over 20 case studies published so far this year for inspiration 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





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

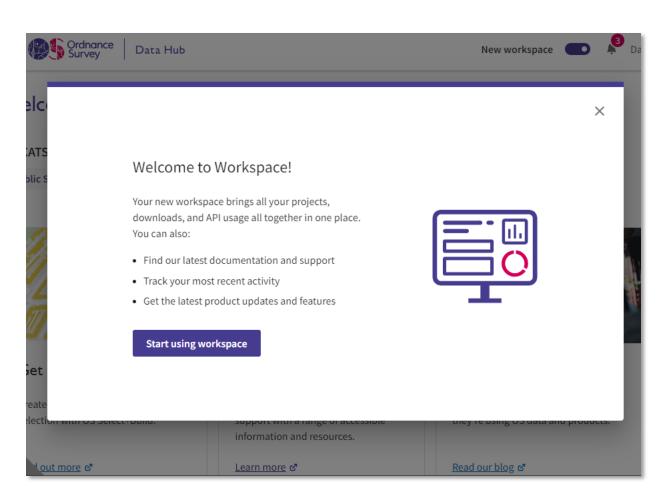
The Geospatial Commission and Ordnance Survey (OS) are hosting in-person events this autumn. Discover the value of geospatial to the public sector and get the support you need from OS and Aerial Photography data experts and OS Channel Partners.

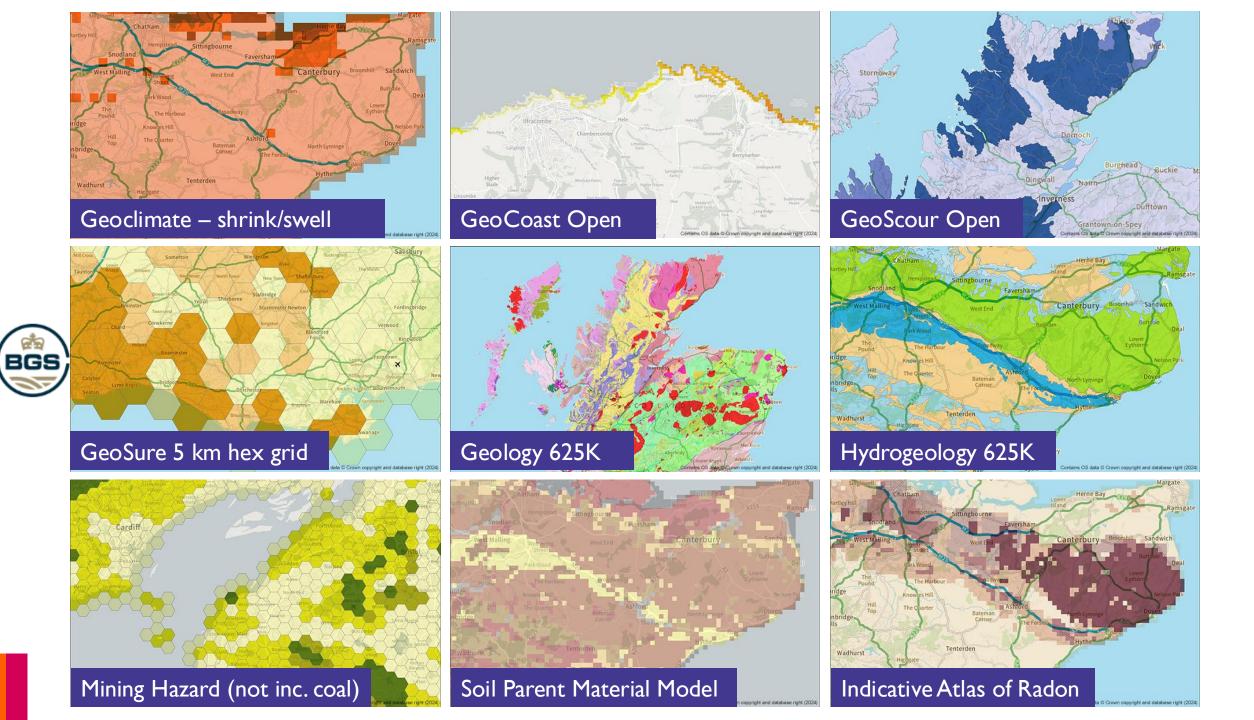


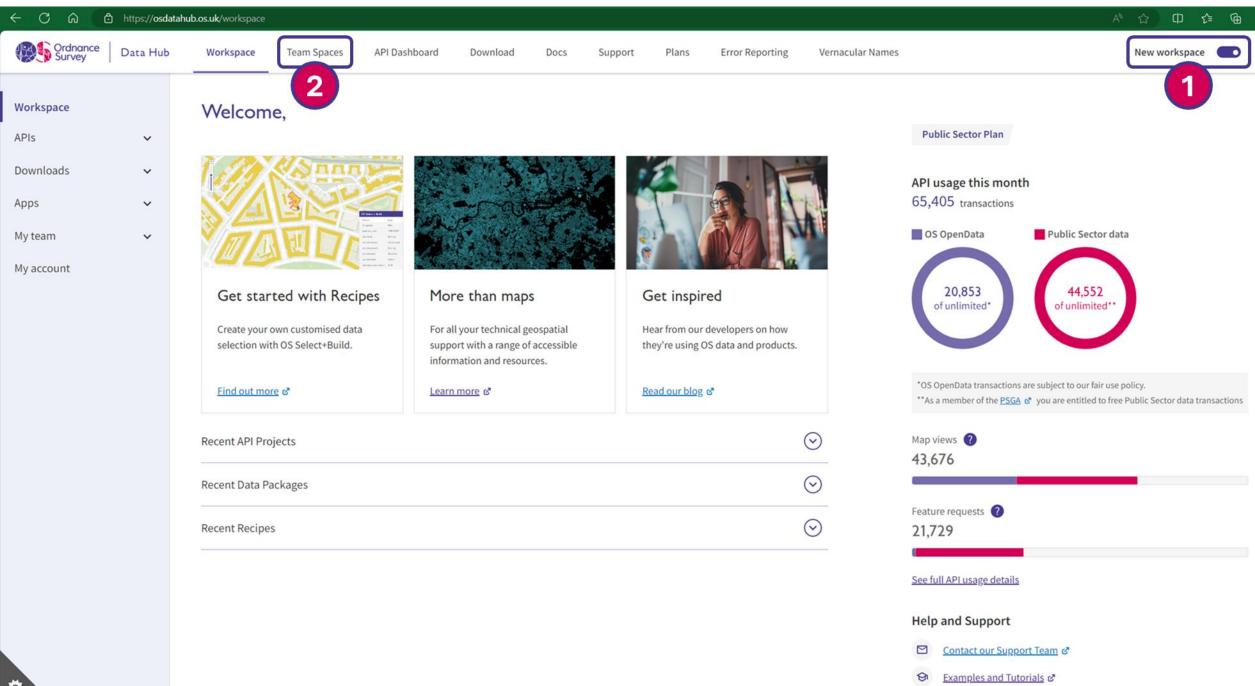
What's new - OS Data Hub

- 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 & Team Spaces functionality







Pricing and Licencing



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

PSGA Member Licence Start Guide



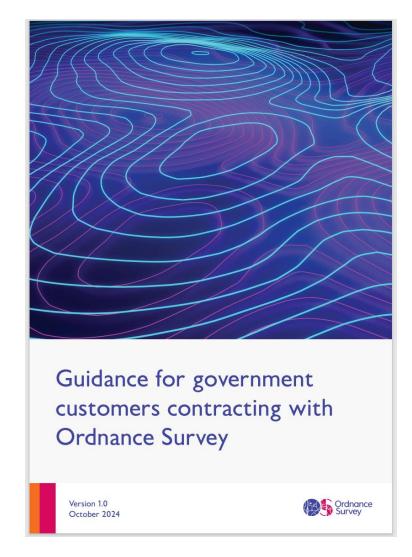
• Updated PSGA Member Licence (May 24) available with some updated URLs. Latest version of the licence is on our website:

PSGA Member Licence v 3.0

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



□ : L OS NGD Geographical Names theme

Names & location of road junctions

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

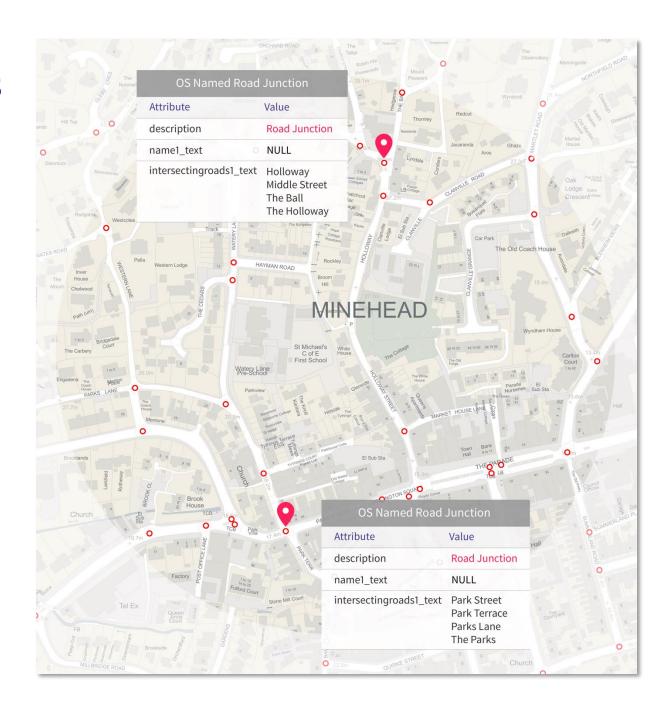


Number of Floors

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

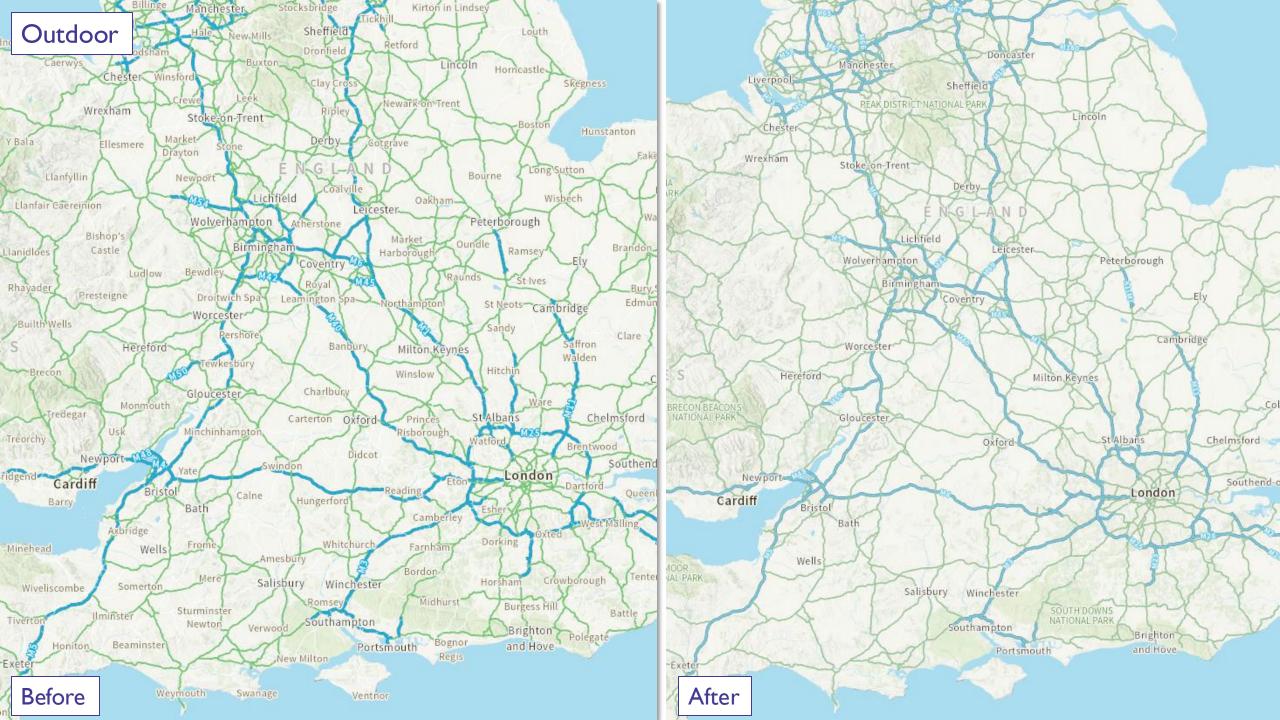
Other PSGA Product Updates

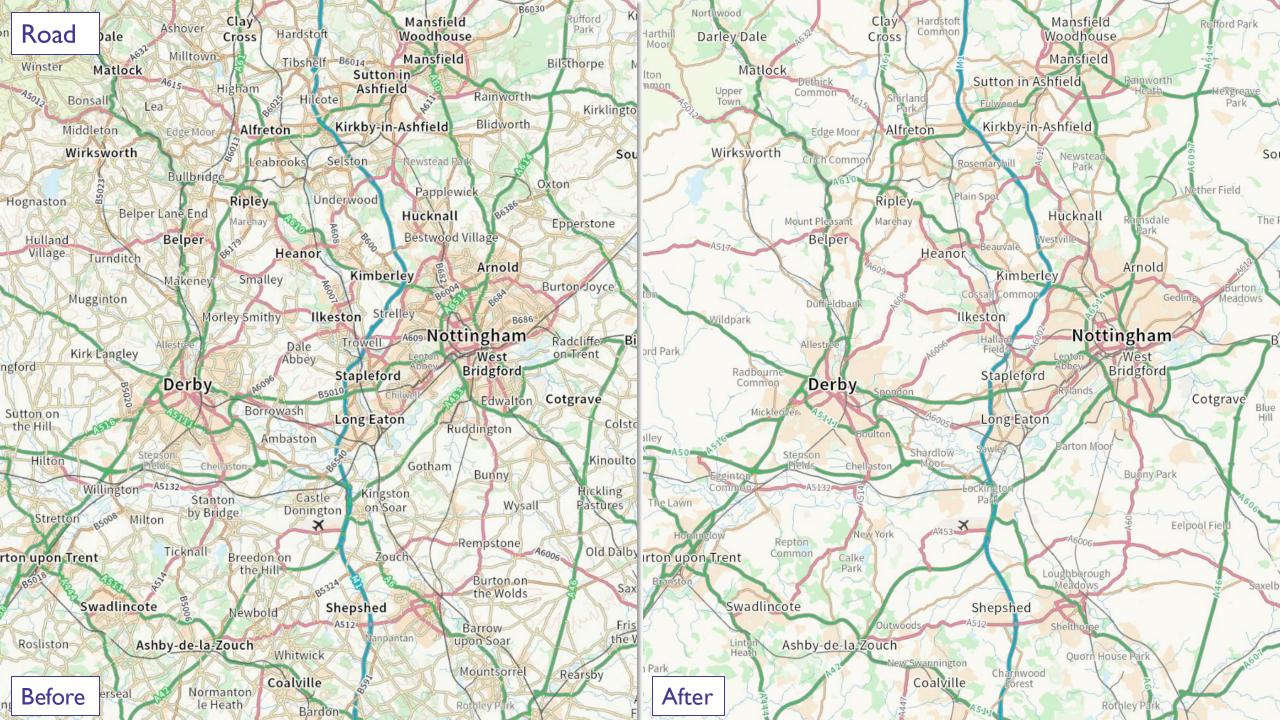
- Emergency Services Gazetteer
- Multi-Modal Routing Network
- OS VectorMap Local Vector (MBTiles) specification change in July release
- Improvements to OS Open Built-Up Areas

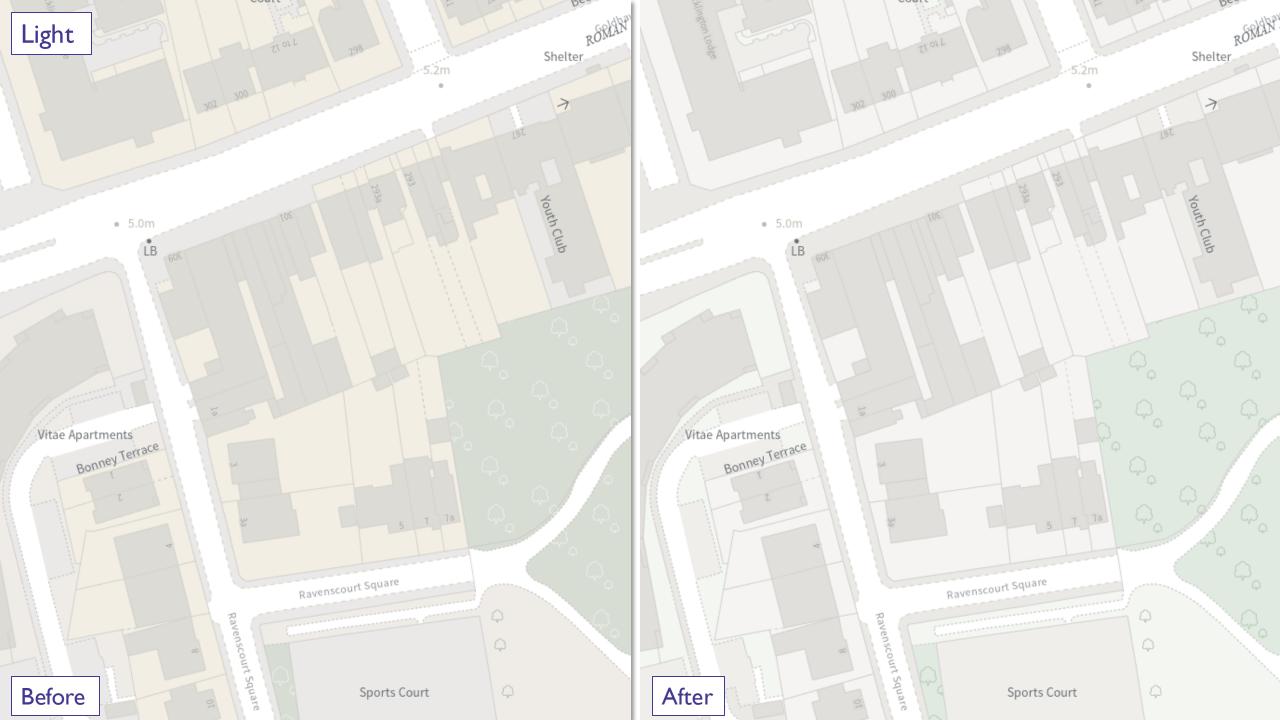


OS Maps API Styling









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

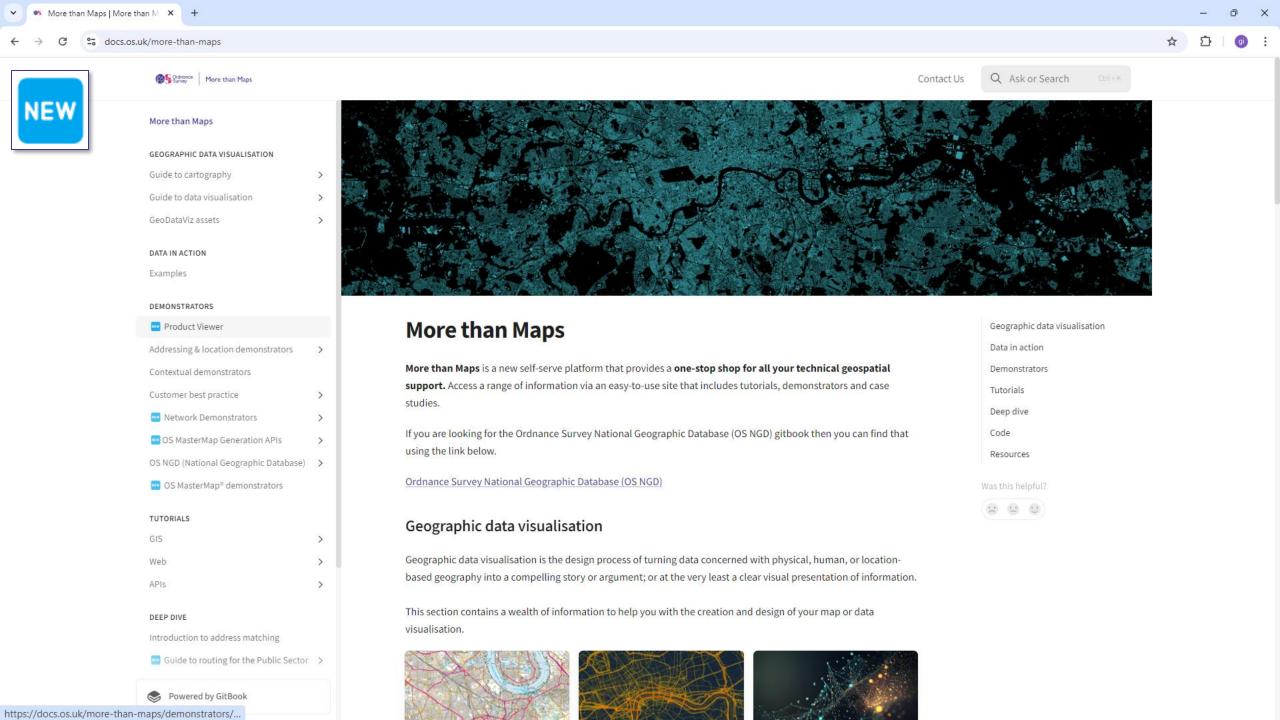




More Than Maps

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





More than Maps

GEOGRAPHIC DATA VISUALISATION

Guide to cartography

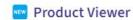
Guide to data visualisation

GeoDataViz assets

DATA IN ACTION

Examples

DEMONSTRATORS



Addressing & location demonstrators

Contextual demonstrators

Customer best practice



Product Viewer



OS NGD Product Viewer

Interactive Demonstrator of OS NGD
Generation data



Interactive Demonstrator of OS MasterMap Generation data

Previous Examples

Next
Addressing & location demonstrators

Last updated 25 days ago















NGD Product Viewer Beta Experie x +

Viewer

Share the OS NGD Product Viewer with others









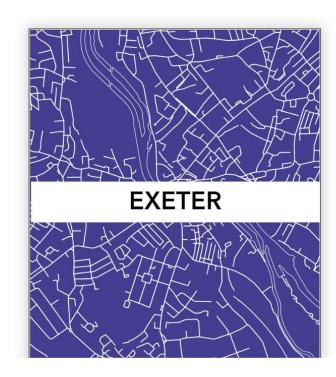


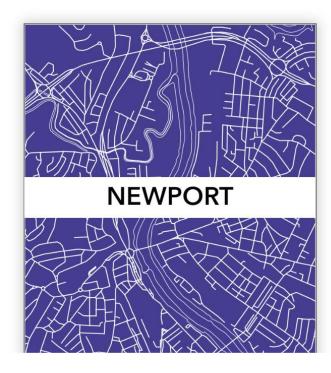


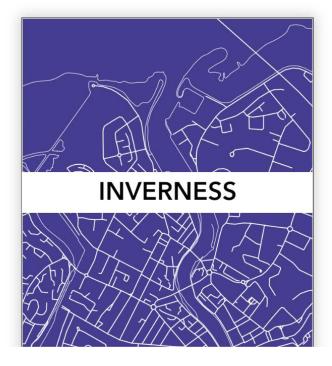
We have three sample data areas for you to explore. Click on the area that interests you and discover OS NGD data through the map viewer tool.

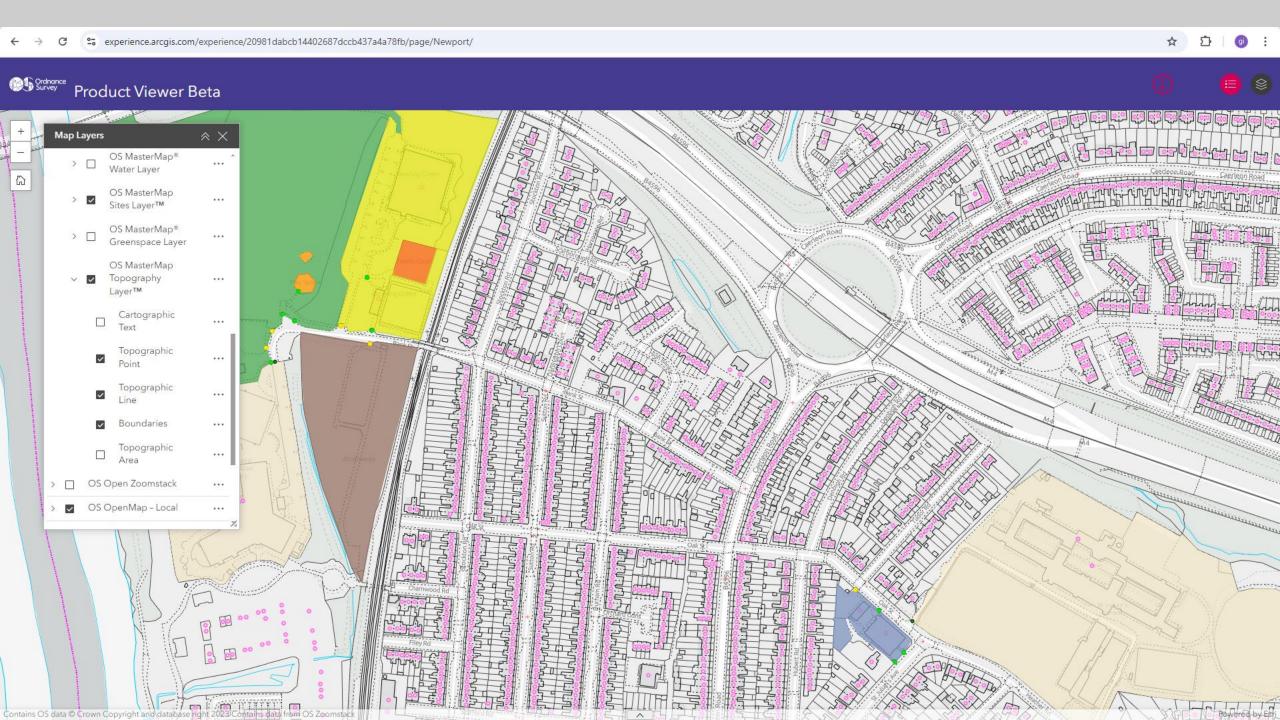
Currently excluding:

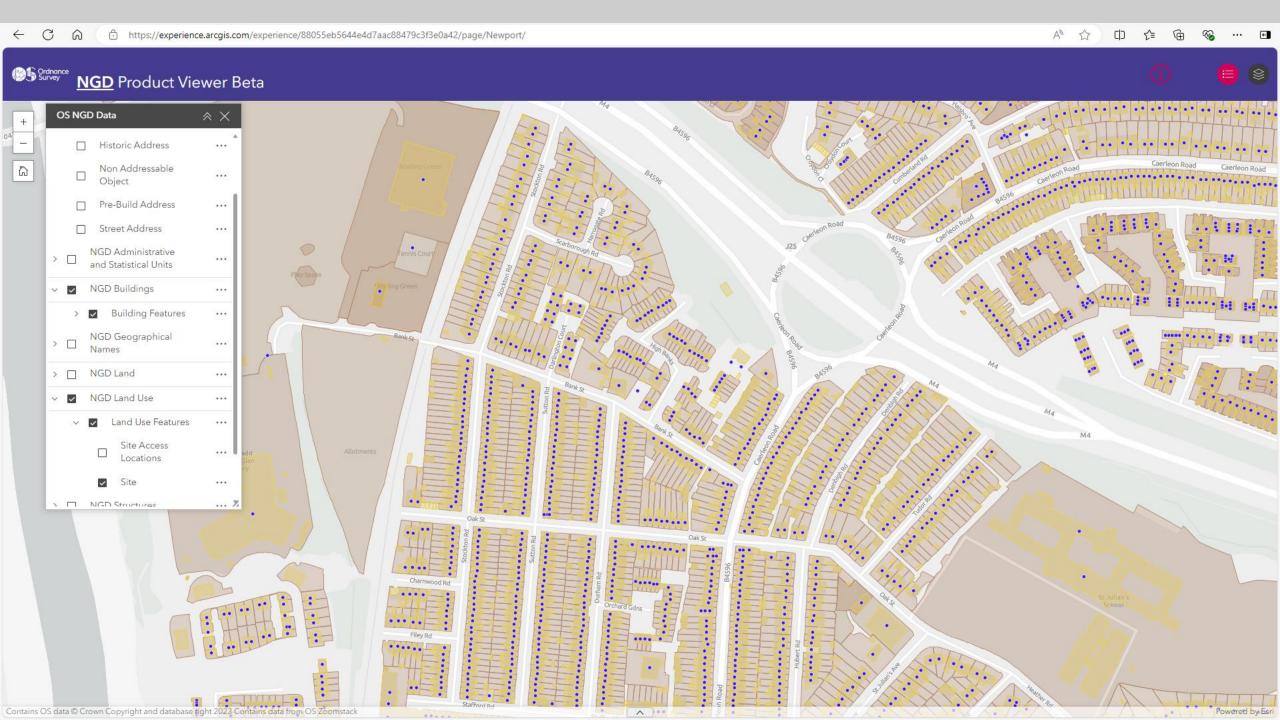
- Cross Reference table data
- Address Islands (none of the sample areas are included in this dataset)
- OS NGD Land Landform point (there is no data in the sample areas)
- OS NGD Transport Network Tram on road, Railway Link Set (there is no data in the sample areas)
- OS NGD Transport RAMI Reinstatement point Reinstatement area, Maintenance point, Maintenance area (there is no data in the sample areas)
- Previous versions of data (newest version only included)











Thank You!

PSGA Helpdesk psga@os.uk

Tel: 03453 75 75 95

Rory Prentice rory.prentice os.uk



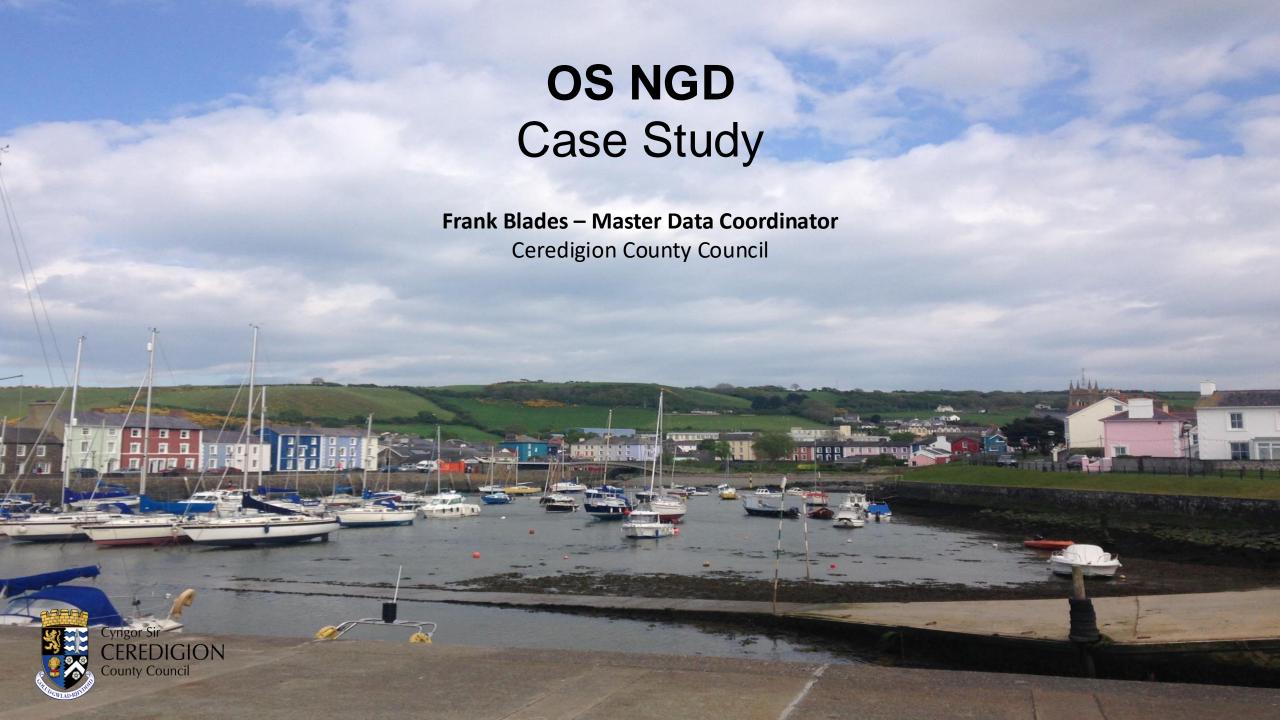




WELCOME BACK

The next session will start at 15:20





Data Team

The Data Team is part of the Application Support Team which falls within the Customer Contact & ICT Department of Ceredigion County Council. Our work includes:

- GIS & Digital Mapping
- Maintain the LLPG & NSG
- Utilising OS Data Resources
- Corporate Data Maintenance
 - Bespoke Data Projects

Meet The Team



Frank Blades
Master Data Coordinator



Matthew Gray
Master Data Team Leader



Steffan Jones
Master Data Coordinator



Frank Blades: <u>Frank.Blades@ceredigion.gov.uk</u>
Ceredigion County Council: www.ceredigion.gov.uk

Ceredigion





Examples of OS Data Usage by Ceredigion Council

- Internal & External Maps OS Base Mapping
- LLPG OS Address Theme
- Planning Enforcement Caravans Project OS Buildings Theme
- Place Name Project OS Geographical Names Theme (namedarea)
- Traffic Team OS Average Speed Data
- Adopted Highways OS Land (Roadtrack&path)
- Refuse Collection Project OS Buildings Theme / OS Address Theme / OS AddressbaseCore



Refuse Collection Project

Holiday Accommodations

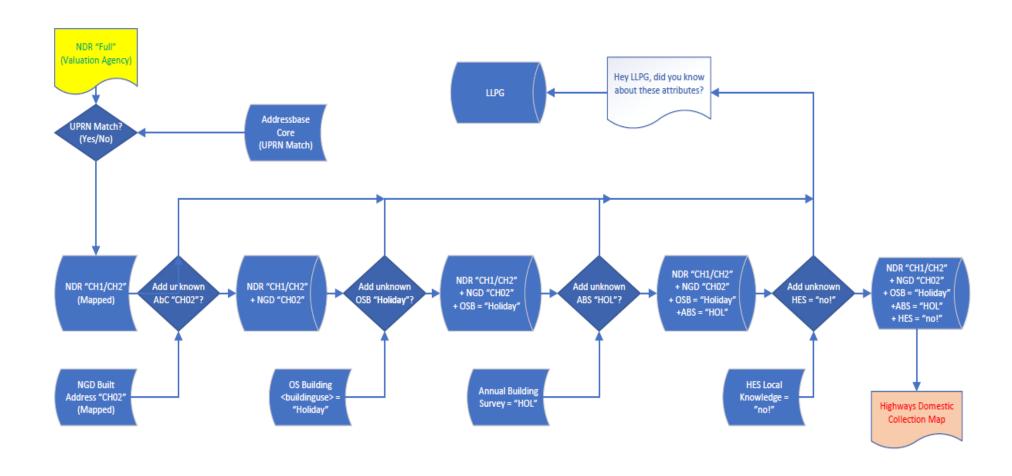
Introduction

The Data Team were asked to provide a mapping tool to allow Council Waste Operatives (Highways Team) to easily identify Holiday Homes. The data and mapping component will be integrated into an application designed for installation on a tablet. This tablet will be deployed within the cab of the refuse collection vehicle, serving as a GPS-enabled rolling map for real time navigation and operational use.

This process allows the Council to streamline refuse collection and avoid the operatives inadvertently collecting commercial refuse. It also serves to improve data quality across the authority, and this will ensure residents receive best quality service.



FME Workflow





Data Utilisation

We utilise OS NGD to obtain essential address and polygon data for properties. To ensure a high degree of accuracy in our addressing system, we cross-reference Council Tax data with OS NGD address products. This methodology not only enhances the precision of our addressing but also enables us to assign Unique Property Reference Numbers (UPRNs).

NGD Themes

- Buildings / Building Features / Building
- Address / GB Address / Built Address

OS Downloads

AddressbaseCore



Data Enrichment

To create a more robust dataset, we source several internal data sources to cross reference Holiday Home addresses. This comprehensive approach ensures that our data is both rich and reliable.

Internal Data

- Council Tax
- Local Land & Property Gazetteer
- Planning Policy New properties
- Highways HES local knowledge



Data Set Creation

We have developed three new datasets to display building polygons across the county.

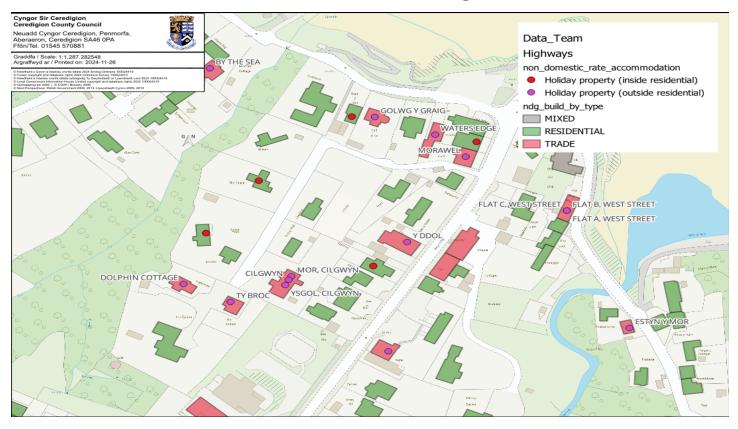
Using the OS NGD Recipe Builder via our OS Data Hub account, we categorised these datasets into building types: mixed use, residential and trade.

- Mixed use Filtered recipe on 'description' = 'Mixed use building'
- 2. Residential Filtered recipe on 'building use' = 'Residential Accommodation'
- 3. <u>Non-Residential (Trade)</u> Filtered recipe on 'building use' is not 'Residential Accommodation / mixed use / unknown / unknown use / agriculture or Aquaculture / transport Road / Transport water'



Analysis and Visualisation

With the Holiday Home locations (points) and Building Type polygons established, we then overlay these datasets. This enables us to visually display Holiday Homes located within 'residential' buildings.







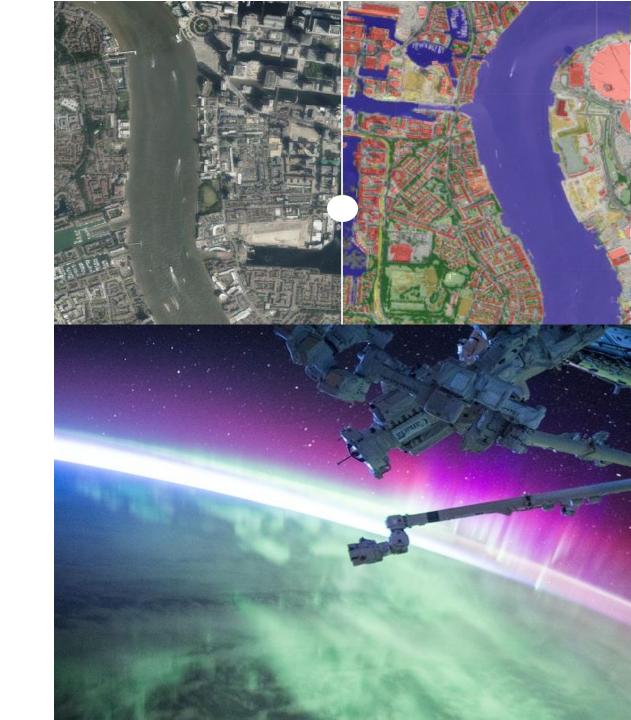
PSGA FUTURE CAPABILITIES- UPDATE

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

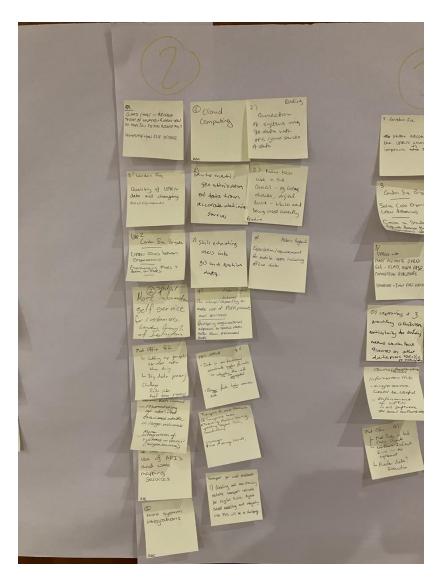
Additional feedback gathered in workshop at OS Partner Conference, March 2024

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!





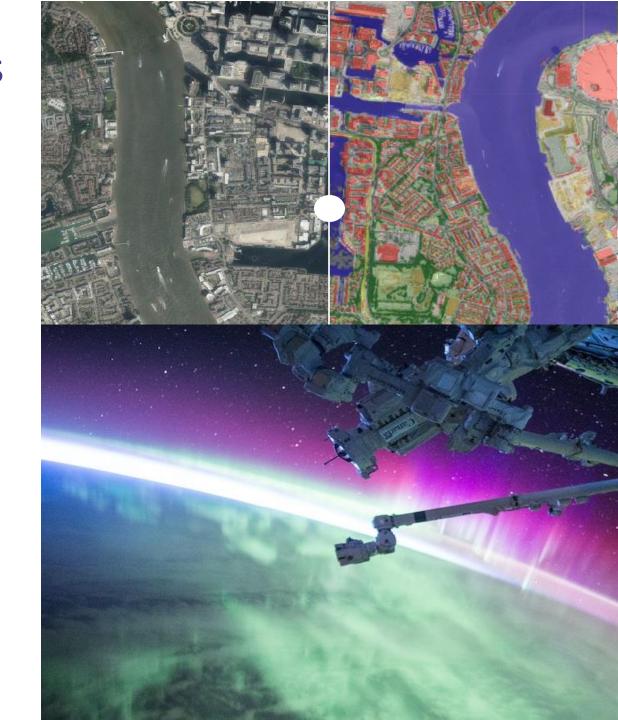


Priority Future capability themes

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)

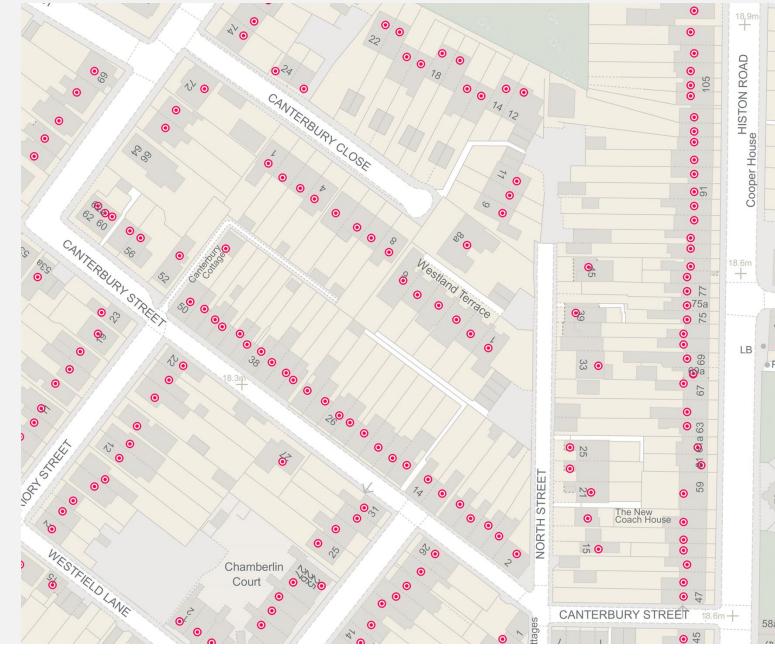


Continued proposition development and engagement with customers to ensure requirements are fit for purpose



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"

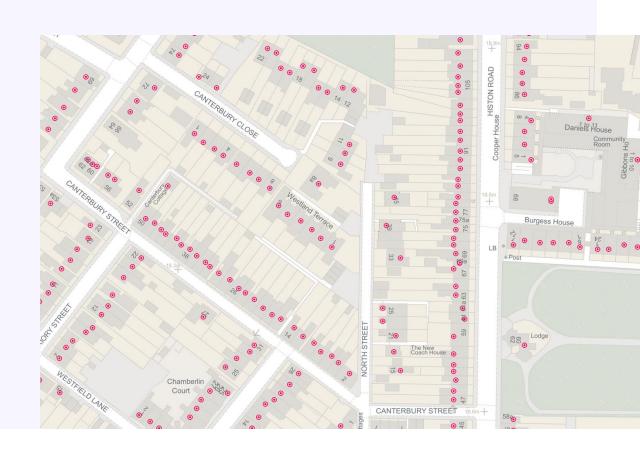
ASTRID Pilot

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

