

Providing a single view of land and property in Northern Ireland

Gareth Young

Geospatial Innovation & Integration Manager
Ordnance Survey of Northern Ireland



Land & Property Services
Seirbhísí Talún & Maoine





Land & Property Services
Seirbhísí Talún & Maoine





Collect, supply and licence authoritative mapping and geospatial data for Northern Ireland
Provide geospatial advice and expertise to the public sector



Maintain the Title Register in Land Registry, Statutory Charges Register and the Registry of Deeds
Provide accurate land information services



Maintain domestic and non-domestic valuation lists for local taxation
Advice and valuation services, estate management and property information service to the public sector



Collect over £1 billion annually in local property taxes
Administer rate relief, benefits and allowances



Land & Property Services
Seirbhísí Talún & Maoine

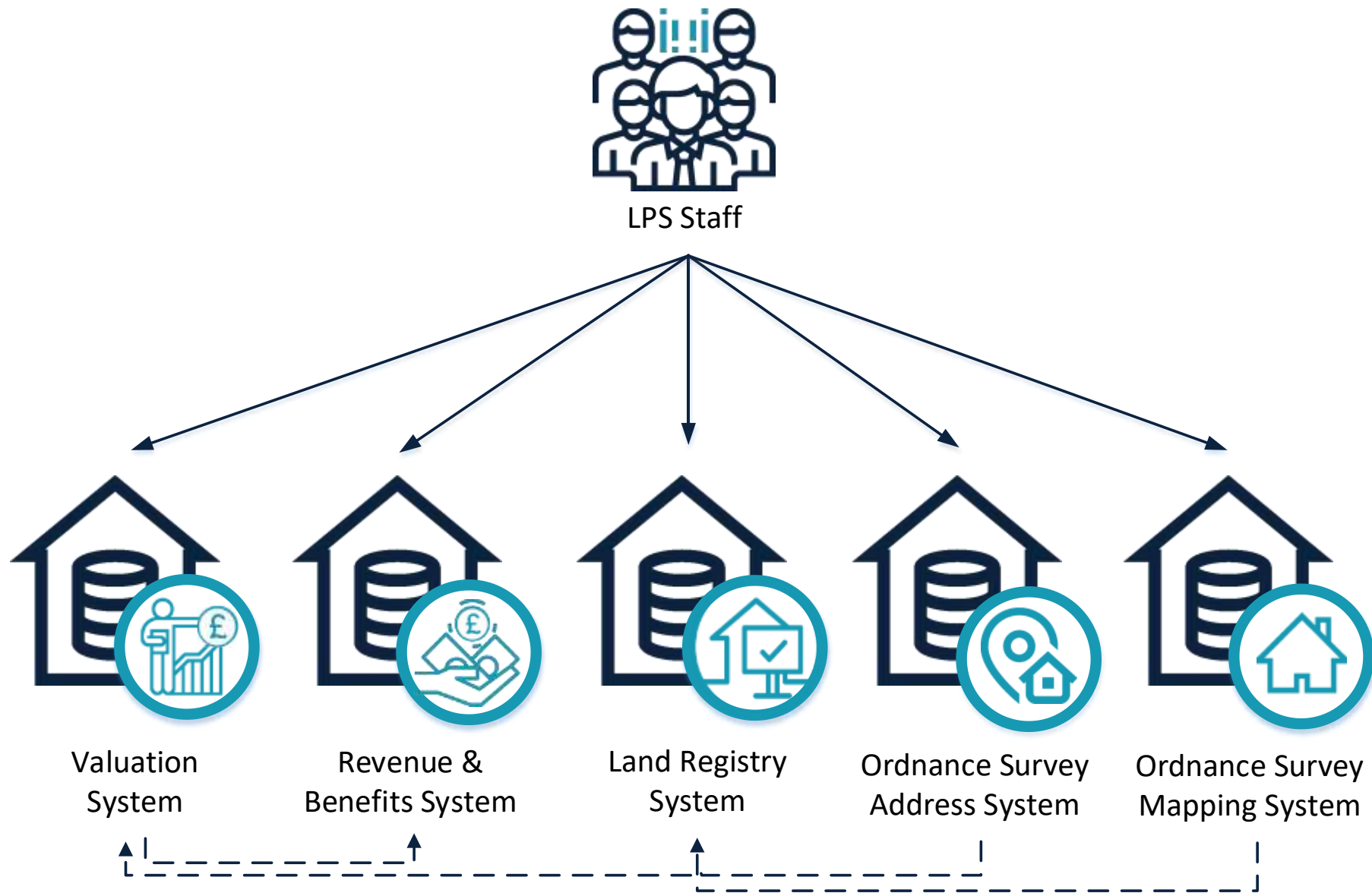


Land & Property Services has a wealth of data relating to both land and property within Northern Ireland.



Land & Property Services
Seirbhísí Talún & Maoine

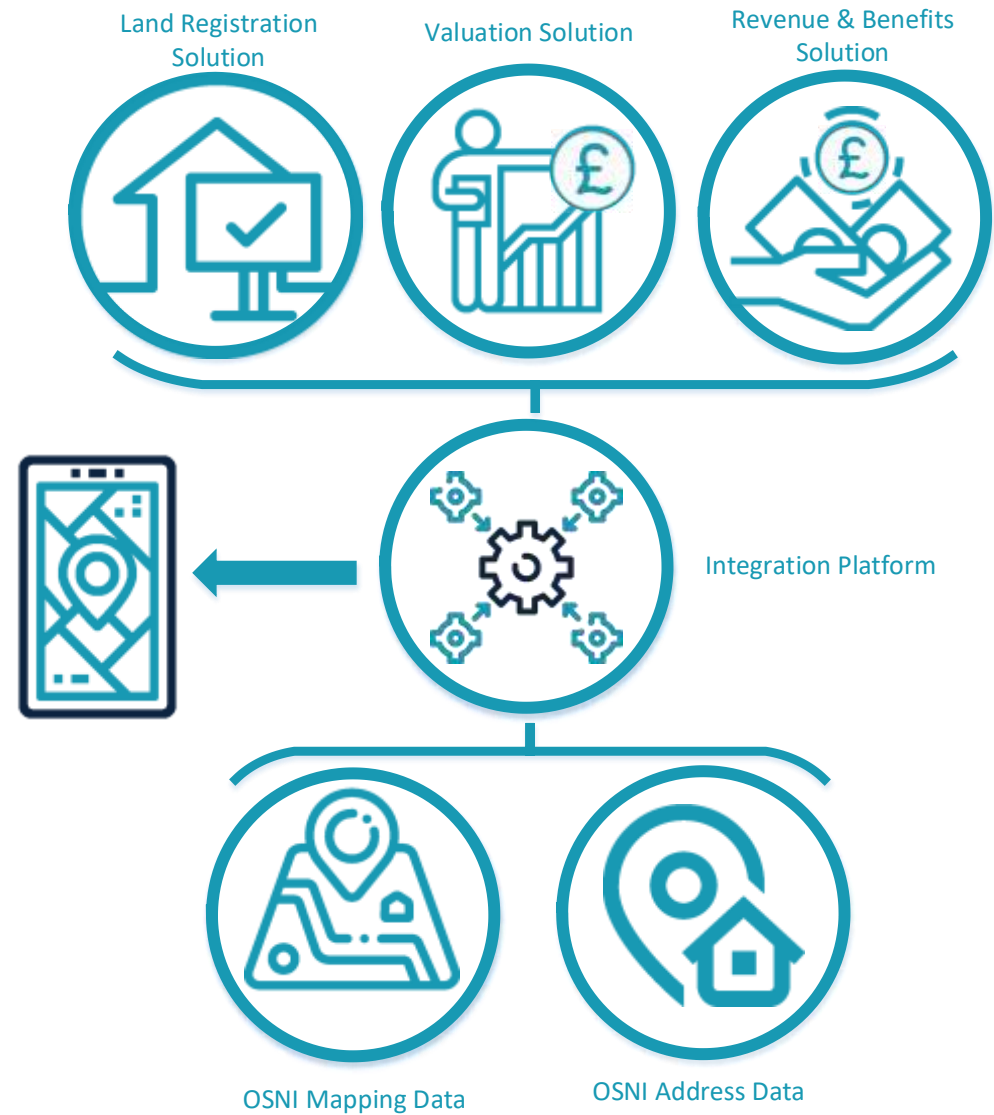




nova

LPS TRANSFORMATION

Single view of land
& property



Land & Property Services
Seirbhísí Talún & Maoine



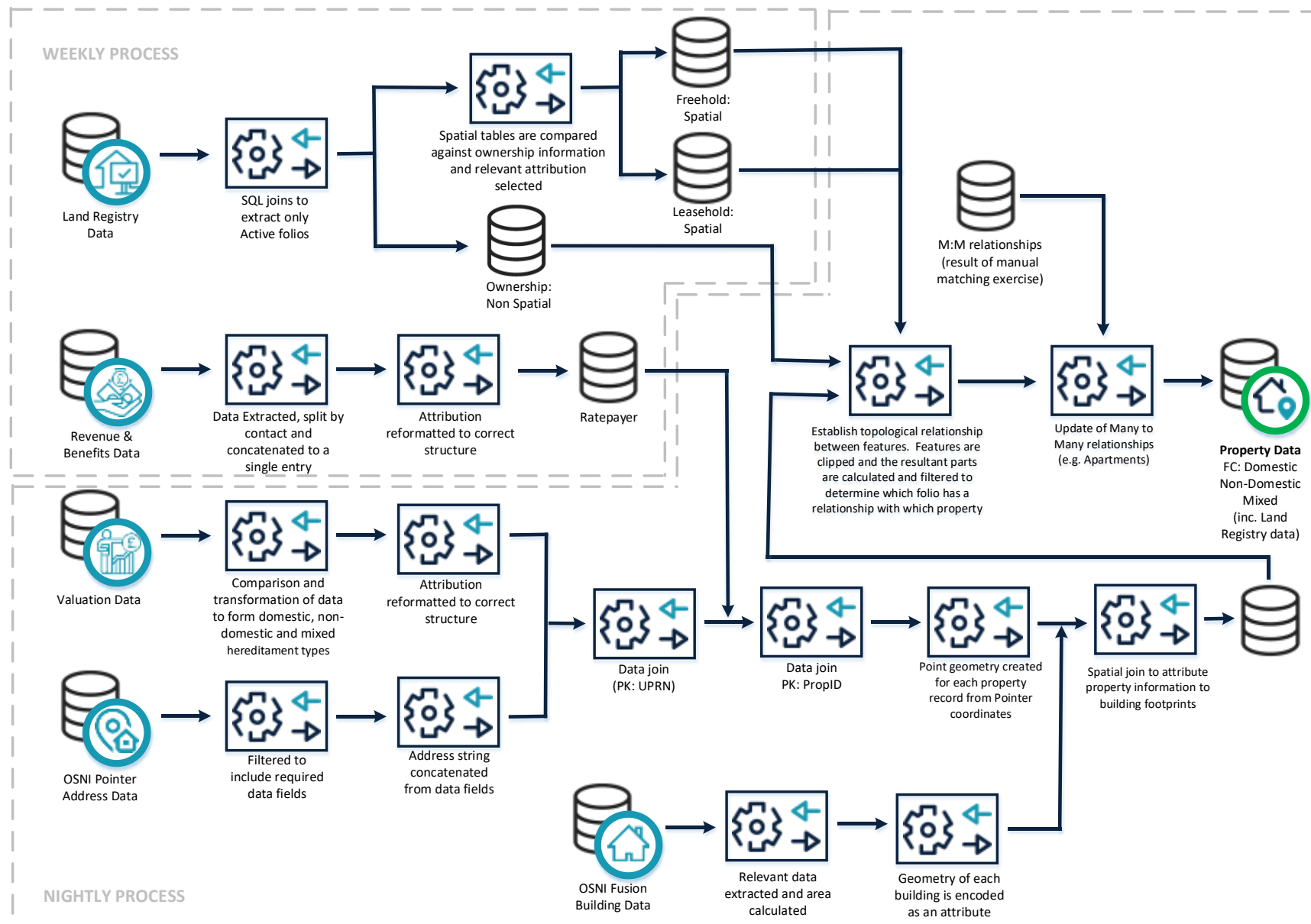
Project 1

Integrated Mapping Application



Land & Property Services
Seirbhísí Talún & Maoine







Building Workspaces

18 Months



Volume of Data
Processed Nightly

13.5 Million
Records



Number of data
transformations

225



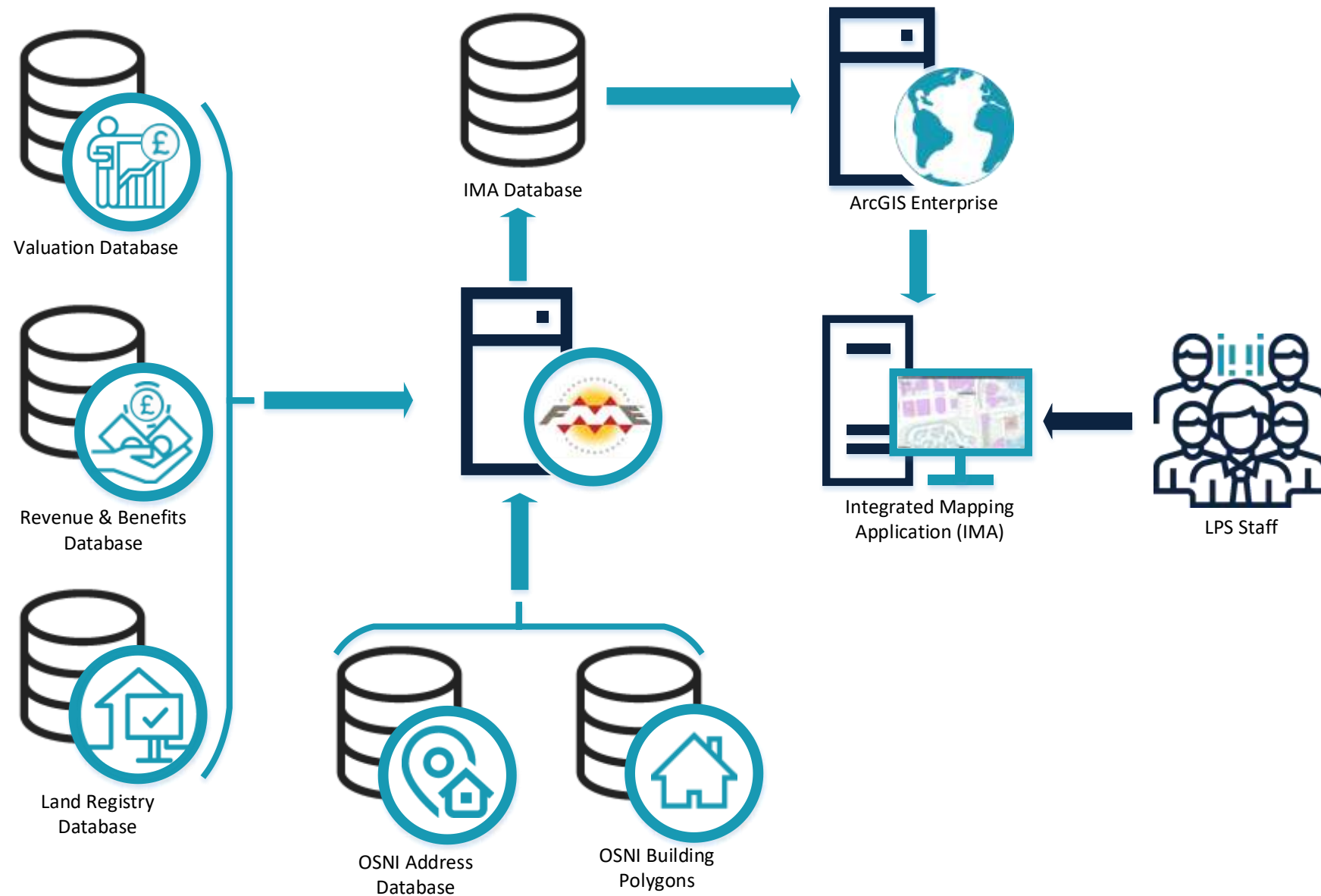
Nightly processing
time

7 ½ Hours



Land & Property Services
Seirbhísí Talún & Maoine

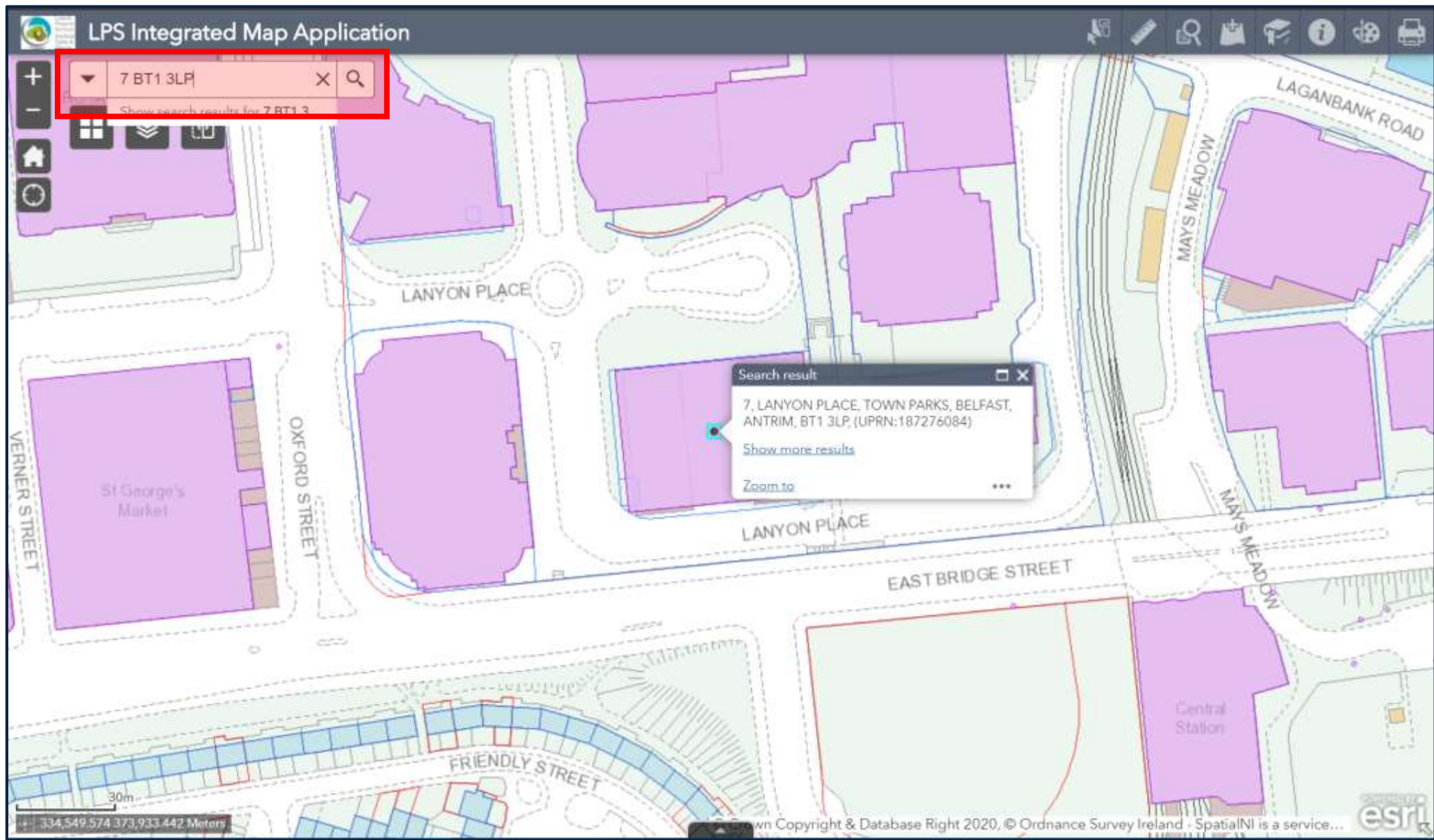




Land & Property Services Belfast Office

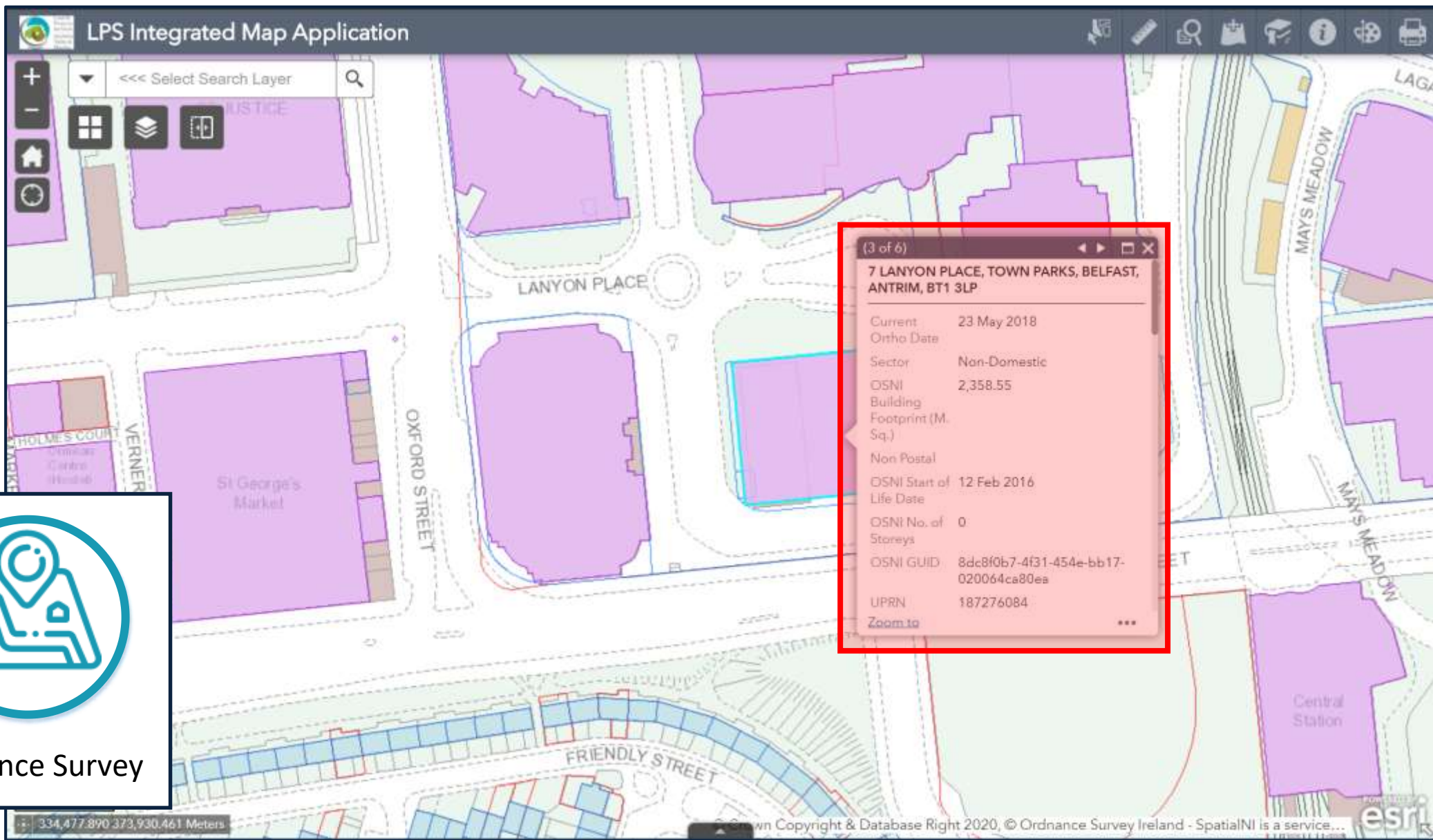


Land & Property Services
Seirbhísí Talún & Maoine



Land & Property Services
Seirbhísí Talún & Maoine



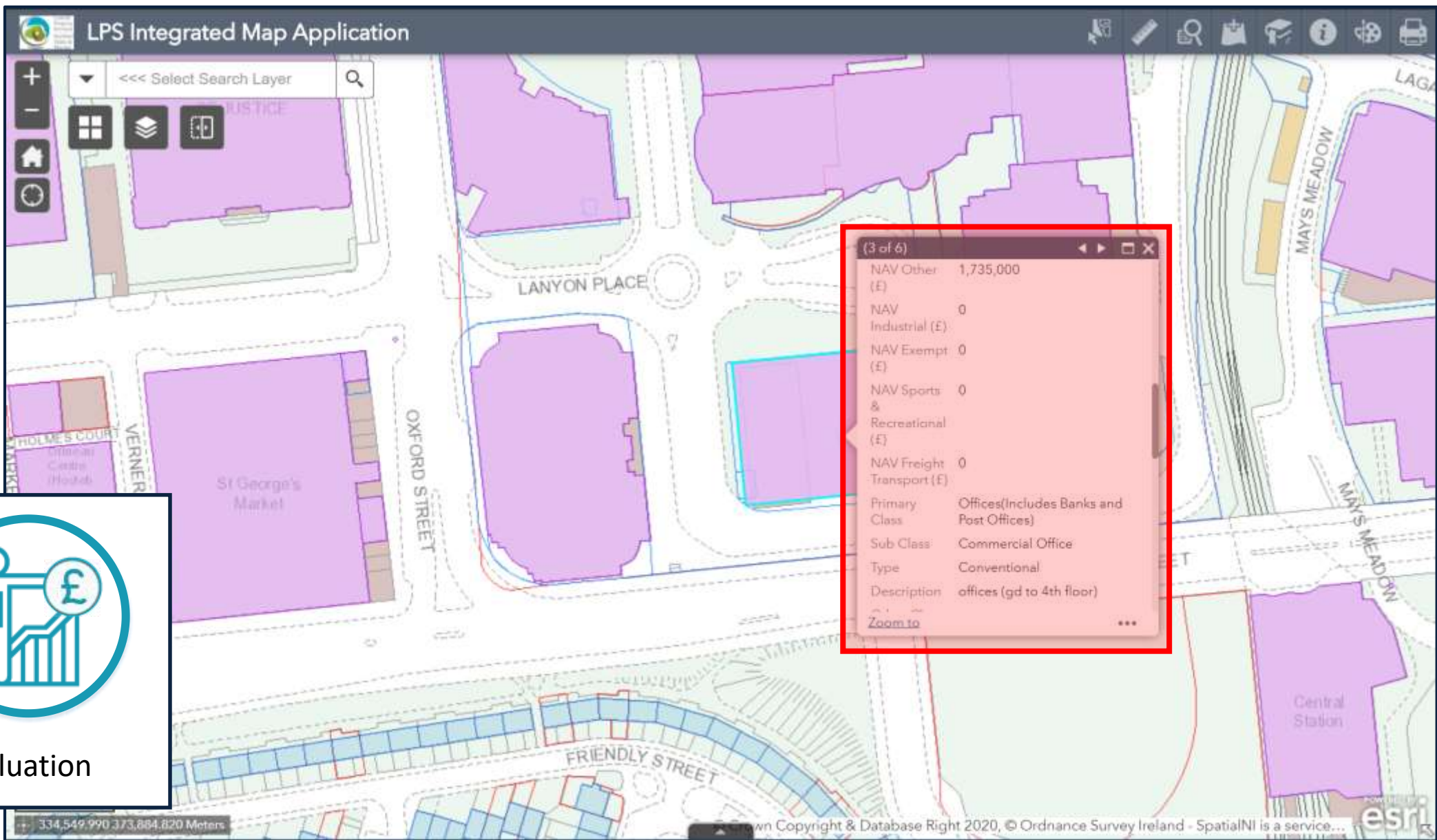


Ordnance Survey



Land & Property Services
Seirbhísí Talún & Maoine

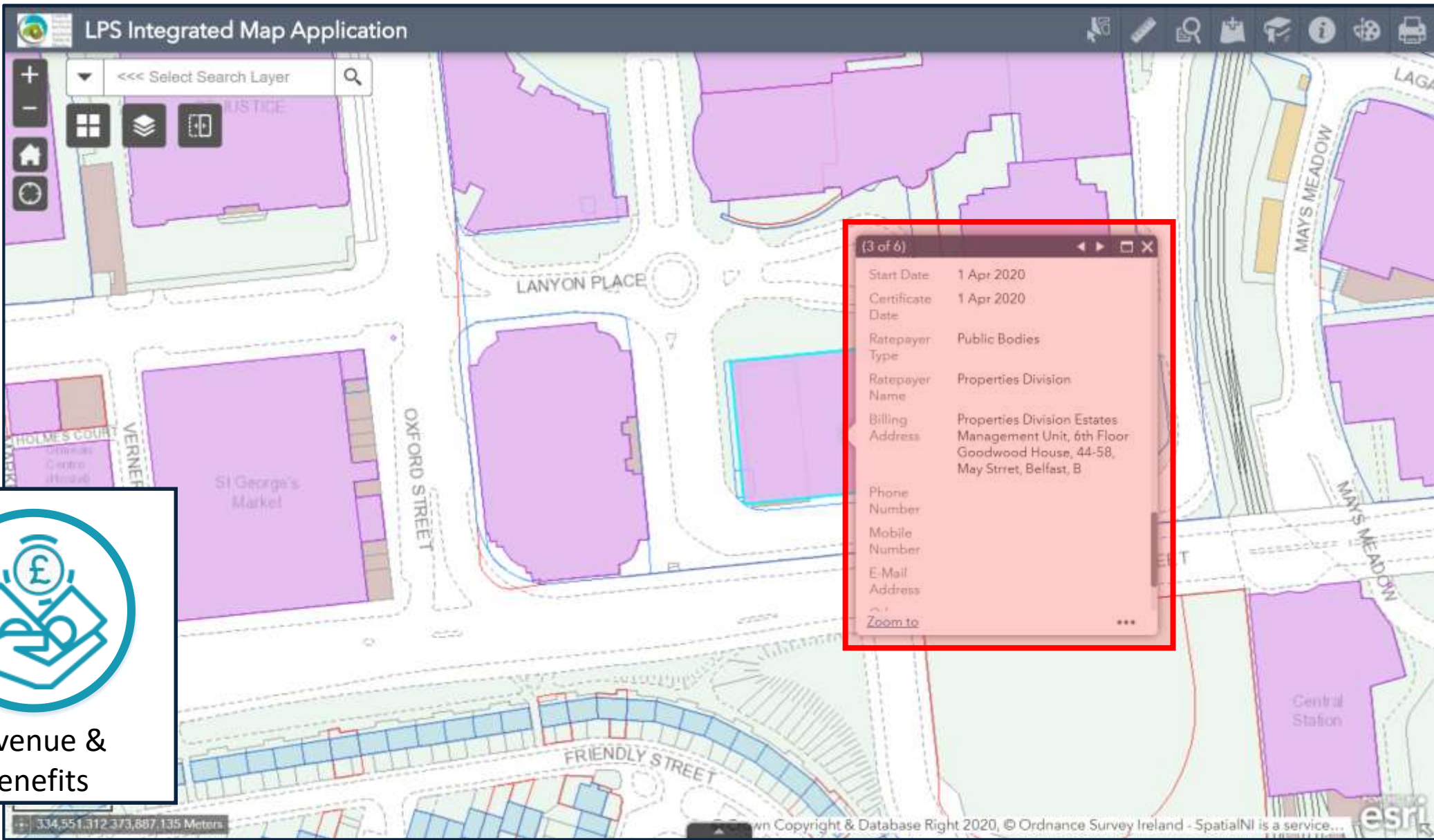




Valuation



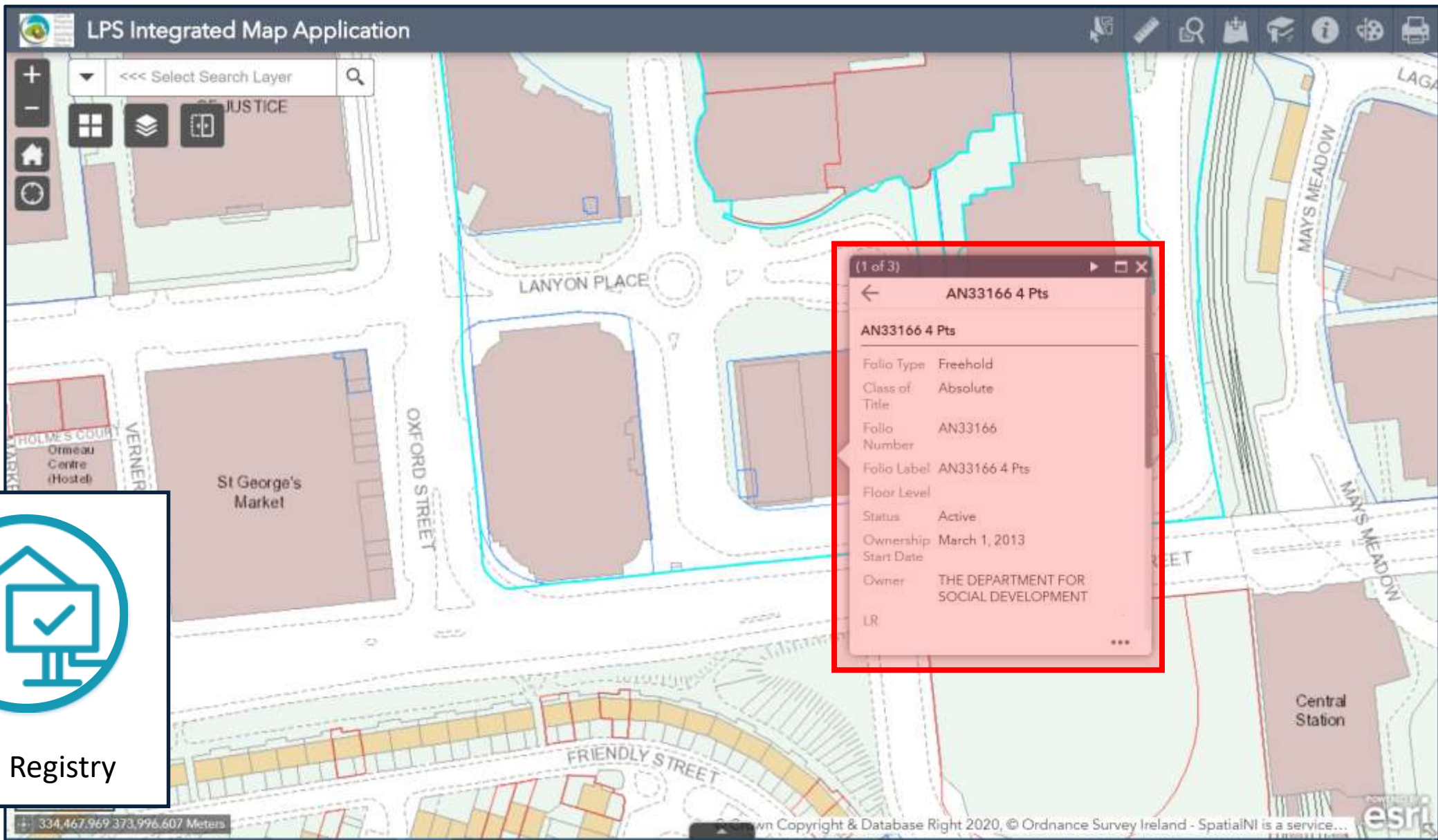
Land & Property Services
Seirbhísí Talún & Maoine



Revenue &
Benefits



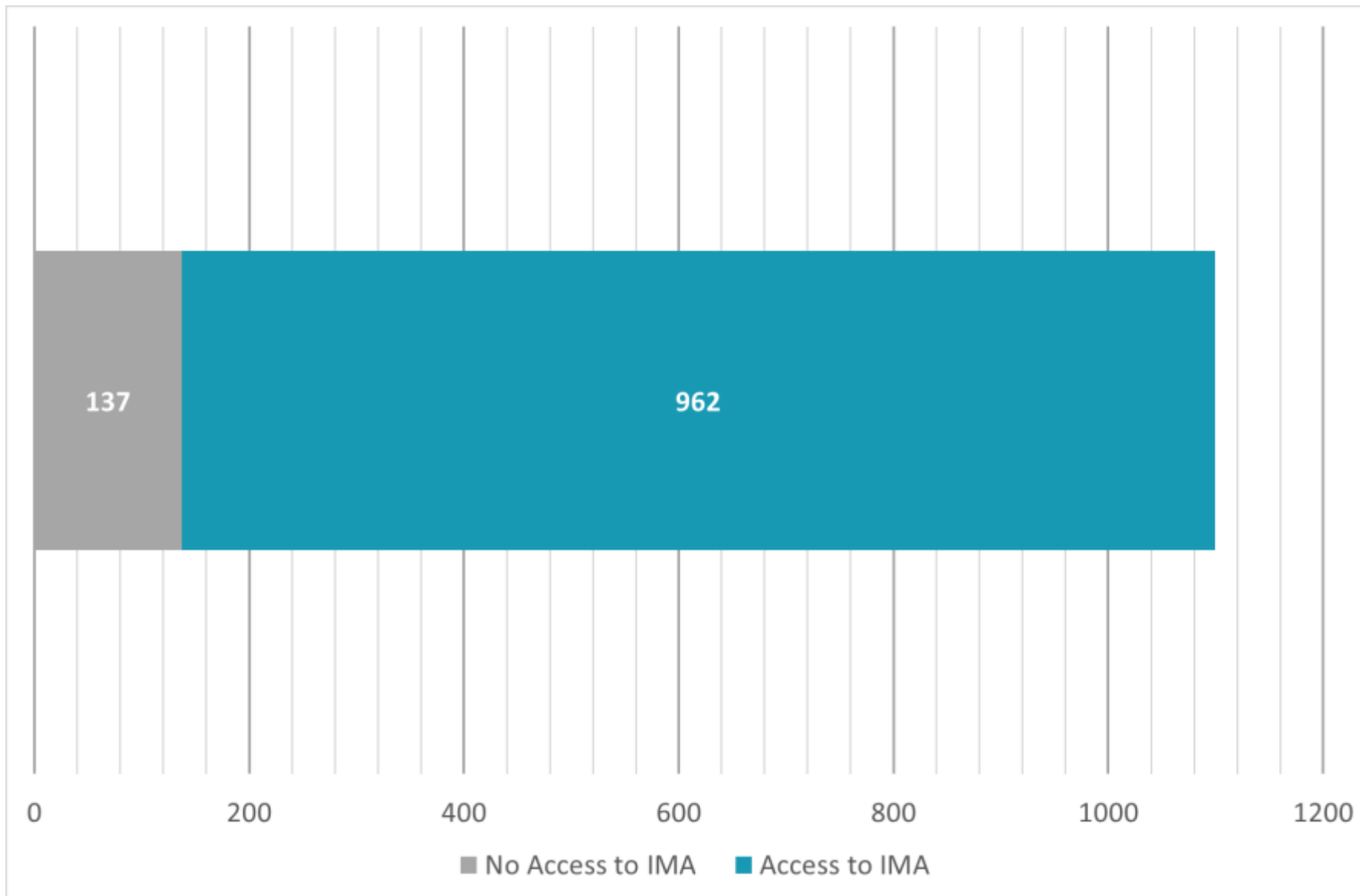
Land & Property Services
Seirbhísí Talún & Maoine



Land Registry



Land & Property Services
Seirbhísí Talún & Maoine



Staff Access



Land & Property Services
Seirbhísí Talún & Maoine





Benefits

Providing a single view of land and property information in Northern Ireland for the first time.

- Better access to information relating to a property
- Time saving
- Better informed decisions





“The IMA has proved a lot less time consuming than Landweb and gives details on land ownership which in itself can be beneficial when identifying owners of new build properties in rural areas.”

Rates Central Investigations Team

“Working in client services, as part of an encroachment case, I was able to use the integrated map viewer to view land registry title data to locate and confirm boundaries and areas.”

Client Services Valuer

“The IMA provides me with additional intelligence by linking a ratepayer name to their billing postal address. This has helped me where queries from solicitors state that the postal addresses of properties are inconsistent with the official description of land within a registered folio.”

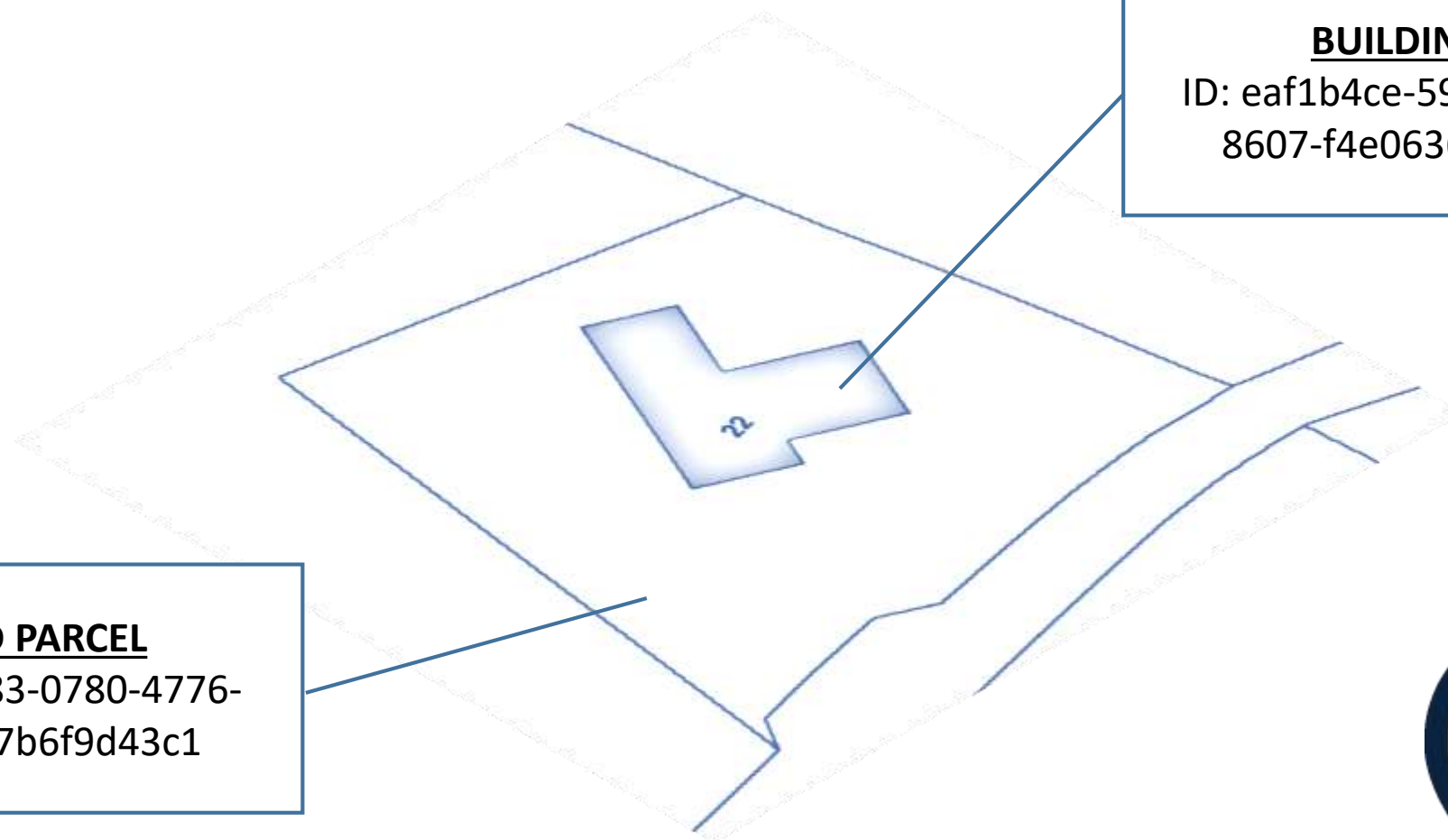
Land Registry Caseworker



Project 2

3D Building Modelling





LAND PARCEL

ID: ff559283-0780-4776-
9ea9-e17b6f9d43c1

BUILDING

ID: eaf1b4ce-5970-4370-
8607-f4e06366b859



Land & Property Services
Seirbhísí Talún & Maoine





Land & Property Services
Seirbhísí Talún & Maoine

PROPERTY1: Property

File Edit View Data Tools Links Reports Window Help

Map Query

Property ID: 818220 Property Flag: Val List: 7

UPRN: 105952393 Desc In Val List: flat g'd & car space Adjustments: Values Review: Ground Floor VL Size: Internal VL Size: 611/281 Internal VL Size: Art. 31 (5):

*Primary Class: Privately Built Housing Sub Class: Purpose Built Apartment Type: Single Level Self Contained

*District: Belfast City Council *Ward: Central Old District: Belfast City Council Old Ward: Shaftesbury

Capital Value Non EX: £110,000 Capital Value EX: Other Classes: No Total NAV: £

*Address: APARTMENT 1 ST. JOHNS WHARF 1 Laganbank Road Town I Preview Address

IGSheet/Plan: X/Y Coord: 334875 / 373981

Hereditation Status: Built Occupation Status: Occupied

Hereditation: All Val Lines Reviewed for Reval Occupier Unknown: Approved for Reval Data Retention details: Online Form Of Return Submitted Updated From Pointers: RALQ 2020 Form Submitted Sketch Attached:

Pubs		Filling Stations		Assets Summary Screen			Rating Summary Screen				Tone AVM		Comparables Search			
Result Set	Interested Parties	Services	Neighbourhood	Domestic Details	Machinery	Val Items	Summary	Cases	Notes	List Entry	Dimensions	spatialst Comps	Transaction	Attachment	Audit	Hot
Rec	Property ID	Reval	Address	UPRN	Primary Class	Sub Class	Type	Council District	Ward	IGSheet	Plan					
1	818220	<input type="checkbox"/>	APARTMENT 1 ST. JOHNS WHARF 1	105952393	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
2	818221	<input type="checkbox"/>	APARTMENT 2 ST. JOHNS WHARF 1	105952394	Privately Built Housing	Purpose Built Apartment	Multi-Level Self Contained	Belfast City Council	Central							
3	818222	<input type="checkbox"/>	APARTMENT 3 ST. JOHNS WHARF 1	105952395	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
4	818223	<input type="checkbox"/>	APARTMENT 4 ST. JOHNS WHARF 1	105952396	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
5	818224	<input type="checkbox"/>	APARTMENT 5 ST. JOHNS WHARF 1	105952397	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
6	818225	<input type="checkbox"/>	APARTMENT 6 ST. JOHNS WHARF 1	105952398	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
7	818226	<input type="checkbox"/>	APARTMENT 7 ST. JOHNS WHARF 1	105952399	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
8	818230	<input type="checkbox"/>	APARTMENT 8 ST. JOHNS WHARF 1	105952400	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
9	818231	<input type="checkbox"/>	APARTMENT 9 ST. JOHNS WHARF 1	105952401	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
10	818232	<input type="checkbox"/>	APARTMENT 10 ST. JOHNS WHARF 1	105952402	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
11	818233	<input type="checkbox"/>	APARTMENT 11 ST. JOHNS WHARF 1	105952403	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
12	818234	<input type="checkbox"/>	APARTMENT 12 ST. JOHNS WHARF 1	105952404	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							
13	818236	<input type="checkbox"/>	APARTMENT 13 ST. JOHNS WHARF 1	105952459	Privately Built Housing	Purpose Built Apartment	Single Level Self Contained	Belfast City Council	Central							



VALUATION

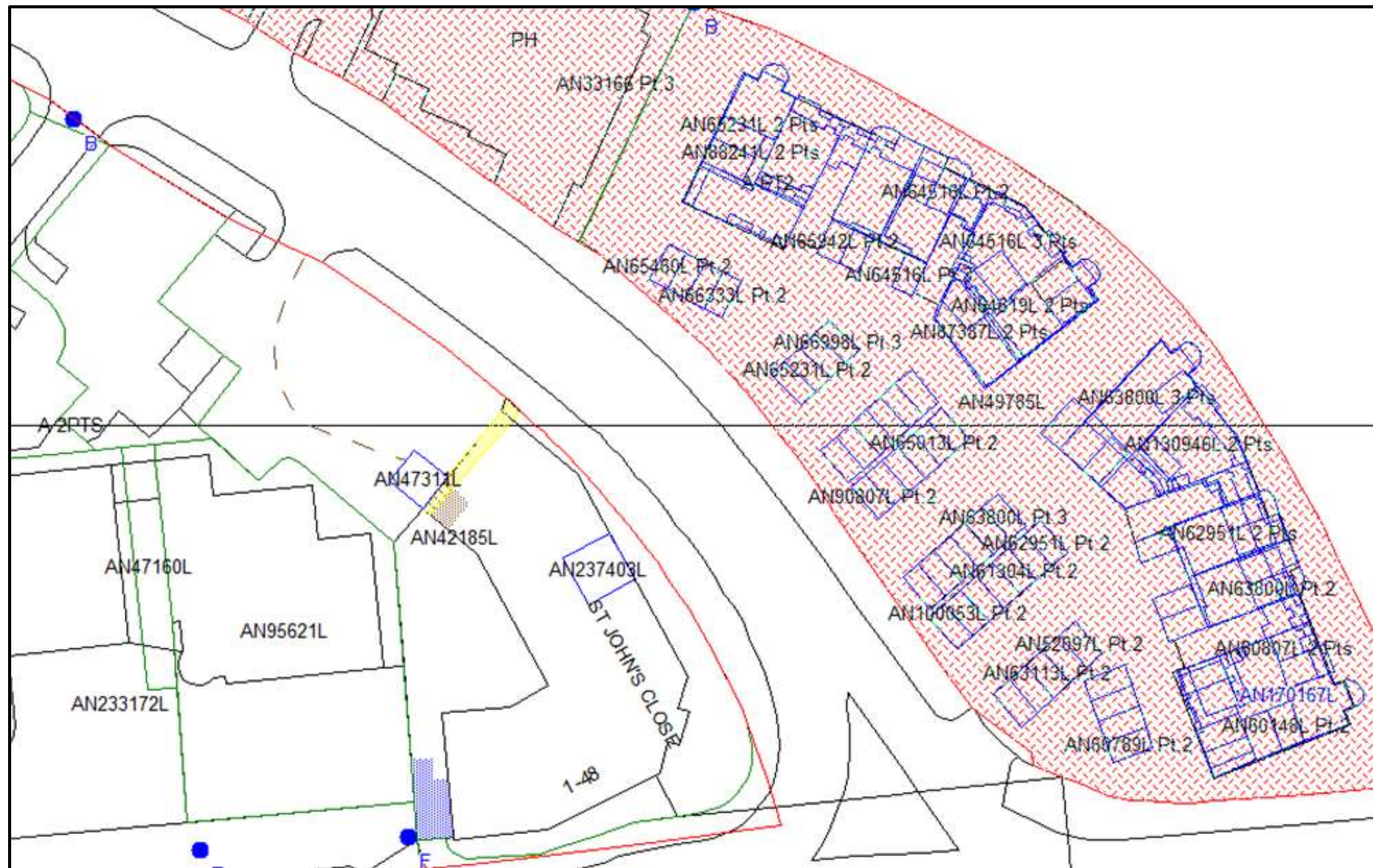


Land & Property Services
Seirbhísí Talún & Maoine





LAND
REGISTRY



Land & Property Services
Seirbhísí Talún & Maoine



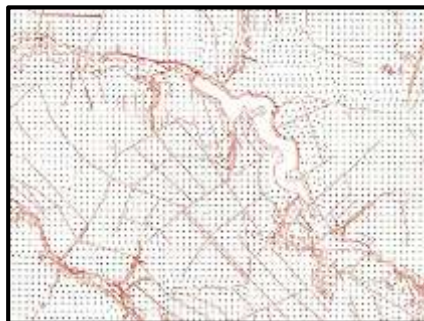


Belfast Pilot Area





OSNI Fusion Building
Footprints



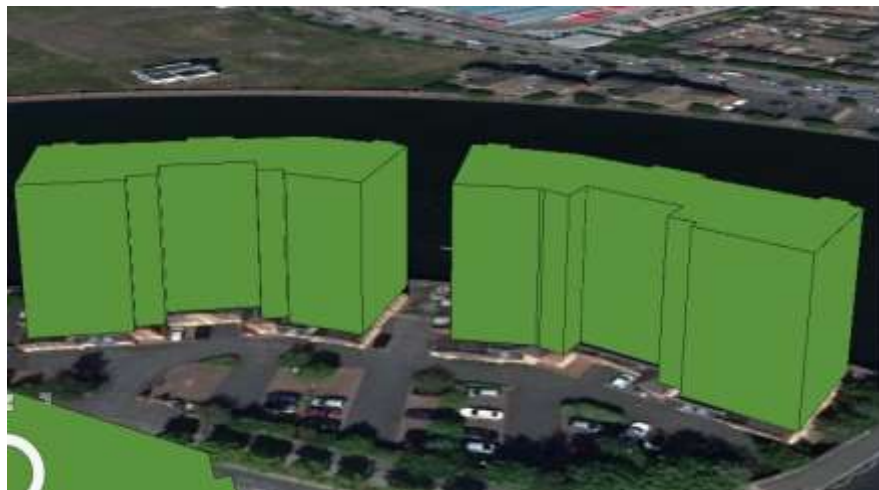
OSNI Digital Terrain Model
(DTM)



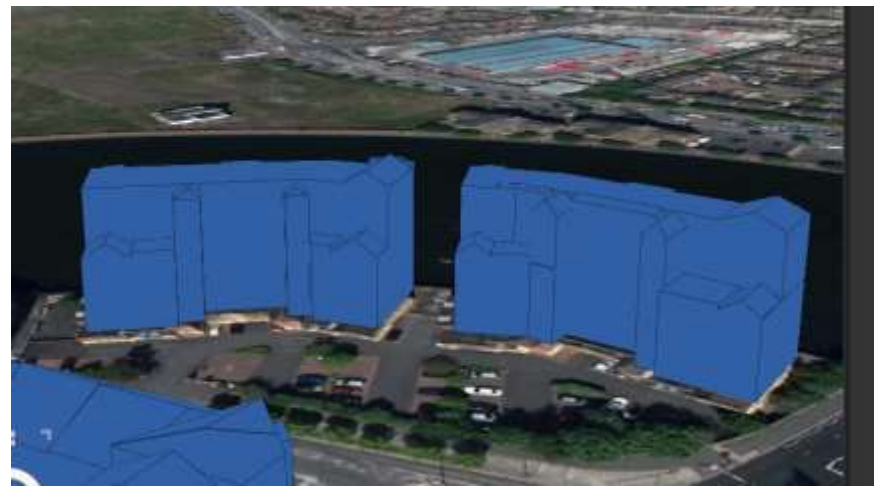
OSNI Digital Surface Model
(DSM)



OSNI Orthophotography



Level of Detail 1 (LOD1) Buildings



Level of Detail 2 (LOD2) Buildings

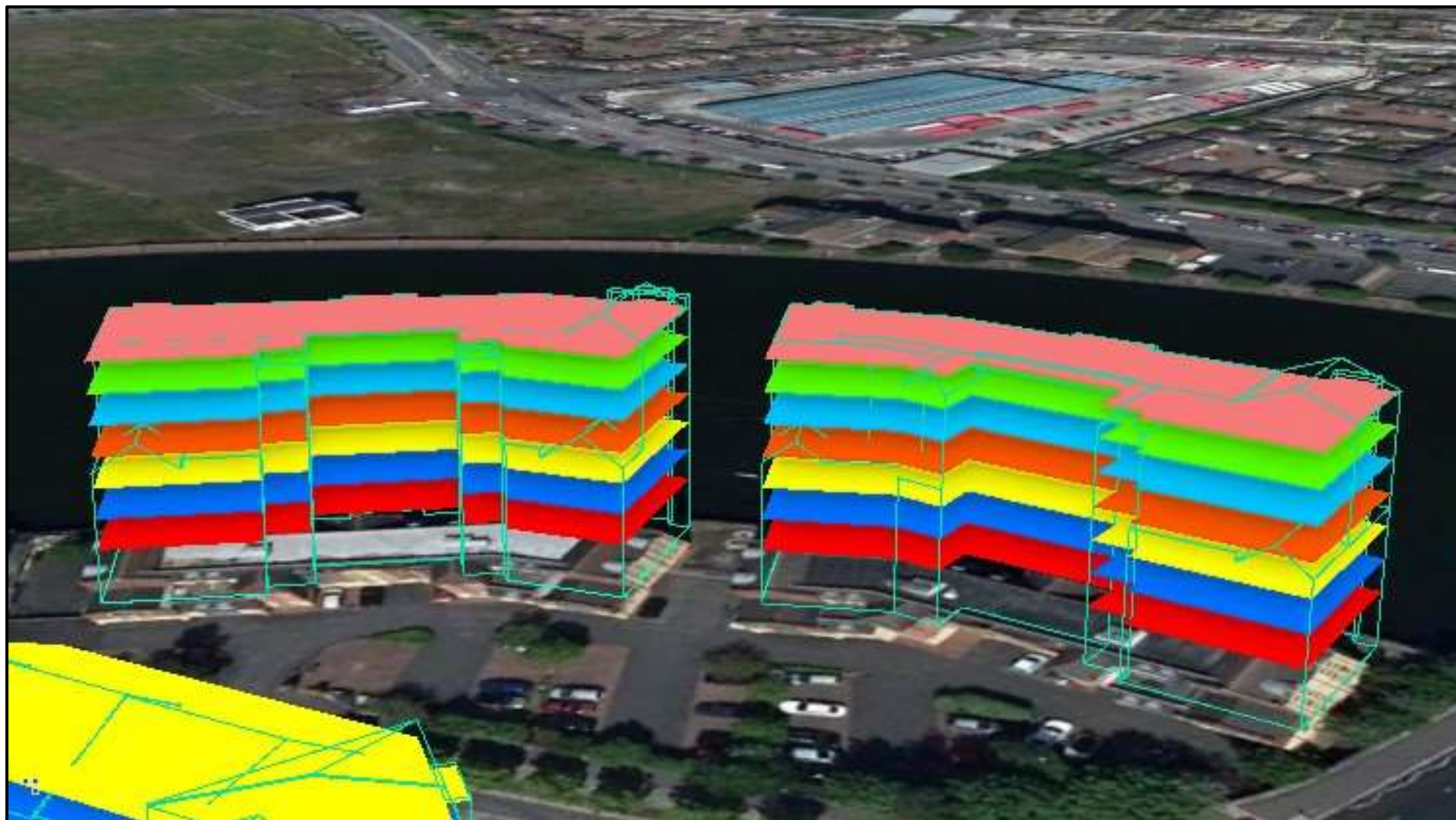






Land & Property Services
Seirbhísí Talún & Maoine





Land & Property Services
Seirbhísí Talún & Maoine

Scene X

Pop-up

relateableTestData_floorsplits (1)
 195
 Domestic (9)
 BELFAST SOUTH
 BELFAST SOUTH
 BELFAST SOUTH
 BELFAST SOUTH

Domestic - BELFAST SOUTH

OSNI_ID	1896
OBJECTID	11
SHAPE	Polygon Z
Property_ID	840825
UPRN	186003138
CV_Exempt	0
CV_Non_Exempt	125000
PRIMARY_CLASS	Privately Built Housing
SUB_CLASS	Purpose Built Apartment
TYPE	Single Level Self Contained
COUNTY	ANTRIM
LOCAL_COUNCIL	BELFAST
POSTCODE	BT1 3LT
WARD	CENTRAL
ADDRESS	APARTMENT 58, ST. JOHNS WHARF, 1-3 LAGANBANK ROAD, TOWN PARKS, BELFAST, ANTRIM, BT1 3LT
BUILDING_TYPE	Domestic
Property_Size	60
Description	flat 1f & car space
Type1	Flat
IDENTIFIER	b8e6cce5-06b8-491c-ac7a-ff37a32ba257
Total Number of Floors	7
Total Number of Floors - excluding converted attics	7





“The 3D mapping will give us a much clearer indication of the makeup of a building. This looks fantastic and will streamline business processes in valuation. I hope this is rolled out across the board.”

“3D would literally add an extra dimension to LPS data.”





Benefits

OSNI believes that this type of 3D building modelling will bring enormous benefits to LPS

It will provide a real world view of land and property data in Northern Ireland for the first time



Land & Property Services
Seirbhísí Talún & Maoine





“The Integrated Mapping Application has given LPS staff access to a single view of land and property information for the first time. Having accurate and relevant data available at their fingertips has helped create efficiencies internally while also improving the level of service we are able to provide to our customers.

The Integrated Map Application and other innovative mapping products including the future 3D view of this information is helping LPS understand the value that linking our data to geographic information can bring and will greatly assist the LPS digital transformation journey and the visualisation of our land and property data in the years to come.”

Ian Snowden
LPS Chief Executive



Land & Property Services
Seirbhísí Talún & Maoine





**THANK
YOU**



Land & Property Services
Seirbhísí Talún & Maoine



ORDNANCE SURVEY
OF NORTHERN IRELAND®