Ireland's United Nations Sustainable Development Goals Data Hub

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Ordnance Survey Ireland

Establishing Ireland's United Nations Sustainable Development Goals (UN SDGs) Data Hub

'Geospatial & Statistics Collaboration in Ireland'

An Phríomh-Oifig Staidrimh
Central Statistics Office

osi Ordnance Survey Ireland

Geospatial & Statistics collaboration in Ireland

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- Ireland's National Mapping Agency
- Established in 1824
- Operates under the Ordnance Survey Ireland Act, 2001
- **Mandate**: "*To provide a national mapping service in the State… creating and maintaining the definitive national mapping and related geographic records*"

An Phríomh-Oifig Staidrimh
Central Statistics Office

- Ireland's National Statistical Office
- Established 1949
- Operates under the Statistics Act, 1993
- **Mandate**: "*The collection, compilation, extraction and dissemination for statistical purposes of information relating to economic, social and general activities and conditions in the State*"

OSi/CSO Memorandum Of Understanding (Octber 2016)

Aim: To establish a closer working relationship to maximise CSO and OSi data and assets for our mutual stakeholders and in support of the Irish Government's Public Sector Reform agenda

- Establish joint **CSO/OSi technical working group** to develop data visualisation
- Develop technical solution to fulfil Ireland's **reporting responsibilities** under the United Nations 2030 agenda for Sustainable Development
- Collaboration in developing new data dissemination channels
- Promote the **statistical potential of geospatial** data as part of the wider development of the National Data Infrastructure

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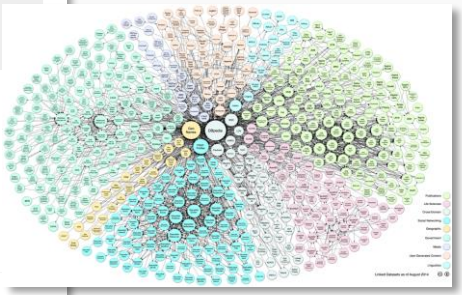
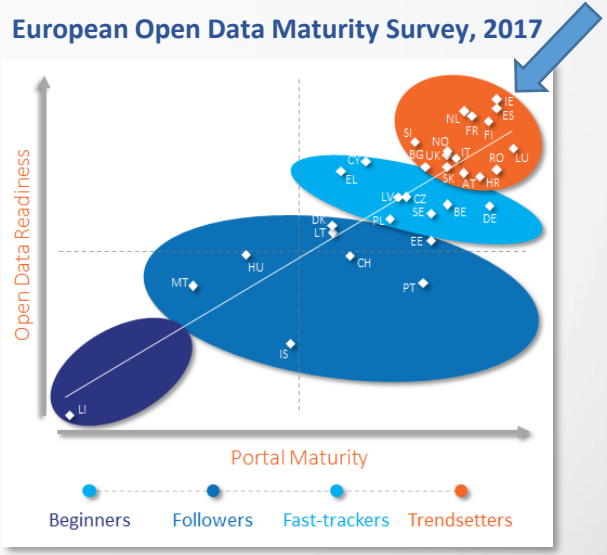
Geospatial & Statistics collaboration in Ireland

Initiative (1) – National Geospatial Linked Data

- 20+ common national datasets as ‘5 Star’ Linked Open Data
- Publication of 2016 Census data





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Initiative (2) – Geospatial portal for Census 2016

Statistical and boundary data fused together to provide over 500 layers of geo-statistical information.

http://census2016.geohive.ie/

census 2016 RESULTS

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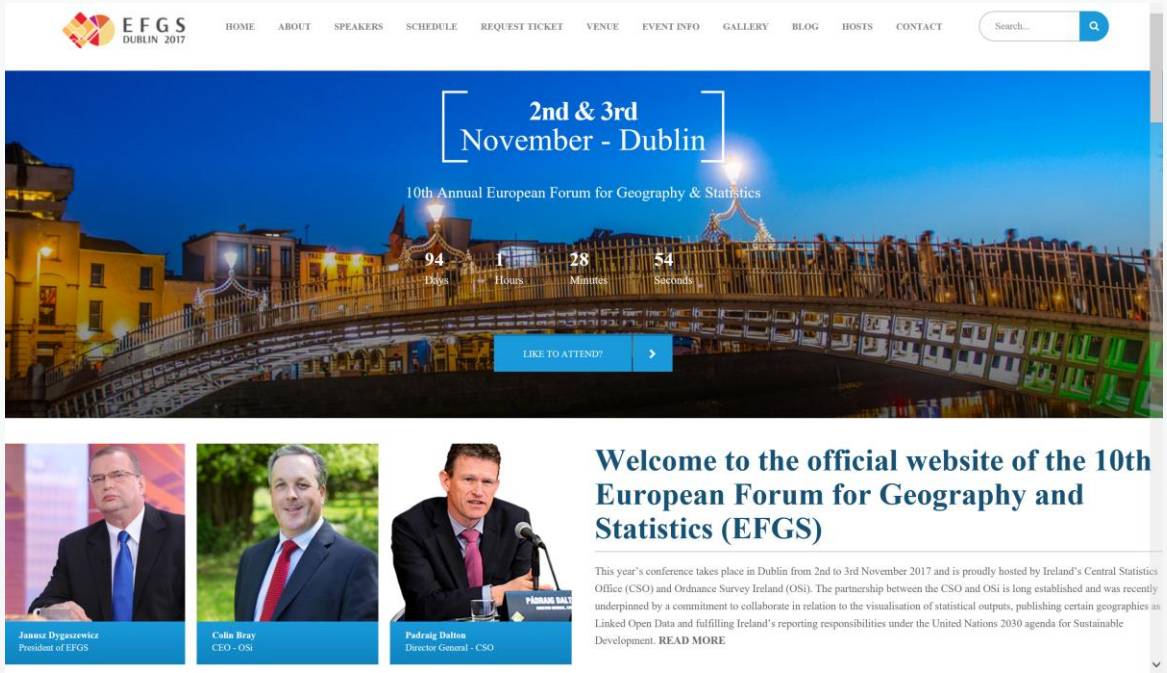
Geospatial & Statistics collaboration in Ireland

Initiative (3) – Joint hosting of European Forum for Geography and Statistics (EFGS) 2017



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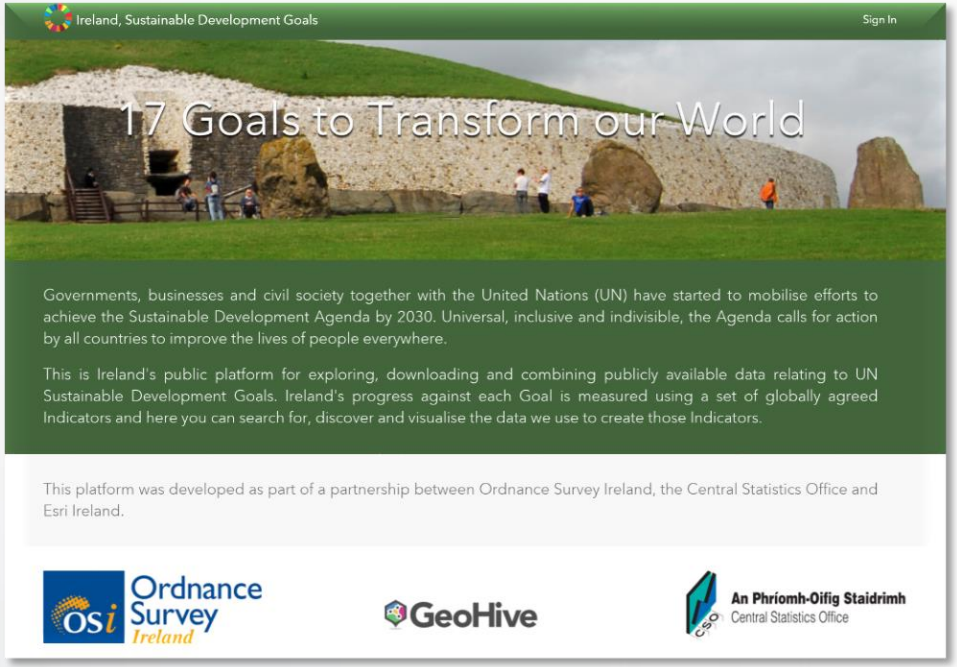
Initiative (4) – Establishing Ireland's UN SDGs Data Hub



Officially launched on 2nd November 2017.

The information contained will support reporting of Ireland's progress against each Goal.

Establishing Ireland's UN SDGs Data Hub

UNSD/Esri Research Project (commenced May 2017)

- Project goal is to develop and deploy a new approach for monitoring SDGs using geographic information systems
- Participation of seven UN Members - Ireland, Mexico, Senegal, Philippines, Qatar, South Africa and Australia
- OSi and CSO, are participating in partnership with Esri Ireland.

Statistics Division

esri

An Phríomh-Oifig Staidrimh
Central Statistics Office

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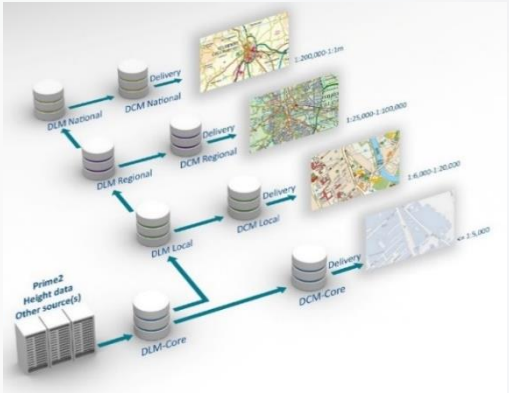
The Geospatial role in SDGs

Referencing

Authoritative Referencing of geography
(National Object Platform)

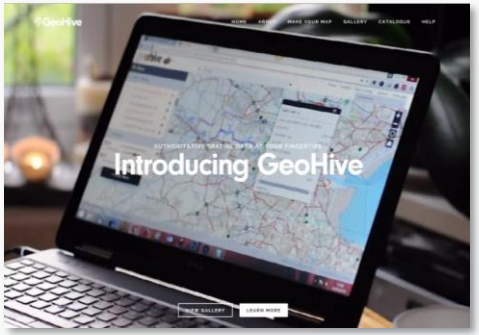


Visualisation

Maintained and consistent Multi-Resolution Data Store

Publishing & Access

National Geospatial Platform
(GeoHive collaborative portal)



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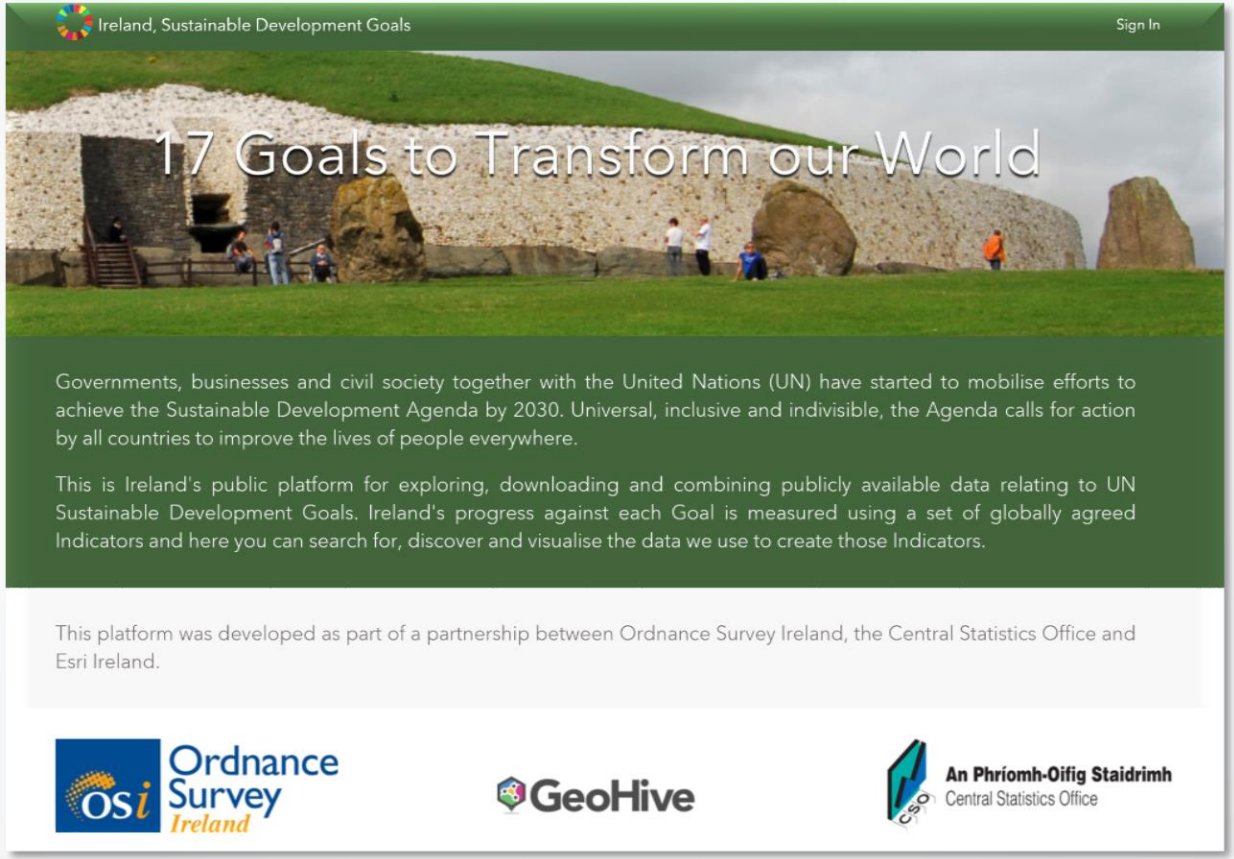
Progress to-date in Ireland

- Established a joint OSi/CSO **data governance team** the Irish Department of Communications, Climate Action and Environment (DCCAE) who has responsibility for officially reporting on Ireland's progress towards meeting national SDG targets
- Developed **51 indicators and 99 datasets** at NUTS 3, county and local area geography
- Developed **Ireland's UN SDG Data Hub** where interested parties can openly access, visualise and download data related APIs
- Formally launched on 2nd November at EFGS Conference in Dublin.

Ireland’s UN SDGs Data Hub – Homepage



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Ireland's UN SDGs Data Hub – Explore Data

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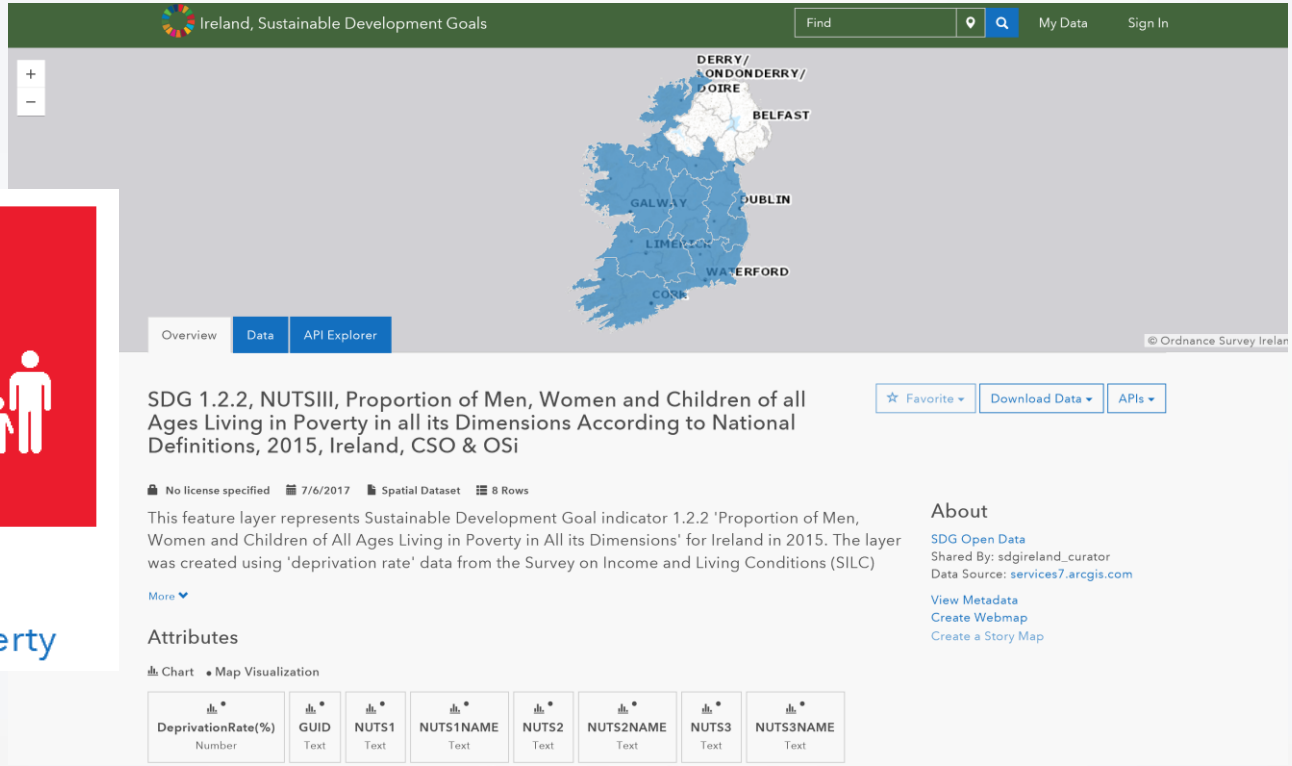
Ireland's UN SDGs Data Hub – Interactive MapViewer



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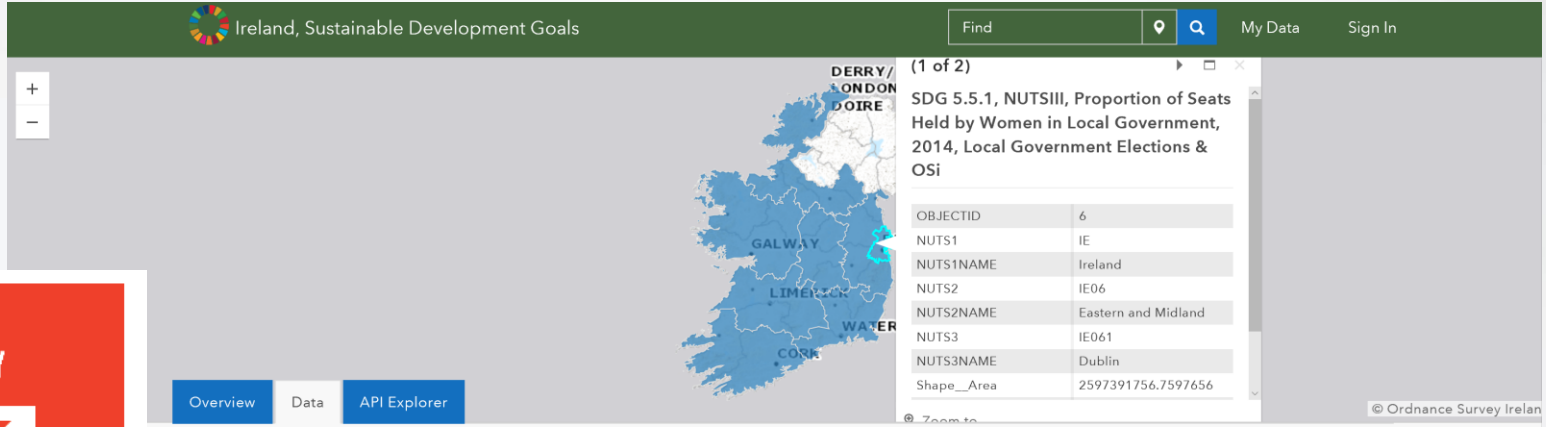
Ireland's UN SDGs Data Hub – Data Access



5 GENDER EQUALITY

5. Gender Equality

SDG 5.5.1, NUTSIII, Proportion of Seats Held by Women in Local Government, 2014, Local Government Elections & OSi

Favorite | Download Data | APIs

Showing 1 to 8 of 8

Hint: Click on to filter columns.

OBJECTID	NUTS1	NUTS1NAME	NUTS2	NUTS2NAME	NUTS3	NUTS3NAME	Shape__Area	Shape_
1	IE	Ireland	IE04	Northern and Western	IE041	Border	33976428463.48242	4334486.
2	IE	Ireland	IE04	Northern and Western	IE042	West	40510973141.15039	4736892.
3	IE	Ireland	IE05	Southern	IE051	Mid-West	28529686404.691406	1508101.
4	IE	Ireland	IE05	Southern	IE052	South-East	19344366248.70215	1609152.
5	IE	Ireland	IE05	Southern	IE053	South-West	32387562750.646972	4373512.

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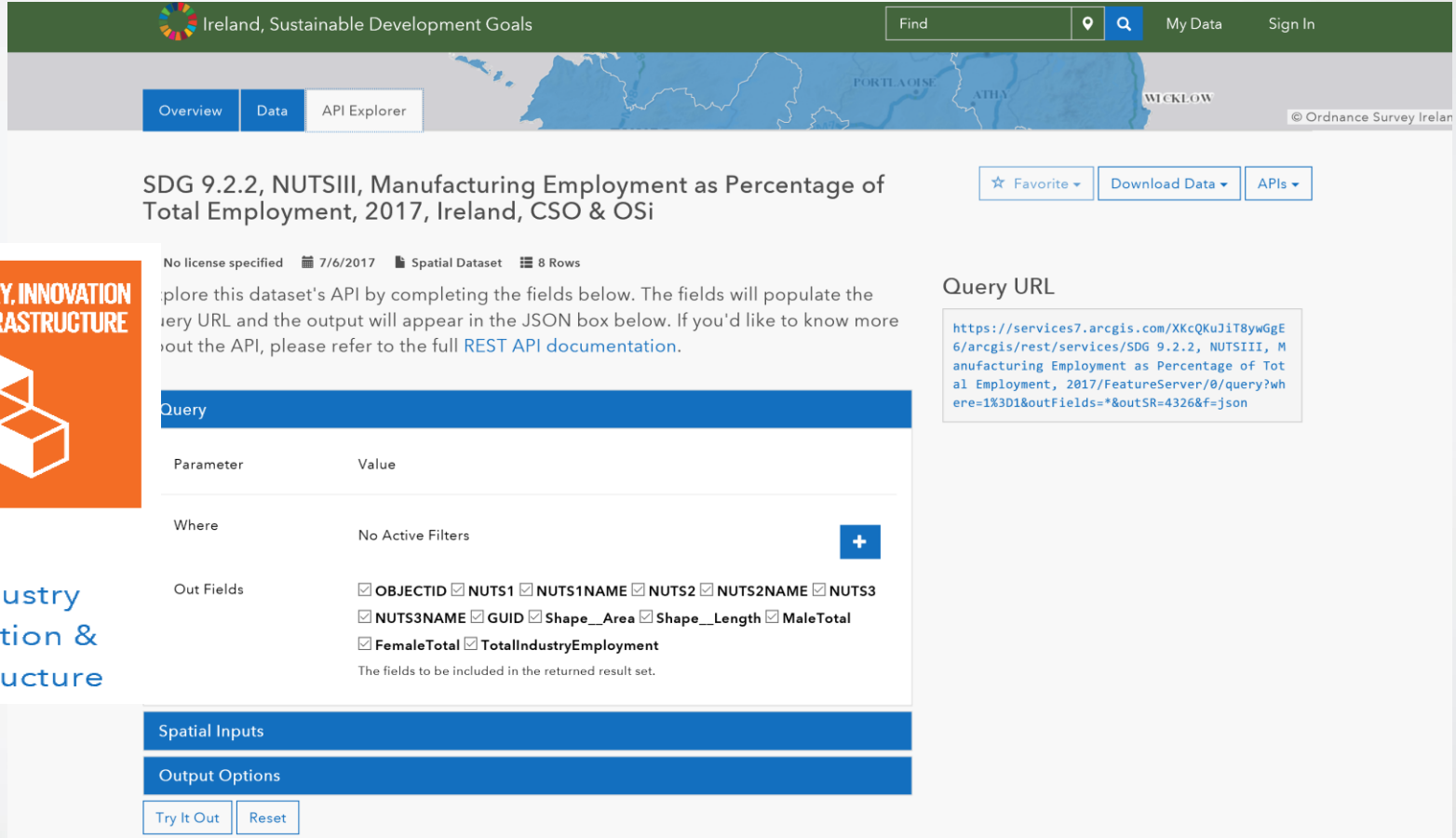
Ireland's UN SDGs Data Hub – APIs and Documentation



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

9. Industry Innovation & Infrastructure

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Ireland's UN SDGs Data Hub – Map Layers and Gallery

SUSTAINABLE DEVELOPMENT GOALS

UN Sustainable Development Goal Indicators, Ireland

UN Sustainable Development Goals in Ireland

Search maps

SDG 8.2.1, NUTSIII, Annual Growth Rate of Real GDP per Employed Person, 2014, Ireland, CSO & OSi

Feature Service by sdgireland_curator. Last Modified 7/25/17.

This feature layer represents Sustainable Development Goal indicator 8.2.1 'Annual Growth Rate of Real GDP per Employed Persons' for Ireland, 2014 at NUTSIII level. Source: Central Statistics Office, Ordnance Survey Ireland.

SDG 2.1.2, NUTSIII, Prevalence of Moderate or Severe Food Insecurity in the Population based on the Food Insecurity Experience Scale, 2015, Ireland, CSO & OSi

Feature Service by sdgireland_curator. Last Modified 7/25/17.

This feature layer represents Sustainable Development Goal indicator 2.1.2 'Prevalence of Moderate or Severe Food Insecurity in the Population' for Ireland, 2017 Q1 at NUTSIII level. Source: Central Statistics Office, Ordnance Survey Ireland.

SDG 9.2.1, NUTSIII, Manufacturing Value Added as a Proportion of GDP and per Capita, 2014, Ireland, CSO & OSi

Feature Service by sdgireland_curator. Last Modified 7/25/17.

This feature layer represents Sustainable Development Goal indicator 9.2.1 'Manufacturing Value Added as a Proportion of the GDP and per Capita' for Ireland, 2014, at NUTSIII level. Source: Central Statistics Office, Ordnance Survey Ireland.

SDG 3.6.1, Administrative County, Death Rate due to Road Traffic Accidents, 2013, Ireland, RSA, CSO & OSi

Feature Service by sdgireland_curator. Last Modified 7/21/17.

This feature layer represents Sustainable Development Goal indicator 3.6.1 'Death Rate due to Road Traffic Accidents as Percentage of the Population' for Ireland, 2013 at

This Gallery presents work to date on mapping the Indicators for selected UN Sustainable Development Goals in Ireland

Open Data indicators that represent implementation and attainment of UN Sustainable Development Goals in Ireland. Indicators are produced as part of the Federated Sustainable Development Goal Research Initiative and a collaboration project between Ordnance Survey Ireland and the Central Statistics Office.

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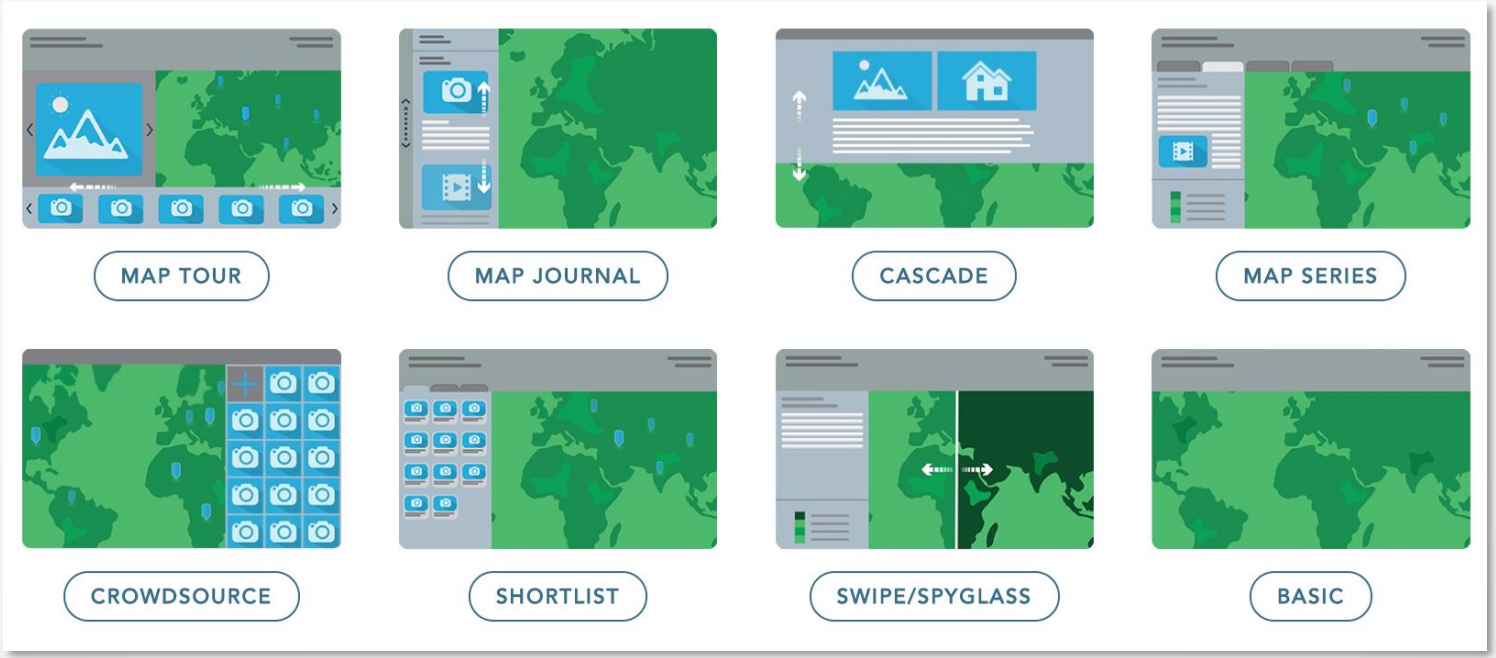
Story Maps

esri



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Story Maps – providing a narrative on Ireland's SDGs

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Story Map # 1 – Ireland's Life on Land

Ireland's Life on Land

This Story Map explores Ireland's Life on Land by taking a look at protected areas across Ireland, habitat types and national initiatives to protect and enhance biodiversity. This story map has been developed to support efforts of reporting Ireland's status in relation to achieving United Nations (UN) Sustainable Development Goals.

UN countries have adopted a set of 17 goals to end poverty, protect the planet and ensure prosperity for all as part of a new sustainable development agenda. Each goal has specific targets to help achieve the goals set out in the agenda by 2030.

The indicators illustrated below provide an insight into Ireland's progress toward Sustainable Development Goal numbers 6 and

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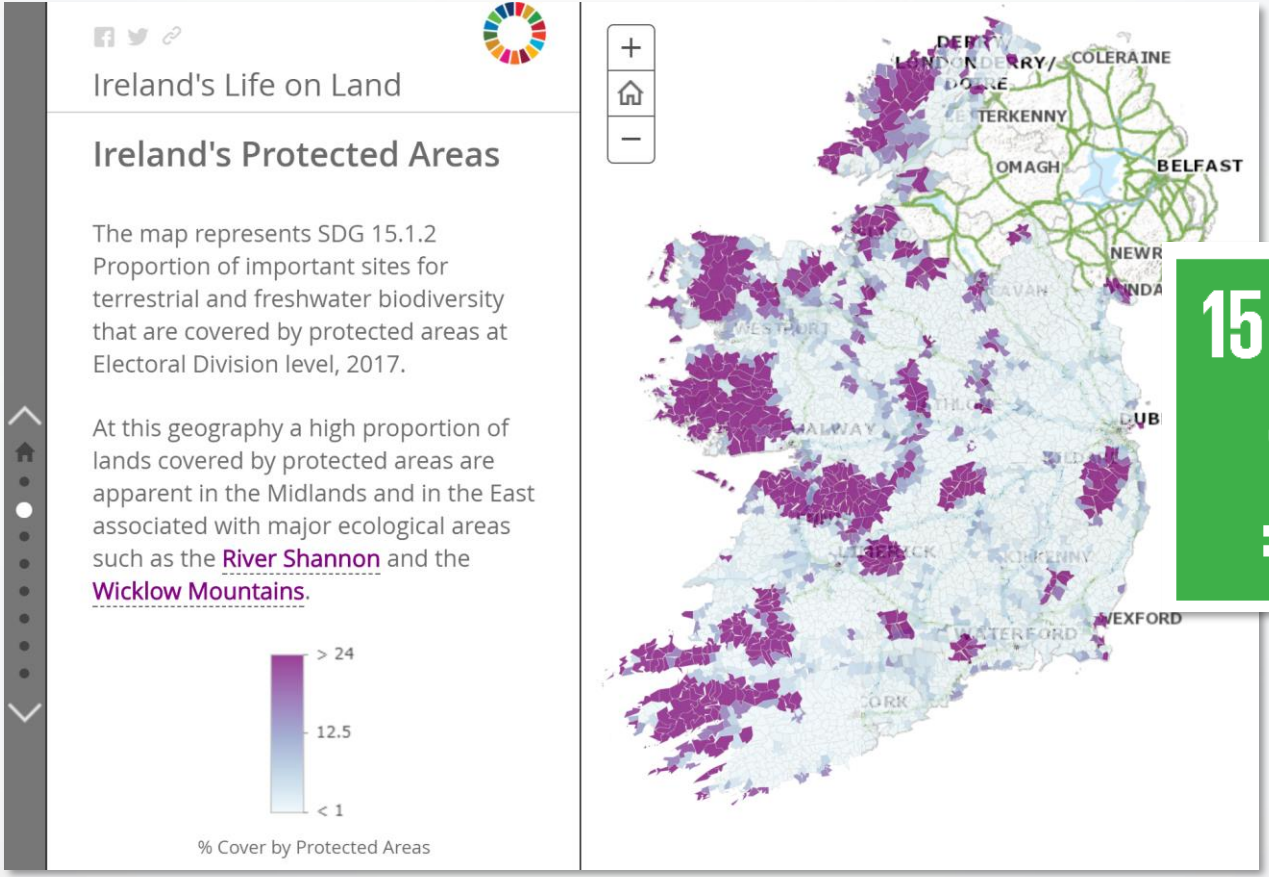
Story Map # 1 – Ireland's Life on Land



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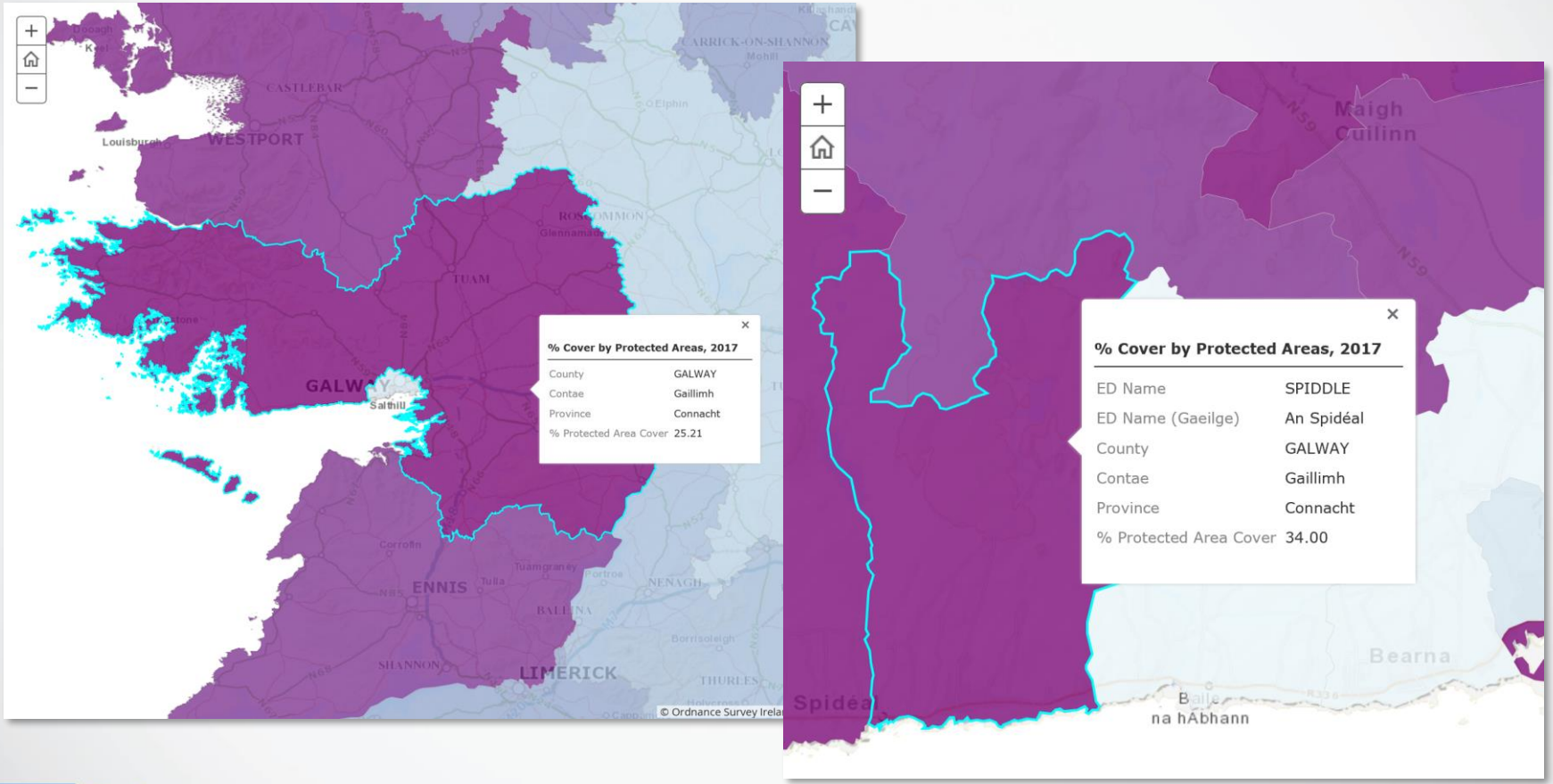
Story Map # 1 – Ireland's Life on Land



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Story Map # 2 – Changing Patterns

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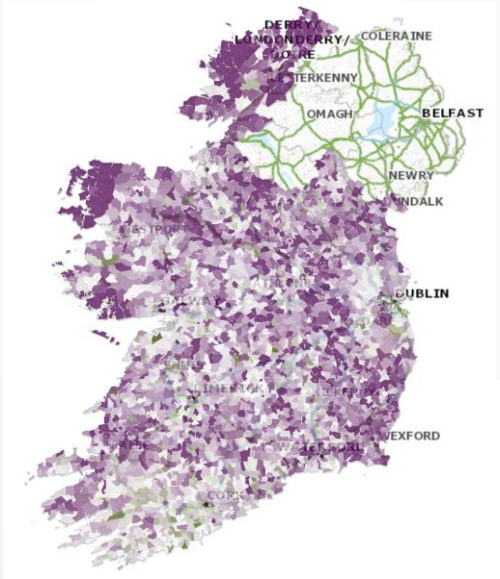
Story Map # 2 – Changing Patterns

Number of Electoral Divisions with a 10% or Less Unemployment Rate

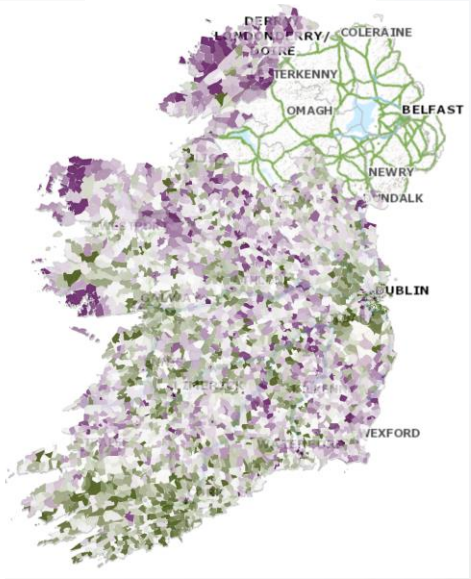
Census, 2011

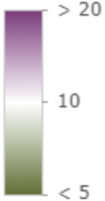
442



Census, 2016

1559





% Unemployed - Total, Census 2016

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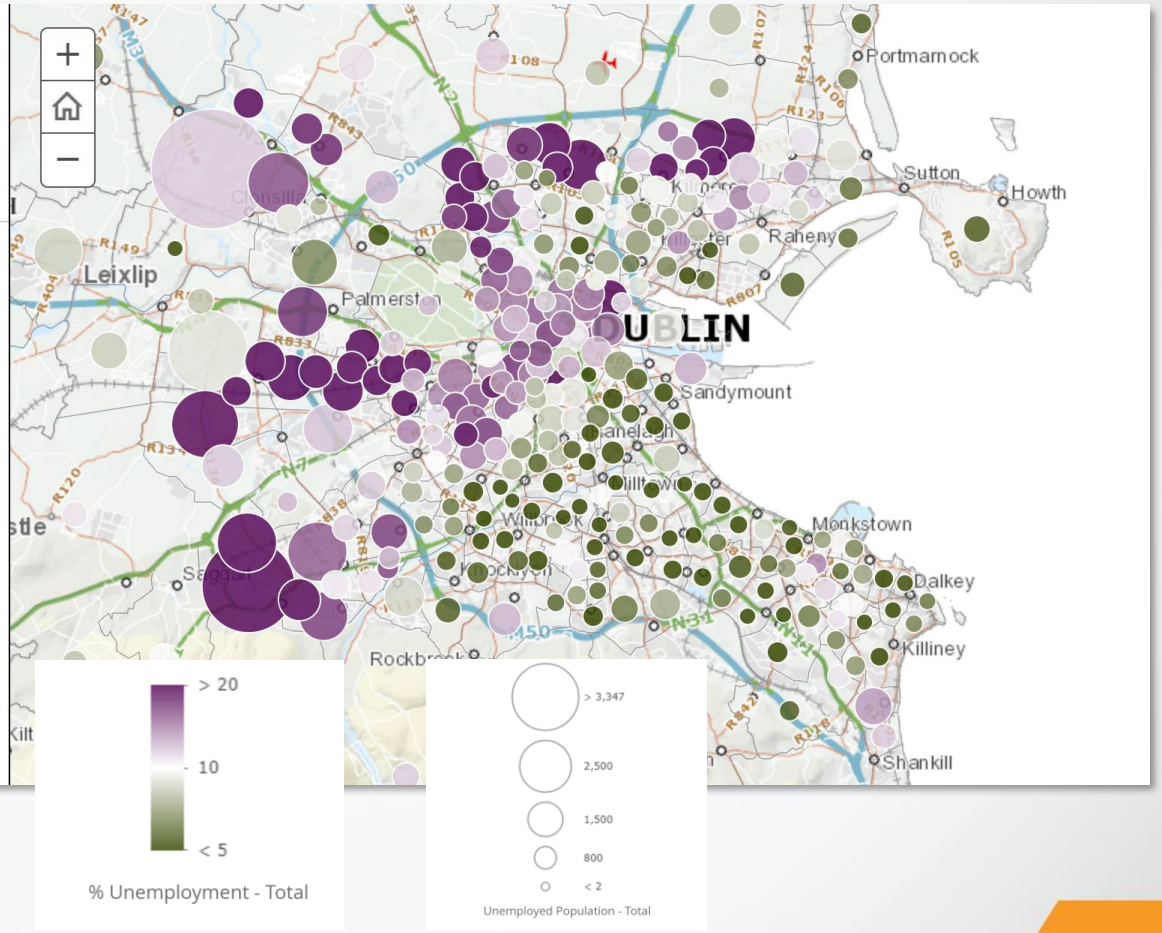
Story Map # 2 – Changing Patterns

The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017

A focus on cities

The map displays unemployment rate and total unemployed population from the Census 2016 at ED level. A closer look at Dublin illustrates that varying unemployment rates within the area.

Data at this level provide a detailed representation of unemployment trends. This visualisation highlights the divide (North East, South West divide) in high and low levels of unemployment.



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Ireland's Key Takeaways

- The value of a **strong collaborative relationships**
    - OSi & CSO
    - Technical Partner (Esri)
- The value of a **platform approach** to national mapping and to national geospatial systems architecture
- The value of having a clear understanding on the **organisational roles and responsibilities** regarding national geospatial data and national statistical data
- The value in **visualising** statistical data within a geospatial context
- The value of re-purposing **existing systems** and architecture

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UN-GGIM, 28th November, Mexico City
Establishing Ireland's UN SDGs Data Hub

Thank You