



Ireland's United Nations Sustainable Development Goals Data Hub

Lorraine McNerney, General Manager



**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



Geospatial & Statistics collaboration in Ireland



- 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 (October 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



Initiative (1) – National Geospatial Linked Data

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

data.geohive.ie
Serving Ireland's geospatial information as Linked Data.

About the Initiative
The goal of Ordnance Survey Ireland's (OSi) initiative with ADAPT is to develop a platform to publish OSi's geospatial data as Linked Data on the Web whilst adhering to best practices in the domain of geospatial information. The publication of Linked Data enables third parties to explore and consume rich data in a meaningful manner via a combination of simple, standardized technologies (e.g., RDF and URI) that operate over the Web's existing HTTP infrastructure.

Download and Query
Ordnance Survey Ireland's geospatial data is available both via Triple Pattern Fragments Server and web client, a Linked Data frontend (e.g., by following the HTTP URI of County Dublin) and as downloadable datasets for local use.

Contact and Legal
Contact us:
• Corporate
• Geohive
Or send us an email via geohive@osi.ie.

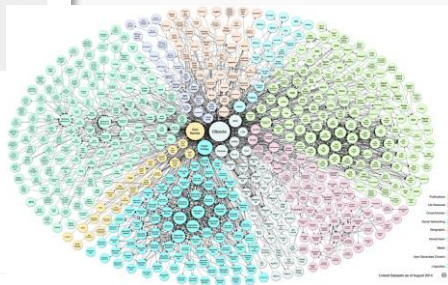
Legal:
• Corporate
• Privacy
• Terms of Use

View details >

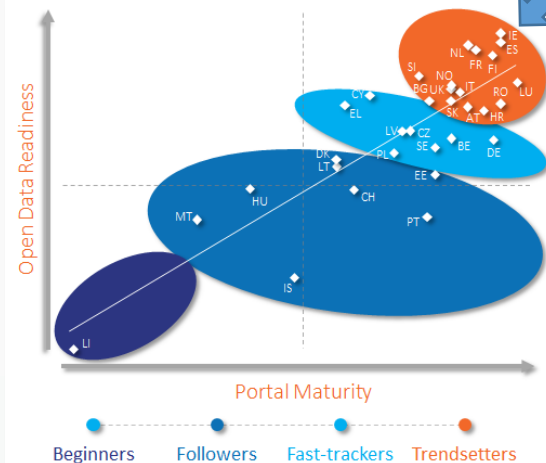
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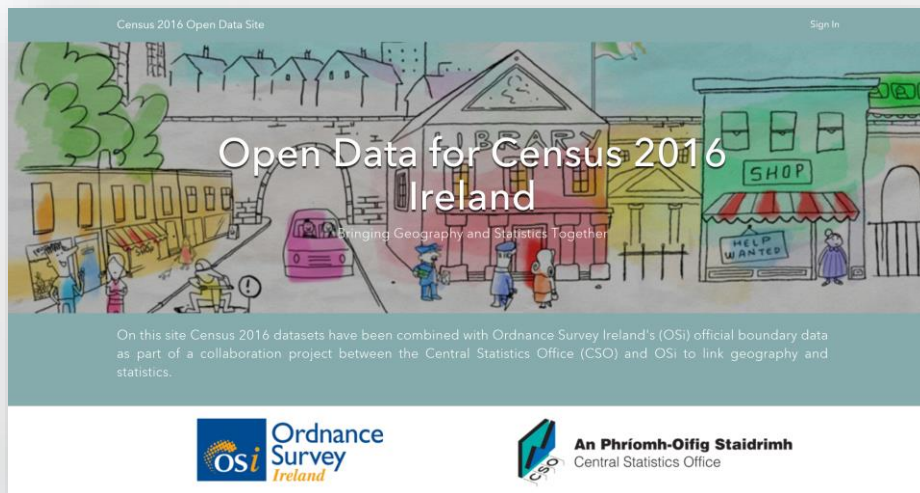
European Open Data Maturity Survey, 2017





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



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

EFGS DUBLIN 2017

HOME ABOUT SPEAKERS SCHEDULE REQUEST TICKET VENUE EVENT INFO GALLERY BLOG HOSTS CONTACT

Search...

2nd & 3rd November - Dublin

10th Annual European Forum for Geography & Statistics

94 Days 1 Hour 28 Minutes 54 Seconds

LIKE TO ATTEND? >

Welcome to the official website of the 10th European Forum for Geography and Statistics (EFGS)

This year's conference takes place in Dublin from 2nd to 3rd November 2017 and is proudly hosted by Ireland's Central Statistics Office (CSO) and Ordnance Survey Ireland (OSi). The partnership between the CSO and OSi is long established and was recently underpinned by a commitment to collaborate in relation to the visualisation of statistical outputs, publishing certain geographies as Linked Open Data and fulfilling Ireland's reporting responsibilities under the United Nations 2030 agenda for Sustainable Development. [READ MORE](#)

Janusz Dygasiewicz
President of EFGS

Colin Bray
CEO - OSi

Padraig Dalton
Director General - CSO

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.



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.



An Phríomh-Oifig Staidrimh
Central Statistics Office

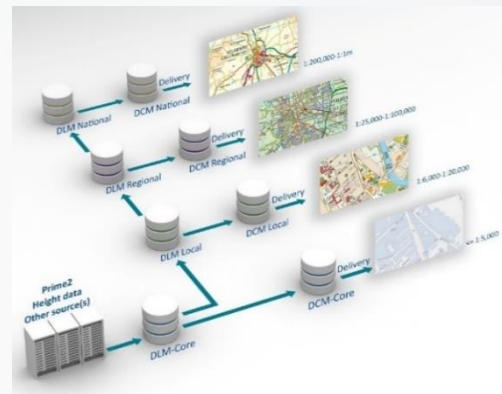


The Geospatial role in SDGs



Referencing

Authoritative Referencing of geography
(National Object Platform)

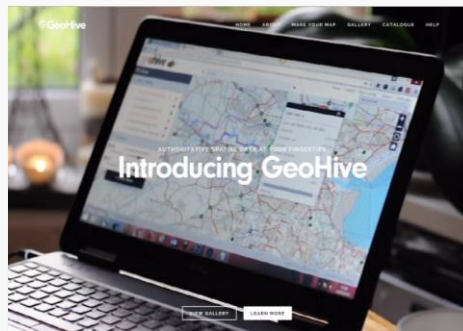


Visualisation

Maintained and consistent Multi-Resolution Data Store

Publishing & Access

National Geospatial Platform
(GeoHive collaborative portal)





- 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, Sustainable Development Goals Sign In



17 Goals to Transform our World

Governments, businesses and civil society together with the United Nations (UN) have started to mobilise efforts to achieve the Sustainable Development Agenda by 2030. Universal, inclusive and indivisible, the Agenda calls for action by all countries to improve the lives of people everywhere.

This is Ireland's public platform for exploring, downloading and combining publicly available data relating to UN Sustainable Development Goals. Ireland's progress against each Goal is measured using a set of globally agreed Indicators and here you can search for, discover and visualise the data we use to create those Indicators.

This platform was developed as part of a partnership between Ordnance Survey Ireland, the Central Statistics Office and Esri Ireland.

 **Ordnance Survey**
Ireland

 **GeoHive**

 **An Phríomh-Oifig Staidrimh**
Central Statistics Office

Ireland's UN SDGs Data Hub – Explore Data

 Ireland, Sustainable Development Goals Sign In

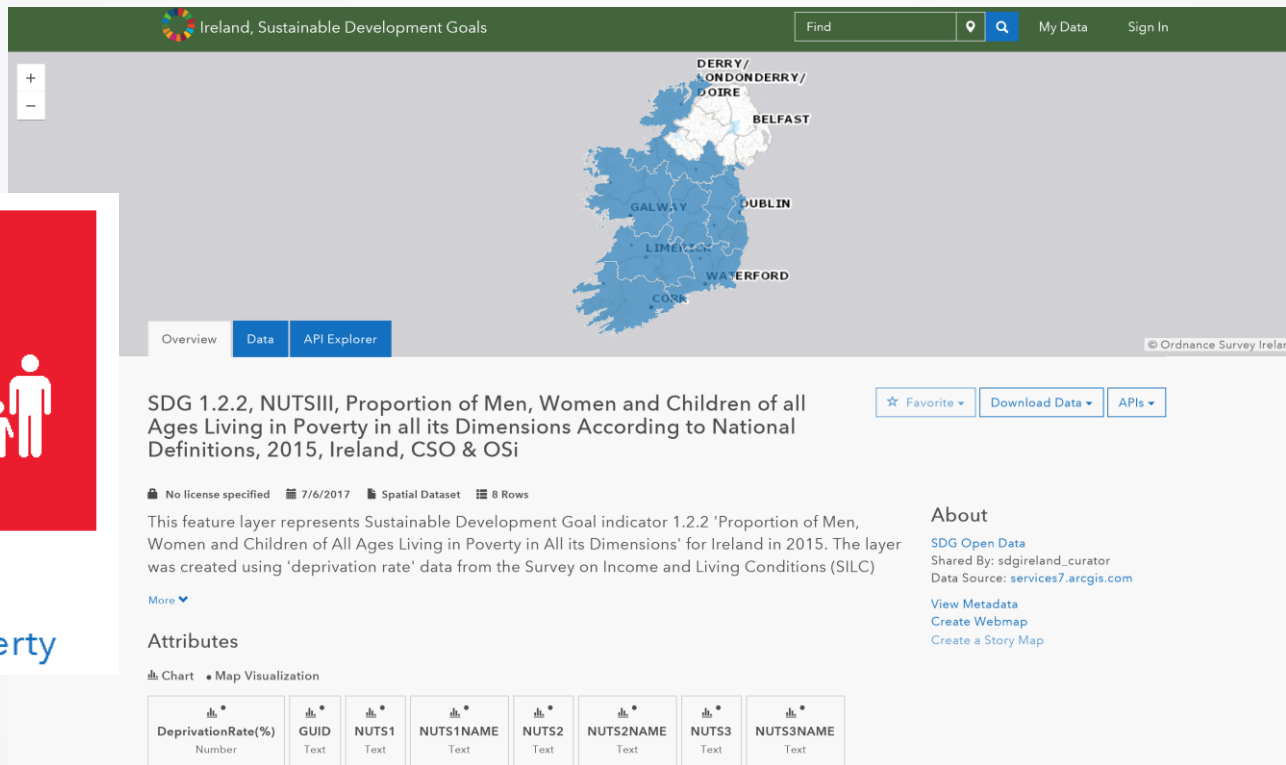
Click on an icon below to access spatial indicators relating to a particular Goal.

 1. No Poverty	 2. Zero Hunger	 3. Good Health & Wellbeing	 4. Quality Education	 5. Gender Equality	 6. Clean Water and Sanitation
 7. Affordable & Clean Energy	 8. Decent Work & Economic Growth	 9. Industry Innovation & Infrastructure	 10. Reduced Inequalities	 11. Sustainable Cities and Communities	 12. Responsible Consumption and Production
 13. Climate Action	 14. Life Below Water	 15. Life on Land	 16. Peace, Justice & Strong Institutions	 17. Partnerships for the Goals	 Boundary Data

Ireland's UN SDGs Data Hub – Interactive MapViewer



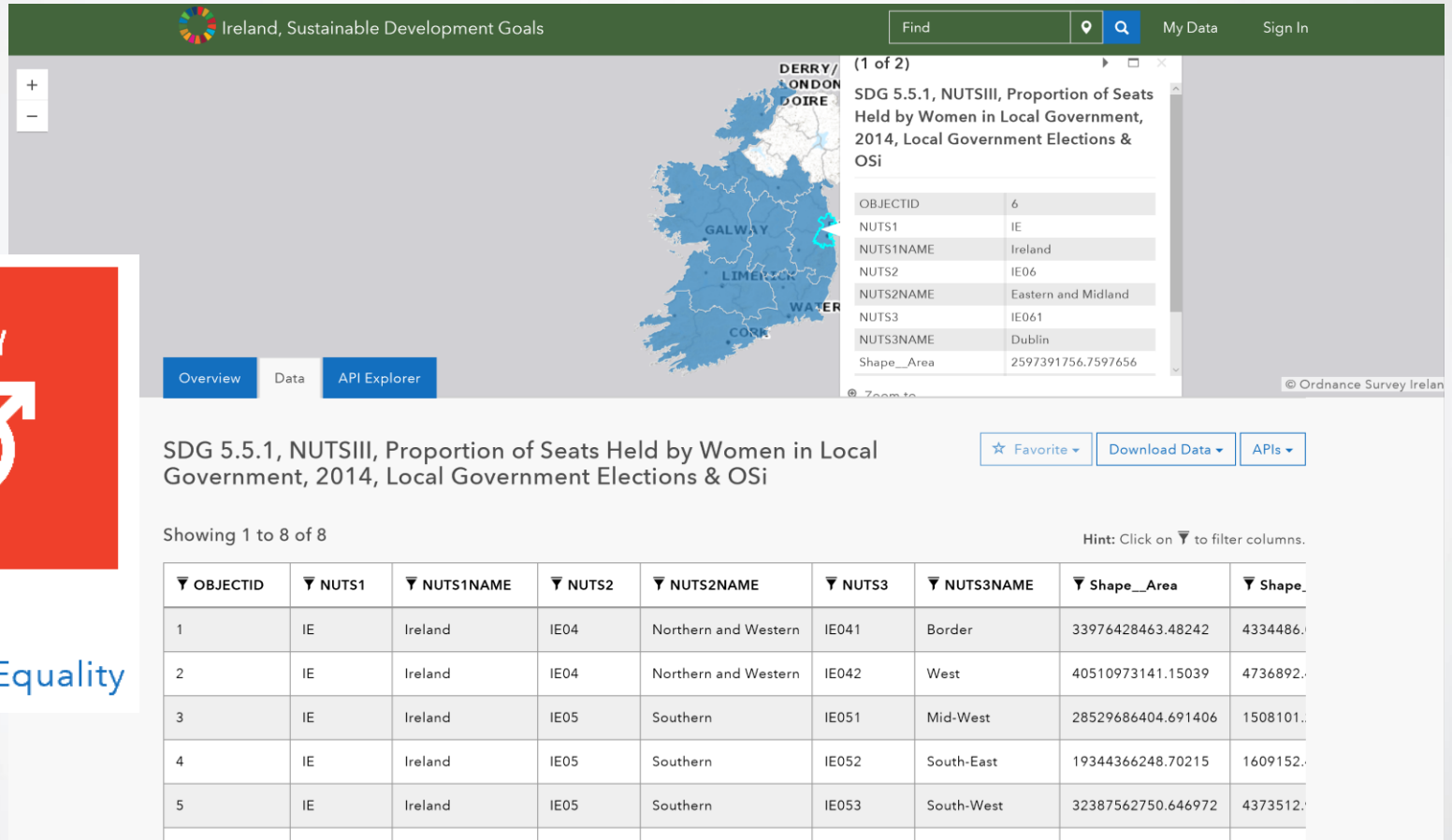
1. No Poverty



Ireland's UN SDGs Data Hub – Data Access



5. Gender Equality



Ireland's UN SDGs Data Hub – APIs and Documentation



 Ireland, Sustainable Development Goals

Find   My Data Sign In

Overview Data API Explorer

 © Ordnance Survey Ireland

SDG 9.2.2, NUTSIII, Manufacturing Employment as Percentage of Total Employment, 2017, Ireland, CSO & OSI

[★ Favorite](#)[Download Data](#)[APIs](#)

No license specified 7/6/2017 Spatial Dataset 8 Rows

Explore this dataset's API by completing the fields below. The fields will populate the query URL and the output will appear in the JSON box below. If you'd like to know more about the API, please refer to the full [REST API documentation](#).

Query

Parameter

Value

Where

No Active Filters



Out Fields

☒ OBJECTID ☒ NUTS1 ☒ NUTS1NAME ☒ NUTS2 ☒ NUTS2NAME ☒ NUTS3
☒ NUTS3NAME ☒ GUID ☒ Shape__Area ☒ Shape__Length ☒ MaleTotal
☒ FemaleTotal ☒ TotalIndustryEmployment

The fields to be included in the returned result set.

Spatial Inputs

Output Options

[Try It Out](#)

[Reset](#)

Query URL

```
https://services7.arcgis.com/XKcQKuJi18yGgE6/arcgis/rest/services/SDG_9.2.2,_NUTSIII,_Manufacturing_Employment_as_Percentage_of_Total_Employment,_2017/FeatureServer/0/query?where=1%3D1&outFields=*&outSR=4326&f=json
```

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



9. Industry
Innovation &
Infrastructure

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.

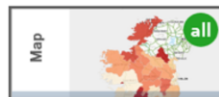
This feature layer represents Sustainable Development Goal indicator 2.1.2 'Prevalence of Moderate or Severe Food Insecurity in the Population' for Ireland, 2017 Q1 at NUTSIII level. Source: Central Statistics Office, Ordnance Survey Ireland.



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.

Story Maps



MAP TOUR



MAP JOURNAL



CASCADE



MAP SERIES



CROWDSOURCE



SHORTLIST



SWIPE/SPYGLASS



BASIC

Story Maps – providing a narrative on Ireland's SDGs



Ireland, Sustainable Development Goals

Sign In

Explore the Sustainable Development Goals via Story Maps

Click any Story Map below to access an interactive narrative on a Sustainable Development Goal for Ireland.



The Changing Patterns of Un...







Ireland's Life on Land



The Status of Ireland's Rivers

Story Map # 1 – Ireland's Life on Land





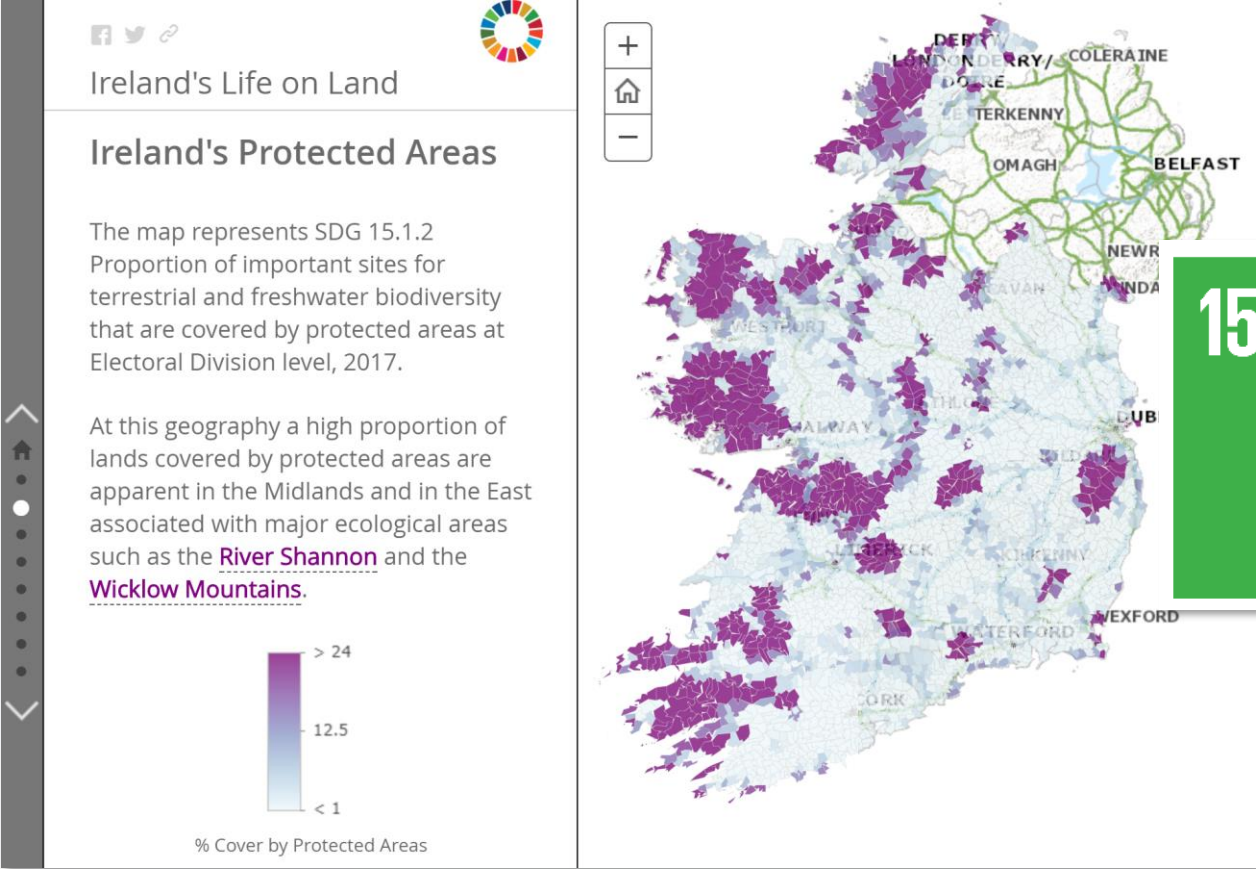
Ireland's Life on Land

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.

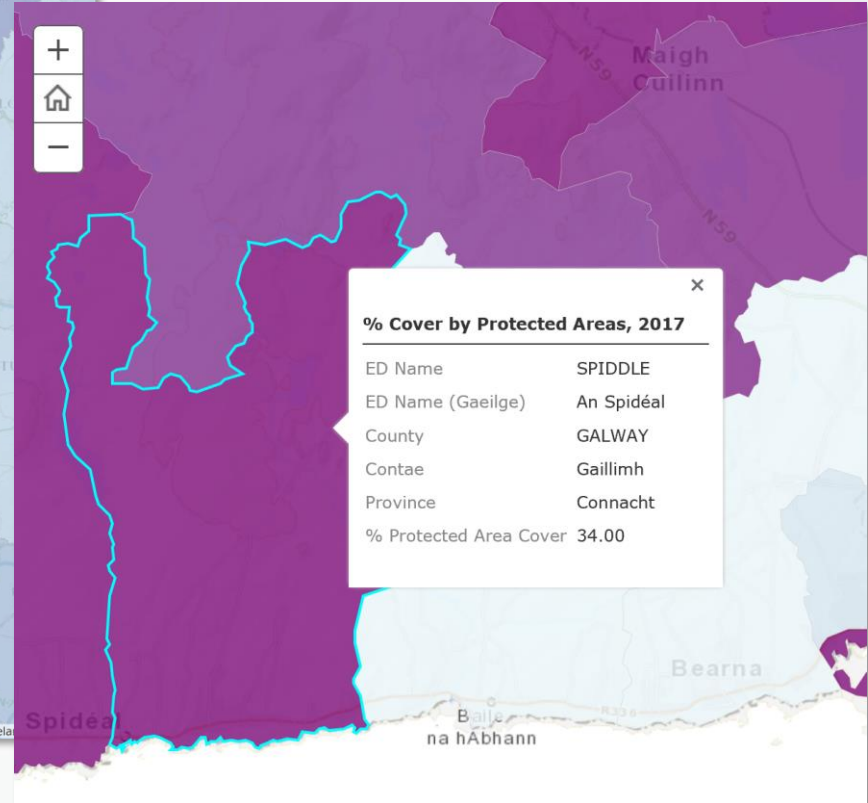
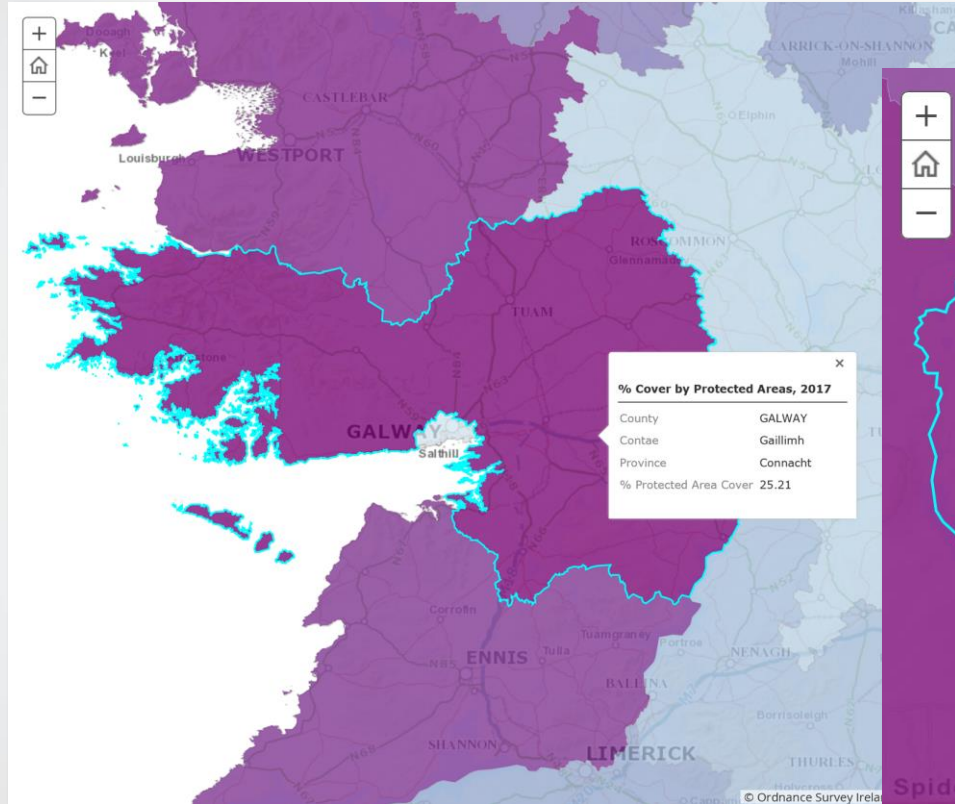
UN countries have adopted a set of 17 goals to end poverty, protect the planet and ensure prosperity for all as part of a new sustainable development agenda. Each goal has specific targets to help achieve the goals set out in the agenda by 2030.

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





Story Map # 1 – Ireland's Life on Land



Story Map # 2 – Changing Patterns





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

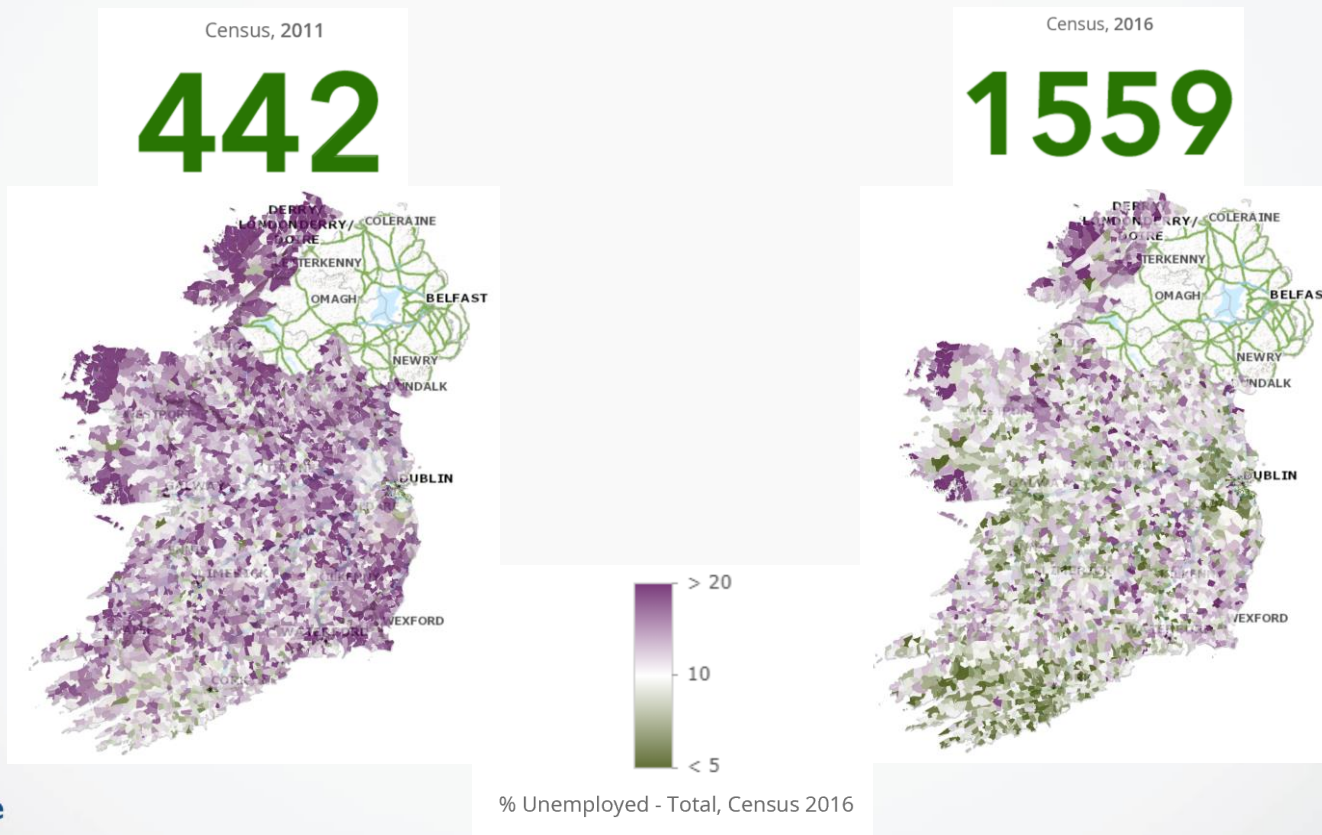
This Story Map illustrates changes in Ireland in relation to unemployment and poverty throughout the last decade. The Story Map has been developed to support efforts in reporting Ireland's status in relation to achieving United Nations (UN) Sustainable Development Goals.

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.



Story Map # 2 – Changing Patterns

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



Story Map # 2 – Changing Patterns

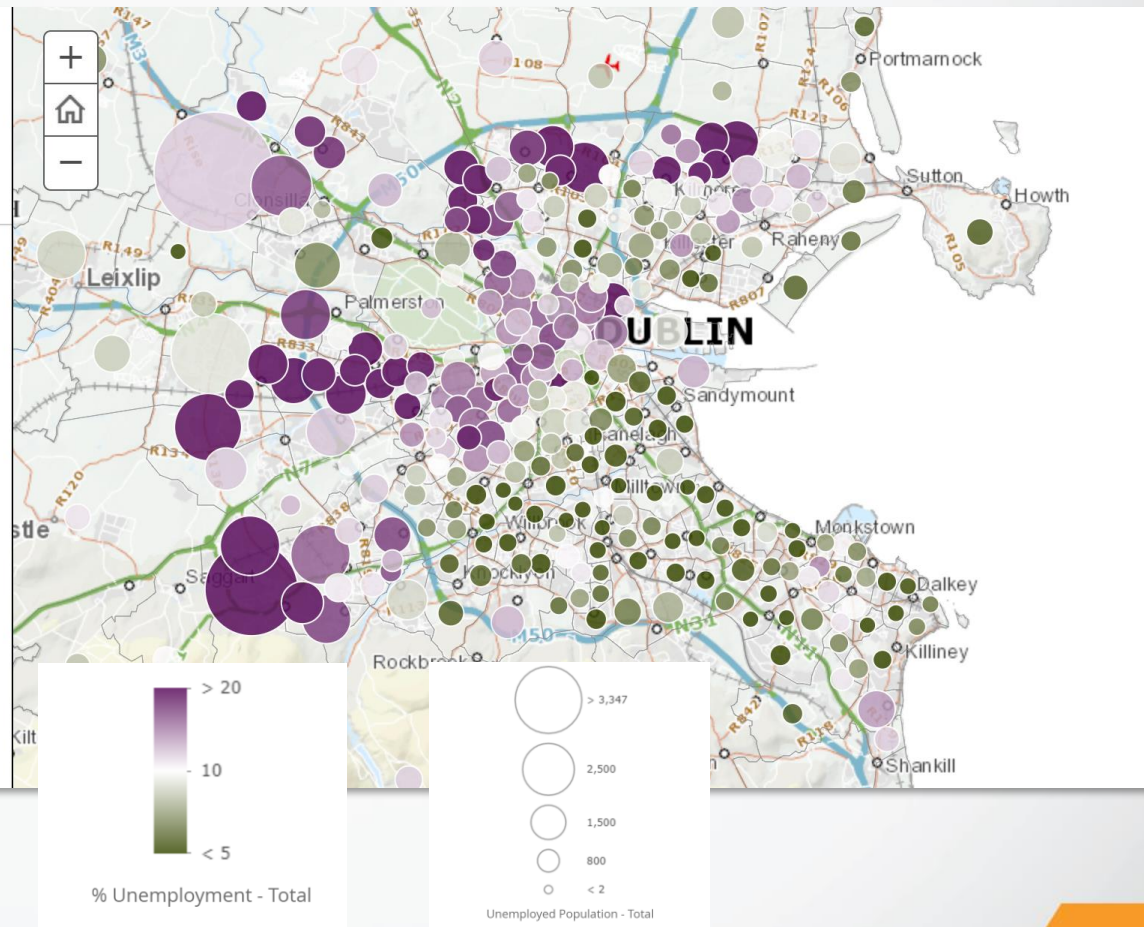


The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017

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.



- 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



Ordnance
Survey
Ireland

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

Thank You

