



Ireland's UN SDG Data Hub
Lorraine McNerney, General Manager

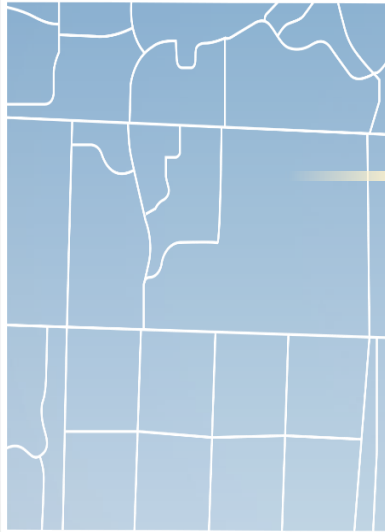


**Ordnance
Survey
Ireland**

Location as a common framework



Geospatial Data



IDs

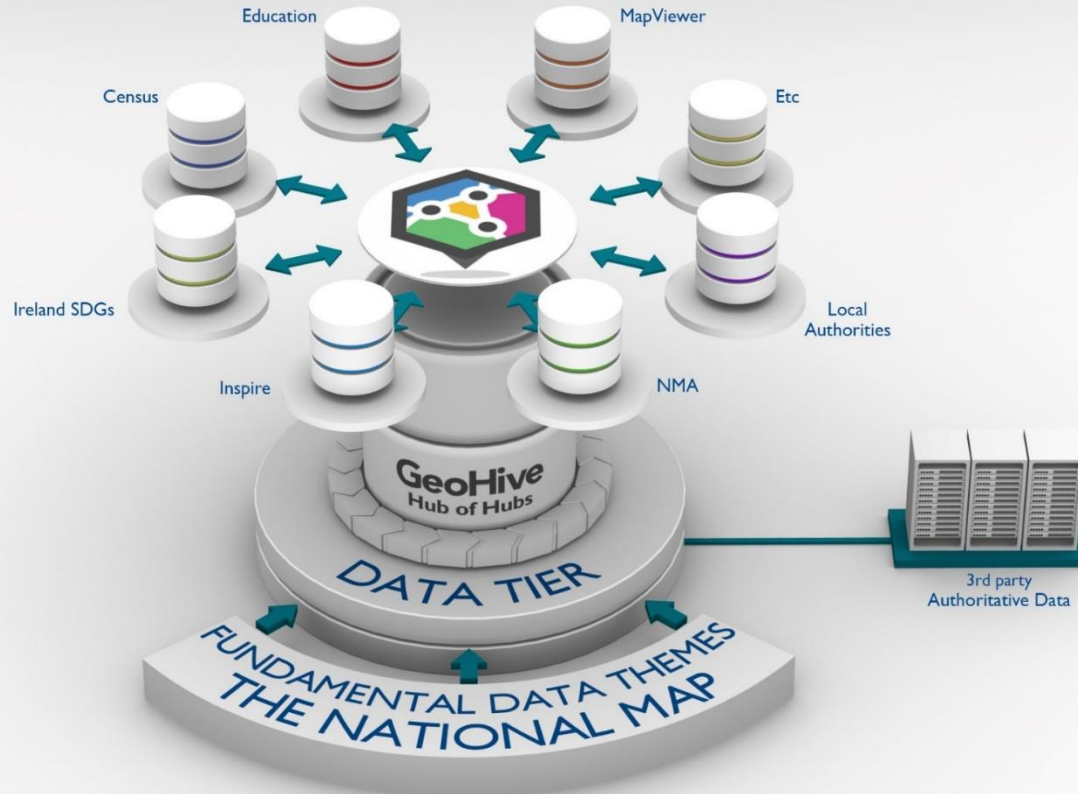
GUID	Area
1203501750071	42.3
1203501750072	34.8
1203501750073	26.9
1203501750074	51.2

Statistical Data

EA Id	Population	Male	Female
1203501750071	432	209	223
1203501750072	502	240	262
1203501750073	525	258	267
1203501750074	494	251	243

EA Id	Num HH	Avg HH size
1203501750071	89	4.9
1203501750072	98	5.1
1203501750073	102	5.1
1203501750074	85	5.8

What Geospatial/OSi brings to the relationship



GeoHive - National Data Infrastructure



UNSD/Esri Research Project (commenced May 2017)

- Project goal - new approach for monitoring UN SDGs using GIS
- Participation of 7 UN Members - Ireland, Mexico, Senegal, Philippines, Qatar, South Africa and Australia.
- OSi and CSO - participating in partnership with Esri Ireland.



Developed & launched Ireland's UN SDG Data Hub



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 the UN and the European Union (EU) Sustainable Development Goals. Ireland's progress against each Goal is measured using a set of globally and EU agreed Indicators and here you can search for, discover and visualise the data we use to create those Indicators.

<http://irelandsdg.geohive.ie/>

Ireland's UN SDGs Data Hub – Explore Data



1. No Poverty



2. Zero Hunger



3. Good Health & Wellbeing



4. Quality Education



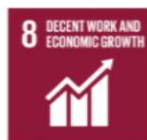
5. Gender Equality



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



5. Gender Equality

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

Showing 1 to 8 of 8

OBJECTID	NUTS1	NUTS1NAME	NUTS2	NUTS2NAME	NUTS3	NUTS3NAME	Shape__Area	Shape__Perim
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...

Ireland's UN SDGs Data Hub – APIs and Documentation



9. Industry Innovation & Infrastructure

Overview Data API Explorer

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

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](#).

Favorite Download Data APIs

Query URL

```
https://services7.arcgis.com/XKcQKu31T8yWgE6/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
```

Parameter	Value
Where	No Active Filters
Out Fields	<input checked="" type="checkbox"/> OBJECTID <input checked="" type="checkbox"/> NUTS1 <input checked="" type="checkbox"/> NUTS1NAME <input checked="" type="checkbox"/> NUTS2 <input checked="" type="checkbox"/> NUTS2NAME <input checked="" type="checkbox"/> NUTS3 <input checked="" type="checkbox"/> NUTS3NAME <input checked="" type="checkbox"/> GUID <input checked="" type="checkbox"/> Shape_Area <input checked="" type="checkbox"/> Shape_Length <input checked="" type="checkbox"/> MaleTotal <input checked="" type="checkbox"/> FemaleTotal <input checked="" type="checkbox"/> TotalIndustryEmployment

The fields to be included in the returned result set.

Spatial Inputs

Output Options

Try It Out Reset

StoryMaps – providing a narrative on Ireland’s SDGs



 Office of Statistics
Ireland, Sustainable Development Goals
Indicators.

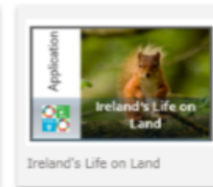
[Sign in](#)

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



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.



StoryMap # 1 – Ireland's Life on Land



Facebook, Twitter, and share icons at the top left of the StoryMap interface. A circular logo with 17 colored segments is at the top right.

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 15.



15 LIFE ON LAND

6 CLEAN WATER AND SANITATION

StoryMap # 1 – Ireland's Life on Land



Ireland's Life on Land

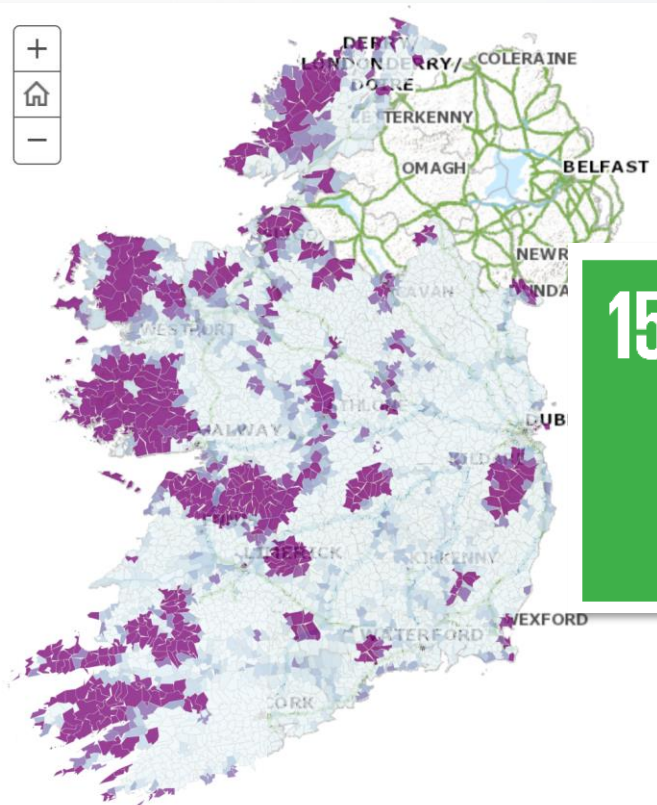
Ireland's Protected Areas

The map represents SDG 15.1.2 Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas at Electoral Division level, 2017.

At this geography a high proportion of lands covered by protected areas are apparent in the Midlands and in the East associated with major ecological areas such as the [River Shannon](#) and the [Wicklow Mountains](#).



% Cover by Protected Areas



StoryMap # 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.



StoryMap # 2 – Changing Patterns

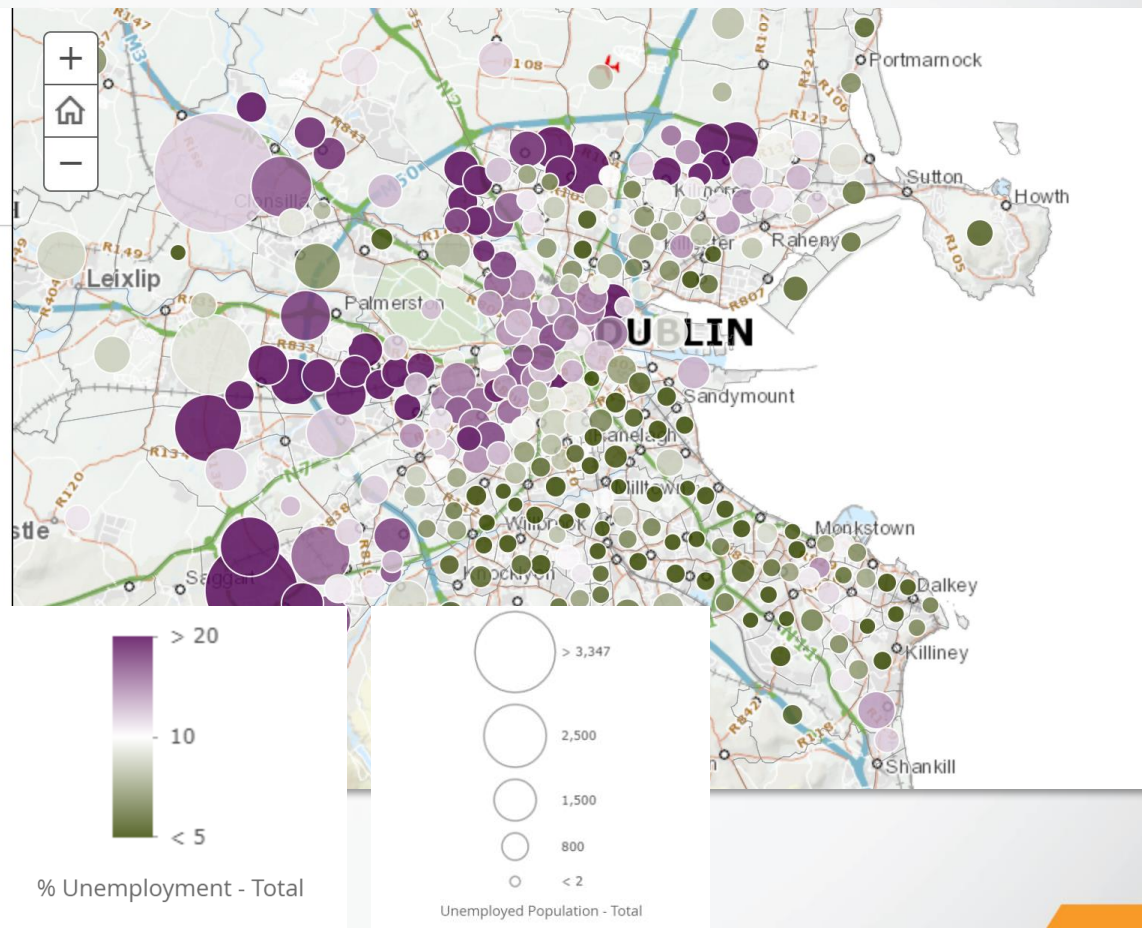


The Changing Patterns of Unemployment and Poverty in Ireland, 2011-2017

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.

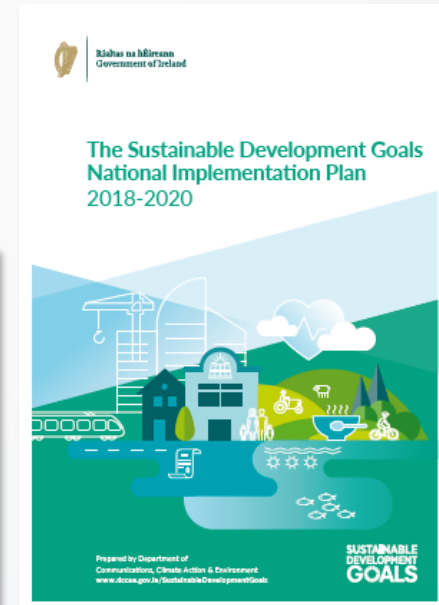


SDG Data Governance

- Established an OSi/CSO/Esri Ireland **Data Governance Team**, which meets weekly
- Established a national UN SDG Indicators **Data Governance Board** comprising stakeholders from Government and Agencies, which meets quarterly to agree:

- ✓ Metadata
- ✓ Business glossaries
- ✓ Lifecycle management
- ✓ Data quality

Quality Management / Metadata Management							
1. Specify needs	2. Preparation and development of statistical methodologies	3. Build necessary instruments for enforcement	4. Data collection	5. Data processing	6. Analyse	7. Dissemination	8. Evaluate
1.1 Determine needs for information and necessary results	2.1 Definition and development of the methodology for collecting data and conducting censuses	3.1 Build data collection instrument	4.1 Selection of final population/sample	5.1 Integration of data collection	6.1 Statistical analysis of results	7.1 Design and production of dissemination products	8.1 Gather evaluation inputs
1.2 Consult & confirm needs	2.2 Define framework and methodology for the sample selection	3.2 Build instruments for data collection	4.2 Preparation of data collection	5.2 Control, editing and data correction	6.2 Quality control results	7.2 Management of published dissemination products	8.2 Conduct evaluation
1.3 Establish output objective, analysis and testing exercises	2.3 Development of methodology for data processing	3.3 Configure workflow	4.3 Primary data collection	5.3 Imputation and weighting	6.3 Detailed analysis and interpretation of data publishing	7.3 Promote dissemination products	8.3 Agree action plan
		3.4 Testing instruments for data collection and data processing	4.4 Overseeing data from administrative and other secondary sources	5.4 Production of derived variables	6.4 Protection of confidential data	7.4 Manage user support	
		3.5 Test statistical business process	4.5 Entering of data collection	5.5 Calculating the aggregates			
				5.6 Calculation of final data files			
				5.7 Production and updating registers and database			



- Established UN SDG Civil Service **Senior Officials Group**, chaired by Department of Communication, Climate Action & Environment (DCCA), which both CSO and OSi are invited members with responsibility for:
 - ✓ Developing official reports on Ireland's progress towards the SDG Goals
 - ✓ Policy for the individual goals
 - ✓ Signing off on StoryMap content including policy narrative



Progress to-date in Ireland

- Formally launched **Ireland's UN SDG Data Hub** where interested parties can openly access, visualise and download data related APIs
- Developed **62 indicators (mostly Tier 1) and 112 datasets** at various geographies
- Established a **data governance teams** with key stakeholders

StoryMap for Ireland's official reporting on progress towards meeting national SDG targets delivered at the UN High Level Political Forum (HLPF) in July.



Key take-aways...

- Collaboration proven to be a great success, providing clear win-win for us and our stakeholders (**we are greater than the sum of our parts**)
- The value of having a clear understanding on organisational roles and responsibilities regarding national geospatial and statistical data (**playing to our strengths & removing duplication**)
- It's amazing what can be done with a **simple MOU and good will**
- The **value in visualising** statistical data within a geospatial context
- The value of re-purposing existing systems and architecture
- As a result of this successful collaboration CSO and OSi are partnering in taking the leading role in supporting government in the **development of a National Data Infrastructure (NDI)**.



UN World Geospatial Information Congress
Engaging government and citizens with the SDGs

19th November 2018, Deqing, China

Thank You

