

# Developing Ireland's Data Hub

**UN Seminar on Emerging Issues** March 2<sup>nd</sup> 2018



## Geospatial & Statistical collaboration in Ireland



- Founded in 1824
- Mandate: To provide a mapping service in the State



- Established in 1949
- Mandate: Collection, extraction and dissemination for statistical purposes of information relating to economic, social and general activities of the State



# Irish Data Hub origins - CSO/OSi Memorandum of Understanding

#### Signed in 2016

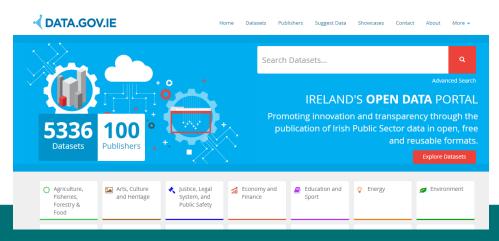
- To develop common identifiers among geographic and statistical datasets as part of open linked data initiatives
- Collaboration in providing new dissemination channels for statistical outputs
- Provide technical solution to fulfil Ireland's reporting responsibilities under the United Nations 2030 Agenda for Sustainable Development
- Promote the statistical potential of geospatial data as part of the wider development of the National Data Infrastructure



## Irish Data Hub origins - Common identifiers

- Agreed identifiers (GUIDs) for 12 geographies, which were incorporated into CSO and OSi datasets
- Boundaries published on National Open Data portal

https://data.gov.ie/data





## Irish Data Hub origins - UNSD/Esri Project

- CSO and OSi along Esri Ireland, participating in the UNSD/Esri Research Exercise.
- Participation of seven UN Members Ireland, Mexico, Senegal, Philippines, Qatar, South Africa and Australia
- This exercise commenced in May 2017 with a goal to develop and deploy a new approach for monitoring the UN SDGs using GIS











## Irish Data Hub workflow





SDG Platform

## **Census 2016 Platform**











## **Census 2016 Platform**

- Created to complement the release of Irish Census 2016 data.
- Its was built as an exemplar of the SDG portal, to inform stakeholder of the features and functionally of these types of websites.
- http://census2016.geohive.ie/
- Website built within three weeks of census data release (Aug 2017)



## **SDG Platform**





## **SDG Platform**

- http://irelandsdg.geohive.ie/
- **50+ indicators** (mostly Tier 1)
- 90+ datasets at NUTS 3, county and census local area geography.
- The information contained on this portal will inform Ireland's progress against each Goal.
- Launched in November 2017
- Built to host UN, EU and National SDG Indicator values



### **Ireland's Data Hub – Interactive MapViewer**

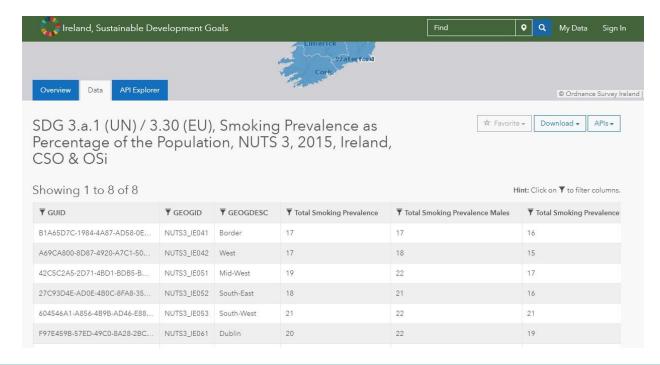




#### Ireland's Data Hub - Data Access



Good Health & Wellbeing

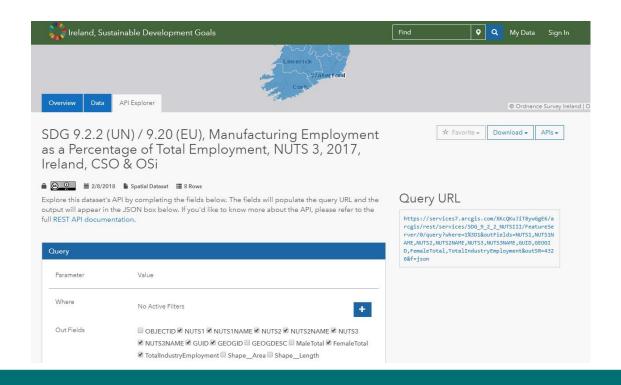




#### Ireland's Data Hub – APIs and Documentation



9. Industry Innovation & Infrastructure





Story maps are in development across both platforms

#### Each story map will:

- > open with policy commentary provided by the relevant Department, Agency or Office, and
- contain supporting information and relevant interactive maps

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.









Bye



# 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 inform 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.





10% the PES data shows, in general, a higher unemployment level.



% Unemployed - Total, Census 2016

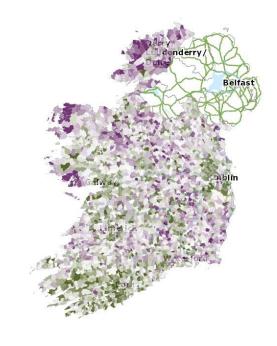
Number of Electoral Divisions with a **10%** or Less Unemployment Rate

Census, 2016

1559

Census, 2011

442





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

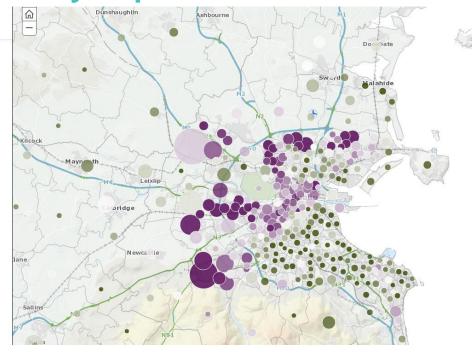
#### A focus on cities

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









#### **Conclusions**

- Strong benefits in closer collaboration between statistical and geospatial agencies
  - Ordnance Survey Ireland & Central Statistics Office
  - Technical partner (Esri Inc. & Esri Ireland)
- The value of a platform approach to national mapping and to national geospatial systems architecture
- Benefits of reusing existing systems and architecture





# Thank You

