



An
Phríomh-Oifig
Staidrimh

Central
Statistics
Office

Ireland's innovative approach to monitoring the SDG indicators through geospatial visualisation

Kevin McCormack

UNSD/Esri Research Exercise

The Irish Central Statistics Office (CSO), in collaboration with Ordnance Survey Ireland (OSi) and Esri Ireland, are currently participating in the UNSD/Esri Research Exercise. This is an exemplar of both inter agency and public-private sector partnerships

This exercise commenced in May 2017 with a goal to develop and deploy a new approach for monitoring the UN SDGs using geographic information systems – “geospatial potential of statistical data.”



Role of the CSO

The CSO has a central role in the:

- identification
- management, and
- presentation

of the data needed to meet the requirements of the SDG Indicators.

In this responsibility, the CSO will deploy, as far as possible, the Generic Statistical Business Process Model (GSBPM), which has 8 phases and 34 sub-phases.



Generic Statistical Business Process Model



Tasks completed by Project Team

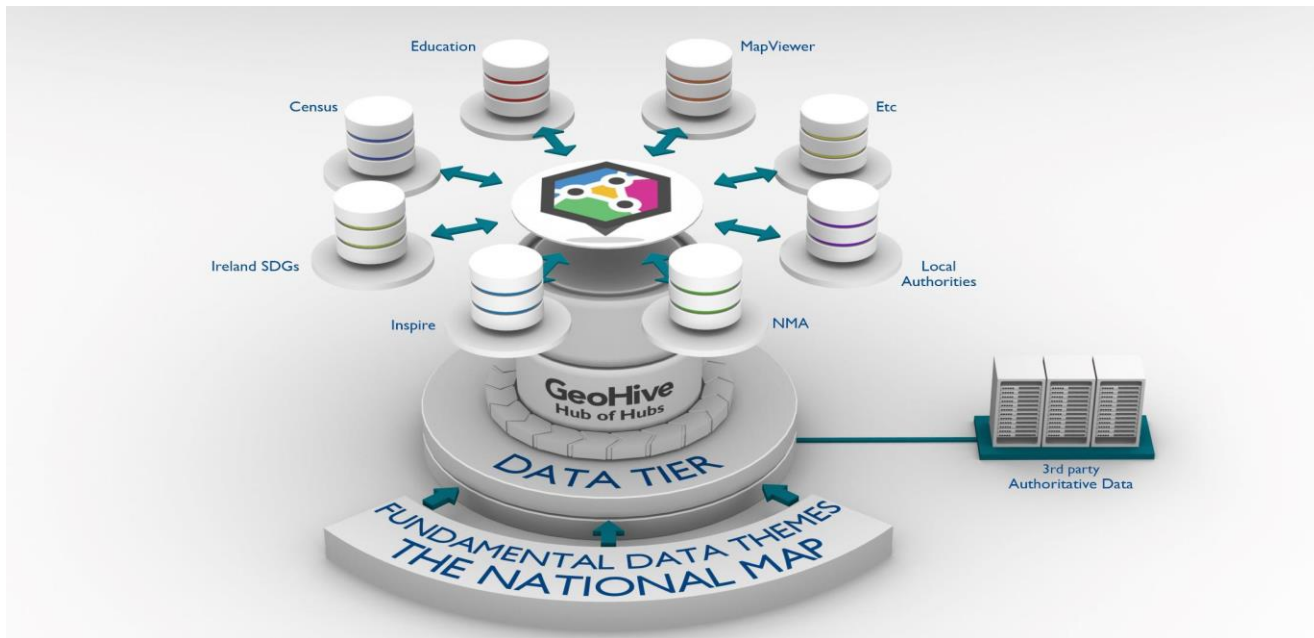
Sourced information for 60 **indicators** (mostly Tier 1) and created **100+ datasets** at NUTS 3, county and census local area geography.

Developed Ireland's **SDG platform**, hosted on OSi's web portal, known as GeoHive, where interested parties can openly access, visualise and download data and related APIs.

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



GeoHive Platform



Ireland's SDG portal

Ireland's SDG portal was officially launched at the European Forum for Geography and Statistics (EFGS) Conference on 2nd November 2017.

Site was well received across:

- Government,
- Public Sector, and
- Civil Society.

The information contained on this portal will inform Ireland's progress against each Goal.

The Department of Communications, Climate Action and Environment (DCCAE) has responsibility for officially reporting on Ireland's progress towards meeting national SDG targets.



Ireland's SDG portal



Ireland's SDG portal



Státas na hÉireann
Government of Ireland

Ireland, Sustainable Development Goals

Indicators.

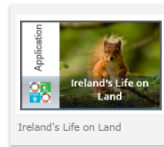
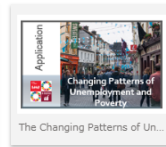
[Sign In](#)

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.



Story Maps

Story maps are in development around Goals 1-2 and 6-8.

Each story map will:

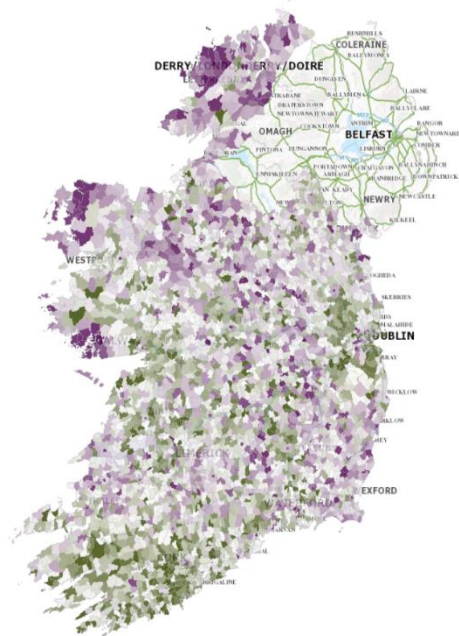
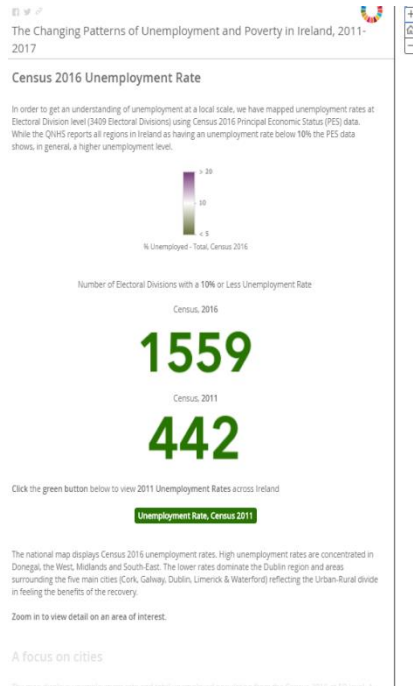
- open with policy commentary provided by the relevant Department, Agency or Office, and
- contain supporting information and relevant interactive maps.



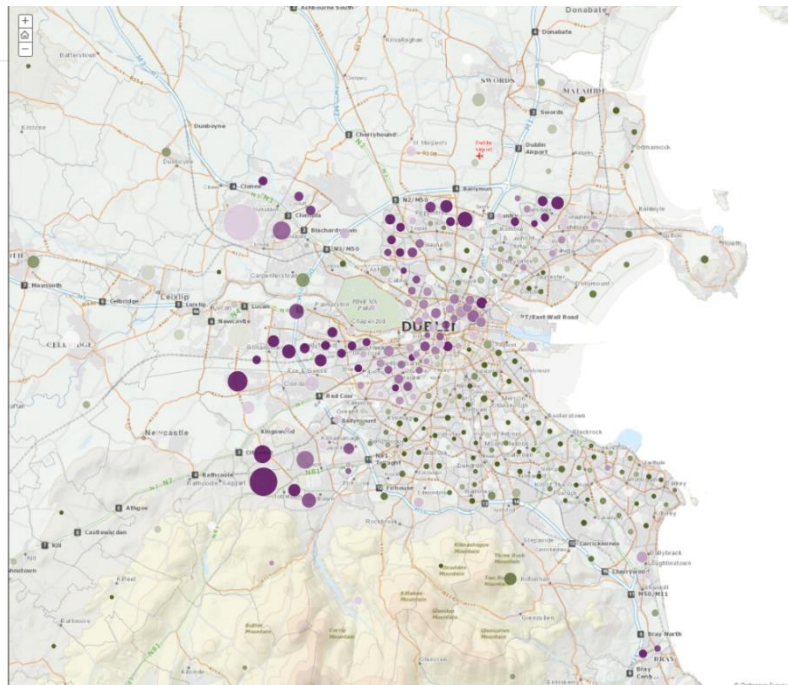
Story Maps



Story Maps



Story Maps



Ireland's SDG portal



Statistics on Ireland
Department of Social Protection

Ireland, Sustainable Development Goals

[Sign In](#)

Explore our data for Sustainable Development Goals
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

This is an ongoing project and to date we have provided data for indicators across all of the 17 Goals.






www.cso.ie

Ireland's SDG portal

Riadas na hÉireann
Government of Ireland

Ireland, Sustainable Development Goals

Find   My Data Sign In



Filter By

Tags

Search for a tag

Health (19)
Sustainable Development Goal 3 (19)
NUTS 3 Goal 3 (12)
Administrative County Goal 3 (7)
SDGs (EU) Goal 3 (5)
Alcoholism (1)
Child Mortality (1)
Diseases (1)
Family Planning (1)
Hiv (1)

Source

Sustainable Development Goals, Ireland (19)

Content Type

spatial dataset (19)

Feeder





1 - 10 of 19 results


Relevance

SDG 3.b.1, Proportion of Population Covered by Vaccines by Type of Vaccine, Administrative County, 2015, Ireland, HPSC, CSO & OSI

Shared by sdgireland_curator

This feature layer represents Sustainable Development Goal indicator 3.b.1 'Proportion of Population Covered by Vaccines by Type of Vaccine' for Ireland. The layer was created using [Annual Epidemiological Report 2015](#) data produced by the Health Protection Surveillance Centre and pre 2014 Administrative County boundary data ([more](#))





  5/21/2018  Spatial Dataset  34 Rows




SDG 3.3.2, Tuberculosis Incidences per 100000 Population, NUTS 3, 2014, Ireland, HPSC, CSO & OSI

Shared by sdgireland_curator

This feature layer represents Sustainable Development Goal indicator 3.3.2 'Tuberculosis Incidences per 100000 Population' for Ireland. The layer was created using [National TB Surveillance](#) data 2014 produced by the Health Protection Surveillance Centre and NUTS 3 boundary data produced by Ordnance Survey Ireland (OSI). Note that





  5/14/2018  Spatial Dataset  8 Rows




SDG 3.6.1, Death Rate due to Road Traffic Accidents per 1000 Population, Administrative County, 2013, Ireland, RSA, CSO & OSI

Shared by sdgireland_curator

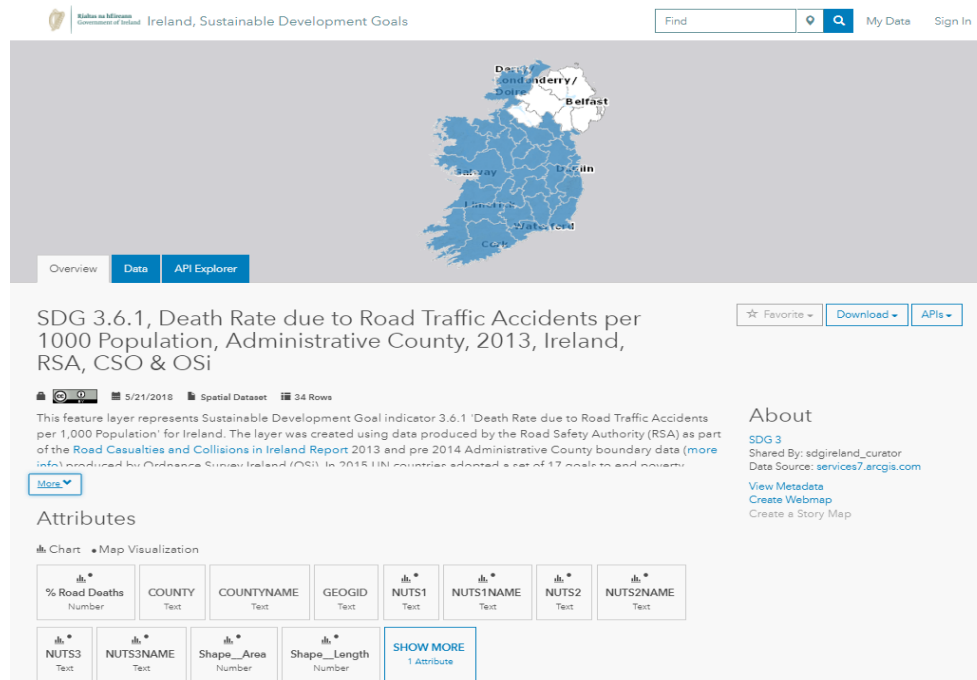
This feature layer represents Sustainable Development Goal indicator 3.6.1 'Death Rate due to Road Traffic Accidents per 1,000 Population' for Ireland. The layer was created using data produced by the Road Safety Authority (RSA) as part of the [Road Casualties and Collisions in Ireland Report 2013](#) and pre 2014 Administrative

  5/21/2018  Spatial Dataset  34 Rows

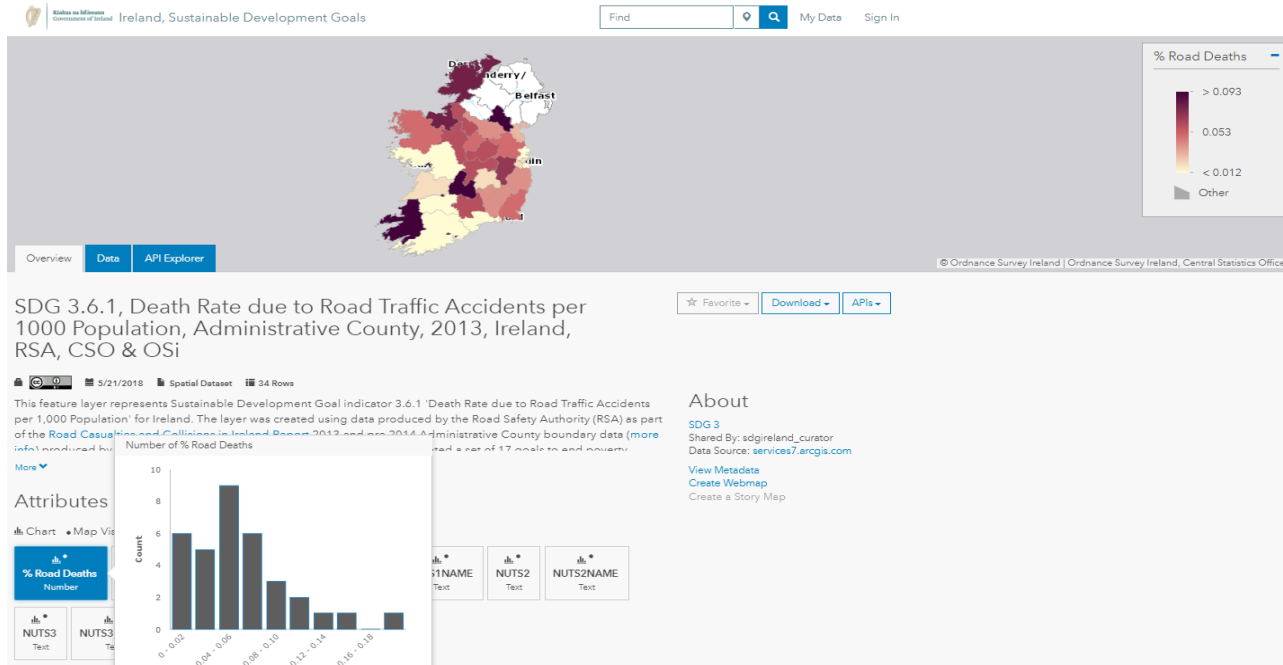




Ireland's SDG portal



Ireland's SDG portal



Governance

Established a OSi/CSO/Esri Ireland **data governance team** which holds weekly meetings.

In addition, the CSO established a national UN SDG Indicators Data Governance Board (UNSDGDGB) consisting of various stakeholders from Government Departments and Agencies, which meets on a quarterly basis.

The UNSDGDGB has responsibility for:

- metadata,
- business glossaries,
- lifecycle management, and
- data quality.



Governance, ctd.

There is also a UN SDG Civil Service Senior Officials Group, chaired by the DCCAE, which both the CSO and OSi are invited members.

- This group is charged with developing the official reports on Ireland progress toward the SDG Goals.
- Subsets of this group have official responsibility for the policy aspects of individual Goals.
- All the story maps on the Ireland's SDG portal are presented to this group for feedback prior to release, most especially if there is a policy aspect to a narrative.





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Additional Information



Census 2016 Open Data Site

The SDG team has also built an open data website, in August 2017, to complement the release of Irish Census 2016 data.

<http://census2016.geohive.ie/>

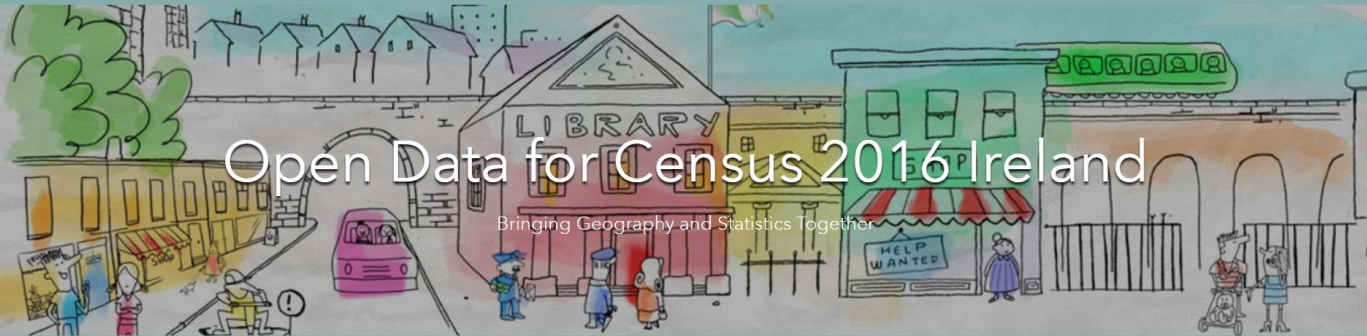
This website was completed within three weeks of the release of the Census data.

Its was built as an exemplar of the SDG portal, to inform stakeholder of the features and functionally of these types of websites.



Census 2016 Open Data Site

Census 2016 Open Data Site Sign In



Open Data for Census 2016 Ireland

Bringing Geography and Statistics Together

On this site Census 2016 datasets have been combined with Ordnance Survey Ireland's (OSi) official boundary data as part of a collaborative project between the Central Statistics Office (CSO) and OSi to link geography and statistics.



Census 2016 Open Data Site


Census 2016 Open Data Site

Sign In


Explore Data via Census Themes

Click to access statistics in any of the 15 Census themes provided below.


We have used official Alias Names for the Census 2016 Variables presented on this site.
Download the [Census 2016 Glossary](#) as a cross reference between the variable field names and descriptive alias names.




1. Sex, Age & Marital Status




2. Migration, Ethnicity & Religion




3. Irish Language




4. Families




5. Private Households




6. Housing




7. Communal Establishments




8. Principal Status




9. Social Class & Socio-Economic Group



10. Education



11. Commuting



12. Disability, Carers & General Health





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Developments



Ongoing Developments

- Process mapping – CSO and OSi interactions.
- Automating the extraction of SDG data from CSO's Statbank and joining to shapefiles in ArcGIS.
- Developing a complementary map solution using the *ggplot2* package in R.





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