



An
Phríomh-Oifig
Staidrimh

Central
Statistics
Office

COVID-19 Data Hub using SDG Reporting Framework

UNECE – 5th Expert Meeting on statistics for SDGs 29 Mar- 1 April 2021, Virtual Meeting

Covid-19 impact on SDGs LNOB perspective – Session 31st March 2021

Presenters: Dr Kevin McCormack and Dr Mary Smyth

Sustainable Development Goals & Indicator Reports,
Central Statistics Office, Ireland

UNSD/Esri Research Exercise

- Irish Central Statistics Office (**CSO**), Ordnance Survey Ireland (**OSi**) and **Esri Ireland**, participated in the **UNSD/Esri Research Exercise**.
- Commenced in May 2017 - develop and deploy a new approach for monitoring the UN SDGs using GIS
- “Geospatial potential of statistical data.”
- Result: Ireland’s official Government **SDG Data Hub**
- **Ireland’s Institute for SDGs (IIS)** – the CSO, OSi and Department of Environment, Climate and Communications (DECC) - formalise SDG work



SDG Platform

- <http://irelandsdg.geohive.ie/>
- **SDG indicators**
- **Geospatial datasets** (NUTS 3, county and census local area geography).
- Built to host UN, EU and National SDG Indicators
- Official Government SDG initiatives
- Academic, Private Sector Civil Society SDG Activities



Ireland's COVID-19 Data Hub

In response to the Coronavirus disease (COVID-19) outbreak,

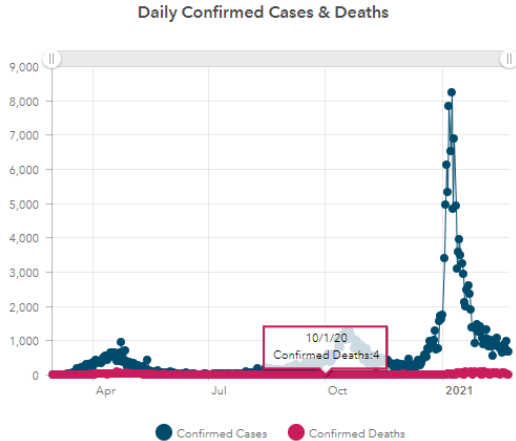
- Rapidly developed a National Covid-19 Data Hub on the GeoHive platform.
- GeoHive – the State's geospatial data platform in the Public Service Data Strategy 2019 – 2023.
- Developed by:
 - Central Statistics Office (CSO) in collaboration with
 - Ordnance Survey Ireland (OSI),
 - Department of Housing, Planning & Local Government (DHPLG)
 - All Island Research Observatory (AIRO) in Maynooth University, along with Esri Ireland as technical partners,



Ireland's COVID-19 Data Hub

Ireland's COVID-19 geostatistical reporting ecosystem

<https://covid19ireland-geohive.hub.arcgis.com/>



Data last Updated: Monday, February 22, 2021

COVID-19 Ireland | Vaccinations | ICU, Hospital & Testing | Detailed Profile of Cases | Detailed County Statistics | Data & Services | More

Riadas na hÉireann
Government of Ireland

Coronavirus COVID-19 Public Health Advice

Ireland's COVID-19 Data Hub

National Statistics, Information & Data

The information presented in this site is based on official figures provided by the Health Protection Surveillance Centre (HPSC) and the Health Service Executive (HSE). Datasets, charts and maps will be updated on an on-going basis and in line with newly published data. This site is built using the GeoHive platform, Ireland's Geospatial Data Hub.

2/22/2021
Data last Updated

Confirmed Headline Figures

[Click for more information](#)

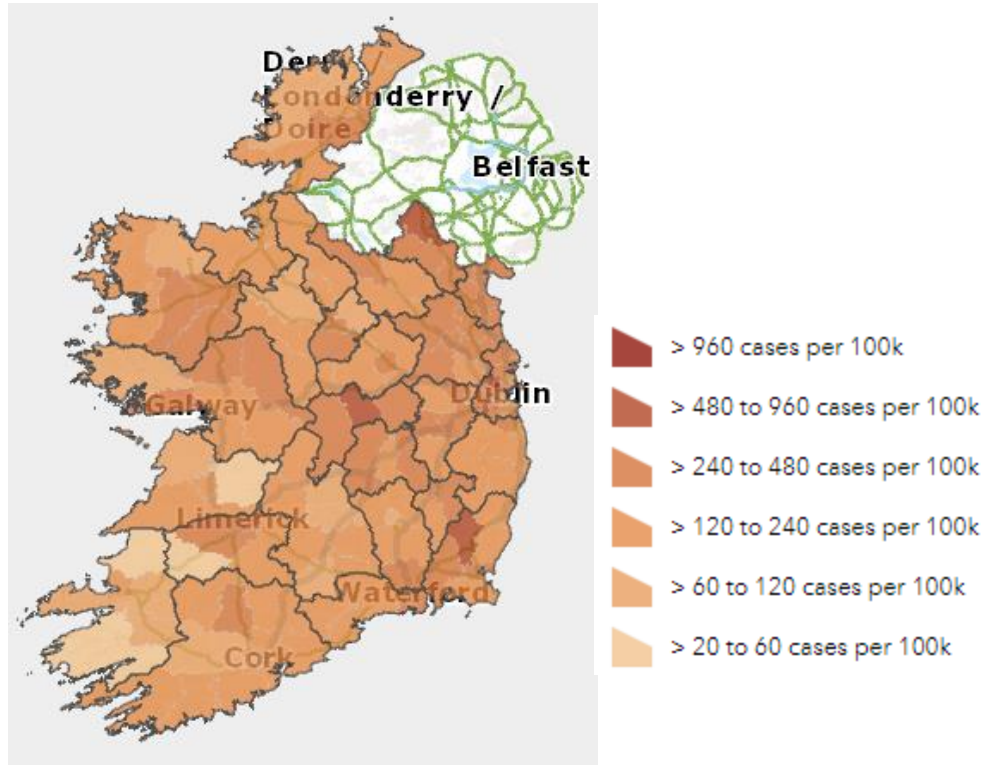
Total Confirmed Cases (HPS...)	Total Deaths (HPSC)	Latest Daily Cases (HPSC)	Latest Daily Deaths (HPSC)
215,743	4,137 <small>includes probable and possible</small>	686	1

Confirmed Cases in ICU	Confirmed Cases in Hospital	Tests Completed	Positive Rate (%)

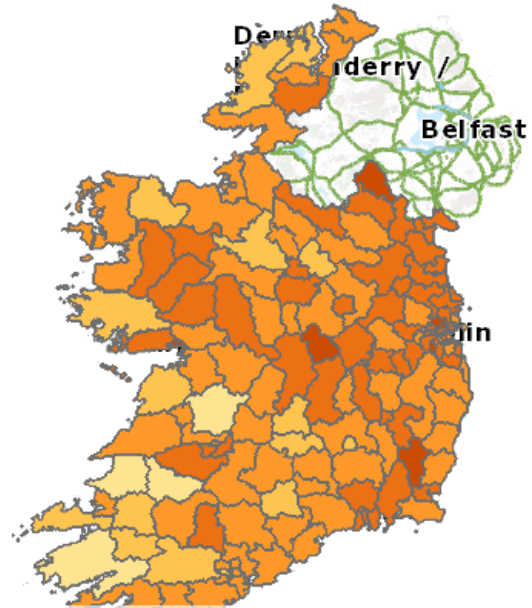


Ireland's COVID-19 Data Hub

COVID-19 14-day incidence rates per 100,000 population by Local Electoral Area (LEA), Ireland 02/02/2021 to 15/02/2021



Time series of COVID-19 incidence rate per 100k of the population



Office (CSO) Department of Housing, Planning and Local Government, D



Pages

Detailed Statistics, Graphs & Information

Click on links below to get more detailed information related to COVID-19 in Ireland.



Vaccinations

Detailed statistics, graphs and information on COVID-19 Vaccination Figures

[Explore](#)



ICU, Hospitals & Testing Data

Detailed statistics, graphs and information on ICU, Acute Hospital, and Testing Data.

[Explore](#)



Detailed Profile of Cases

Detailed statistics, graphs and information on confirmed COVID-19 cases.

[Explore](#)



Help/FAQs

View Frequently Asked Questions (FAQs) & supporting information on this Hub.

[Explore](#)

Vaccines Administered

[Click for more information](#)

Vaccine Data up to

Sat, 20 Feb
2021

Total 1st Dose Vaccines Administered

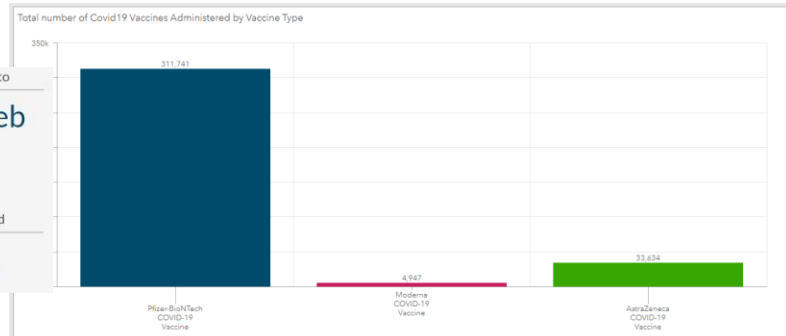
219,899

Total 2nd Dose Vaccines Administered

130,423

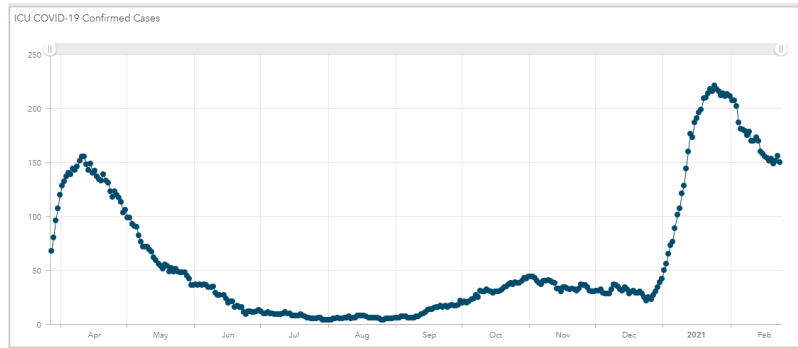
Total Vaccines Administered

350,322

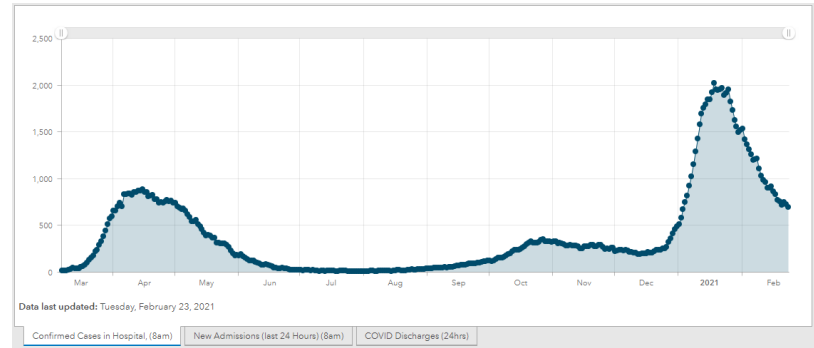


ICU, Acute Hospital & Testing Data

ICU COVID-19 Confirmed Cases



Acute Hospitals Confirmed Cases, Admissions and Discharges



Ireland's COVID-19 geostatistical reporting ecosystem

Model

UNECE's Generic Statistical Business Process Model (GSBPM)

UN-GGIM's Integrated Geospatial Information Framework (IGIF)

The Global Statistical Geospatial Framework (GSGF)



Role of the CSO

Data Infrastructure

- HSE collecting data on Hospital and ICU beds, Testing, Cases and Patients
- NPHT bringing together Data Modelling Experts from Academia, Department of Health, etc
- CSO could provide the infrastructure to bring them together safely and quickly, via the ADC and RCU



Data Processing

- Data encrypted and transferred to CSO by secure SFTP
- Data read into SAS and on to ADC Source Tier
- Identifiable variables, such as Name, Address, removed, Id Numbers, eg IHI, MRN hashed. Put on Analysis Tier where CSO linkable identifiers, eg CSOPPSN added where possible
- File converted to csv and put on RCU server for researcher access



Data Governance

- Paperwork was done in parallel with data collection
- Data was collected under Section 30 of the Statistics Act
- A Section 11 partnership was put in place
- Researchers were appointed as Officers of Statistics
- A Data Protection Impact Assessment (DPIA) and associated documents were prepared



Research and Statistical Outputs

- Epidemiological research by members of the Irish Epidemiological Modelling Advisory Group
- Modelling of pandemic data by this group, including calculation of the 'R' rate
- Development and evaluation of the success of policy responses via support for policy analysts
- Tracking the incidence levels nationally and locally, via support for the COVID 19 Data Hub on the Ordnance Survey Ireland Geohive platform
- Information on capacity issues in hospitals, testing, contact tracing and referrals
- Official statistics and public information on all aspects of the COVID crisis in subsequent CSO analysis





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Thank you

Any Questions?

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