

How the Covid-19 crisis drove the publication of Open Data

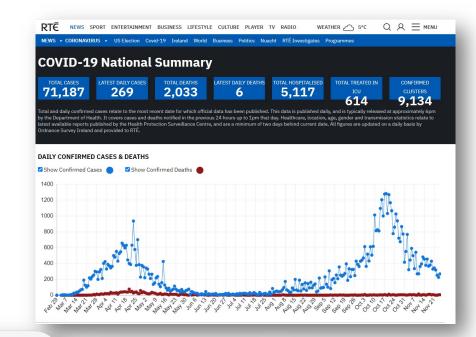
Hugh Mangan, Ordnance Survey Ireland

2nd December 2020

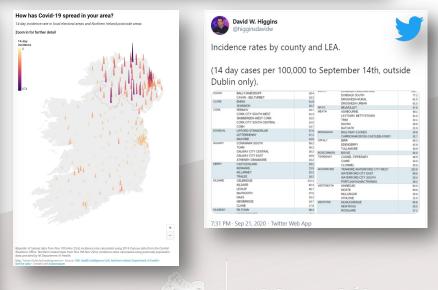


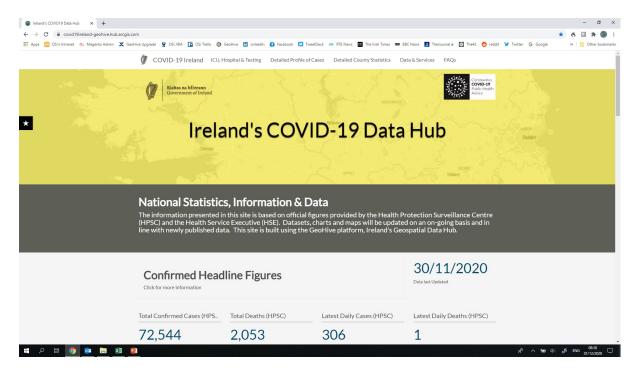
This is a story about the importance of authoritative data ...

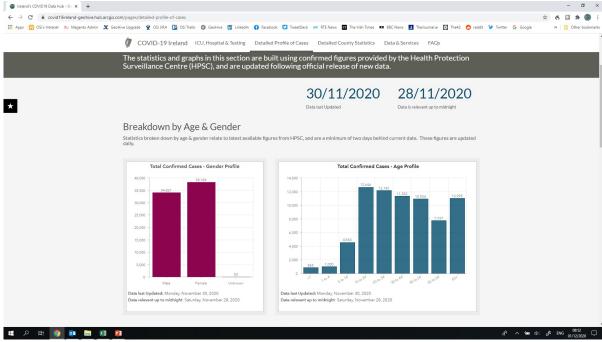
- It's a story about public sector led collaboration and problem solving, under demanding circumstances.
- It's a story about the behind the scenes data supply chain to produce **Open Data** that many of us consumed, in many ways, over the last few months.
- And the lessons learnt from that.

















An Roinn Caiteachais Phoiblí agus Athchóirithe Department of Public Expenditure and Reform



An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta Department of Housing, Local Government and Heritage













Context: Public Sector Data Strategy













Trusted Geospatial Services



Collaboration & Partnerships



Leadership & Communication



Transparent & Accountable



Context: SDGs and Open Data



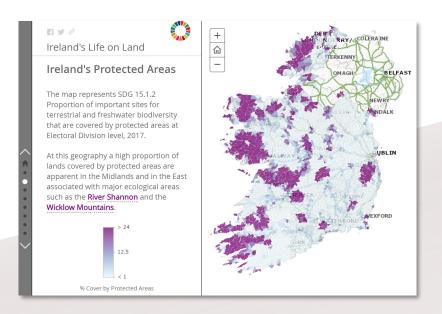
Geospatial Data and GeoHive Platform





Statistics and Data Governance







▲ Public Health Advice



Dr. Tony Holohan – Chief Medical Officer (CMO)

Refocus SDGs Group to GeoHive COVID-19 Response Co-ordination Group



Service Level Agreement



Memorandum of Understanding



Framework Agreement





Central Statistics Office





GeoHive COVID-19 Group - Purpose & Vision

Purpose

 To coordinate the technical, data, policy, and financial activities related to providing key data and tools, via GeoHive the State's geospatial data hub, to inform Ireland's response to the COVID-19 outbreak

Vision

 To provide key data and tools to inform Ireland's operational intelligence and situational awareness efforts in response to the COVID-19 outbreak



Terms of Reference, March 2020

GeoHive Covid-19 Response Coordination Group

Name	GeoHive Covid-19 Response Coordination Group	
Membership	The membership of this group consists of the following organisations: Ordnance Survey Ireland (OSi) The Central Statistics Office (CSO) The Department of Housing, Planning, and Local Government (DHPLG) the All-Island Research Observatory (AIRO) Esri Ireland. The associated levels of responsibility and accountability are defined in a separate RASCI matrix.	
Goals for the Group	The goals for this group are to: 1. Build a participation network that facilitates the "collect once, use many times" philosophy of the Public Services Data Strategy for geo-statistical data in the response to the Covid-19 outbreak. 2. Introduce geospatial and statistical data governance procedures that focus on reducing/removing data duplication. 3. Maximise the use of the State's geospatial hub (GeoHive) through appropriate data collection and data visualisation.	
Group Working Methods	The GH-COVID19-RCG meets on a daily basis with all meetings held using remote video/phone conferencing to maintain social distancing. The Group has established a: GeoHive Covid-19 response platform with public, private and secure virtual data room capabilities Geo-statistical data governance and management sub-group to provide expertise in support of the Government's Covid-19 response GeoHive technical architecture sub-group to provide the expertise in support the Government's Covid-19 response.	
Group Documentation	A Terms of Reference (TOR), Data Governance and Stakeholder Relationship mapping is in place to manage the governance and coordination of the stakeholders involved and communication channels. A shared programme repository has been established.	

To build a participation network that facilitates the "collect once, use many times" philosophy of the Public Service Data Strategy in the response to the COVID-19 outbreak

To introduce geospatial and statistical data governance procedures that focus on reducing/removing data duplication.

To maximise the use of the GeoHive through appropriate data collection and data visualisation



Data, infrastructure and processes

The Group has established:

- ✓ GeoHive COVID-19 response platform with public/private/secure virtual data hubs
- ✓ Geo-statistical data governance and management sub-group to provide expertise in support of the national COVID-19 response
- ✓ GeoHive technical architecture sub-group to provide the expertise in support of the national COVID-19 response
- ✓ Various data led initiatives which are summarised in the following slides





Detailed Profile of Cases

Detailed County Statistics

FAQs





Data & Services



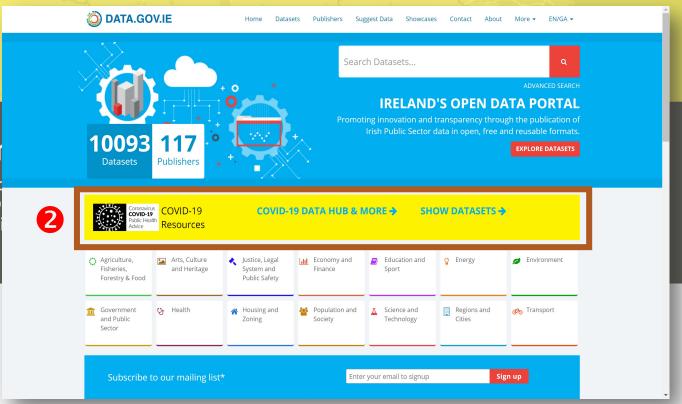
Ireland's COVID-19 Data Hub

National Statistics, Information

The information presented in this site is based on o (HPSC) and the Health Service Executive (HSE). D line with newly published data. This site is built us

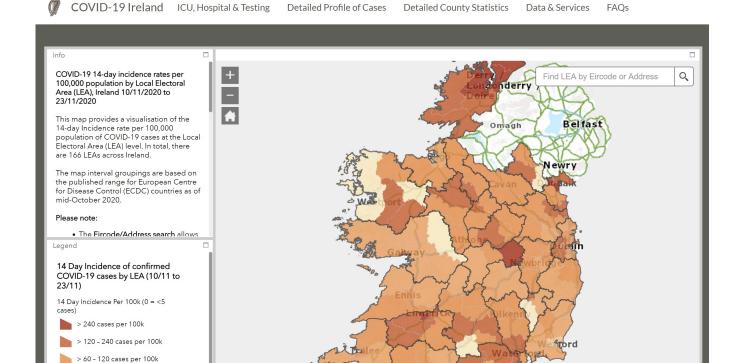
Confirmed Headline Figures

Click for more information



90 million

views since mid June









An Roinn Caiteachais Phoiblí agus Athchóirithe Department of Public Expenditure and Reform



An Roinn Tithíochta, Rialtais Áitiúil agus Oidhreachta Department of Housing, Local Government and Heritage



An Roinn SláinteDepartment of Health

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> 20 - 60 cases per 100k

Up to 20 cases per 100k

14-day incidence rate not shown as number of cases <5 (0-4)





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Total Confirmed Cases

22,996

10/05/2020

Total Deaths

1,458

10/05/2020

The following charts are based on an analysis of 22,671 cases

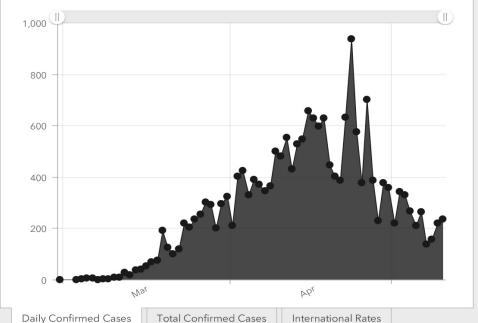
Publically available Health Surveillance Monitor Dashboard for the Department of Health.

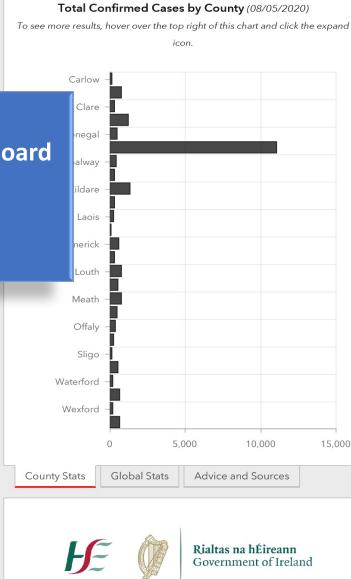
Confirmed Cases: 08/05/2020

Updated daily.

Points are representative of counties and not specific locations. Click on a point for county figures.







GeoHive

Local Authority Dashboards & An Garda Síochana Data Hub

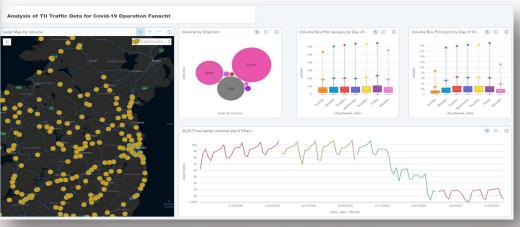


Public and secure dashboards; updated daily.

Publically available for use by all Local Authorities with a daily data supply.

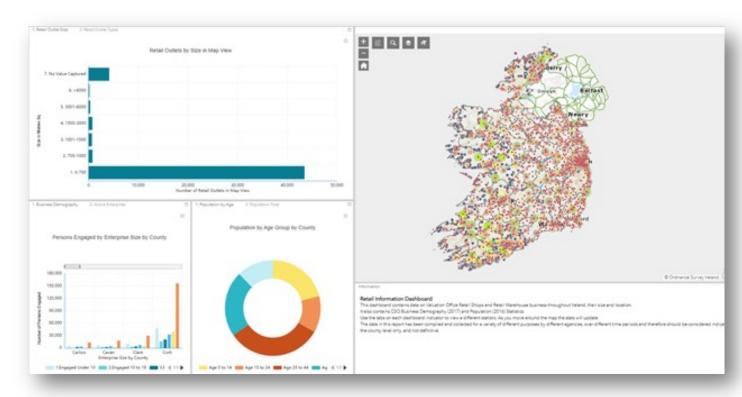


Pavement Width, Public Transport & Retails Locations



Secure access for all Senior Garda Personnel and Garda Control Room for traffic mobility and trend analysis.

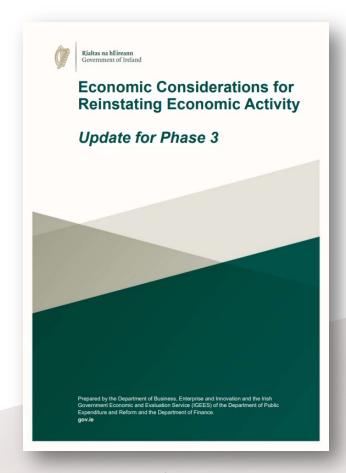
Dept. of An Taoiseach business dashboards / reports



Map-based dashboard and report hat displays business and retail information, showing the classification, density and size of business premises by location.









5* Linked Open COVID-19 data

GeoHive service	Apps	Usage
Daily Open Data update to		Updated daily.
data.gov.ie as 3-star and 5-star	CovidDailyStatisticsHPSCIreland Health FEATURED	
linked open data.	Ordnance Survey Ireland This Table contains Covid-19 Daily Statistics for Ireland as reported by the Health Surveillance Protection Centre	Between 3k and 13k hits per day for
https://data.gov.ie/dataset?q=covid &sort=score+desc%2C+metadata_cr eated+desc	Covid-19 Linked Data Frontend NEW FEATURED Ordnance Survey Ireland The COVID-19 data follows Linked Data principles and resolve to a Web page or RDF file with content negotiation. For example, the following URI for a COVID-19 statistics profile record: http://data.geohive.ie/resource/covid/statprofile/2020-03-30 will redirect to 9 views	the 6 services.





Key takeaways

- Geospatial data and apps have played a key role in revealing insights, patterns and trends as part of the Ireland's COVID-19 response.
- Geospatial and statistical data governance removed duplication and enabled sharing.
- Rapid response due to **re-use of existing platform,** however there was still a significant data management overhead due to various standards used across data sources.
- Resulted in the real understanding of the value that geospatial data and infrastructure plays in enabling data sharing, collaboration & analysis to gain insights and to manage.
- Significant demand for data from citizens, academia and others.



Conclusions

- It's all about the data. Does it exist, is it up to date, is it accessible, who knows about it?
- Collaboration is key. It is easier to build quickly on existing relationships/platforms than to build new ones.
- The race to real time is complex. The data we use is from the past, the problems we are solving are in the future.
- A single source of truth is essential. Not having to debate the data allows more time to debate the policy.





