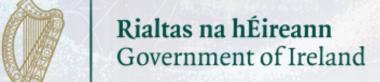


Integration of statistical and geospatial information Ireland's national COVID-19 response

Lorraine McNerney, CIO

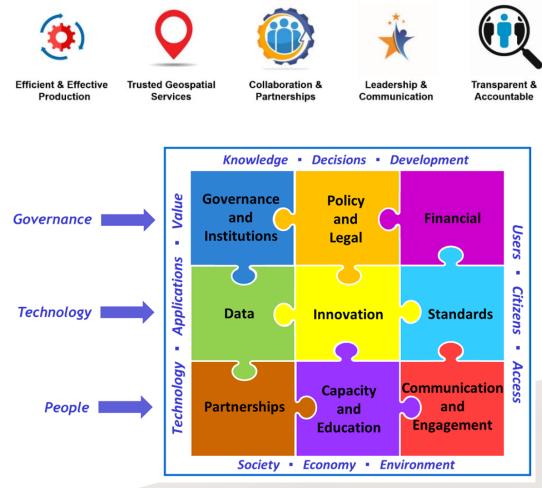
EFGS Conference 2020

20th October 2020



National Geospatial Policy





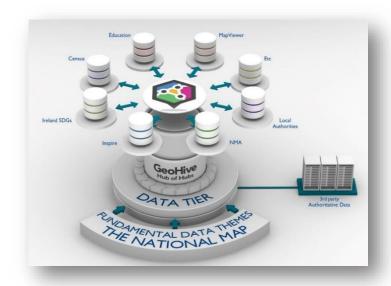


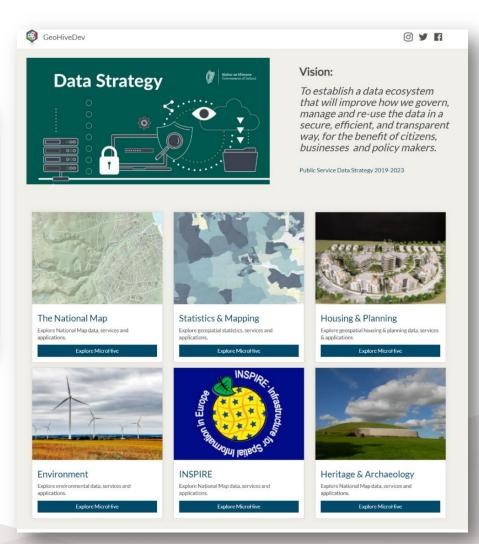




Ireland's geospatial data hub













Ireland's United Nations Sustainable Development Goals team

Geospatial Data and GeoHive Platform



Statistics and Data Governance





Then ... refocusing the SDG team to COVID-19

Coronavirus COVID-19



If you have fever and/or cough you should stay at home regardless of your travel or contact history.

All people are advised to:

- > Reduce social interactions
- > Keep a distance of 2m between you and other people
- > Do not shake hands or make close contact where possible

If you have symptoms visit hse.ie OR phone HSE Live 1850 24 1850

How to Prevent



Wash your hands well

and often to avoid



your mouth and nose

with a tissue or sleeve

when coughing or

used tissue

sneezing and discard





and disinfect

touched objects

and surfaces

frequently





shaking hands or hugging when saying hello or greeting other

from other people,

2 metres (6 feet) away especially those who might be unwell

Symptoms

- - > Fever (High Temperature) > A Cough
 - > Shortness of Breath
 - > Breathing Difficulties

Affected Regions

touching eyes, nose,

or mouth with

Check the list of affected regions on www.hse.ie

For Daily Updates Visit

www.gov.ie/health-covid-19 www.hse.ie

Ireland is operating a containment strategy





Rialtas na hÉireann Government of Ireland





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



Rialtas na hÉireann Government of Ireland

Data, infrastructure and processes

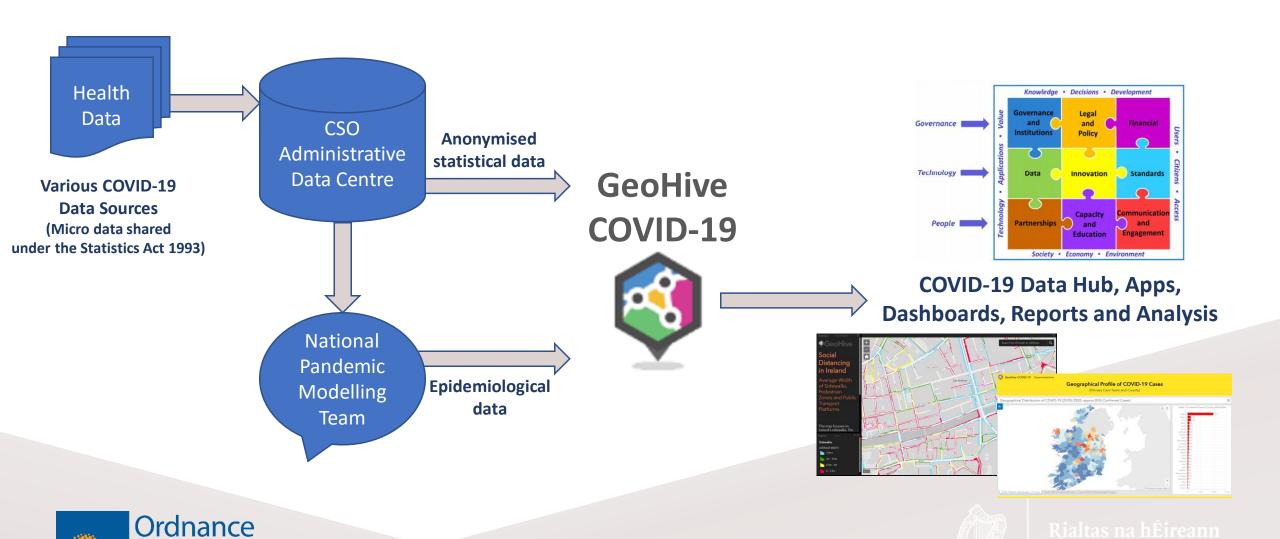
The Group has established:

- ✓ 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
- ✓ 8 initiatives delivered to date which are summarised in the following slides





COVID-19 Data Ecosystem and Data Governance



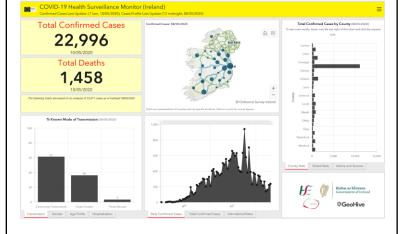
Public COVID-19 Dashboard

GeoHive service

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

https://geohive.maps.arcgis.com/ap ps/opsdashboard/index.html#/29dc 1fec79164c179d18d8e53df82e96

Apps



Usage

Updated daily.

Over 750,000 hits during March to June on desktop; 650,000 on mobile devices.





National Public Health Emergency Team secure data hub

Secure data hub to provide geostatistical visualisation for the National Public Health Emergency Team (NPHET) and the Department of Health (DOH). Restricted access for nominated NPHET and DOH personnel. Secure data hub to provide geostatistical visualisation for the Restricted access for nominated NPHET and DOH personnel.





National COVID-19 data hub

GeoHive service Usage Apps Publically available National COVID-Free access with additional resources 19 Geospatial Data Hub as a central in development including StoryMap and new dashboards. location for up-to-date geospatial Ireland's COVID-19 Data Hub information related to COVID-19. National Statistics, Information & Data Over 500k hits per day. https://covid19ireland-04/10/2020 Confirmed Headline Figures geohive.hub.arcgis.com/ 1,810





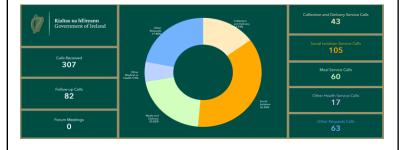
Local Authority dashboard

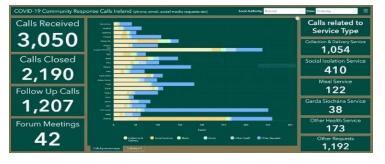
GeoHive service

Local Authority Community Support GeoHive data platform under the Government's "Community Call" initiative to provide supports or services to any vulnerable person who needs them.

https://community-call-covid-19-geohive.hub.arcgis.com/

Apps





Usage

Public and secure dashboards; updated daily.

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







Dept. of An Taoiseach business dashboards / reports

GeoHive service	Apps	Usage
Department of An Taoiseach (Ireland's Prime Minister) for recovery phase planning. Map-based dashboard that displays business and retail information, showing the classification, density and size of business premises by location.	Report Colors by The related by The	Secure data hub to visualise the impact of a decision to reopen a particular part of the economy; dashboard with business location data, classified by business type. OSi have also provided business data reports and analysis.





National Transport Authority data service

National Transport Authority and Local Authority service for Social Distancing in Ireland which includes average width of Sidewalks, Pedestrian Zones and Public Transport Platforms. Data service that focuses on Ireland's sidewalks to showcase the suitability of current sidewalks in complying with the social distancing rules.





An Garda Síochana data hub

Usage **GeoHive service Apps** Secure access for all Senior Garda Geo-statistical visualisation of traffic volume data for An Garda Síochana Personnel and Garda Control Room (Irish Policing Service). for traffic mobility and trend analysis. Restricted access for nominated Garda personnel.





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 / lessons learnt

- COVID-19 Pandemic has formalised OSi's geospatial data hub, GeoHive, as an authoritative standardised public sector data collaboration platform
- 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.





Next steps include ...

- ✓ Support key Government decision-makers to inform Ireland's Roadmap for dealing with the pandemic
- ✓ Expand data and visualisation tools
- ✓ Develop, with key national stakeholders, StoryMaps on the National COVID-19 response
- ✓ Continued data management and governance, including as open data services





