



# Publishing Open GIS Data

Lightning Talk at Irish OSGeo Symposium 2018


*25<sup>th</sup> May 2018*

Dr. Wassim Derguech

@derwas



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## IRELAND'S OPEN DATA PORTAL


Promoting innovation and transparency through the publication of Irish Public Sector data in open, free and reusable formats.


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 Agriculture, Fisheries, Forestry & Food


 Arts, Culture and Heritage


 Justice, Legal System, and Public Safety


 Economy and Finance

 Education and Sport


 Energy


 Environment


 Government and Public Sector

 Health

 Housing and Zoning

 Population and Society

 Science and Technology

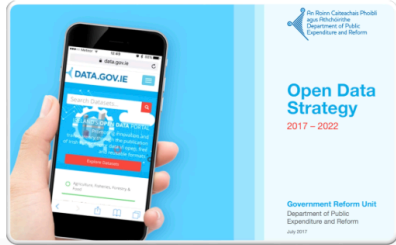
 Regions and Cities

 Transport

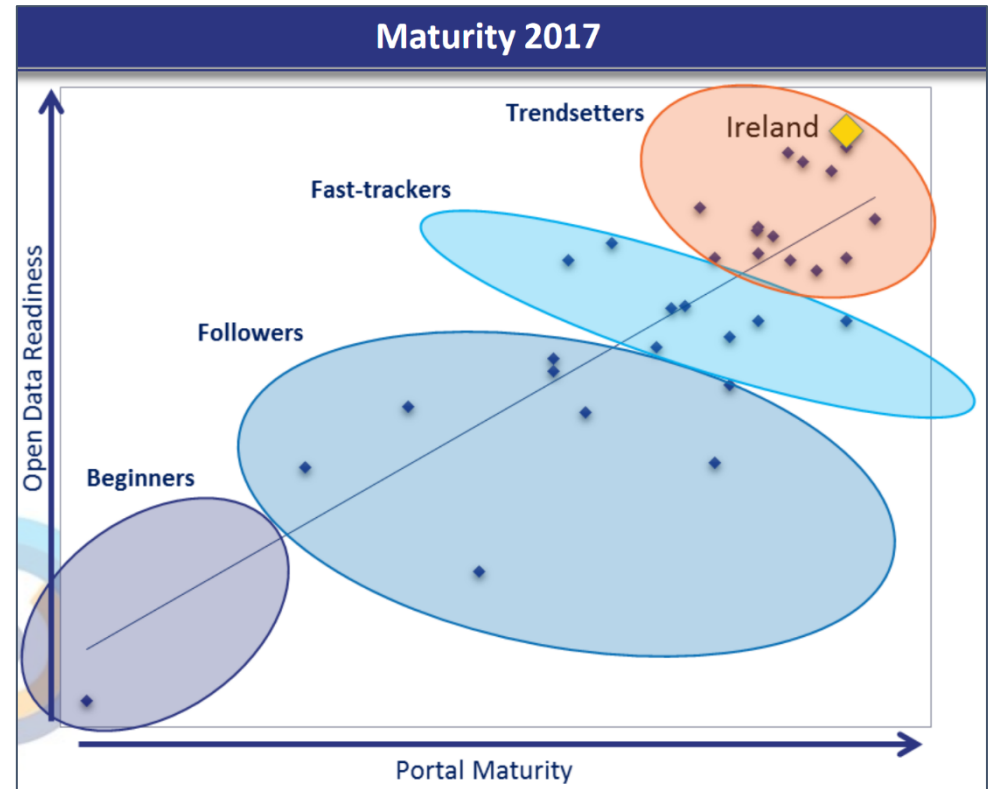
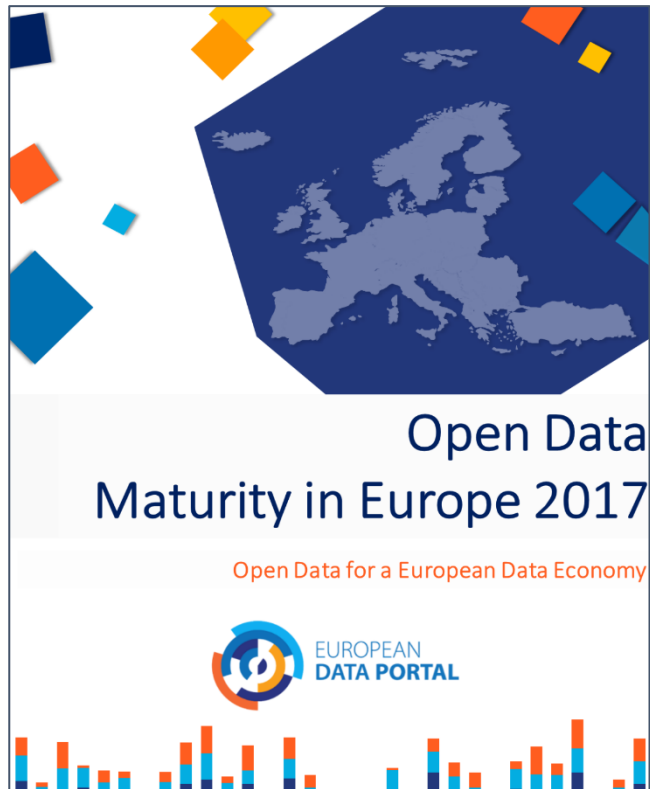
### Publication of the Open Data Strategy 2017 – 2022

We are delighted to welcome the publication of the Open Data Strategy 2017 – 2022, which builds on the substantial achievements made in implementing the Open Data Initiative and sets out a roadmap for continued progress and development.

“The Open Data Strategy provides a framework for data to be used to ensure that public services are delivered in a more effective and efficient manner and in a transparent and accountable way.”



# # 1 for Open Data in Europe



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THEME

Energy (13)

Science and Technology (9)

Environment (8)

Government and Public Sector (6)

API

Hide datasets with APIs (6)

RESOURCE FORMAT

JSON (36)

CSV (36)

KML (35)

WMS (29)

XML (23)

GML (20)

PUBLISHER

Department of Communications, Climate Action & Environment

Include sub-publishers

LICENCE

Creative Commons Attribution (CC-BY 4.0) (36)

OPENNESS SCORE

★★★★☆ (36)

36 Results

Sort by: Recently Added

Science and Technology

Offshore Geology

Department of Communications, Climate Action & Environment

Data on the offshore geology around Ireland. Marine geology or geological oceanography is the study of the history and structure of the ocean floor. It involves geophysical, geochemical,...

★★★★☆

353 views

Environment

Western Irish Sea Gyre current

Department of Communications, Climate Action & Environment

Western Irish Sea gyre data was provided by Petroleum Affairs Division. This data was created as part of the Irish Offshore Strategic Environmental Assessment (IOSEA). A gyre in...

★★★★☆

206 views

Energy

Atlantic Margin Licensing Round 2015

Department of Communications, Climate Action & Environment

Petroleum Affairs Division marine energy licensing round 2015 on the Atlantic Margin.

★★★★☆

121 views

Government and Public Sector

Maritime Limits Exclusive Economic Zone

Department of Communications, Climate Action & Environment

The exclusive economic zone of the State is the area beyond and adjacent to the territorial seas subject to the specific legal regime established in Part V of the United Nations...

★★★★☆

90 views

Environment

Upper Water Mass Movement

Department of Communications, Climate Action & Environment

Upper water mass movement of ocean currents from the Irish Offshore Strategic Environmental Assessment (IOSEA 5). Large masses of moving water are called currents. In the oceans there are...

★★★★☆

76 views

Environment

Ocean Fronts

Department of Communications, Climate Action & Environment

In oceanography, a front is a boundary between two distinct water masses. The water masses are defined by moving in different directions, i.e. on one side of the front...

★★★★☆

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THEME

Science and Technology (58)

Environment (10)

API

Hide datasets with APIs (68)

RESOURCE FORMAT

HTML (47)

JSON (34)

XML (18)

SHP / ZIP (17)

SHP (16)

ZIP (8)

PUBLISHER

Geological Survey of Ireland

Include sub-publishers

LICENCE

Creative Commons Attribution (CC-BY 4.0) (67)

Other Licence (1)

OPENNESS SCORE

★★★★☆ (50)

★★★★☆ (7)

☆☆☆☆☆ (1)

68 Results

Sort by: Recently Added

Science and Technology

GSI EPOS Boreholes dataset

Geological Survey of Ireland

The project aims to capture and make available combined Geotechnical, Bedrock, and Groundwater borehole data held by Geological Survey Ireland with the aim to continually improve and...

★★★★☆

83 views

Science and Technology

GSI Landslide Perimeters

Geological Survey of Ireland

A GSI national database containing records of all slides occurred in Ireland. Each entry contains information according to topic (Events, location, dimensions, mechanism, terrain,...

☆☆☆☆☆

94 views

Science and Technology

GSI GEMAS European Geochemical Soil Analysis

Geological Survey of Ireland

The GEMAS dataset is based on low density geochemical sampling of agriculture (Ar) and grassland (Gr) soils across 34 European countries. Sample density covering an area of 5.6 million...

★★★★☆

230 views

Science and Technology

GSI OneGeology INSPIRE View Service

Geological Survey of Ireland

The OneGeology Europe project will collate a web-accessible, interoperable geological spatial dataset for the whole of Europe at 1:1 million scale based on existing data held by the...

★★★★☆

69 views

Science and Technology

GSI OneGeology - Surface Geological Structures

Geological Survey of Ireland

The OneGeology Europe project will collate a web-accessible, interoperable geological spatial dataset for the whole of Europe at 1:1 million scale based on existing data held by the...

★★★★☆

33 views

Science and Technology

GSI OneGeology - Surface Geological Units

Geological Survey of Ireland

The OneGeology Europe project will collate a web-accessible, interoperable geological spatial dataset for the whole of Europe at 1:1 million scale based on existing data held by the...

★★★★☆

64 views

Science and Technology

GSI OneGeology - Bedrock Geological Units

Geological Survey of Ireland

The OneGeology Europe project will collate a web-accessible, interoperable geological spatial dataset for the whole of Europe at 1:1 million scale based on existing data held by the...

★★★★☆



Roinn Cumarsáide, Gníomhaithe  
ar son na hAeráide & Comhshaoil  
Department of Communications,  
Climate Action & Environment



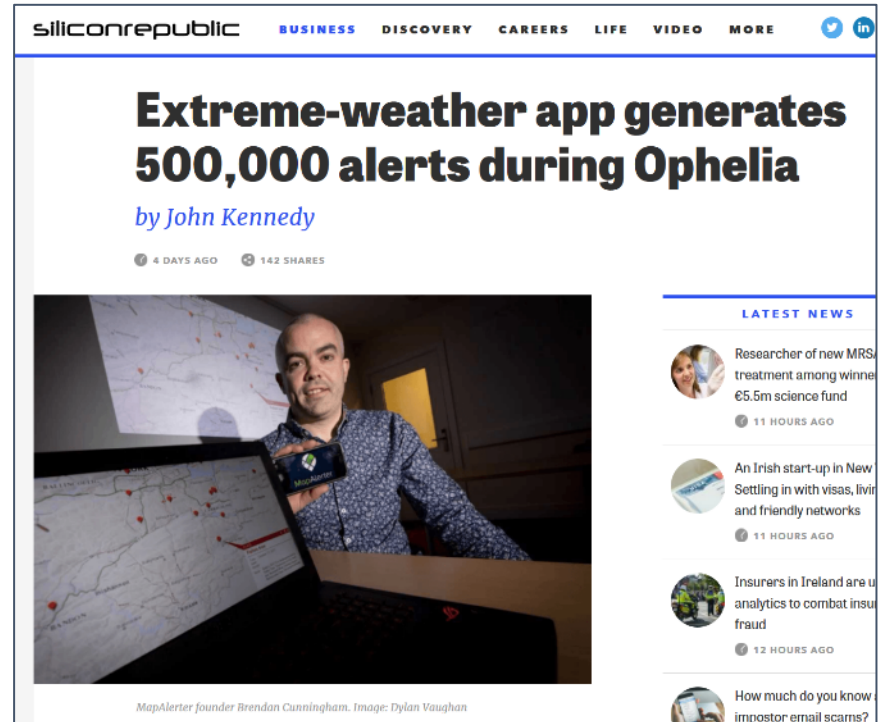
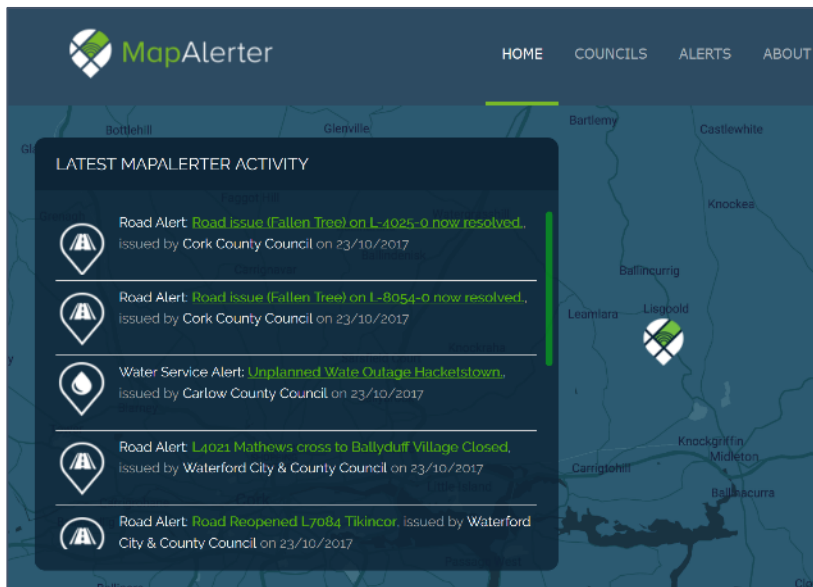
Geological Survey  
Suirbhéireacht Gheolaíochta  
Ireland | Éireann

# How is Open Data being used?



# Engagement/Innovation

## MapAlerter



<https://www.mapalerter.com/>

# Engagement/Innovation

## Citybik.es

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Search: bike

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**THEME**

Transport (4)

**API**

Show datasets with APIs (2)

Hide datasets with APIs (2)

**RESOURCE FORMAT**

CSV (3)

API (2)

PDF (1)

**4 Results**

**Coca-Cola Zero Bikes**

Coca-Cola Zero Bikes

Coca-Cola Zero® Bikes is a self-service bike rental service. This is the Regional Bikes Scheme Open Data API. To request the API key, contact bikeshare.ie at...

**dublinbikes**

Dublin City Council

Dublin Bikes real time and static data platform. Static data provides bike stands,...

**Dublin City Public**

Dublin City Council

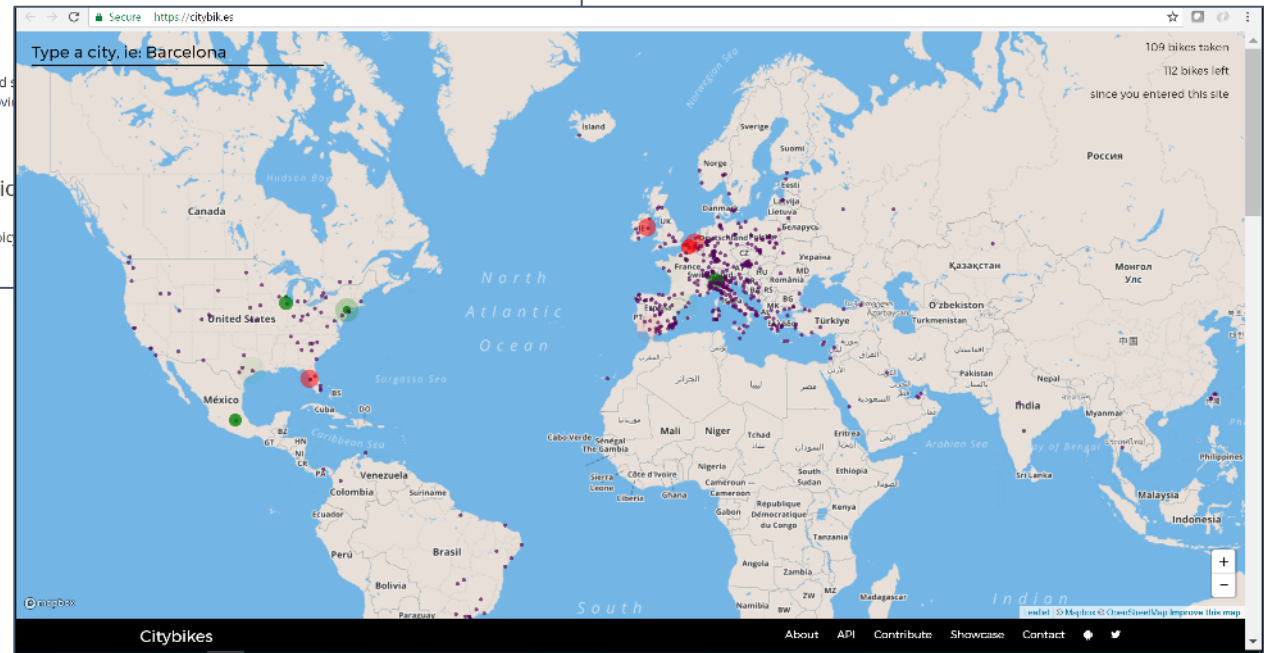
Locations of Dublin City bikes

Sort by: Relevance

**Transport**

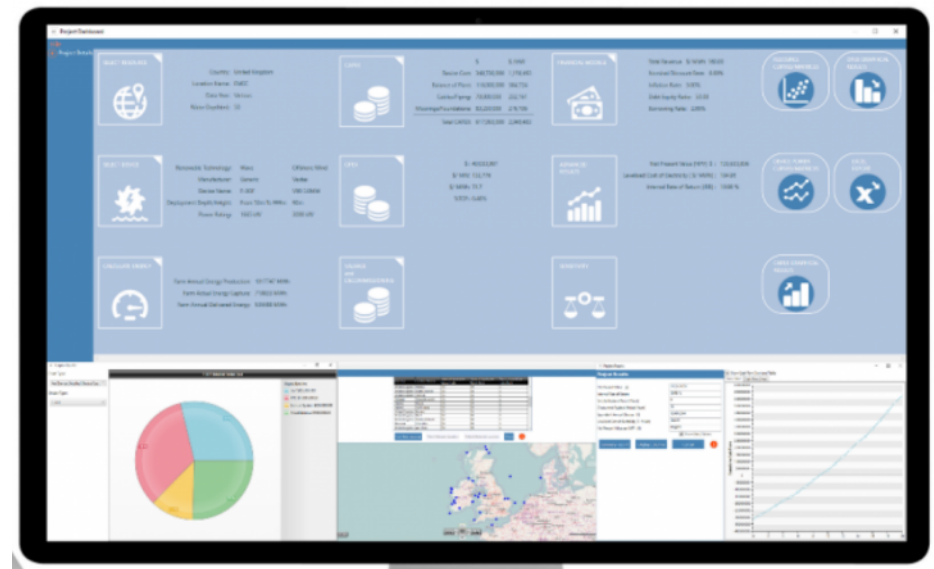
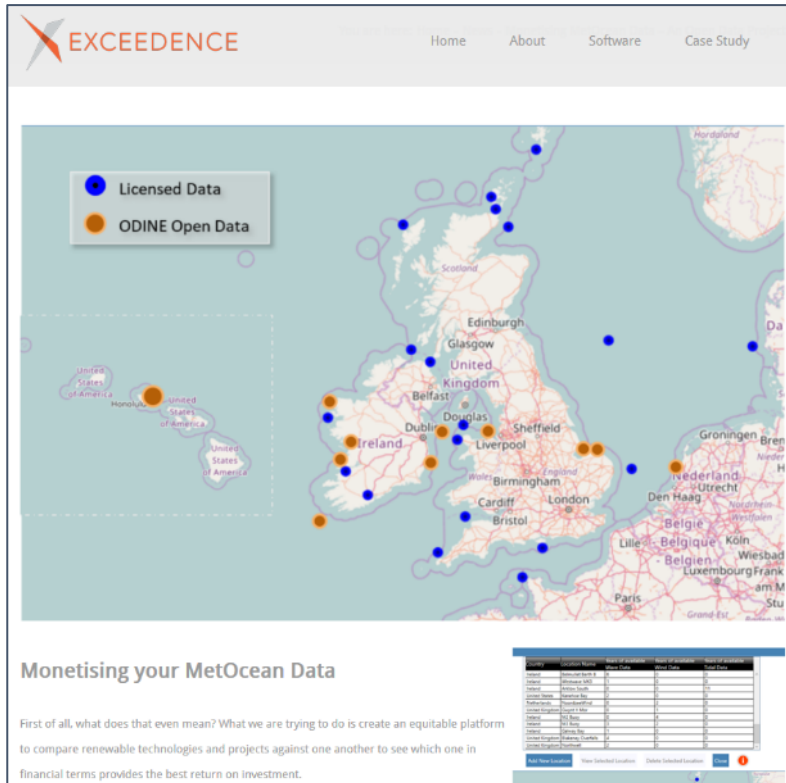
API PDF

★★★★☆



<https://citybik.es/>

# Data Modelling / Decision-Making Exceedence

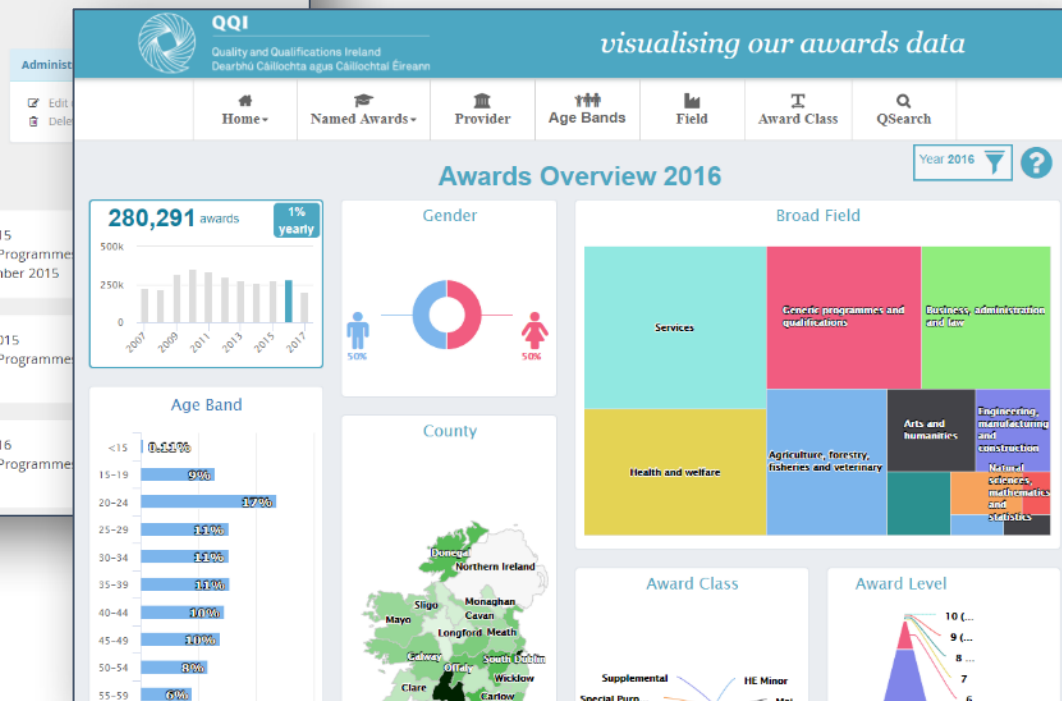
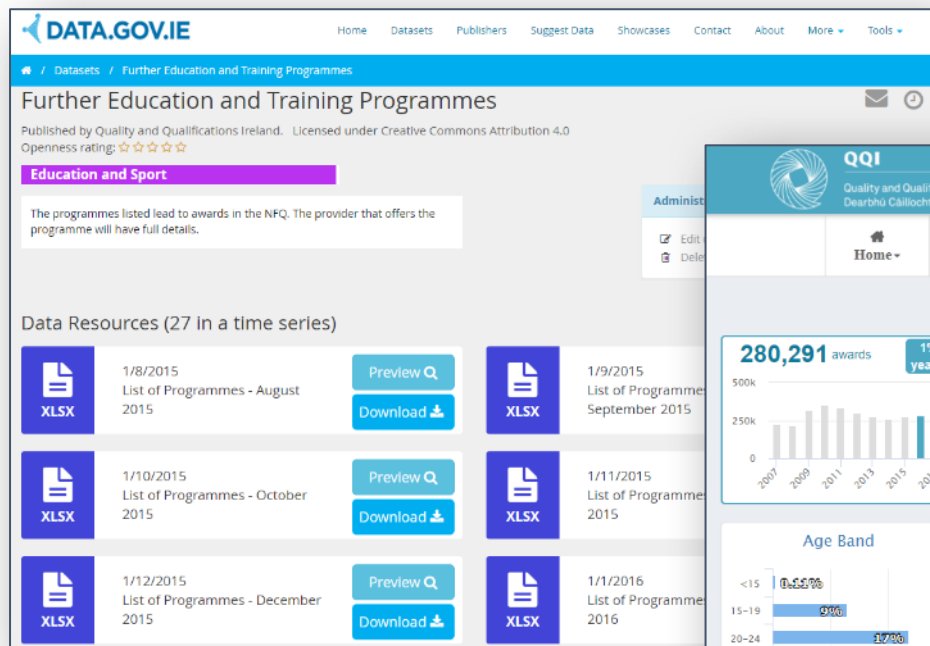


<http://exceedence.com/monetising-metoccean-data-an-open-data-project/>



# Monitoring / Planning

## Quality and Qualifications Ireland



<http://infographics.qqi.ie/>

# Open Data Technologies

# World's leading Open Source data portal platform



- Active, global **community**
- Powerful REST/JSON **API**
- **Extensible**
  - >200 extensions available
- Advanced **geospatial** features
- Rich **search** experience
- DCAT compliant **metadata**
- Fully customizable **theme**



# ckan

# Geospatial Preview


**DATA.GOV.IE**

Datasets / Power Plants - OSi National 250k Map of Ireland

Published by Ordnance Survey Ireland. Licensed under Creative Commons Attribution 4.0  
Openness rating: ★★★★★  
19 views

**Environment**

Data Resource Preview - KML



Leaflet | Map tiles by Stamen Design, under CC BY 3.0. Data by OpenStreetMap, under CC BY SA.

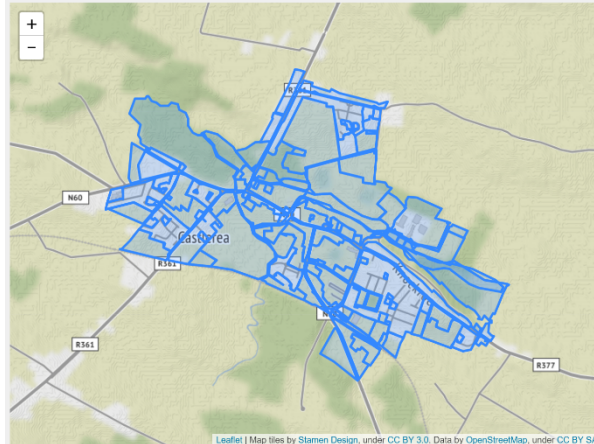
**DATA.GOV.IE**

Datasets / Castlereagh LAP 2016 - 2022

Published by Roscommon County Council. Licensed under Creative Commons Attribution 4.0  
Openness rating: ★★★★★  
15 views

**Housing and Zoning**

Data Resource Preview - KML



Leaflet | Map tiles by Stamen Design, under CC BY 3.0. Data by OpenStreetMap, under CC BY SA.

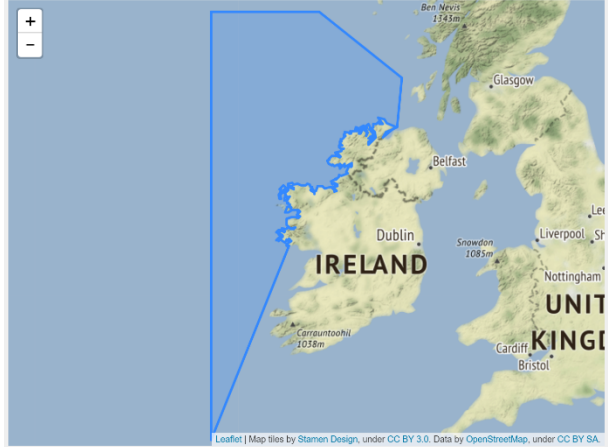
**DATA.GOV.IE**

Datasets / Sea Area - OSi National 250k Map of Ireland

Published by Ordnance Survey Ireland. Licensed under Creative Commons Attribution 4.0  
Openness rating: ★★★★★  
12 views

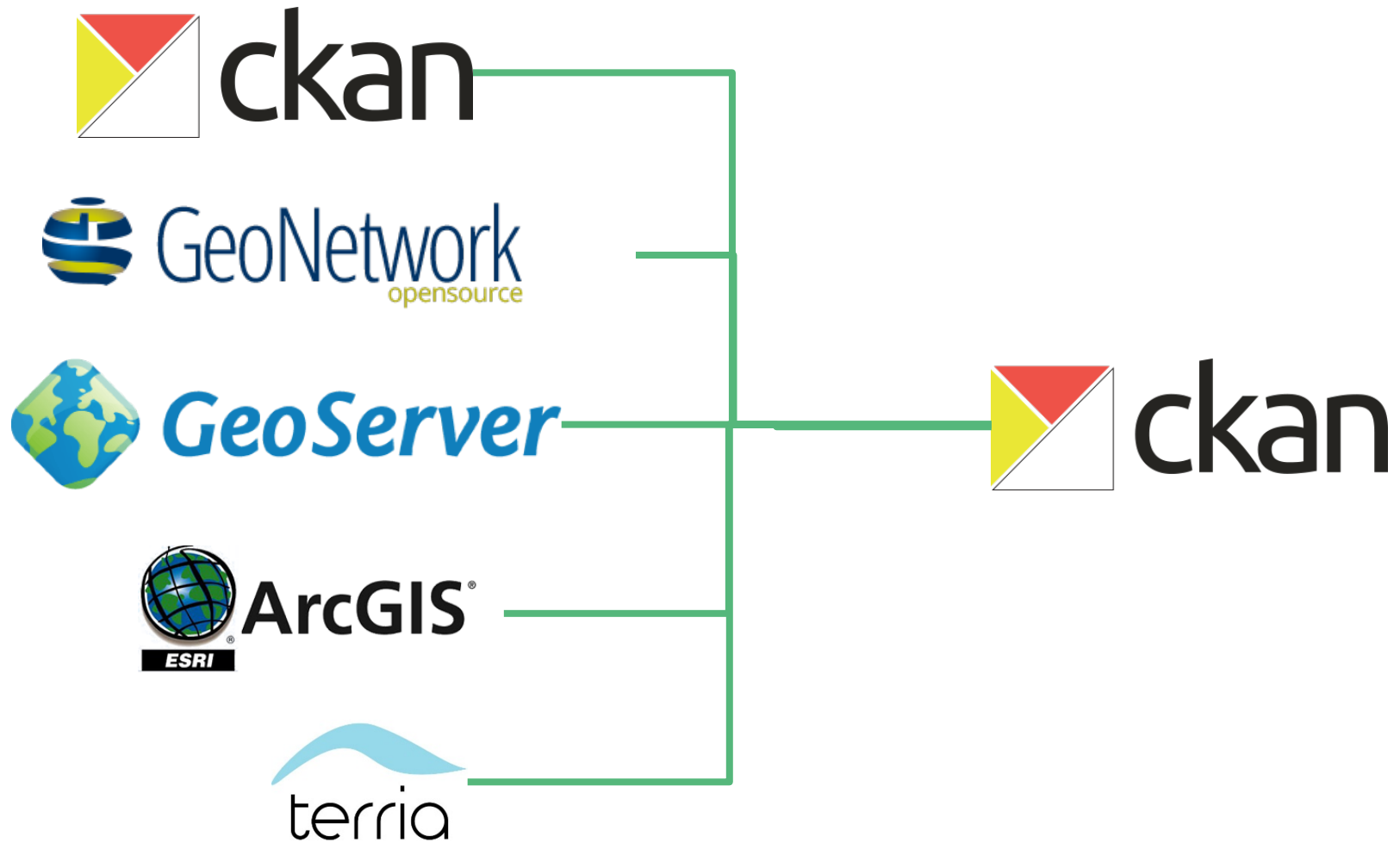
**Environment**

Data Resource Preview - KML



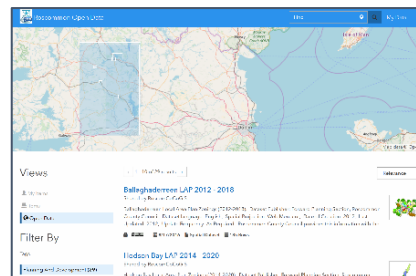
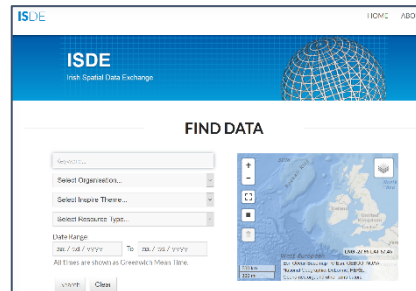
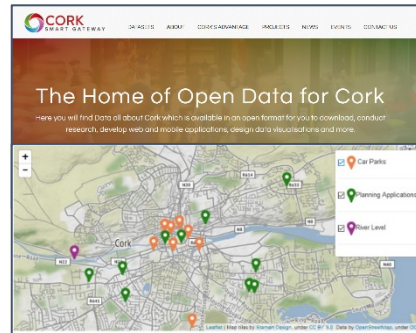
Leaflet | Map tiles by Stamen Design, under CC BY 3.0. Data by OpenStreetMap, under CC BY SA.

# GIS Metadata Harvesting



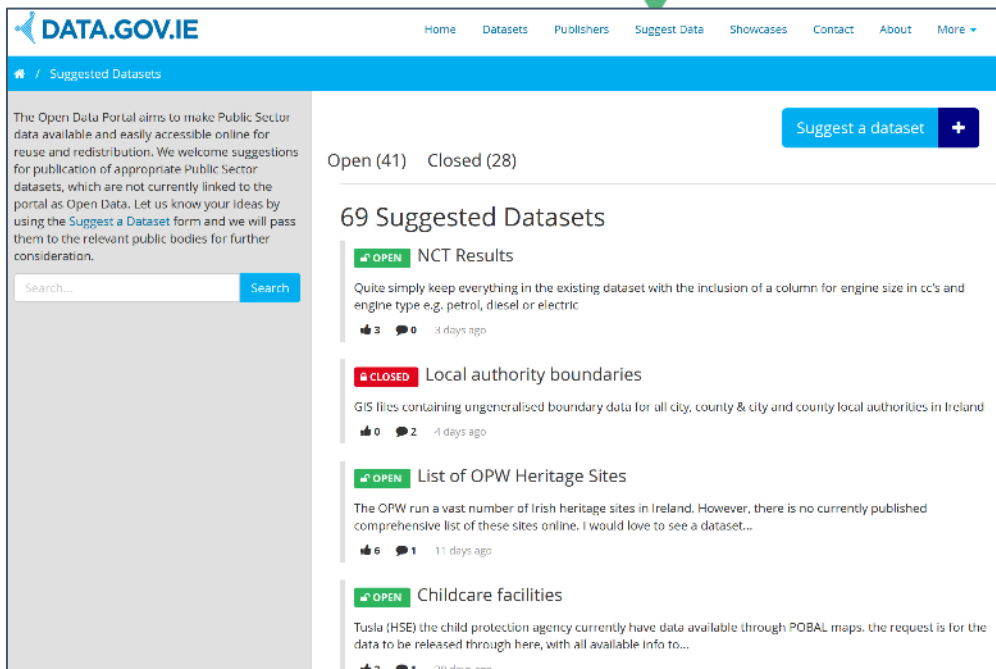


# GIS Metadata Harvesting



Do you have any Open GIS Data?

Suggest a dataset



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Home / Suggested Datasets

The Open Data Portal aims to make Public Sector data available and easily accessible online for reuse and redistribution. We welcome suggestions for publication of appropriate Public Sector datasets, which are not currently linked to the portal as Open Data. Let us know your ideas by using the [Suggest a Dataset](#) form and we will pass them to the relevant public bodies for further consideration.

Search... Search

[Suggest a dataset](#) +

Open (41) Closed (28)

## 69 Suggested Datasets

- OPEN** NCT Results  
Quite simply keep everything in the existing dataset with the inclusion of a column for engine size in cc's and engine type e.g. petrol, diesel or electric  
3 likes 0 comments 3 days ago
- CLOSED** Local authority boundaries  
GIS files containing ungeneralised boundary data for all city, county & city and county local authorities in Ireland  
0 likes 2 comments 4 days ago
- OPEN** List of OPW Heritage Sites  
The OPW run a vast number of Irish heritage sites in Ireland. However, there is no currently published comprehensive list of these sites online. I would love to see a dataset...  
6 likes 1 comment 11 days ago
- OPEN** Childcare facilities  
Tusla (HSE) the child protection agency currently have data available through POBAL maps. the request is for the data to be released through here, with all available info to...  
2 likes 1 comment 29 days ago





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@derilinx

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