



Senior Executive Officer
Planning and Strategic Infrastructure Department,
Fingal County Council,
County Hall,
Main Street,
Swords,
Co.Dublin.
K67 X8Y2

12 May 2022

Dear Sir / Madam,

RE: Draft Fingal Development Plan 2023 - 2029

Further to the notice given to this Department of the publication of the Draft Fingal Development Plan, the following submission outlines its observations in respect of a number of policy areas for which the Department is responsible.

Climate Action

The Department welcomes the manner in which Climate Action is addressed in the Draft Plan and, particularly, how Chapter 5 of the Draft Plan contains specific policies and objectives relating to adaptation and mitigation. Table 5.1, which sets out a “Summary of Climate Action Measures by Chapter”, is particularly welcomed and is a useful addition to the Draft Plan that ensures that members of the public fully appreciate the cross-cutting nature of the climate action policies and objectives.

We would note that the revised Climate Action Plan 2021 has been published and request that the Draft Plan be updated to reflect same, including additional references to the specific actions and targets set out therein, in order to ensure greater consistency with the State’s increased ambitions in this regard (e.g. to increase the share of electricity



demand generated from renewable sources to up to 80%, including up to 8.2 GW of onshore wind and up to 2.5 GW on grid scale solar PV and to deliver on Ireland's target of a 51% greenhouse gas emissions reduction by 2030 as established under the Climate Action and Low Carbon Development (Amendment) Act 2021). Additionally, updated references to the aforementioned Climate Action and Low Carbon Development (Amendment) Act, 2021 and the requirements therein in respect of Local Authority Climate Action Plans would be welcomed.

With respect to draft Policy CAP12 and associated Objective DMSO260 (Climate Action Energy Statements for new developments), it would be preferable that the expressed objective of same was that, not only is it required that low carbon energy and heating solutions are considered in any proposed developments of the specified scales, rather that such solutions are actively pursued and required unless proven to be unfeasible or impracticable. This would be in line with the intention of Response no. 17 of the National Energy Security Framework, which is to accelerate the phase-out of fossil fuel heating throughout our building stock, including effectively ending the use of fossil fuels for space and water heating in all new buildings.

The focus on Climate Action throughout the Draft Plan is commended and this Department would welcome the opportunity for direct bilateral engagement on the proposed implementation of the policies and objectives set out in the Draft Plan.

Electricity and Gas Infrastructure

The improvement of Ireland's electricity grid and gas infrastructure are critical components of its energy security and the inclusion of draft Policy IUP27, Policy IUP29, Policy IUP30 and Objective IUO44 will facilitate the upgrading of the network to accommodate the existing and future population. The Council is invited to note the Government's Policy Statement on Security of Electricity Supply (November 2021) and requested to ensure that the Draft Plan expressly supports same where relevant.



Renewable Energy (Onshore)

We note the inclusion of Section 5.5.3.1 - Renewable Energy and broadly support its intention. The target of 70% renewable electricity referred to throughout the section and the Draft Plan generally, however, should be updated to reflect the increased ambition of 80% under the Climate Action Plan 2021.

The promotion and encouragement of the use of the range of technologies in draft Policy CAP13, such as solar energy, hydro energy, wave/tidal energy, geothermal, wind energy, combined heat and power (CHP), heat energy distribution such as district heating/cooling systems, and any other renewable energy sources, is considered highly appropriate and supportive of the actions set out in the Climate Action Plan 2021. Furthermore, draft Policy CAP14 (micro-renewable energy) is also welcomed in the context of smaller-scale energy production.

We note that the Draft Plan does not make reference to the national capacity targets (e.g. 8.2 GW of onshore wind and up to 2.5 GW on grid scale solar PV) and does not list or commit to any local renewable energy generation targets from any source. The inclusion of such targets should be specific, measurable and timebound and considered to be required by Section 4(2) of the “Interim Guidelines for Planning Authorities on Statutory Plans, Renewable Energy and Climate Change” (DHLGH, 2017). While the drafting of a Local Authority Renewable Energy Strategy (LARES) is referenced in Section 5.5.3, there is no programme set out for the completion of same and it is considered appropriate that the Development Plan sets out clear and unambiguous targets in respect of renewable energy in order to inform the LARES.

We also request that in doing same, the Council considers the capacity of locally available renewable energy resources, rather than any other metric (e.g. existing population) as an appropriate determinant of any potential contribution to the State’s energy requirements and targets, as determined by available land, energy generation potential and environmental designations. This would be in line with the increased ambition of the actions set out in the Climate Action Plan 2021.



Offshore Energy

With respect to offshore energy, we note and support the explicit references to the Offshore Renewable Energy Development Plan (OREDPP) in Sections 5.5.3.3, 11.7.1 and draft Policy CAP15. In order to future proof the new Development Plan and to recognise that work is already underway to the successor to the OREDPP, we request that the Council includes a reference to “any successor thereof” anywhere the OREDPP is referenced.

With respect to Section 1.9.5, it is noted that it states that work is currently underway on a National Marine Spatial Plan. The National Marine Planning Framework was published in 2021, in line with the requirements of EU Directive 2014/89/EU, and is Ireland’s first marine spatial plan and provides for the long-term forward planning for Ireland’s maritime area.

In order to support the roll-out of offshore renewable energy, County Development Plan policies should be focussed on facilitating offshore development through appropriate land-side policies for ports, grid connections and other supporting infrastructure and, in this regard, reference to such supporting infrastructure for offshore energy in draft Policy CAP15 is welcomed and fully supported by this Department.

District Heating

We note and support the range of policies designed to fully support the potential of district heating in Fingal, including draft Policy CAP18, Policy IUP32, draft Objective DMSO256, Objective DMSO257 and Objective DMSO258. These policies are consistent with the emerging considerations relating to district heat and demonstrate that the Council considers district heating to be a key part of the State’s climate mitigation and adaptation strategy. We would, however, request that the Council considers additions to these policies requiring not only that applications for new developments demonstrate that they have merely considered district heating systems / technologies in their design, but that they have the capacity to connect to such systems in the future if they cannot do so at present.



Circular Economy

The additional references to the principles of circularity and the transition from a linear to a circular model to keep resources in use as long as possible and, in particular, Section 5.5.4.1 are noted and welcomed.

The Council's attention is drawn to the "Whole-of-Government Circular Economy Strategy" – launched December 2021, a high-level document setting out Ireland's ambition to be a Circular Economy leader in Europe by 2030. One of the main objectives of the Strategy is communicating the Circular Economy to households, communities and businesses and County Development Plans play a key role in this messaging and, in that regard, direct references to the Strategy would be welcomed.

We note Section 14.9.8 (Refuse Storage) which references the requirement to demonstrate appropriate space for refuse storage areas in new residential schemes and consider that it would be beneficial for clarity and consistency to cross reference with Objective DMSO236 – Communal Refuse Storage Provision and Objective DMSO237 – Segregation and Collection of Waste in order to ensure all new large-scale residential and mixed-use developments include appropriate facilities for source segregation and collection of waste.

Objective DMSO235 – Provision of Public Bring Banks is supported and welcome and generally, with respect to waste in the within documentation, we would be obliged if the Local Authority would consult directly with their respective Regional Waste Management Planning Office regarding development of the final Development Plan.

Broadly, the Council is commended for its approach to addressing the Circular Economy in the Draft Plan.



Telecommunications / Digital Connectivity

Section 11.8 Information and Communications Technology (ICT) and the associated Policies and Objectives are noted and broadly welcomed. In respect of this section, we invite the Council to consider further specific reference to the following relevant Government-approved policy documents:

- *'Harnessing Digital – the Digital Ireland Framework'* launched by Department of the Taoiseach, with particular regard to Dimension 2 of the framework, which places importance on supporting 5G rollout across all populated areas of Ireland by 2030; and
- *'National Development Plan 2021-2023'* – National Strategic Objective 6 which speaks to enhancing Ireland's high quality international connectivity.

Generally, it is considered that national policy objectives in terms of digitalisation, 5G rollout and enhancing Ireland's national and international connectivity outlined in those policy documents can be further underlined and supported by Local Authorities via specific reference to these areas in their County Development Plans.

The reference to the National Broadband Plan in draft Policy IUP37 is supported and welcomed, as is the reference to wider telecommunications infrastructure in draft Policy IUP34. Some further observations in respect of same are as follows:

- We would encourage Fingal County Council to create a centralised telecoms unit to manage all issues relating to telecoms, access to local authority assets and Smart Initiatives. This would be in line with the intention of draft Policy IUP34.
- For National Broadband Plan and telecoms development, we would encourage a commitment to efficiently process application for required permits and licences to the scaled needed to support the National Broadband Plan deployment, and a commitment to work with operators to streamline and simplify the process.
- For ducting and other assets owned by the State, we would encourage a commitment to publish inventories of these assets and develop a streamlined process to allow for easy accessibility for access seekers.

Geological Survey Ireland

Additional observations from Geological Survey Ireland are attached to this submission.



Conclusion

We would be grateful if Fingal County Council would take these matters under consideration in the finalisation of the Draft Fingal Development Plan 2023-2029.

Department officials can make themselves available for a discussion on any matters raised in this submission or any other matters within the remit of the Department of the Environment, Climate and Communications relevant to the preparation of this plan and we would encourage further bilateral engagement on same in respect of any proposed material amendments.

Officials can provide support to the County Council in the following areas:

- Climate Action, Engagement and Adaptation
- The Circular Economy
- Energy Generation and Networks
- Energy Use / Demand in the Built Environment
- Communications
- Environmental Policy and Governance
- Waste and Natural Resources

Please direct any requests for further consultation to planningadvisory@decc.gov.ie

Regards,

Planning Advisory Division

Department of the Environment, Climate and Communications

Encl. Divisional observations from Geological Survey Ireland



Development Plan Team
Planning and Strategic Infrastructure Department
Fingal County Council
County Hall
Main Street
Swords
Co. Dublin, K67 X8Y2

20 April 2022

Re: Fingal Development Plan 2023-2029 - Commencement of Public Consultation on the Draft Plan

Your Ref: n/a

Our Ref: 22/55 [c.f. 21/309 21/81; CDP strategic issues paper]

Dear Sir/Madam,

Geological Survey Ireland is the national earth science agency and is a division of the Department of the Environment, Climate and Communications. We provide independent geological information and advice and gather various data for that purpose. Please see our [website](#) for data availability. We recommend using these various data sets, when conducting the EIAR, SEA, planning and scoping processes. Use of our data or maps should be attributed correctly to 'Geological Survey Ireland'.

With reference to your email received on the 25 February 2022, concerning the Fingal Development Plan 2023-2029 - Commencement of Public Consultation on the Draft Plan, Geological Survey Ireland would like to acknowledge our previous submissions, (21/309, 21/81), in relation to the new draft CDP, and have the following additional comments to make.

Geoheritage

We note that Section 9.6.12 'County Geological Sites' and in Table 9.2: 'Geological Heritage Sites' that there are 21 County Geological Sites in Fingal. However, Huntstown Quarry County Geological Site has been omitted from the list. We would welcome this list to be amended to include Huntstown Quarry County Geological Site and amend the text to "The Geological Survey of Ireland (GSI) has identified **22** County Geological Sites in Fingal". Further details with regard to Huntstown Quarry County Geological Site can be found at:

https://gsi.geodata.gov.ie/downloads/Geoheritage/Reports/DF022_Huntstown_Quarry.pdf

We commend the policy and objectives for Fingal's County Geological Sites in Section 9.6.12 'County Geological Sites'.

Policy GINHP23 – Maintenance of Geological Sites

Seek to maintain and where possible enhance the geological heritage of these sites and to provide access to these sites where possible and appropriate.

Objective GINHO49 – Protection of Geological Site

Protect and enhance the geological and geomorphological heritage of the County Geological Sites listed in Table 9.2. and indicated on Green Infrastructure Maps.

Objective GINHO50 – Access to Geological Sites

Protect and promote safe and sustainable public access to County Geological Sites where appropriate and feasible subject to the requirements of Article 6 of the Habitats Directive.

Additionally, we are pleased to see the inclusion of Objective DMSO162 – 'County Geological Sites' in Section 14.18.2.4 'Geology':

Objective DMSO162 – County Geological Sites

Consult with the Geological Survey of Ireland when considering undertaking, approving or authorising developments which are likely to affect County Geological Sites.



We welcome the inclusion of geology in Policy GINHP27 – ‘Howth and Liffey Valley Amenity Orders’ in Section 9.6.16 ‘Special Amenity Areas’.

Groundwater

We welcome the Groundwater Development Policies contained in the Section 11.5.3.3 ‘Draft River Basin Management Plan (RBMP) for Ireland 2022–27’. In Section 11.5.3 ‘Water Quality of Waterbodies’, we are pleased to see mention of the Groundwater Protection Scheme for Fingal that has been developed in conjunction with Geological Survey Ireland and Fingal County Council.

Policy IUP17 – Groundwater

Strive to achieve “good status” in all waterbodies and protect and develop, in a sustainable manner, the existing groundwater sources and aquifers in the County and control development in a manner consistent with the proper management of these resources in compliance with the Water Framework Directive, the *Eastern River Basin Management Plan 2017–2021* and any subsequent plan.

Policy IUP18 – Groundwater Protection Schemes

Promote the reduction of groundwater pollution and to protect and improve the aquatic environment and water-dependent ecosystems through proactive discharge and emissions management and through the enhancement of the physical condition of waterbodies and to implement the recommendations contained in any Groundwater Protection Scheme prepared under EU Ground Water Directives.

We recommend the ongoing use of Geological Survey Ireland’s Groundwater maps and datasets within the Development Plan. These maps and datasets are updated regularly and refined as new data becomes available, further information is available on our [Map viewer](#).

Geothermal Energy

We are pleased to see the inclusion of geothermal energy as Policy CAP16 – ‘Geothermal Energy’:

Policy CAP16 – Geothermal Energy

Support the exploration for, and development of, geothermal energy resources having regard to emerging government policy on geothermal energy.

Natural Resources (Minerals/Aggregates)

We welcome the following policy and objective in Section 7.5.3.4 ‘Quarries, Aggregate Extraction and Land Reclamation’:

Policy EEP27 – Aggregate Extraction

Protect and safeguard the County’s natural aggregate resources from inappropriate development and support the sustainable extraction of aggregate resources at suitable locations within the County subject to appropriate environmental safeguards.

Objective EEO71

Ensure that proposals for extraction and land reclamation avoid significant adverse impacts on the environment, residential amenities and the visual amenity of the area through environmental assessment, mitigation and appropriate provision for the restoration of the landscape.

We would like to recommend the inclusion of the ‘Geological Heritage Guidelines for the Extractive Industry’ document within Section 7.5.3.4 ‘Quarries, Aggregate Extraction and Land Reclamation’. Further details can be found at:

<https://www.gsi.ie/en-ie/publications/Pages/Geological-Heritage-Guidelines-for-the-Extractive-Industry.aspx>



Marine and Coastal Unit and Coastal Vulnerability Index

In section 9.7 'The Coast and Coastal Protection', we note the following objectives:

Objective GINHO64 – Coastal Erosion
Where coastal erosion is considered a threat to existing properties, explore the technical and economic feasibility of coastal adaptation and coastal retreat management options
Objective GINHO65 – Coastal Defence Works
Employ soft engineering techniques as an alternative to hard coastal defence works, wherever possible.
Objective GINHO66 – Identification of Coastal Protection Works
Identify, prioritise and implement necessary coastal protection works subject to the availability of resources, whilst ensuring a high level of protection for natural habitats and features, and ensure due regard is paid to visual and other environmental considerations in the design of any such coastal protection works.
Objective GINHO67 – Erosion Risk Management
Undertake erosion risk management studies for high-risk areas so that the long-term erosion risks to property can be clearly identified long before the risk may be expected to occur.

We would therefore recommend use of our Marine and Coastal Unit datasets available on our [website](#) and [Map Viewer](#) which will be of benefit to these objectives in managing coastal defence and coastal erosion issues, in addition to our **Coastal Vulnerability Index** information and maps which are available [here](#).

I hope that these comments are of assistance, and if we can be of any further help, please do not hesitate to contact me Clare Glanville, or my colleague Trish Smullen at GSIPlanning@gsi.ie.

Yours sincerely,

Clare Glanville
Senior Geologist
Geological Survey Ireland

Enc: Table - Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes.

Geological Survey Ireland's Publicly Available Datasets Relevant to Planning, EIA and SEA processes
following European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018
(S.I. No. 296 of 2018)

Geological Survey Ireland Programme	Dataset	Relevant EIA Topic	Coverage	Description / Notes / Limitations	Link to Geological Survey Ireland map viewer
Geohazards	Landslide: National landslide database and landslide susceptibility map	Land & Soil/Climate/Landscape	National	Associated guidance documentation relating to the National Landslide Susceptibility Map is also available.	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=b68cf1e4a9044a5981f950e9b9c5625c
Geohazards	Groundwater Flooding (Historic)	Water	Regional	Provide information of historic flooding, both surface water and groundwater. [A lack of flooding presented in any specific location of the map only indicates that a flood has not been detected. It does not indicate that a flood cannot occur in that location at present or in the future]	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=848f83c85799436b808652f9c735b1cc
Geohazards	Groundwater Flooding (Predictive)	Water	Regional	Provides information on the probability of future karst groundwater flooding (where available). [The maps do not, and are not intended to, constitute advice. Professional or specialist advice should be sought before taking, or refraining from, any action on the basis of the flood maps]	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=848f83c85799436b808652f9c735b1cc
Geohazards	Radon Map	Land & Soils/Air	National		http://www.epa.ie/radiation/radonmap/
Geohazards	County Geological Sites as adopted by National Heritage Plan and listed in County Development Plan	Land & Soils/Landscape	Regional	All geological heritage sites identified by Geological Survey Ireland are categorised as CGS pending any further NHA designation by NPWS.	https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=a30af518e87a4c0b2fde2aaac3c228
Geological Mapping	Bedrock geology:	Land & Soils	National	1:100,000 scale and associated memoirs.	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7ee1b6ab8d5&scale=0
Geological Mapping	Bedrock geology:	Land & Soils	Regional	1:50,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7ee1b6ab8d5&scale=0
Geological Mapping	Quaternary geology: Sediments	Land & Soils	National	1:50,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7ee1b6ab8d5&scale=0
Geological Mapping	Quaternary geology: Geomorphology	Land & Soils	National	1:50,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=de7012a99d2748ea9106e7ee1b6ab8d5&scale=0
Geological Mapping	Physiographic units:	Land & Soils	National	Broad-scale physical landscape units mapped at 1:100,000 scale in order to be represented as a cartographic digital map at 1:250,000 scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=afa76a20fc54877843aca1bc075c62b
Geological Mapping	GeoUrban: Spatial geological data for the greater Dublin and Cork areas	Land & Soils	Regional	includes 3D models	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=9768f4818b794c16093beb2212a850ce6&scale=0
Geological Mapping	Geotechnical database	Land & Soils	National	Digitised geotechnical and Site Investigation Reports and boreholes which can be accessed through online downloads	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=a2718be1873d47a585a3f0415b4a724c
Goldmine	Historical data sets including geological memoirs and 6" to 1 mile geological mapping records	Land & Soils/Water	National	available online	https://secure.dcaa.gov.ie/goldmine/index.html
Groundwater & Geothermal	Groundwater resources (aquifers)	Water	National	Data limited to 1:100,000 scale; sites should be investigated at local scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater recharge.	Water	National	Data limited to 1:40,000 scale; sites should be investigated at local scale; long term annual average recharge	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater vulnerability.	Water	National	Data limited to 1:40,000 scale; sites should be investigated at local scale	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Group scheme and public supply source protection areas.	Water	National	Not all PWS / GWS have SPZ / ZOC. Check with IW / coco / NFGWS for private supplies.	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater Protection Schemes	Water	National	Data is limited to scale of 1:40,000. Data does not include all of the source protection areas	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Catchment and WFD management units.	Water	National		https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	karst specific data layers	water	National	For areas underlain by limestone, includes karst features, tracer test database; turf/rough water levels (gwlevel.ie)	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Wells and Springs	Water	National	Not comprehensive, there may be unrecorded wells and springs	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=7e8a202301594687ab14629a10b748ef
Groundwater & Geothermal	Groundwater body Descriptions	Water	National	Not exhaustive; only those in designated SACs; could be other GWDTEs; for more information contact NPWS / EPA / site investigations Also, Roadmap for a Policy and Regulatory Framework for Geothermal Energy, November 2020	https://www.gsi.ie/en-ie/programmes-and-projects/groundwater-and-geothermal-unit/activities/understanding-ireland-groundwater/Pages/Groundwater-bodies.aspx
Groundwater & Geothermal	Geothermal Suitability maps	Land & Soils/Water	National		https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=9ee46bee08de41278b90a9916dc0b9e
Marine & Coastal Unit	INFOMAR - Ireland's national marine mapping programme; providing key baseline data for Ireland's	Water	National		https://secure.dcaa.gov.ie/GSI/INFOMAR_VIEWER/
Marine & Coastal Unit	CHERISH - Coastal change project (Climate, Heritage and Environments of Reefs, Islands, and Headlands)	Water	Regional		http://www.cherishproject.eu/en/
Marine & Coastal Unit	Coastal Vulnerability Index (CVI).	water / Land & Soils	Regional	Currently the project is being carried out on the east coast and will be rolled out nationally	https://www.gsi.ie/en-ie/programmes-and-projects/marine-and-coastal-unit/projects/Pages/Coastal-Vulnerability-Index.aspx
Minerals	Aggregate potential	Land & Soils/Material Assets	National	Consideration of mineral resources and potential resources as a material asset which should be explicitly recognised within the environmental assessment process	https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=ee8c4c285a49413aa6f1344416dc9956
Minerals	Active quarries	Land & Soils	National		https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=ee8c4c285a49413aa6f1344416dc9956
Minerals	Historic mines	Land & Soils/Cultural Heritage	National	Economic and Risk Classification 2009. Environmental Protection Agency, Inventory Minerals Division and Geological Survey Ireland (DECC).	https://gis.epa.ie/EPAMaps/default?zesting=7&nothing=7&lid=EPA:LEMA_Facilities_Extractive_Facilities
Tellus	Geochemical data: multi-element data for shallow soil, stream sediment and stream water	Land & Soils	Regional	A national mapping programme	https://www.epa.ie/enforcement/mines/
Tellus	Airborne geophysical data including radiometrics, electromagnetics and magnetics	Land & Soils	Regional	A national mapping programme	https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=6304e122b733498b99642707f72754
Tellus	urban geochemistry mapping (Dublin SURGE project).	Land & Soils	Regional	A national mapping programme	https://dcenr.maps.arcgis.com/apps/MapSeries/index.html?appid=6304e122b733498b99642707f72754

Notes:

- The maps and data listed above are available on the Geological Survey Ireland map viewer <https://www.gsi.ie/en-ie/data-and-maps/Pages/default.aspx>
- Please read all disclaimers carefully when using Geological Survey Ireland data
- Geological Survey Ireland and Irish Concrete Federation published guidelines for the treatment of geological heritage in the extractive industry in 2008.