



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



DATA.GOV.IE

Open Data Conference 2020

Open Data for a Data Driven Public Service Delivery

2nd December 2020



| | Agenda Item | Timing | Speakers |
|----|--|---------------|--|
| 1. | Opening and Welcome | 10:00 - 10:05 | Prof. Declan O'Sullivan Computer Science - Trinity College Dublin |
| 2. | Opening | 10:05 - 10:15 | Minister Ossian Smyth Minister of State for Public Procurement and eGovernment |
| 3. | High Value Datasets - From Publication to Impact | 10:15 - 10:30 | Prof. Elena Simperl Computer Science - Kings College London |
| 4. | OSI Publication and Covid 19 - how the publication of data informed and provided insights into the crisis | 10:30 - 10:45 | Hugh Mangan Business & Marketing Manager of Ordnance Survey Ireland (OSI) |
| 5. | Sharing on the Journey - Testimonials from Publishers and re-Users: 1. Data Publisher: the Tusla Journey 2. Data Re-Use Smart Cities: the Dublin Dashboard 3. Data Re-Use Health & Wellbeing: Hale & Hearty | 10:45 - 11:25 | Moderator: Cianan Clancy (Shipyards Technology Ventures) <ul style="list-style-type: none"> • Peggy Ryan and Sheila Moore (Tusla) • Liam O'Sullivan (Dublin Dashboard) • Deirdre Lee (Derilinx) • Hugh Mangan (OSI) |
| 6. | Publication of Open Datasets <ul style="list-style-type: none"> • Open Data Directive • Ireland Public Service Data Catalogue • High Value Datasets | 11:25 - 12:05 | Moderator: Dr. Edward Curry (Insight Centre) <ul style="list-style-type: none"> • Rhoda Kerins (Open Data Unit - DPER) • Mark Warren (OGCIO - DPER) • Josh D'Addario(ODI) |
| 7. | Open Data as part of a wider European Data and AI Ecosystem | 12:05 - 12:20 | Dr. Edward Curry Principal Investigator - Insight Centre |
| 8. | Closing | 12:20 | Dave Hanley Principal Officer – Reform and Delivery Office (DPER) |



The speakers



Prof. Declan O'Sullivan
Computer Science - Trinity College Dublin



Minister Ossian Smyth
Minister of State for Public Procurement and eGovernment



Prof. Elena Simperl
Computer Science - Kings College London



Hugh Mangan
Business & Marketing Manager of Ordnance Survey Ireland (OSI)



Cianan Clancy
Shipyard Technology Ventures



Liam O'Sullivan
Dublin Dashboard



Peggy Ryan
Tusla



Sheila Moore
Tusla



Deirdre Lee
Derilinx



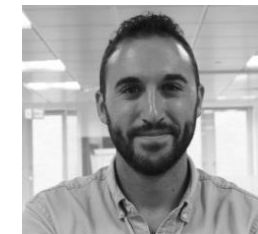
Dr. Edward Curry
Insight Centre



Rhoda Kerins *Open Data Unit - DPER*



Mark Warren
OGCIO - DPER



Josh D'Addario
ODI



Dave Hanley
Reform and Delivery Office - DPER



1

Minister Ossian Smyth

Minister of State for Public
Procurement and eGovernment

Opening of the Conference

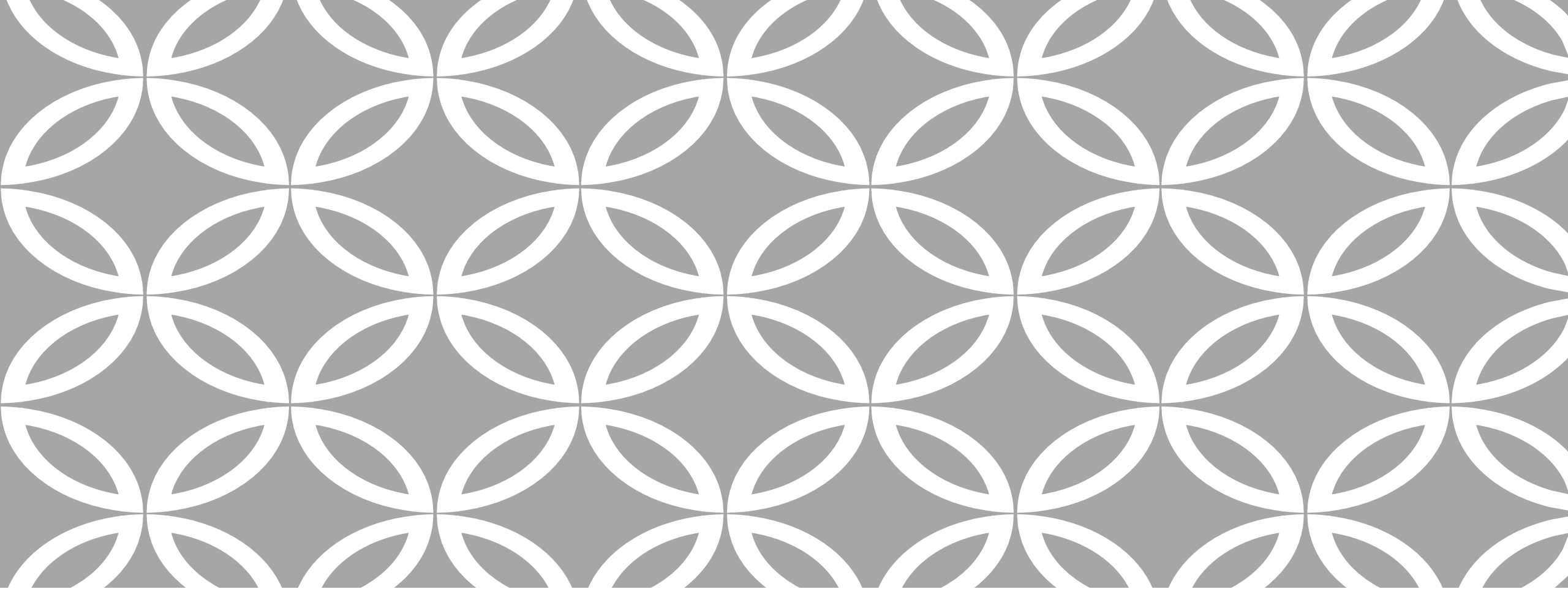


2

Prof. Elena Simperl

Computer Science - Kings College
London

*High Value Datasets - From Publication
to Impact*



HIGH-VALUE DATASETS

FROM PUBLICATION TO IMPACT

Elena Simperl

@esimperl

National Open Data Conference

December 2, 2020



A black and white photograph of a person's hands typing on a laptop keyboard. The background is blurred, showing what appears to be a desk with a computer monitor and other office equipment. A black rectangular box is overlaid on the image, containing white text.

How do people search, make sense of, and use open data?

HUMAN DATA INTERACTION

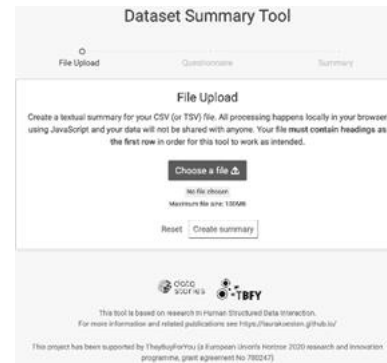
FRAMEWORKS, METHODS, TOOLS



Fig. 7. Patterns of activities and attributes in data-centric sensemaking

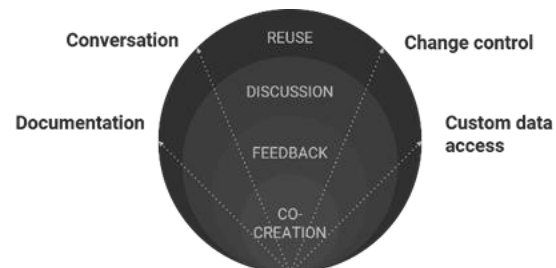
The csv file contains 225 records of stop and searches carried out by Greater Manchester police in February 2017. It contains 15 columns which give detail on the people stopped - including ethnicity, gender (male/female) and age (ranges), the stop itself (including type, location (long/lat), legislation, object of search and whether it was part police operation (true/false)), and the outcome of the stop. The majority of variables are complete for all records, however details on both gender and age range are missing for about 40 values each. In the majority of cases the outcome was that there was nothing found, in 55 cases the outcome was true and therefore action was taken (e.g. suspect arrested).

- 1. subtitle
- 2. format
- 3. headers
- 4. value types / ranges
- 5. provenance
- 6. temporal information
- 7. geospatial information
- 8. quality statements
- 9. analysis / highlights



| ATTRIBUTE | DESCRIPTION | PROVENANCE |
|-----------------------------|---|---------------------|
| ethnicity | European ethnic group | 2017-02-01 14:30:00 |
| gender | Gender of the person stopped | 2017-02-01 14:30:00 |
| age | Age range of the person stopped | 2017-02-01 14:30:00 |
| stop_type | Type of stop | 2017-02-01 14:30:00 |
| location | Location of the stop | 2017-02-01 14:30:00 |
| object_of_search | Object of search | 2017-02-01 14:30:00 |
| is_part_of_police_operation | Whether the stop was part of a police operation | 2017-02-01 14:30:00 |
| outcome | Outcome of the stop | 2017-02-01 14:30:00 |

Table 1. Compilation of credibility features for datasets - this table does not claim to be comprehensive but aims to provide an overview of the most recommended documentation practices for dataset users.



Latest Reports

Analytical Report 18

Report 18: Characterising dataset search on the European Data Portal

28/09/2020

This report illustrates a quantitative study on data search through more than two years of EDP search and interaction logs. Understanding data search behaviour is key to developing better search algorithms and improving the search experience. This study presents current findings from key literature in dataset search. Read more [↗](#)

HUMAN DATA INTERACTION

FRAMEWORKS, METHODS, TOOLS

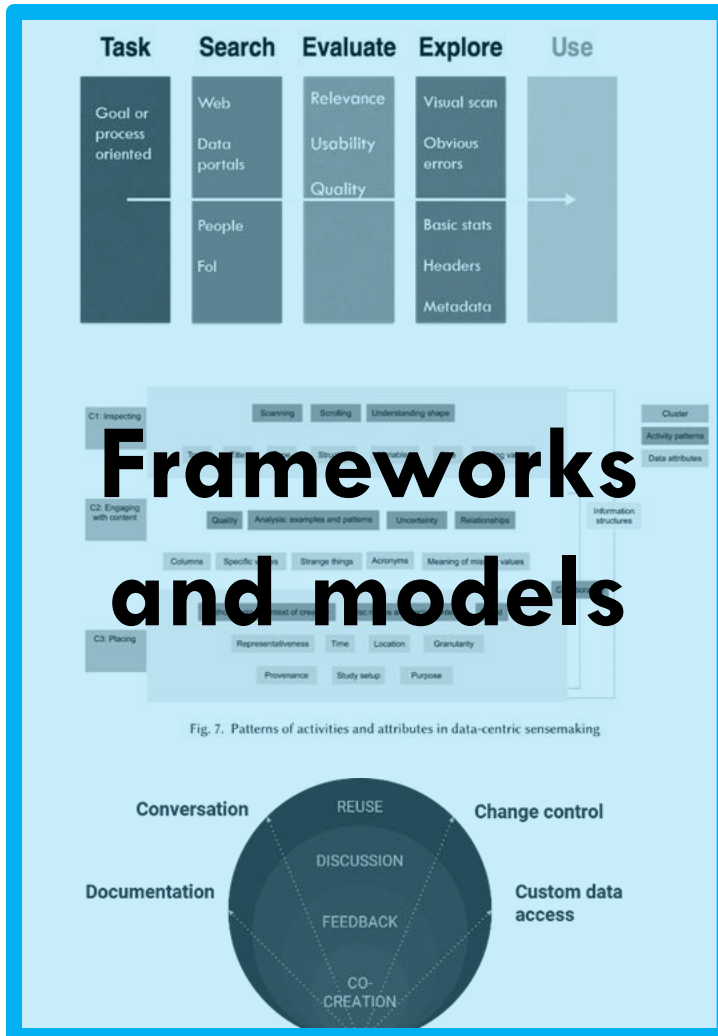
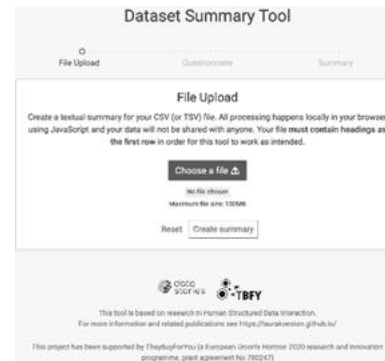


Fig. 7. Patterns of activities and attributes in data-centric sensemaking

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| PROPERTY | DESCRIPTION | RELEVANCE |
|--------------------------|-------------------------------|----------------------|
| ethnicity | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| gender | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| age | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| stop_type | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| location | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| legislation | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| object_of_search | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| is_part_police_operation | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |
| outcome | Is a subset of the population | [0.0, 0.0, 0.0, 0.0] |

Latest Reports

Analytical Report 18



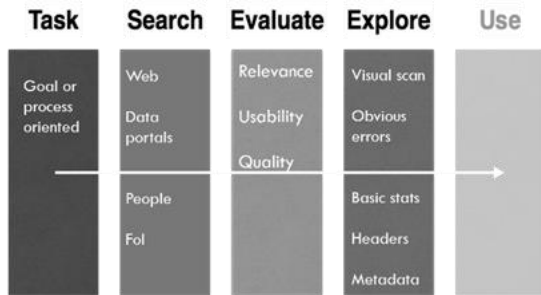
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HUMAN DATA INTERACTION

FRAMEWORKS, METHODS, TOOLS



The csv file contains 225 records of stop and searches carried out by Greater Manchester police in February 2017. It contains 15 columns which give detail on the people stopped including ethnicity, gender (male/female) and age (ranges), the stop itself (including the location, the reason for the stop, the officer's name, the date and time of the stop) and the outcome of the stop. The majority of variables are complete for all records, however details on both gender and age range are missing for about 40 values each. In the majority of cases the outcome was that there was nothing found, in 55 cases the outcome was true and therefore action was taken (e.g. suspect arrested).

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Fig. 7. Patterns of activities and attributes in data-centric sensemaking

Dataset Summary Tool

File Upload

Questionnaire

Summary

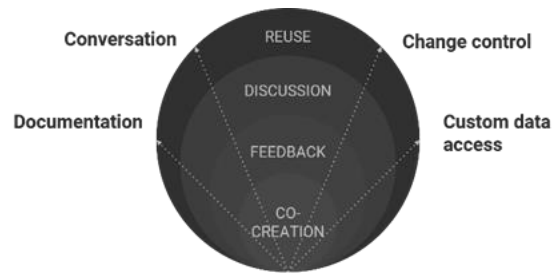
Create a textual summary for your CSV (or TSV) file. All processing happens locally in your browser using JavaScript and your data will not be shared with anyone. Your file must contain headings as the first row in order for the tool to work as intended.

Choose a file

Reset Create summary

| Header | Content | Footer |
|-----------|------------|-----------|
| Header 1 | Content 1 | Footer 1 |
| Header 2 | Content 2 | Footer 2 |
| Header 3 | Content 3 | Footer 3 |
| Header 4 | Content 4 | Footer 4 |
| Header 5 | Content 5 | Footer 5 |
| Header 6 | Content 6 | Footer 6 |
| Header 7 | Content 7 | Footer 7 |
| Header 8 | Content 8 | Footer 8 |
| Header 9 | Content 9 | Footer 9 |
| Header 10 | Content 10 | Footer 10 |
| Header 11 | Content 11 | Footer 11 |
| Header 12 | Content 12 | Footer 12 |
| Header 13 | Content 13 | Footer 13 |
| Header 14 | Content 14 | Footer 14 |
| Header 15 | Content 15 | Footer 15 |

Table 1. Compilation of readability features for datasets - this table does not claim to be comprehensive but aims to provide an overview of the most recommended documentation practices for dataset users.



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FRAMEWORKS, METHODS, TOOLS

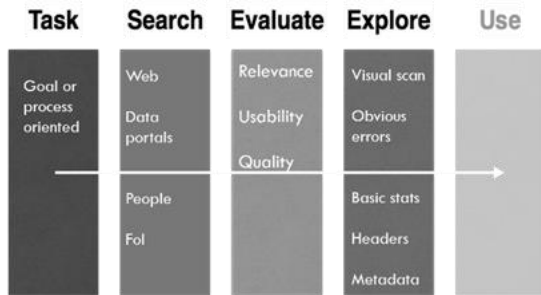
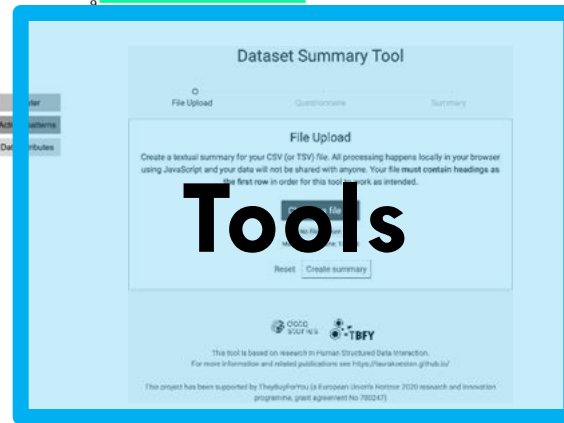


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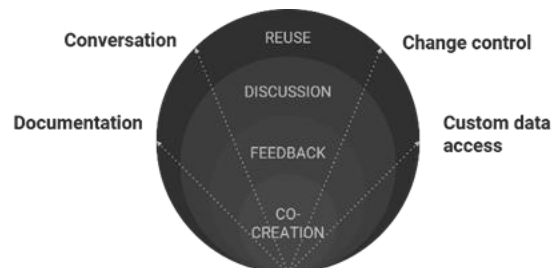
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| ATTRIBUTE | DESCRIPTION | PROVENANCE |
|-----------|---------------------------------|---|
| ethnicity | European ethnic group | [1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14], [15], [16], [17], [18], [19], [20], [21], [22], [23], [24], [25], [26], [27], [28], [29], [30], [31], [32], [33], [34], [35], [36], [37], [38], [39], [40], [41], [42], [43], [44], [45], [46], [47], [48], [49], [50], [51], [52], [53], [54], [55], [56], [57], [58], [59], [60], [61], [62], [63], [64], [65], [66], [67], [68], [69], [70], [71], [72], [73], [74], [75], [76], [77], [78], [79], [80], [81], [82], [83], [84], [85], [86], [87], [88], [89], [90], [91], [92], [93], [94], [95], [96], [97], [98], [99], [100], [101], [102], [103], [104], [105], [106], [107], [108], [109], [110], [111], [112], [113], [114], [115], [116], [117], [118], [119], [120], [121], [122], [123], [124], [125], [126], [127], [128], [129], [130], [131], [132], [133], [134], [135], [136], [137], [138], [139], [140], [141], [142], [143], [144], [145], [146], [147], [148], [149], [150], [151], [152], [153], [154], [155], [156], [157], [158], [159], [160], [161], [162], [163], [164], [165], [166], [167], [168], [169], [170], [171], [172], [173], [174], [175], [176], [177], [178], [179], [180], [181], [182], [183], [184], [185], [186], [187], [188], [189], [190], [191], [192], [193], [194], [195], [196], [197], [198], [199], [200], [201], [202], [203], [204], [205], [206], [207], [208], [209], [210], [211], [212], [213], [214], [215], [216], [217], [218], [219], [220], [221], [222], [223], [224], [225] |
| gender | Gender of the person stopped | [1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14], [15], [16], [17], [18], [19], [20], [21], [22], [23], [24], [25], [26], [27], [28], [29], [30], [31], [32], [33], [34], [35], [36], [37], [38], [39], [40], [41], [42], [43], [44], [45], [46], [47], [48], [49], [50], [51], [52], [53], [54], [55], [56], [57], [58], [59], [60], [61], [62], [63], [64], [65], [66], [67], [68], [69], [70], [71], [72], [73], [74], [75], [76], [77], [78], [79], [80], [81], [82], [83], [84], [85], [86], [87], [88], [89], [90], [91], [92], [93], [94], [95], [96], [97], [98], [99], [100], [101], [102], [103], [104], [105], [106], [107], [108], [109], [110], [111], [112], [113], [114], [115], [116], [117], [118], [119], [120], [121], [122], [123], [124], [125], [126], [127], [128], [129], [130], [131], [132], [133], [134], [135], [136], [137], [138], [139], [140], [141], [142], [143], [144], [145], [146], [147], [148], [149], [150], [151], [152], [153], [154], [155], [156], [157], [158], [159], [160], [161], [162], [163], [164], [165], [166], [167], [168], [169], [170], [171], [172], [173], [174], [175], [176], [177], [178], [179], [180], [181], [182], [183], [184], [185], [186], [187], [188], [189], [190], [191], [192], [193], [194], [195], [196], [197], [198], [199], [200], [201], [202], [203], [204], [205], [206], [207], [208], [209], [210], [211], [212], [213], [214], [215], [216], [217], [218], [219], [220], [221], [222], [223], [224], [225] |
| age | Age range of the person stopped | [1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11], [12], [13], [14], [15], [16], [17], [18], [19], [20], [21], [22], [23], [24], [25], [26], [27], [28], [29], [30], [31], [32], [33], [34], [35], [36], [37], [38], [39], [40], [41], [42], [43], [44], [45], [46], [47], [48], [49], [50], [51], [52], [53], [54], [55], [56], [57], [58], [59], [60], [61], [62], [63], [64], [65], [66], [67], [68], [69], [70], [71], [72], [73], [74], [75], [76], [77], [78], [79], [80], [81], [82], [83], [84], [85], [86], [87], [88], [89], [90], [91], [92], [93], [94], [95], [96], [97], [98], [99], [100], [101], [102], [103], [104], [105], [106], [107], [108], [109], [110], [111], [112], [113], [114], [115], [116], [117], [118], [119], [120], [121], [122], [123], [124], [125], [126], [127], [128], [129], [130], [131], [132], [133], [134], [135], [136], [137], [138], [139], [140], [141], [142], [143], [144], [145], [146], [147], [148], [149], [150], [151], [152], [153], [154], [155], [156], [157], [158], [159], [160], [161], [162], [163], [164], [165], [166], [167], [168], [169], [170], [171], [172], [173], [174], [175], [176], [177], [178], [179], [180], [181], [182], [183], [184], [185], [186], [187], [188], [189], [190], [191], [192], [193], [194], [195], [196], [197], [198], [199], [200], [201], [202], [203], [204], [205], [206], [207], [208], [209], [210], [211], [212], [213], [214], [215], [216], [217], [218], [219], [220], [221], [222], [223], [224], [225] |

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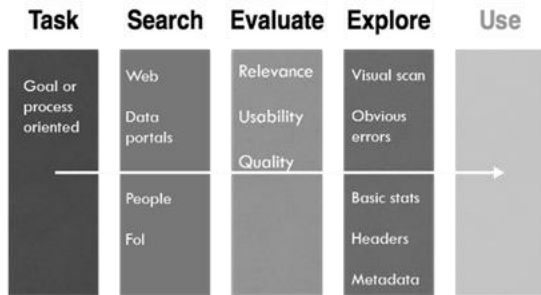
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FRAMEWORKS, METHODS, TOOLS

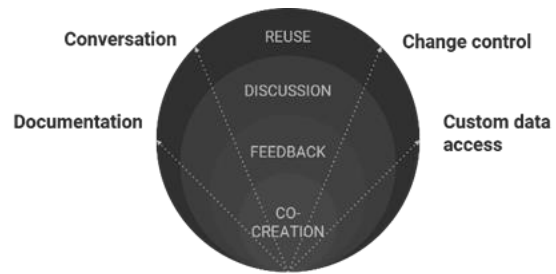
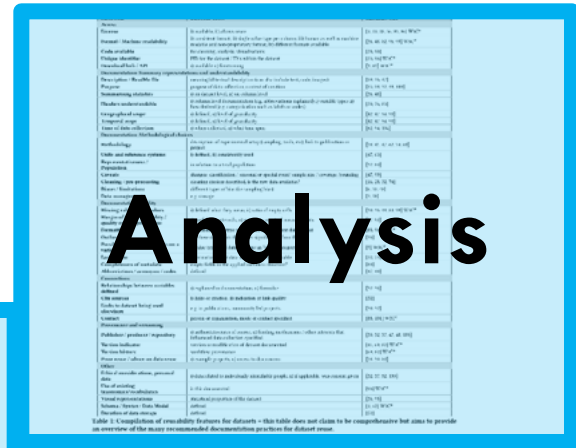
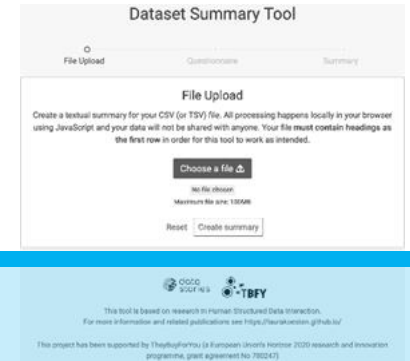


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Fig. 7. Patterns of activities and attributes in data-centric sensemaking



Analysis

HIGH-VALUE DATASETS

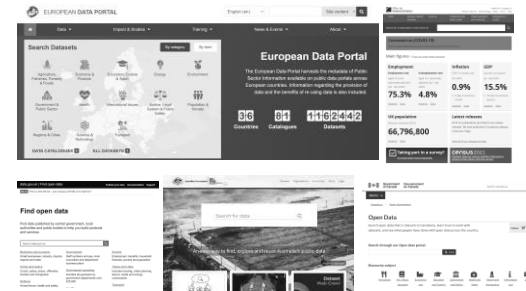
UNDERSTANDING USE THROUGH BEHAVIOUR ANALYSIS TO PROVIDE GUIDANCE TO PUBLISHERS

Open government data portals

- Search logs
- Data requests

Data science platforms

- Activity logs



2018 STUDY

ANALYSIS OF LOGS AND REQUESTS

Four national open government data portals, 2.2 million queries from 2013 to 2016, 1500 data requests.

Data search is a **work-related activity**.

Shorter queries, include **time** and **location**, with varying levels of granularity.

Explorative search, using **keywords** and **filters**.

Native and external queries topically different.

Data requests describe the data through boundaries and restrictions on location, time, data type, granularity.



(2)

Filter by location Order by: Last Modified

(3) (1)

6986 datasets found

Structure of consumption expenditure by activity and employment status of the reference person and COICOP consumption purpose

Structure of consumption expenditure by activity and employment status of the reference person and COICOP consumption purpose (6)

Updated 04.03.2020 00:00

European Union Open Data Portal

(4) **Settings**

Operator AND OR

(5) **Countries**

Special Eurobarometer 116: Attitudes of EU consumers to Fair Trade Bananas

2020 STUDY

ANALYSIS OF LOGS

844,343 user sessions
(April 18 to June 20)

TOOLS TO FIND DATA

EDP is used to find datasets, but it is not the only tool people use. **60% of sessions arrive to the EDP from the web.**

Changes in portal design impact traffic (and user experience).

Covid-19 datasets were in high demand in 2020.

A large majority of users visit only **one section of the portal** at a time.

Content on the site needs to be better interlinked (both data and other pages). **When links exist, people use them.**

SEARCH APPROACHES AND AFFORDANCES

Filters are important: 60% of native sessions use filters-only; 15-20% use keywords *and* filters.

Common **search strategies:** single-filter; keywords first, then one or more filters.

Popular filters are **country** and **category**. Less so: **format**, **license**.

Keyword queries are short, less use of **time**, **format** and **data attributes**, more use of **location**.

SUCCESS IN DATASET SEARCH

20-40% of native queries and 8-25% of external queries are successful.

Keywords + filters seem to work better. Might also be a proxy for seasoned users.

IMPLICATIONS FOR PUBLISHERS

SEO strategy

Filter
affordances

Granular
location data

Dataset
retrieval

Dataset
preview
pages

Links between
content and
datasets

WHAT'S NEXT

Studies on **users** and their **information needs**.

Granular activity data captured and shared by portals for new studies.

Portals publish lots of data. They now need to do more to become **data communities**.





3

Hugh Mangan

Business & Marketing Manager of
Ordnance Survey Ireland

*How the publication of data informed
and provided insights into the crisis*

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

Hugh Mangan, Ordnance Survey Ireland

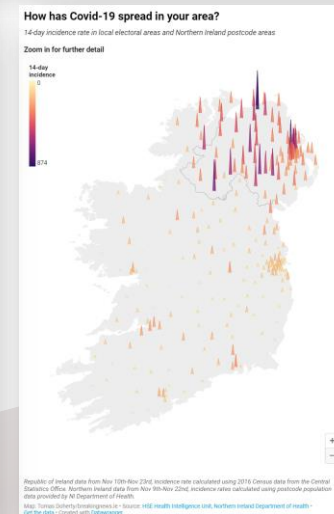
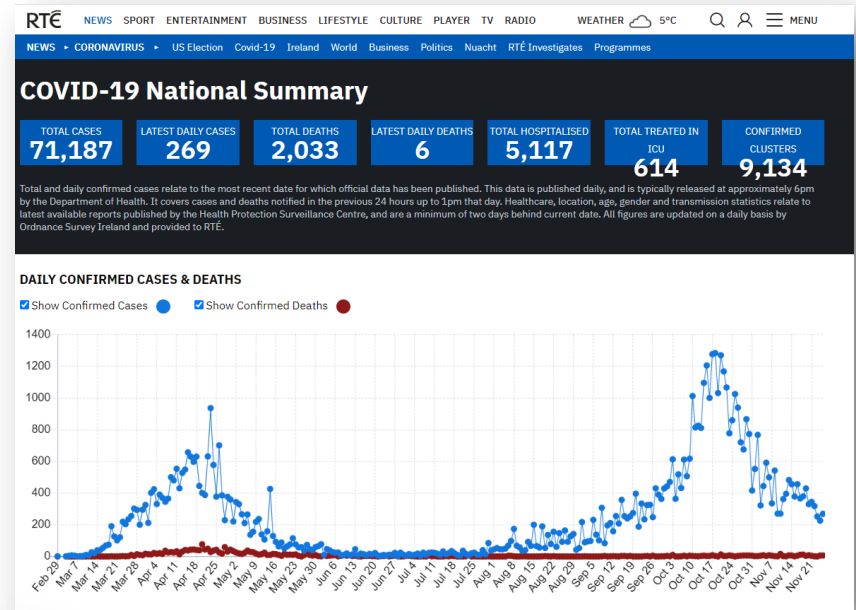
2nd December 2020



Rialtas na hÉireann
Government of Ireland

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.



David W. Higgins
@higginsdavidw

Incidence rates by county and LEA.

(14 day cases per 100,000 to September 14th, outside Dublin only).

| County | LEA | Rate | County | LEA | Rate |
|------------|-------------------------|------|----------------------|------------------------------------|------|
| CORK | BALLYVALE | 25.4 | DUBLIN | DUBLIN SOUTH | 77.5 |
| | CADANUS | 33.3 | | DUBLIN RURAL | 63.3 |
| | SHANON | 35.2 | | DUBLIN URBAN | 65.5 |
| CORK | FERINGLY | 26.7 | DUBLIN | DUBLIN | 67.6 |
| | CORK CITY SOUTH WEST | 26.3 | ATHLONE | ATHLONE | 46.3 |
| | SKIBBEREEN WEST COOK | 26.5 | LITTON | LITTON | 37.1 |
| DUBLIN | CORK CITY SOUTH CENTRAL | 25.3 | NUSSA | NUSSA | 26.4 |
| | COBLEN | 34.7 | BALDATH | BALDATH | 33.0 |
| | LEWIS STANISLAUS | 37.8 | DONOHUE | CARRIGROCK/CARRIGROCK CASTLE/ARNEY | 37.7 |
| DUBLIN | LETTERKENNY | 37.5 | DUBLIN | DUBLIN | 38.1 |
| | MIRFIELD | 43.8 | SPILL | SPILL | 43.1 |
| | COYNAK SOUTH | 36.2 | SEENICHERY | SEENICHERY | 42.9 |
| GALWAY | TRAM | 26.2 | TULLAGH | TULLAGH | 25.3 |
| | GALWAY CITY CENTRAL | 26.1 | DOSCONAGH | BOLLE | 35.0 |
| | GALWAY CITY EAST | 26.4 | SPERRIN | CARLE - SPERRIN | 26.3 |
| KERRY | ATHERNY CRANACRE | 25.2 | CARR | CARR | 34.0 |
| | CARRIGROCK | 28.2 | CARRIGROCK | CARRIGROCK | 26.3 |
| | KENAMORE | 23.9 | WATERFORD | TRANKING WATERFORD CITY WEST | 30.8 |
| KILMORE | KILBARRNEY | 27.1 | WATERFORD CITY EAST | WATERFORD CITY EAST | 26.6 |
| | TRALEE | 38.2 | WATERFORD CITY SOUTH | WATERFORD CITY SOUTH | 33.4 |
| | CILLINACROSS | 27.1 | PORLEIGH/MACINTOSH | PORLEIGH/MACINTOSH | 26.6 |
| KILMORE | KILMORE | 62.9 | KILGARR | KILGARR | 43.1 |
| | KILPATRICK | 37.1 | MOATE | MOATE | 26.6 |
| | MALINCOOTH | 31.6 | MULLAGH | MULLAGH | 36.4 |
| KILPATRICK | MAE | 35.2 | ATHLONE | ATHLONE | 22.1 |
| | NEWBRIDGE | 33.7 | NEWBRIDGE | NEWBRIDGE | 35.9 |
| | CLARE | 21.4 | NEW ROSS | NEW ROSS | 30.1 |
| KILPATRICK | PILTOWN | 36.4 | ROSLARE | ROSLARE | 27.2 |

7:31 PM · Sep 21, 2020 · Twitter Web App



Ireland's COVID-19 Data Hub

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

Riadas na hÉireann Government of Ireland

Comhairle 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.

Confirmed Headline Figures 30/11/2020
Data last Updated

| Total Confirmed Cases (HPSC) | Total Deaths (HPSC) | Latest Daily Cases (HPSC) | Latest Daily Deaths (HPSC) |
|------------------------------|---------------------|---------------------------|----------------------------|
| 72,544 | 2,053 | 306 | 1 |

Ireland's COVID-19 Data Hub - Detailed Profile of Cases

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

The statistics and graphs in this section are built using confirmed figures provided by the Health Protection Surveillance Centre (HPSC), and are updated following official release of new data.

30/11/2020 28/11/2020
Data last Updated Data is relevant up to midnight

Breakdown by Age & Gender

Statistics broken down by age & gender relate to latest available figures from HPSC, and are a minimum of two days behind current date. These figures are updated daily.

Total Confirmed Cases - Gender Profile

| Gender | Total Confirmed Cases |
|---------|-----------------------|
| Male | 34,021 |
| Female | 38,158 |
| Unknown | 33 |

Data last Updated: Monday, November 30, 2020
Data relevant up to midnight: Saturday, November 28, 2020

Total Confirmed Cases - Age Profile

| Age Group | Total Confirmed Cases |
|-----------|-----------------------|
| 0-4 | 805 |
| 5-14 | 1,020 |
| 15-24 | 4,550 |
| 25-34 | 12,046 |
| 35-44 | 12,142 |
| 45-54 | 11,332 |
| 55-64 | 10,926 |
| 65-74 | 7,712 |
| 75+ | 10,995 |

Data last Updated: Monday, November 30, 2020
Data relevant up to midnight: Saturday, November 28, 2020



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



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



An Roinn Sláinte
Department of Health



Context: Public Sector Data Strategy



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

Riailtas na hÉireann
Government of Ireland

PUBLIC SERVICE DATA STRATEGY

2019 - 2023

| | |
|---|--|
| Interoperability Platform An API-led Interoperability Platform based on a Service Oriented Architecture (SOA) will be developed to enable PSBs to cooperate, share and reuse data and services in an effective, secure and consistent way | Analytics A structured approach to data analytics will be encouraged to promote the value of data to support evidence-based policy-making |
| Legislation Sharing of personal data will be underpinned by clear and explicit legislation and governance to help foster trust between citizens and businesses, and Government | Base Registries Enabling data to be reused, and reduce the need for citizens and businesses to provide the same information to PSBs again and again |
| Governance Standards and good governance processes will ensure that data is managed appropriately and consistently across all PSBs, maintaining trust with Government | Trusted Identifiers Trusted identifiers will enable data to be linked across data holdings |
| Privacy Security and data protection measures to identify and protect citizen and business data, for example privacy-by-design and privacy-by-default will be adopted | Transparency Transparency will be delivered through citizen accessible data-sharing agreements, a Data Portal for citizens to view personal data that Government holds, well-architected logging solutions, and the publication of open datasets |
| | Discovery Promote awareness and facilitate the discovery of data and services available for reuse |

Riailtas na hÉireann
Government of Ireland

Statement of Strategy

2019 - 2021

www.osi.ie

- Efficient & Effective Production
- Trusted Geospatial Services
- Collaboration & Partnerships
- Leadership & Communication
- Transparent & Accountable

Context: SDGs and Open Data

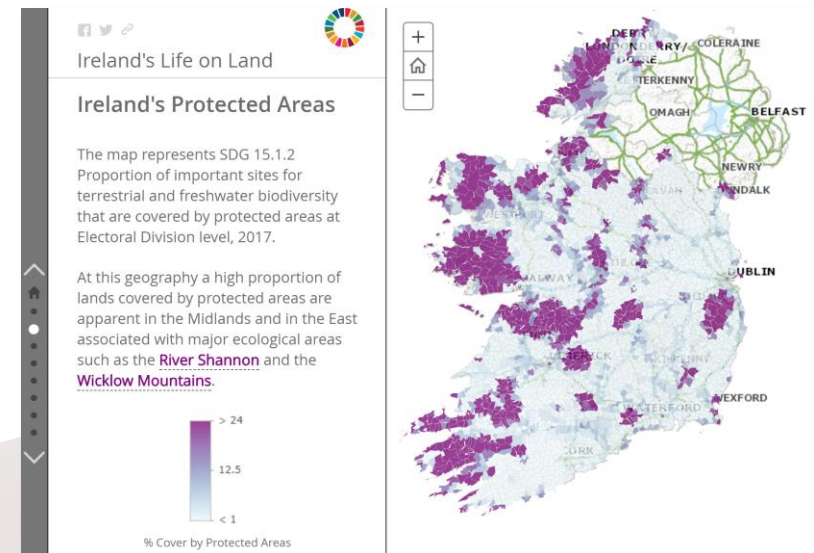


An Roinn Comhshaoil,
Aeráide agus Cumarsáide
Department of the Environment,
Climate and Communications

Geospatial Data and GeoHive Platform



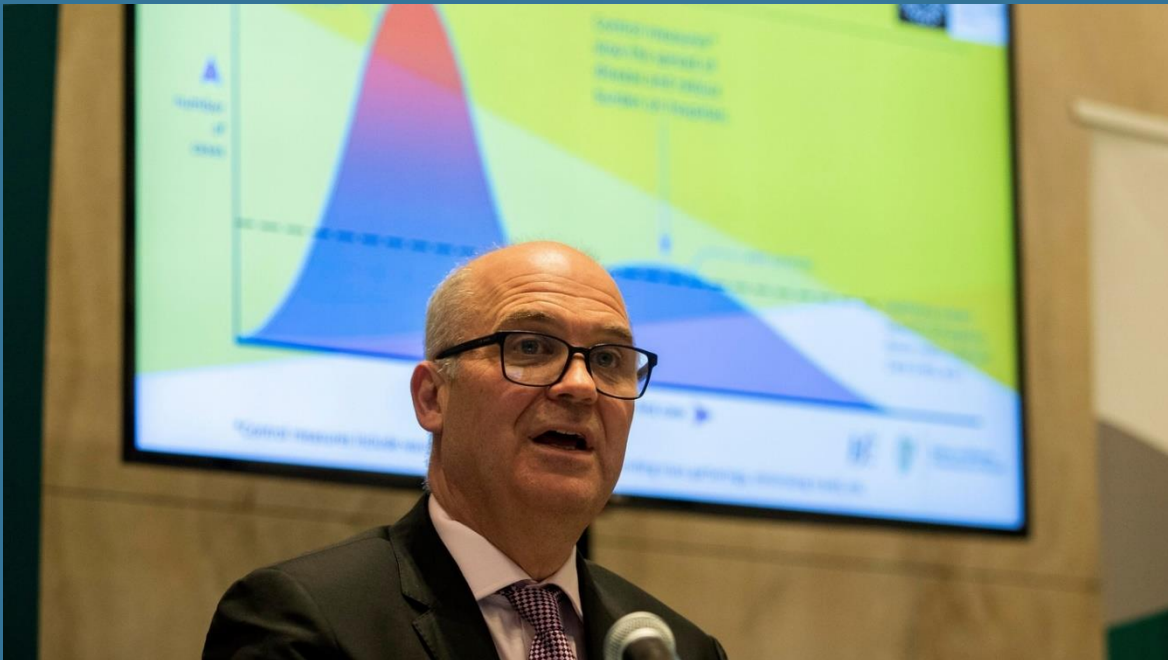
Statistics and Data Governance





Coronavirus **COVID-19**

▲ Public Health Advice



Dr. Tony Holohan – Chief Medical Officer (CMO)

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



An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil
Department of Housing, Planning and Local Government

Service Level Agreement



All-Island Research Observatory
An tIonad Breathnaithe um Thaighde Uile-Éireann

Memorandum of Understanding



Ordnance Survey
Ireland

Memorandum of Understanding



An Phríomh-Oifig Staidrimh

Central Statistics Office

Framework Agreement



esri Ireland
THE SCIENCE OF WHERE™



Rialtas na hÉireann
Government of Ireland

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

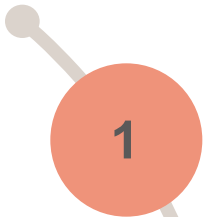
- To provide key data and tools to inform Ireland's operational intelligence and situational awareness efforts in response to the COVID-19 outbreak



Terms of Reference, March 2020

GeoHive Covid-19 Response Coordination Group

| | |
|------------------------------|--|
| Name | GeoHive Covid-19 Response Coordination Group |
| Membership | <p>The membership of this group consists of the following organisations:</p> <ul style="list-style-type: none"> • 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. <p>The associated levels of responsibility and accountability are defined in a separate RASCI matrix.</p> |
| Goals for the Group | <p>The goals for this group are to:</p> <ol style="list-style-type: none"> 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 | <p>The GH-COVID19-RCG meets on a daily basis with all meetings held using remote video/phone conferencing to maintain social distancing.</p> <p>The Group has established a:</p> <ul style="list-style-type: none"> • 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 | <p>A Terms of Reference (TOR), Data Governance and Stakeholder Relationship mapping is in place to manage the governance and co-ordination of the stakeholders involved and communication channels.</p> <p>A shared programme repository has been established.</p> |



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





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Government of Ireland



1

Ireland's COVID-19 Data Hub

National Statistics, Information

The information presented in this site is based on data from the Health Protection Surveillance Centre (HPSC) and the Health Service Executive (HSE). Data is updated in real time with newly published data. This site is built using

Confirmed Headline Figures

Click for more information

Total Confirmed Cases (HPSC...)

Total Deaths (HPSC)

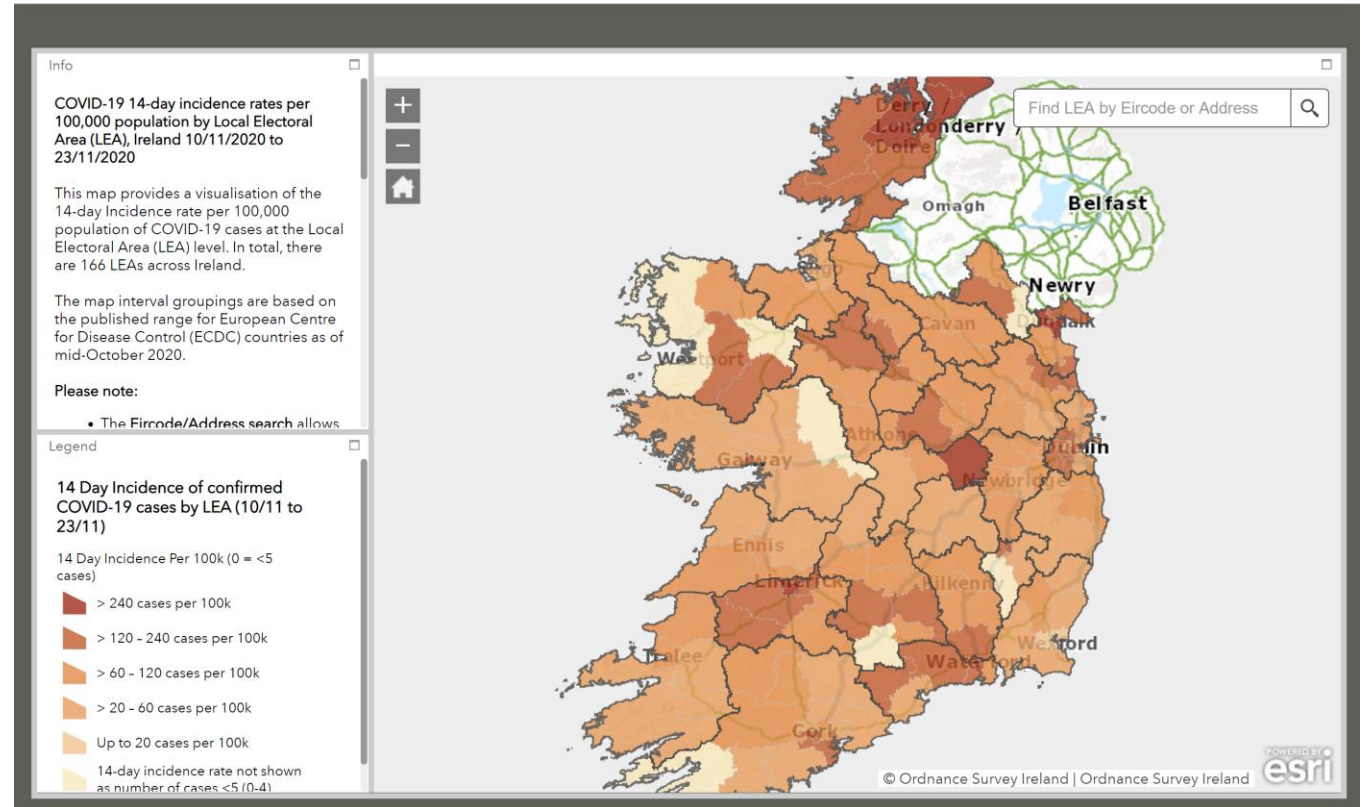
Latest Daily Cases (HPSC)

Latest Daily Deaths (HPSC)

The screenshot shows the Data.gov.ie website interface. At the top, there is a navigation bar with links for Home, Datasets, Publishers, Suggest Data, Showcases, Contact, About, and More. A search bar is located on the right side of the header. Below the header, a blue banner displays '10093 Datasets' and '117 Publishers'. The main content area features a yellow box titled 'COVID-19 Resources' with a sub-link 'COVID-19 DATA HUB & MORE'. Below this, there is a grid of 12 category tiles: 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; and Regions and Cities. At the bottom of the page, there is a blue footer with a mailing list subscription form.

2

Over
100
 million
 views since mid June



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



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



An Roinn Sláinte
 Department of Health





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

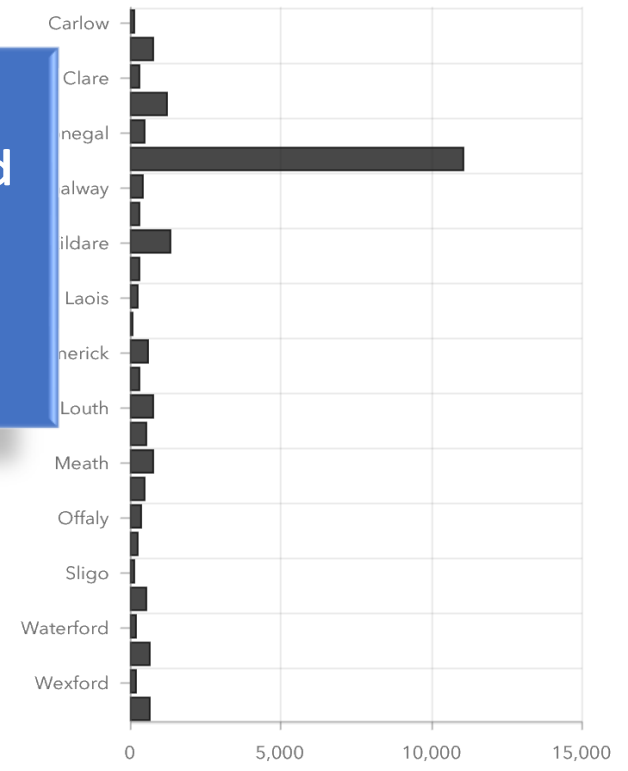
Publically available Health Surveillance Monitor Dashboard for the Department of Health. Updated daily.

Confirmed Cases: 08/05/2020



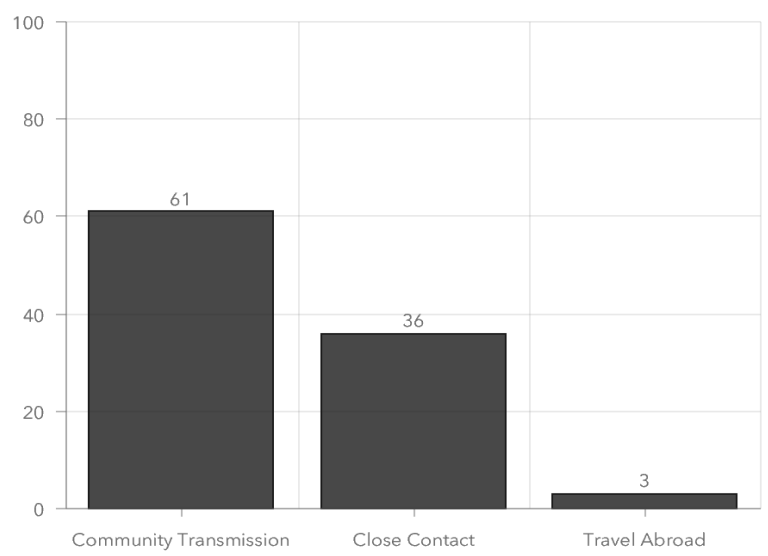
Total Confirmed Cases by County (08/05/2020)

To see more results, hover over the top right of this chart and click the expand icon.

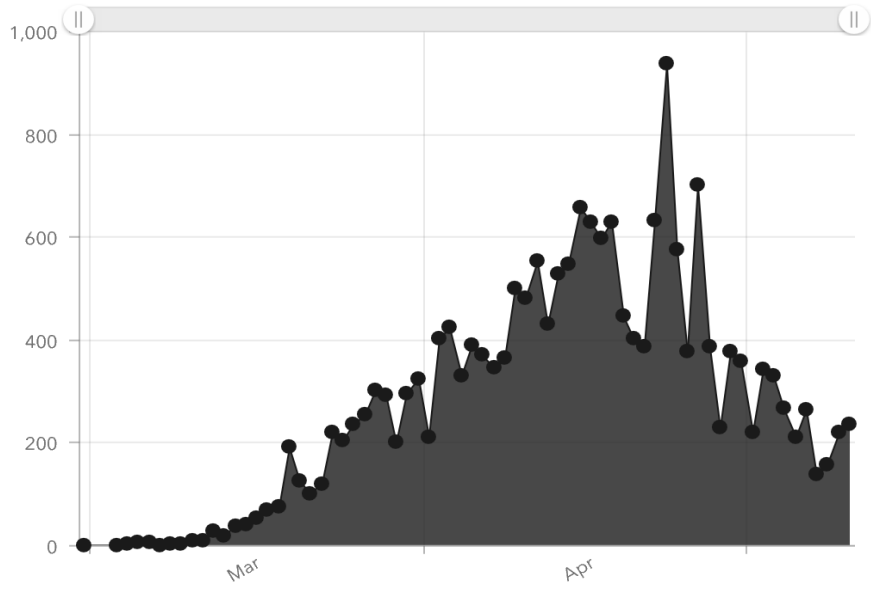


Points are representative of counties and not specific locations. Click on a point for county figures.

% Known Mode of Transmission (08/05/2020)



Transmission | Gender | Age Profile | Hospitalisation



Daily Confirmed Cases | Total Confirmed Cases | International Rates

County Stats | Global Stats | Advice and Sources



Rialtas na hÉireann
Government of Ireland





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 as of...

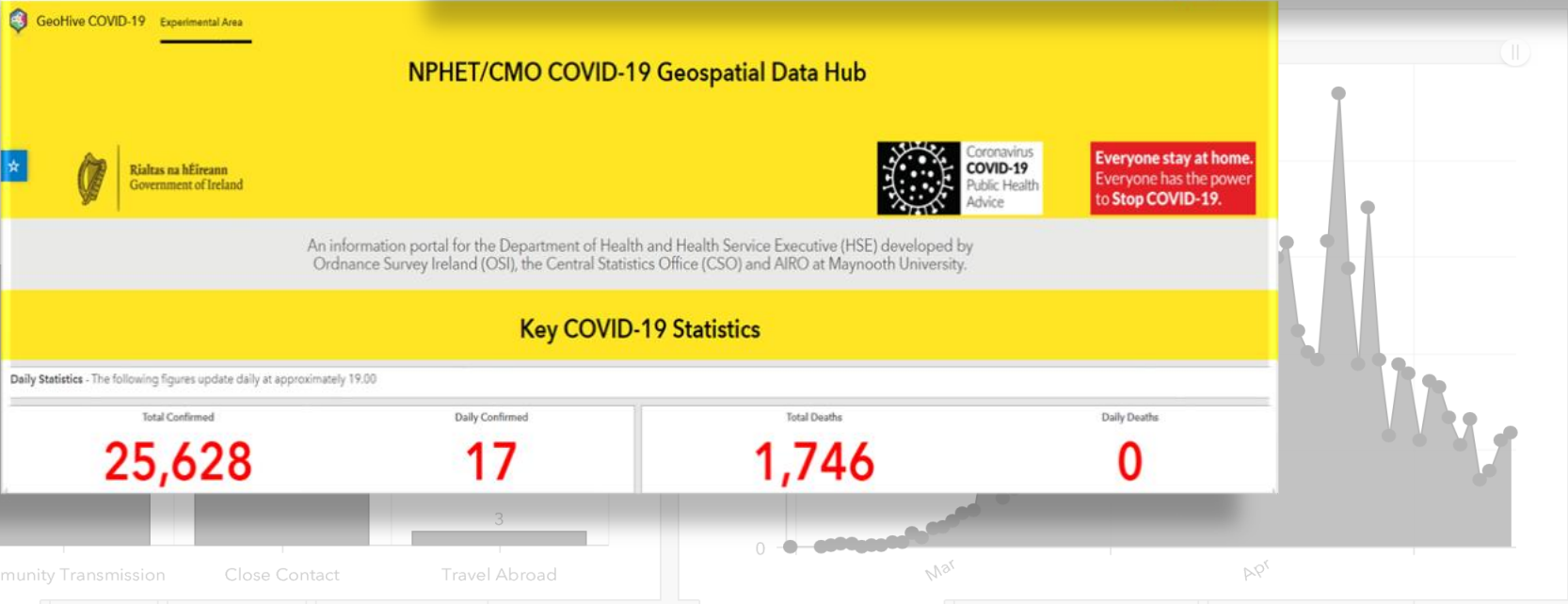
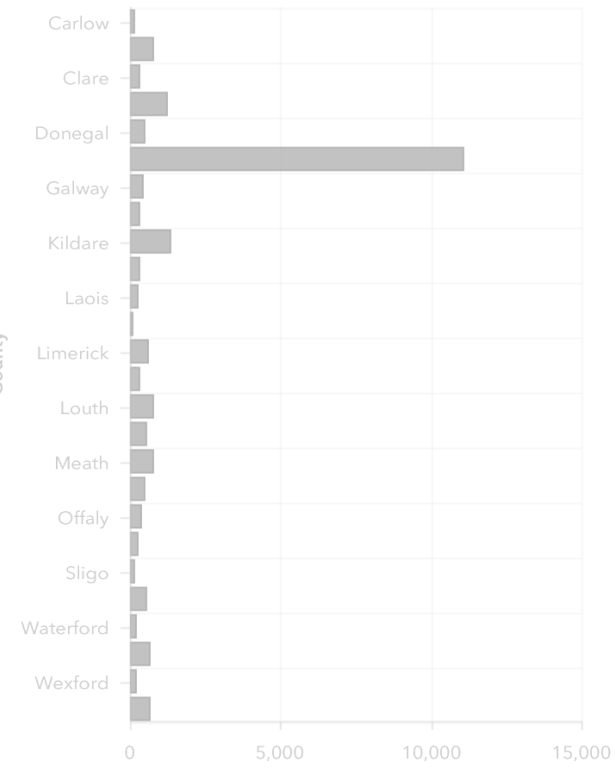
Confirmed Cases: 08/05/2020



National Public Health Emergency Team (NPHET) & Chief Medical Officer (CMO) COVID-19 Geospatial Data Hub.

Total Confirmed Cases by County (08/05/2020)

To see more results, hover over the top right of this chart and click the expand icon.



County Stats | Global Stats | Advice and Sources



Rialtas na hÉireann
Government of Ireland



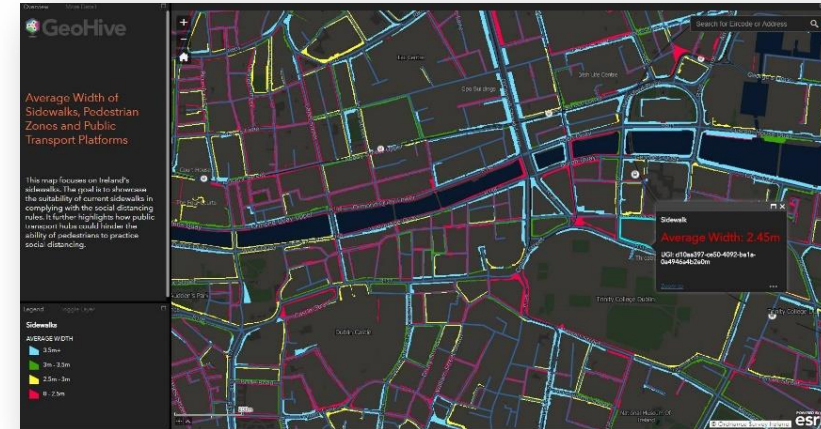
Transmission | Gender | Age Profile | Hospitalisation

Daily Confirmed Cases | Total Confirmed Cases | International Rates

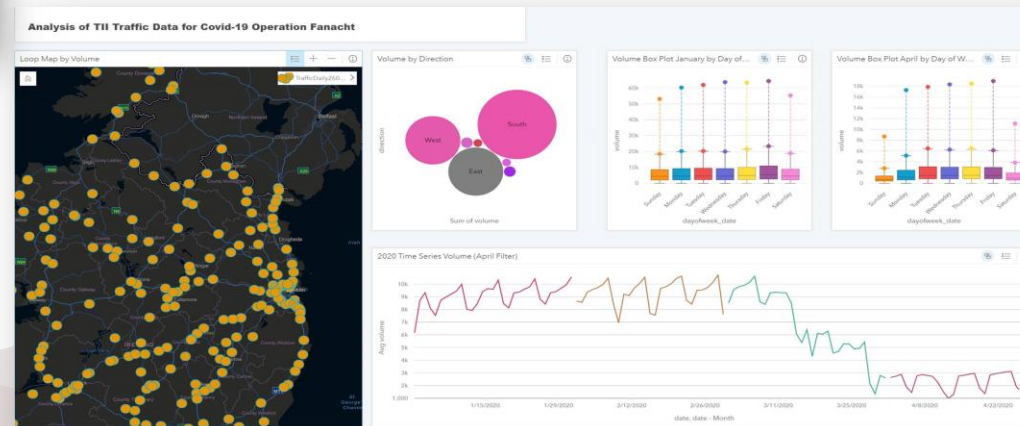
Local Authority Dashboards & An Garda Síochana Data Hub



Public and secure dashboards;
updated daily.
Publically available for use by all
Local Authorities with a daily data
supply.

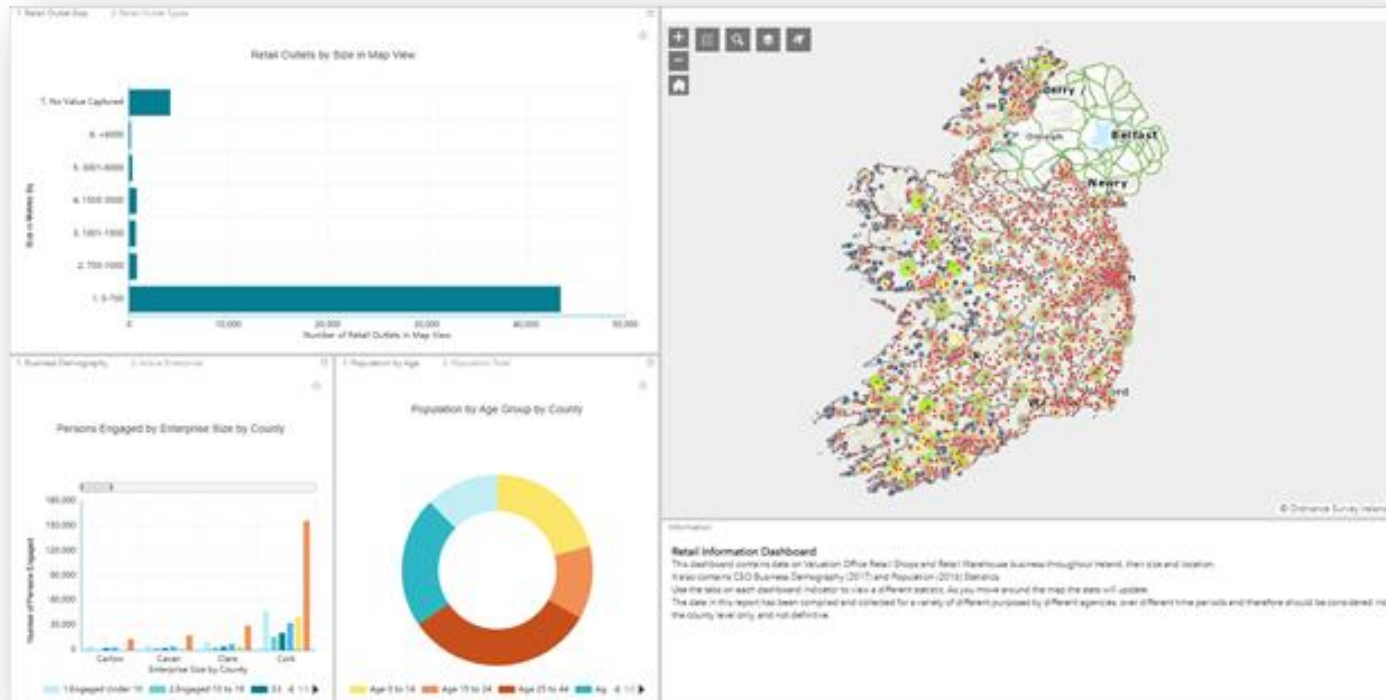


Pavement Width, Public Transport & Retails Locations



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

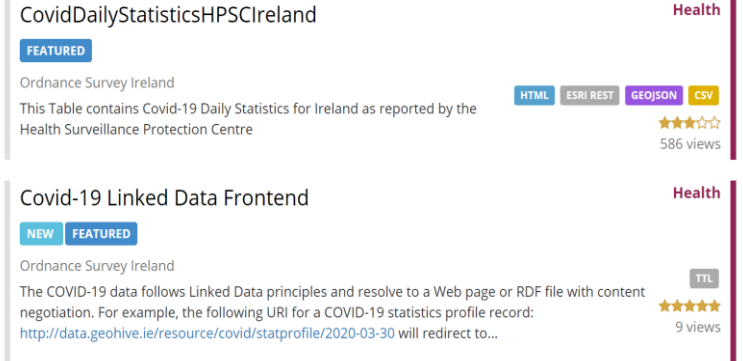
Dept. of An Taoiseach business dashboards / reports



Map-based dashboard and report that 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 |
|--|---|--|
| <p>Daily Open Data update to data.gov.ie as 3-star and 5-star linked open data.</p> <p>https://data.gov.ie/dataset?q=covid&sort=score+desc%2C+metadata_created+desc</p> |  <p>CovidDailyStatisticsHPSCIreland FEATURED Ordnance Survey Ireland This Table contains Covid-19 Daily Statistics for Ireland as reported by the Health Surveillance Protection Centre HTML ESRI REST GEOJSON CSV ★★★★☆ 586 views</p> <p>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... TTL ★★★★★ 9 views</p> | <p>Updated daily.</p> <p>Between 3k and 13k hits per day for the 6 services.</p> |



4

Panel Session

*Sharing on the Journey - Testimonials
from Publishers and re-Users*



Cianan Clancy
*Shipyards
Technology
Ventures*



Peggy Ryan
Tusla



Sheila Moore
Tusla



Liam O'Sullivan
Dublin Dashboard



Deirdre Lee
Derilinx



Hugh Mangan
*Business & Marketing
Manager of Ordnance
Survey Ireland (OSI)*

Outcomes4Children.tusla.ie

Outcomes for Children Data & Information Hub

Healthy

Achieving

Safe

Security

Connected

Demographics



An Roinn Leanaí agus Gnóthaí Oige
Department of Children and Youth Affairs



2020 Open Data Conference, 2nd December 2020
Open Data for a Data Driven Public Service Delivery
Peggy Ryan, Sheila Moore, Information Management, TUSLA WEST

Introduction & Background

In 2016 **TUSLA** and the **DCEDIY** agreed to the establishment of a new project
Outcomes for Children National Data & Information Hub

- This initiative arose out of Children & Families Services (*in the HSE*) involvement in the border areas of the NW and NE, in partnership with colleagues in NI on a cross-border Project – **CAWT** (2009-2011).
- This project is one of the initiatives of **TUSLA's National Prevention, Partnership and Family Support (PPFS) Programme**, building on the legacy experience and knowledge from Children & Families Services being involved in the **CAWT** project in border Areas during the years 2009 to 2011.
- Funding for this project was agreed and ring fenced through the **AP PPFS** grant and **DCEDIY/What Works** for product prototype development and a pilot to include (initially) 11 CYPSCs in Phase 1.
- Ongoing independent evaluation was conducted throughout Phase I via NUIG, Child & Family Research Centre.
- The Outcomes for Children Data & Information Hub is now live at outcomes4children.tusla.ie and continues to be supported by TUSLA and DCEDIY for sustainability.

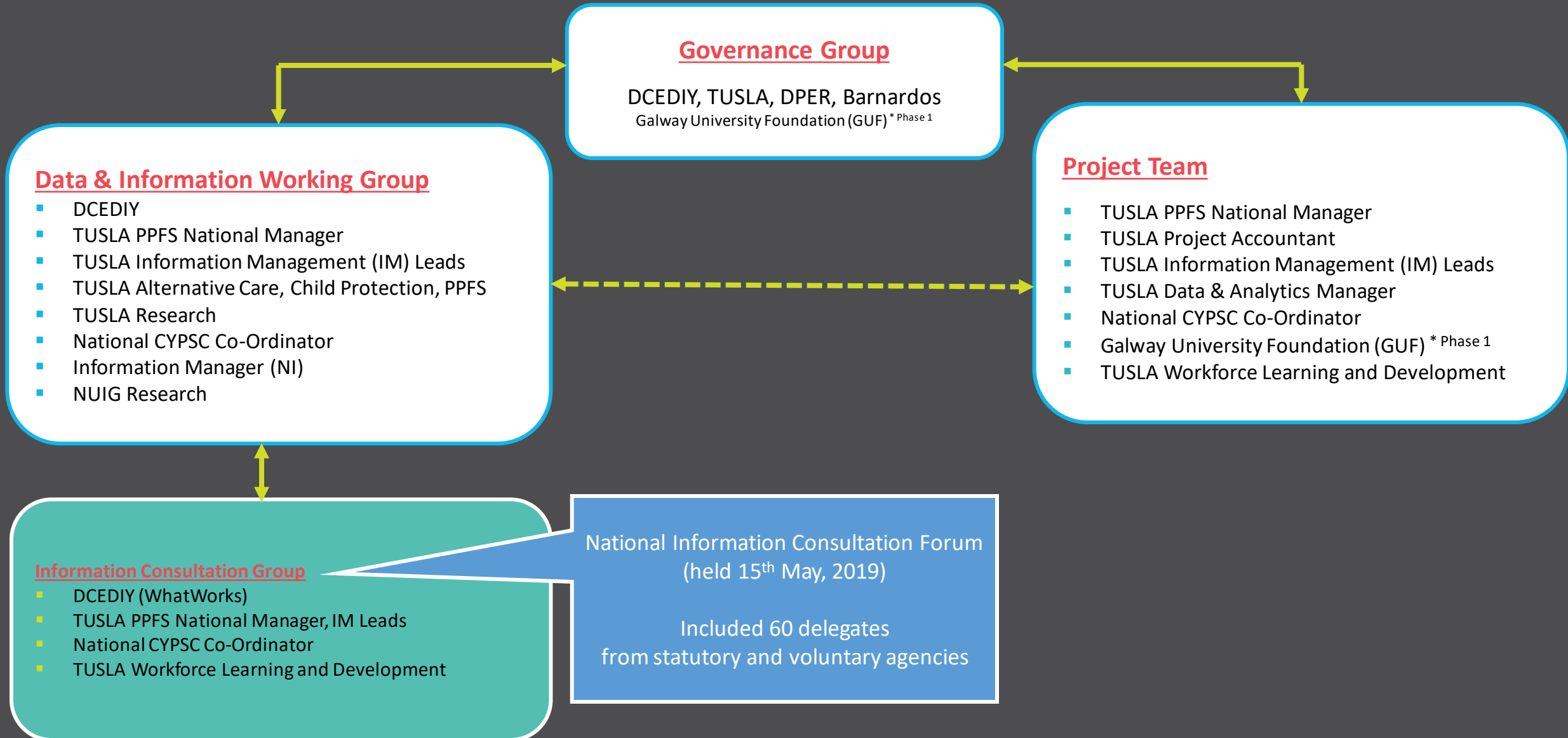
Aims & Objectives

Outcomes for Children National Data & Information Hub

- Incrementally build one centralised national Data Hub that will host a wide range of published data from various agencies involved in the provision of services to Children, Young People and Families.
- Agree a set of indicators referencing the published national set of indicators (*DCYA*), framed against the five national outcomes **Better Outcomes, Brighter Futures (BOBF)**.
- Use validated and quality assured datasets from the agencies to populate the agreed indicator set.
- Train and support both TUSLA personnel and relevant **CYPSC** partners at national and local level in the use and application of the system to underpin and optimise children's services planning.
- Inform the enhancement of both quantitative and qualitative data collection to support TUSLA and the DCEDIY research agendas and meet corporate objectives regarding capacity as a learning organisation.
- Utilise relevant published datasets from the Open Data platform.
- Underpinning the development of the Hub, the principles of **Outcomes Based Accountability (OBA/RBA)** methodology (training delivered to CYPSC 2018)

Project Structure

Outcomes for Children National Data & Information Hub



Outcomes4Children Data & Information Hub

Building CYPSC Profiles Using O4C Hub

TUSLA An Ghníomhaireacht um Leanaí agus an Teaghlach
Child and Family Agency

An Roinn Leanaí agus Gendhal Oige
Department of Children and Youth Affairs

CYPSC CHILDREN & YOUNG PEOPLE'S SERVICES COMMITTEES

WHAT WORKS SHARING KNOWLEDGE Inspiring Children's Futures

HOME HEALTHY ACHIEVING SAFE ECONOMIC CONNECTED DEMOGRAPHICS RE

Active & Healthy

The aims are that all children and young people are physically healthy and able to make positive health choices, have good mental health, have a positive and respectful approach to relationships and sexual health, and that their lives are enriched through the enjoyment of play, recreation, sports, arts, culture and nature.

LEARN MORE

Data & Information Hub

In 2016 TUSLA and the DCYA agreed to establish a new project 'Outcomes for Children National Data & Information Hub' – offering a sustainable opportunity to provide a national standardised technical solution for mapping outcomes and indicators for children and young people.

This hub provides one centralised platform hosting an agreed set of indicators sourced from relevant published reports. A quick reference guide to assist in the navigation of the hub and the inventory of current indicators is available [here](#).

The hub will be continually updated as and when the relevant published reports become available.



Mayo Children and Young People's Services Committee was established in 2015 and draws its membership from the main statutory, community and voluntary providers of services to children and young people in County Mayo. While the Department of Children and Youth Affairs (DCYA) provides the policy lead for CYPSC nationally, strategic leadership here in Mayo is provided by the Tusla Area Manager and Chairperson of Mayo Children and Young People's Services Committee

Demographics

Choose Data

Theme
Population

Under 18

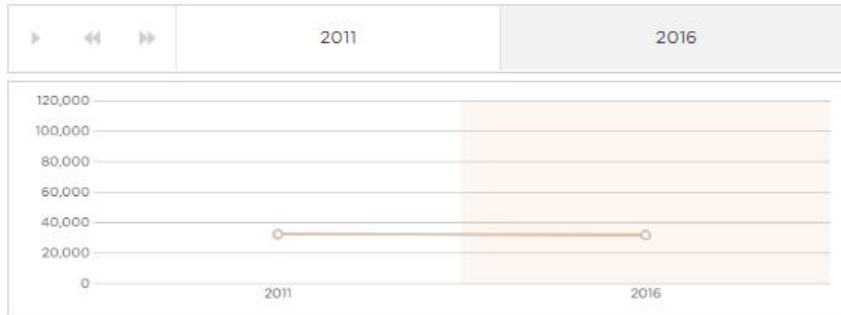
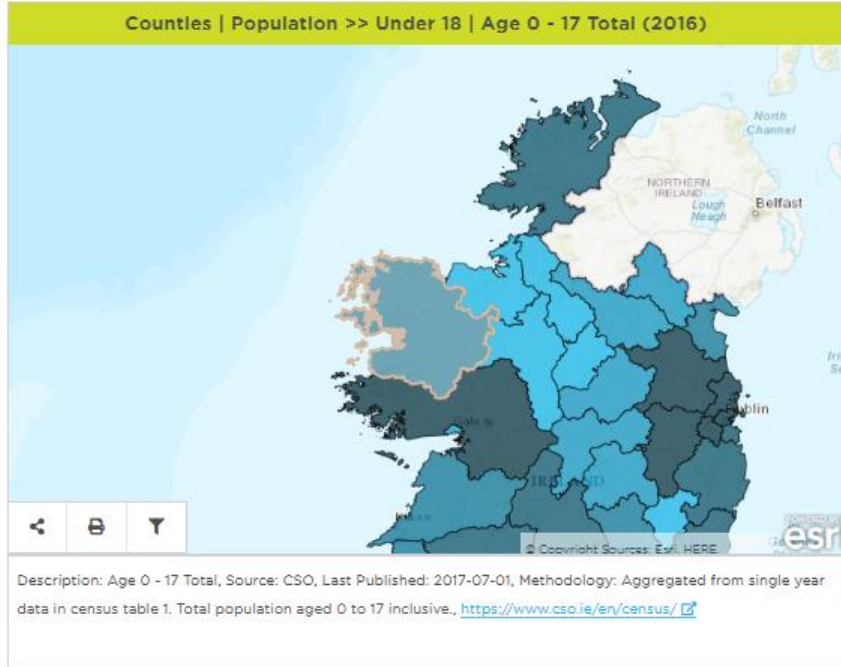
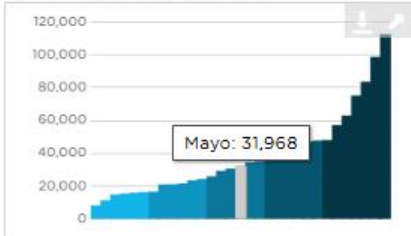
Indicator
Age 0 - 17 Total

Geography
Counties

Counties

- 8,051 - 16,357
- > 16,357 - 25,387
- > 25,387 - 37,402
- > 37,402 - 48,026
- > 48,026 - 112,425

Counties (overlay)



| Counties | Age 0 - 17 Total (2016) |
|---------------------------|-------------------------|
| Limerick City and County | 47,090 |
| Longford | 11,218 |
| Louth | 35,046 |
| Mayo | 31,968 |
| Meath | 57,134 |
| Monaghan | 16,564 |
| Offaly | 21,127 |
| Roscommon | 16,305 |
| Sligo | 15,961 |
| South Dublin | 75,106 |
| Tipperary | 40,764 |
| Waterford City and County | 29,347 |
| Westmeath | 23,584 |
| Wexford | 39,166 |
| Wicklow | 38,041 |

Clear x Filter x

Regional & National Data

| | |
|---------|-----------|
| Ireland | 1,190,502 |
|---------|-----------|

Demographics | Population, Under 18 Years

Demographics

Choose Data

Theme
Population

Indicator
0 - 24

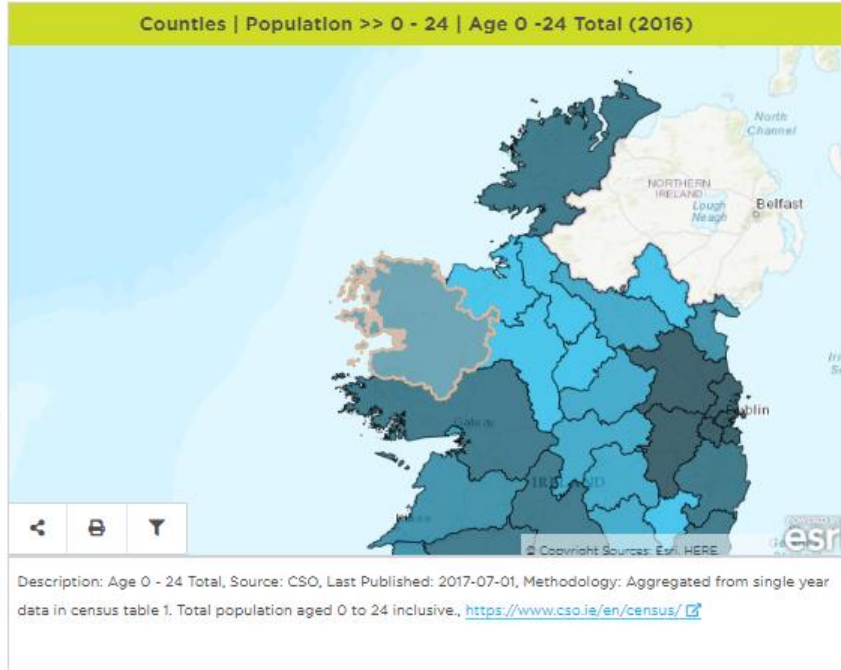
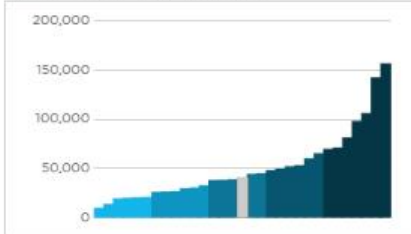
Indicator
Age 0 -24 Total

Geography
Counties

Counties

- 10,097 - 25,839
- > 25,839 - 37,840
- > 37,840 - 48,152
- > 48,152 - 67,244
- > 67,244 - 156,649

Counties (overlay)



| Counties | Age 0 -24 Total (2016) |
|---------------------------|------------------------|
| Limerick City and County | 65,428 |
| Longford | 14,065 |
| Louth | 45,291 |
| Mayo | 40,691 |
| Meath | 71,297 |
| Monaghan | 20,950 |
| Offaly | 27,085 |
| Roscommon | 20,419 |
| Sligo | 21,330 |
| South Dublin | 98,235 |
| Tipperary | 52,341 |
| Waterford City and County | 38,345 |
| Westmeath | 30,771 |
| Wexford | 49,898 |
| Wicklow | 48,463 |

Clear x Filter x

Regional & National Data

| | |
|---------|-----------|
| Ireland | 1,583,004 |
|---------|-----------|

Demographics | Population, 0-24 Years



Demographics

Choose Data

Theme
Registered Births by Mothers Age

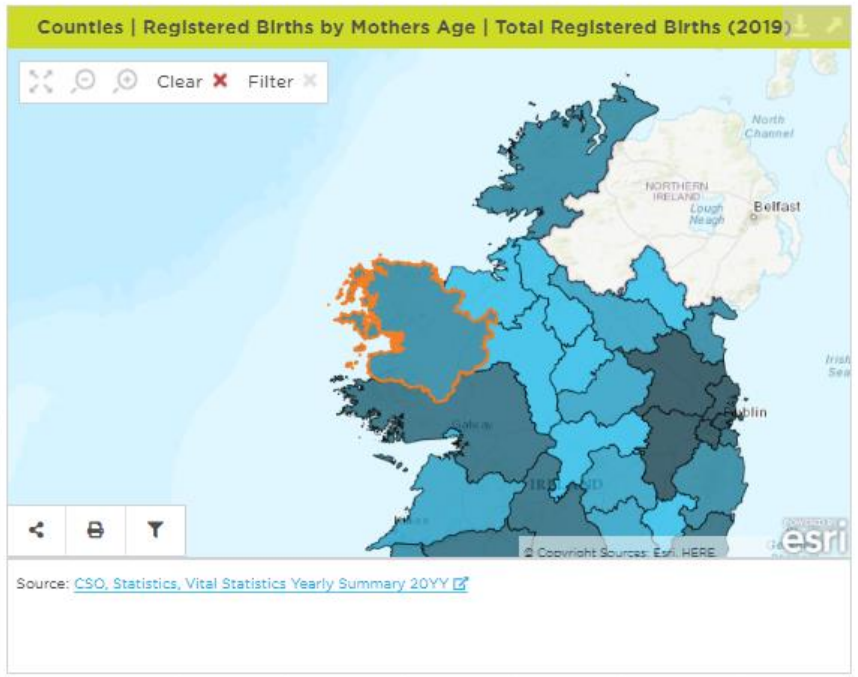
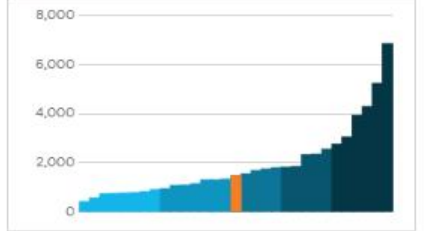
Indicator
Total Registered Births

Geography
Counties

Counties

- 399 - 924
- > 924 - 1,353
- > 1,353 - 1,819
- > 1,819 - 2,752
- > 2,752 - 7,828

Counties (overlay)



| Counties | Total Registered Births (2019) |
|---------------------------|--------------------------------|
| Limerick City and County | 2,366 |
| Longford | 586 |
| Louth | 1,700 |
| Mayo | 1,481 |
| Meath | 2,771 |
| Monaghan | 785 |
| Offaly | 924 |
| Roscommon | 804 |
| Sligo | 768 |
| South Dublin | 3,949 |
| Tipperary | 1,864 |
| Waterford City and County | 1,353 |
| Westmeath | 1,164 |
| Wexford | 1,835 |
| Wicklow | 1,769 |

Regional & National Data

| | |
|---------|--------|
| Ireland | 59,796 |
|---------|--------|

Demographics | Registered Births

Economic security and opportunity

Choose Data

Theme
Deprivation

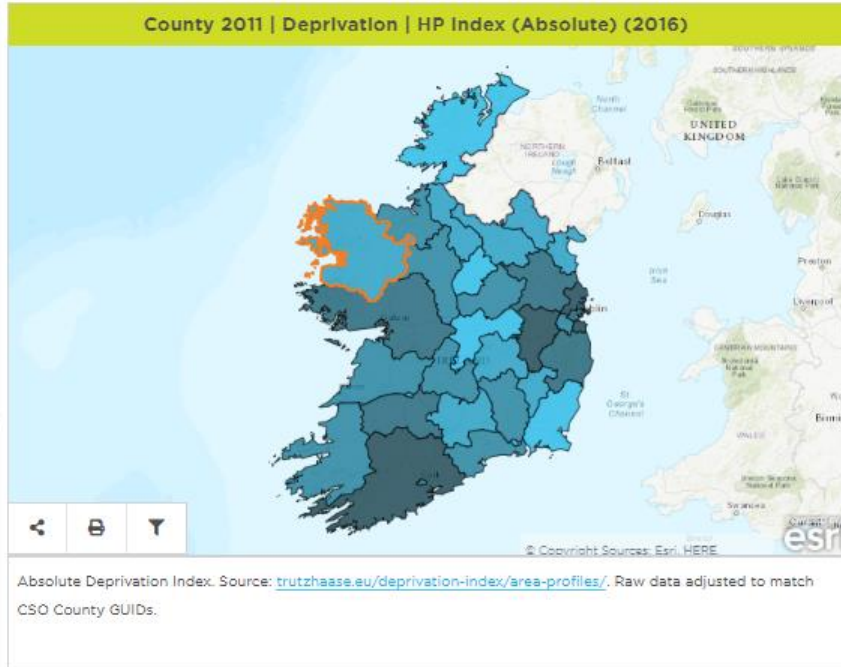
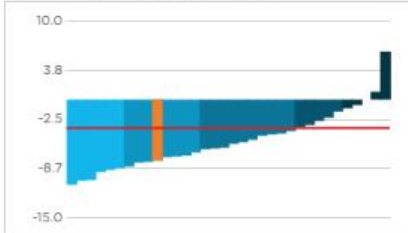
Indicator
HP Index (Absolute)

Geography
County 2011

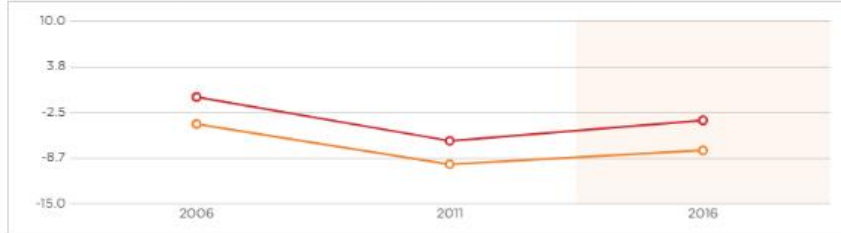
County 2011

- 12.8 - -8.7
- > -8.7 - -6.5
- > -6.5 - -3.9
- > -3.9 - -1.2
- > -1.2 - 7.8

Counties (overlay)



2006 2011 2016



| County 2011 | HP Index (Absolute) (2016) |
|------------------|----------------------------|
| Louth | -7.2 |
| Mayo | -7.7 |
| Meath | -2.3 |
| Monaghan | -7.3 |
| North Tipperary | -6.1 |
| Offaly | -8.7 |
| Roscommon | -6.3 |
| Sligo | -5.6 |
| South Dublin | -4.0 |
| South Tipperary | -8.5 |
| Waterford City | -9.2 |
| Waterford County | -4.6 |
| Westmeath | -6.2 |
| Wexford | -8.9 |
| Wicklow | -2.7 |

Clear x Filter x

Regional & National Data

| | |
|---------|------|
| Ireland | -3.6 |
|---------|------|

Economic Security and Opportunity | Deprivation



Safe and protected from harm

Choose Data

Theme
 Total Number of Child Referrals

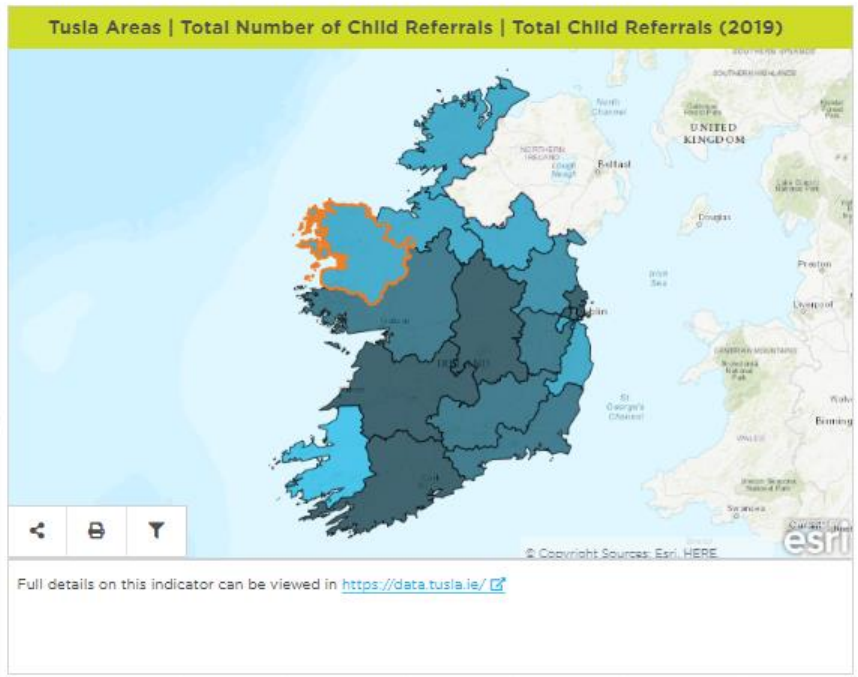
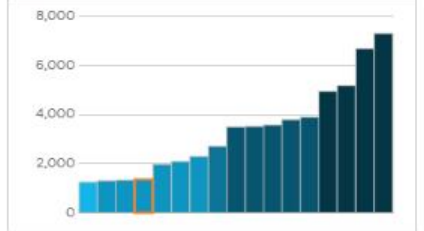
Indicator
 Total Child Referrals

Geography
 Tusla Areas

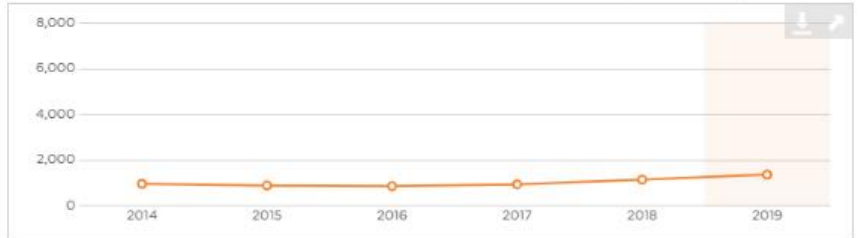
Tusla Areas

- 771 - 1,257
- > 1,257 - 2,299
- > 2,299 - 3,296
- > 3,296 - 4,070
- > 4,070 - 7,370

Counties (overlay)



2014 2015 2016 2017 2018 2019



| Tusla Areas | Total Child Referrals (2019) |
|--|------------------------------|
| Carlow/Kilkenny/South Tipperary | 3,781 |
| Cavan/Monaghan | 1,970 |
| Cork | 7,287 |
| Donegal | 1,324 |
| Dublin North | 5,165 |
| Dublin North City | 3,489 |
| Dublin South Central | 2,083 |
| Dublin South East/Wicklow | 2,294 |
| Dublin South West/Kildare/West Wicklow | 3,881 |
| Galway/Roscommon | 3,567 |
| Kerry | 1,249 |
| Louth/Meath | 2,708 |
| Mayo | 1,362 |
| Mid West | 4,931 |

Clear x Filter x

Regional & National Data

| | |
|---------------------|--------|
| Ireland | 56,561 |
| West | 12,484 |
| South | 15,821 |
| Dublin North East | 13,332 |
| Dublin Mid Leinster | 14,924 |

Safe and Protected from Harm | Total Number of Child Referrals

Active & Healthy

Choose Data

Theme
 Immunisation Uptake

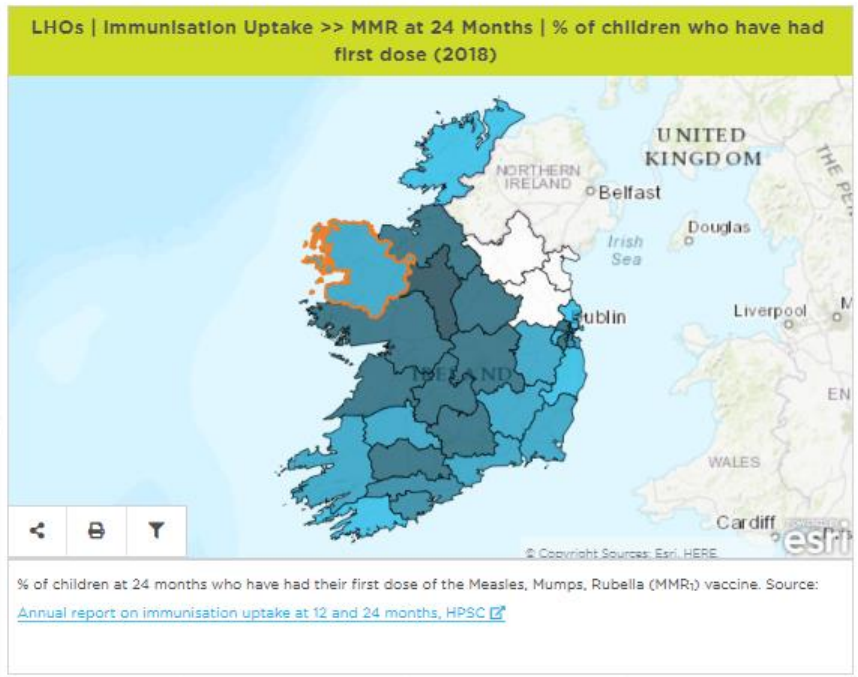
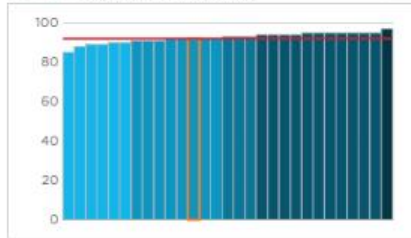
Indicator
 MMR at 24 Months

Indicator
 % of children who have had first dose

Geography
 LHOs

LHOs

- 85 - 90
- > 90 - 92
- > 92 - 93
- > 93 - 95
- > 95 - 97
- No Data



2016 2017 2018



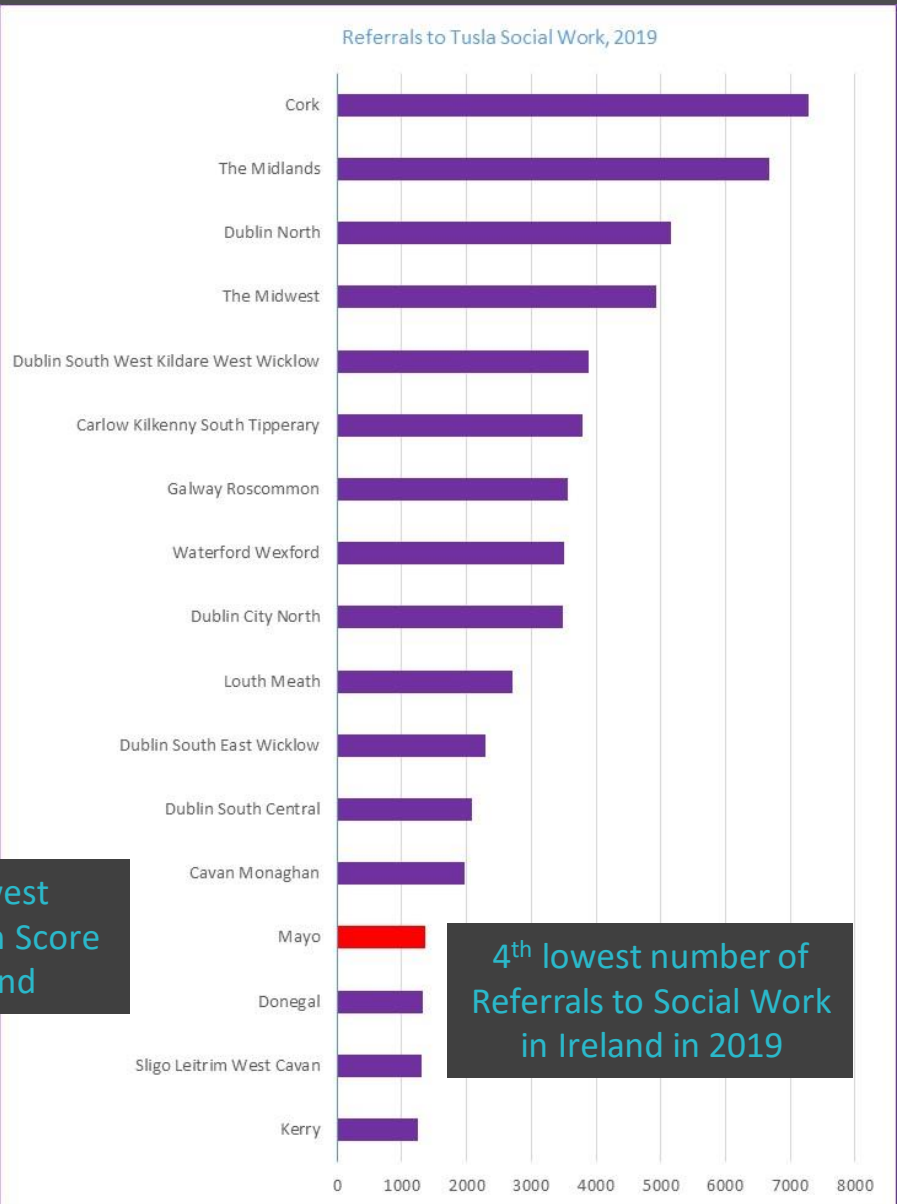
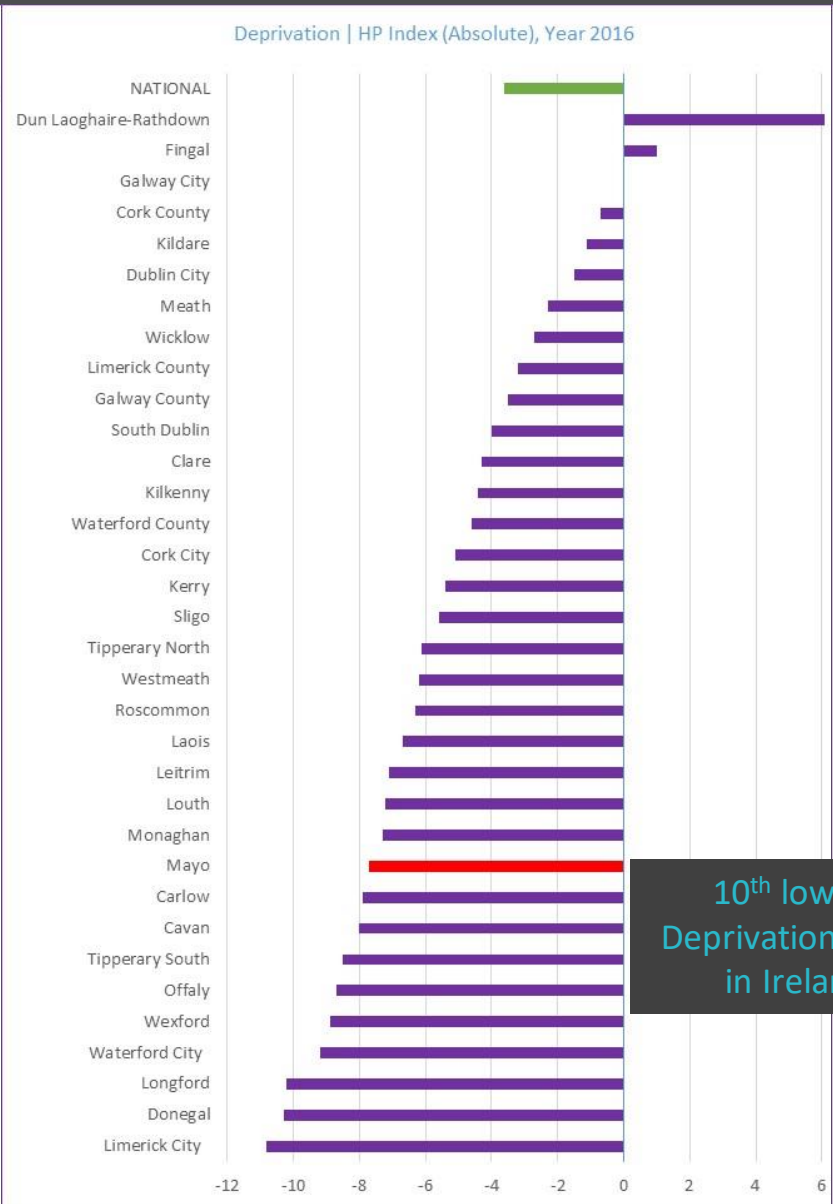
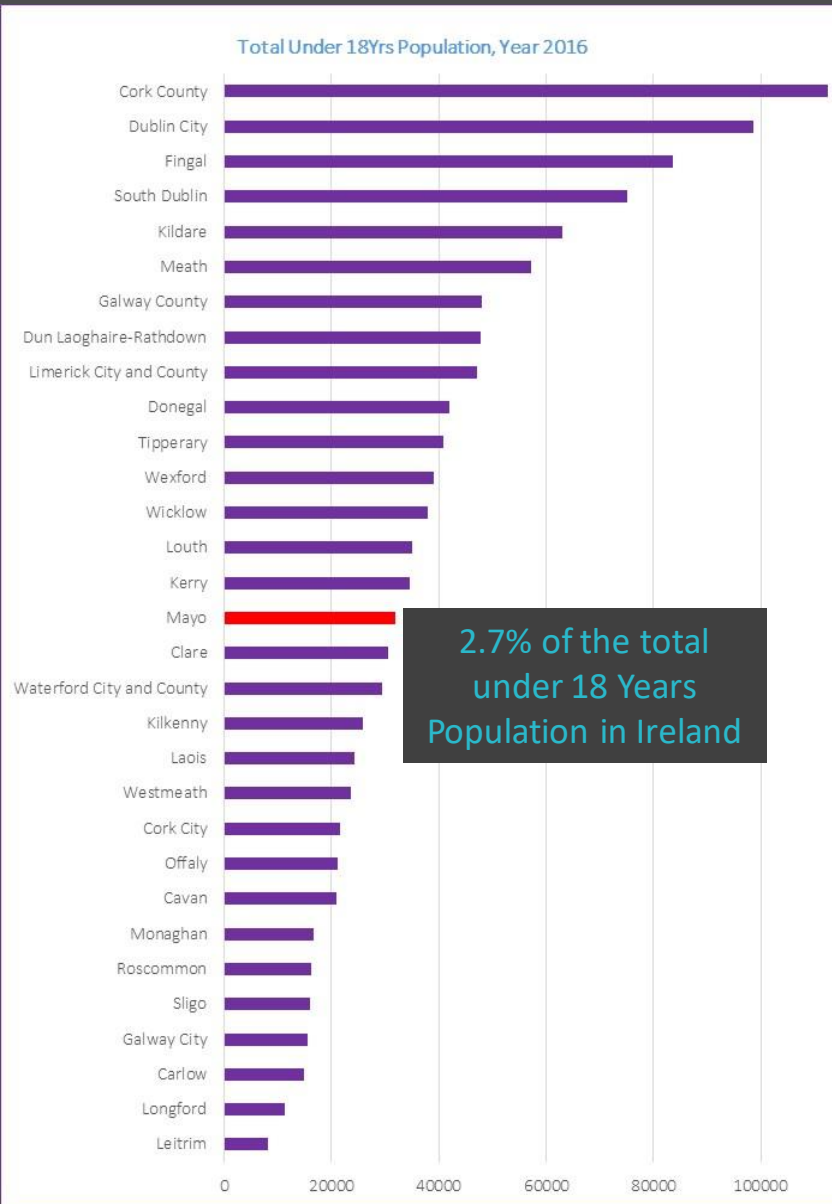
| LHOs | % of children who have had first dose (2018) |
|------------------------|--|
| Louth | No Data |
| Mayo | 92 |
| Meath | No Data |
| North Cork LHO | 94 |
| North Lee | 93 |
| Roscommon | 97 |
| Sligo/Leitrim/West Cav | 95 |
| South Lee | 93 |
| Tipp/East Limerick | 95 |
| Tipperary South | 94 |
| Waterford | 91 |
| West Cork | 90 |
| Wexford | 92 |
| Wicklow | 85 |

Clear x Filter x

Regional & National Data

| | |
|---------|----|
| Ireland | 92 |
|---------|----|

Active & Healthy | Immunisation Uptake





Demographics

Choose Data

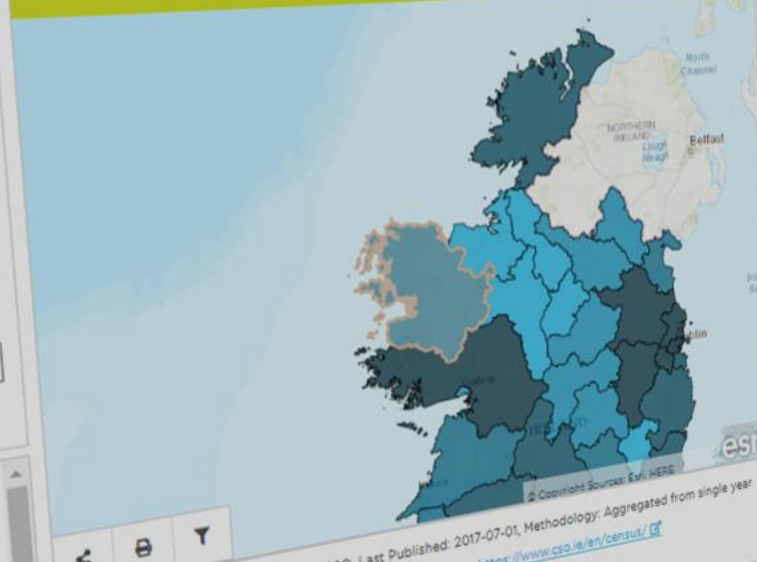
Theme: Population

Under 18

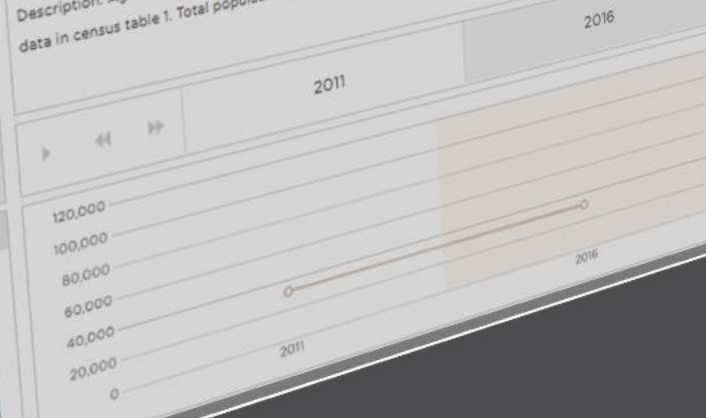
Indicator: Age 0 - 17 Total

Geography: Counties

Counties | Population >> Under 18 | Age 0 - 17 Total (2016)



Description: Age 0 - 17 Total, Source: CSO, Last Published: 2017-07-01, Methodology: Aggregated from single year data in census table 1, Total population aged 0 to 17 inclusive. <https://www.cso.ie/en/census/>



| Counties | Age 0 - 17 Total (2016) |
|---------------------------|-------------------------|
| Limerick City and County | 47,090 |
| Longford | 11,218 |
| Louth | 35,046 |
| Mayo | 31,968 |
| Meath | 57,134 |
| Monaghan | 16,564 |
| Offaly | 21,127 |
| Roscommon | 16,305 |
| Sligo | 15,961 |
| South Dublin | 75,106 |
| Tipperary | 40,764 |
| Waterford City and County | 29,347 |
| Westmeath | 23,584 |
| Wexford | 38,166 |
| Wicklow | 38,041 |

Clear Filter

Regional & National Data

| | |
|---------|-----------|
| Ireland | 1,190,502 |
|---------|-----------|

Backend Data Load

- (i) Manual Load from published documentation via .csv files
- (ii) Automated Load via Open Data Platform (available datasets)



Outcomes4Children.tusla.ie

Outcomes4Children Data & Information Hub

Healthy

Achieving

Safe

Security

Connected

Demographics

TUSLA

An Ghníomhaireacht um
Leanaí agus an Teaghlach
Child and Family Agency



An Roinn Leanaí
agus Gnóthaí Óige
Department of Children
and Youth Affairs



CHILDREN & YOUNG PEOPLE'S SERVICES COMMITTEES

WHAT WORKS

SHARING KNOWLEDGE
Improving Children's Futures

Thank You



Building City Dashboards Project: The Dublin Dashboard

Liam O'Sullivan
Senior Software Developer

Building
City
Dashboards



The BCD Project

Funded by SFI for 4 years

Fundamental and applied research

Open science, open source, open data

Usable by experts and novices

Increase data literacy and outreach

Work with stakeholders:

- Four Dublin local authorities

- Two Cork local authorities

- Central Statistics Office

- Ordnance Survey Ireland

How can we build more extensive and effective city dashboards?

- Data issues

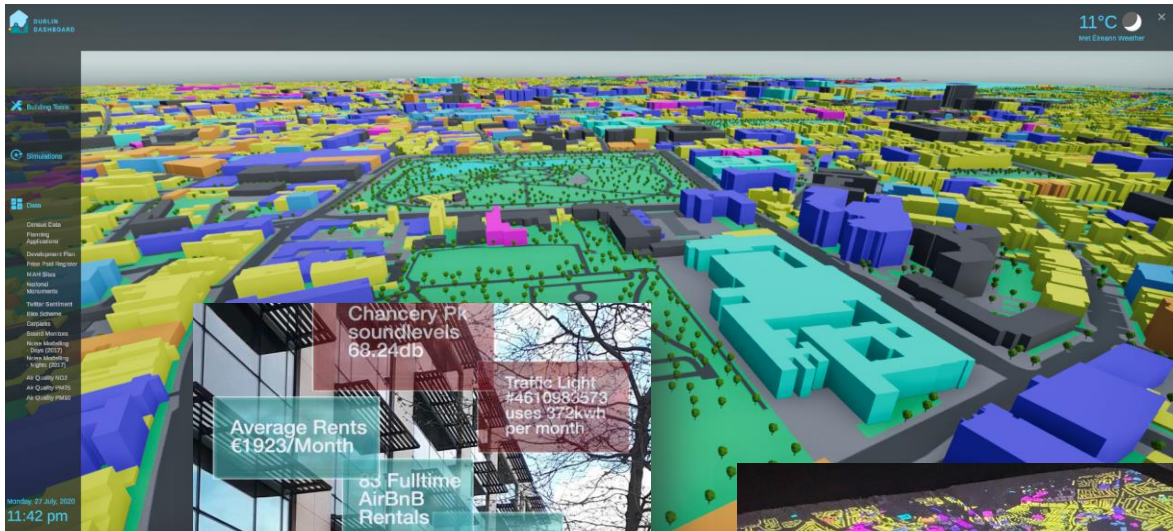
- Visualization and interaction issues

- Design, navigation and comprehension issues

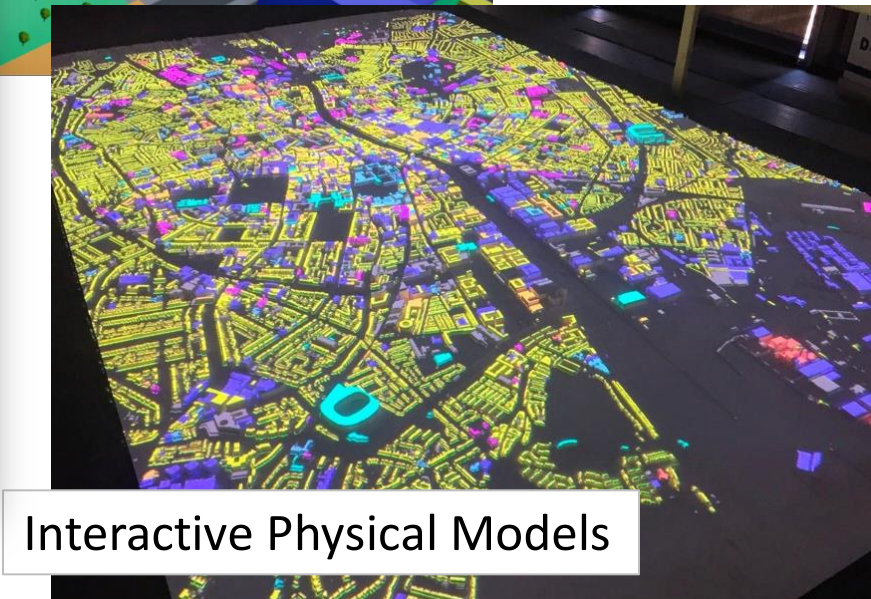
- Analytics and modelling issues



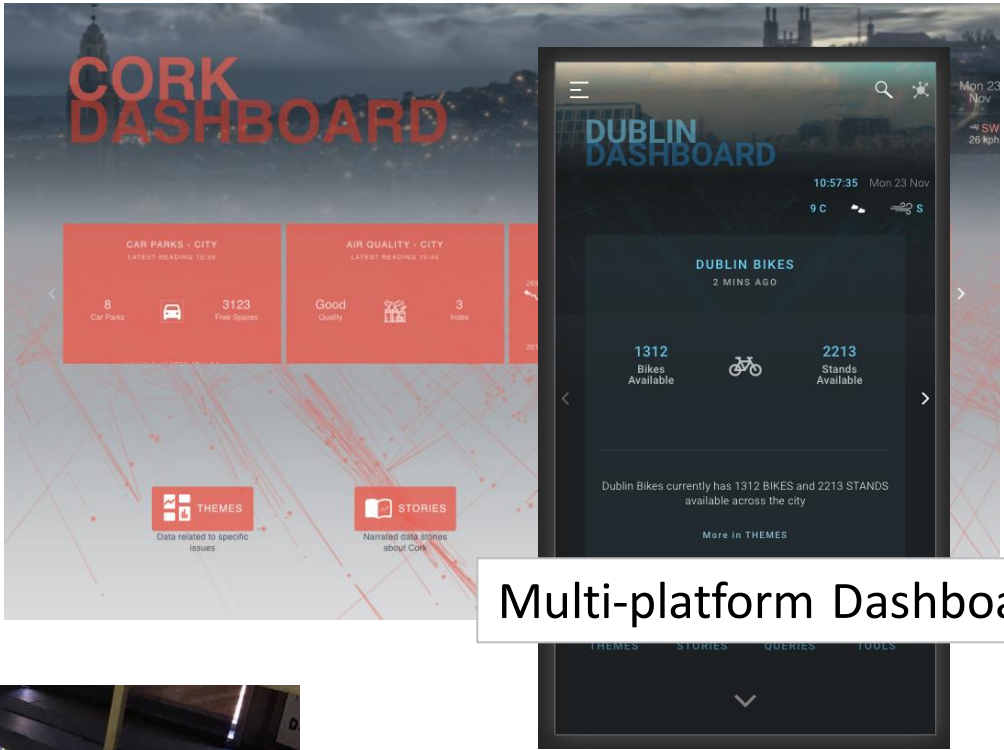
Technological Outputs



3D & Mixed Reality



Interactive Physical Models



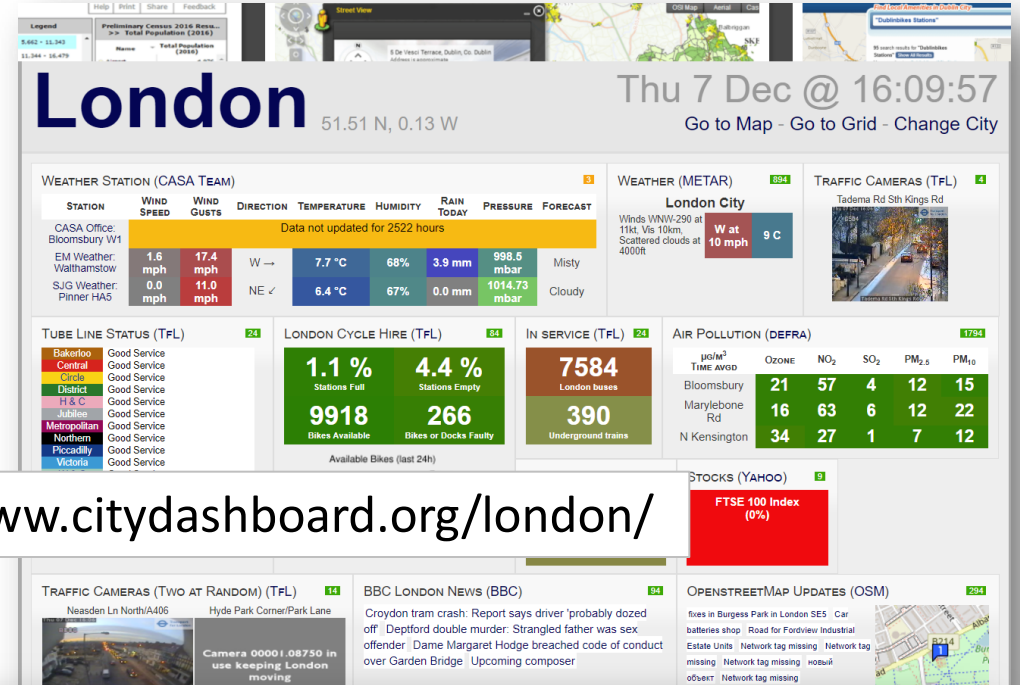
Multi-platform Dashboards



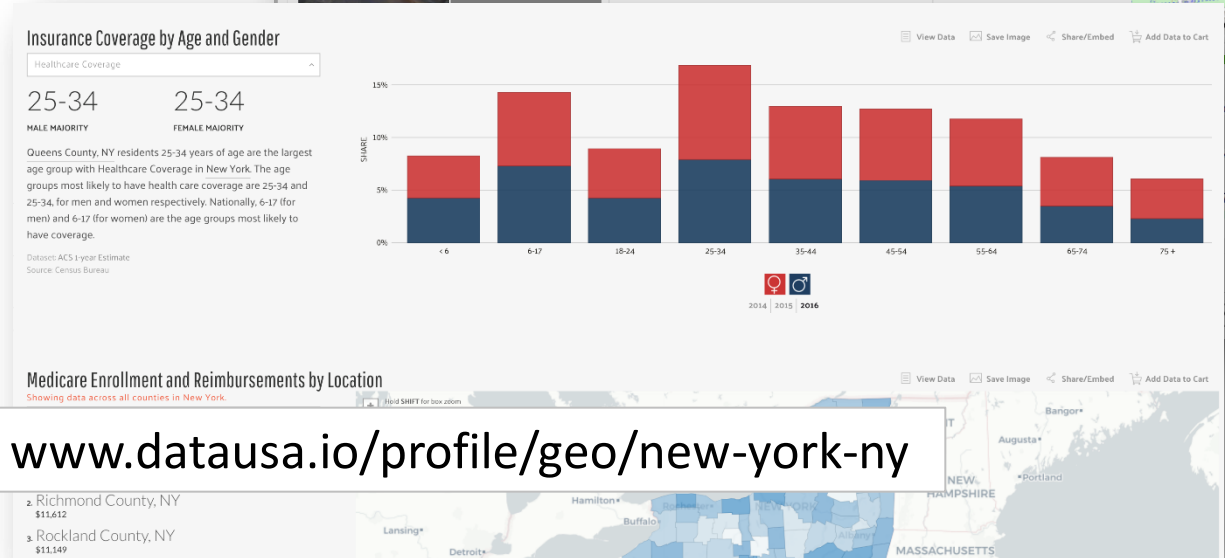
Artistic Interpretations



What is a city dashboard?



www.citydashboard.org/london/

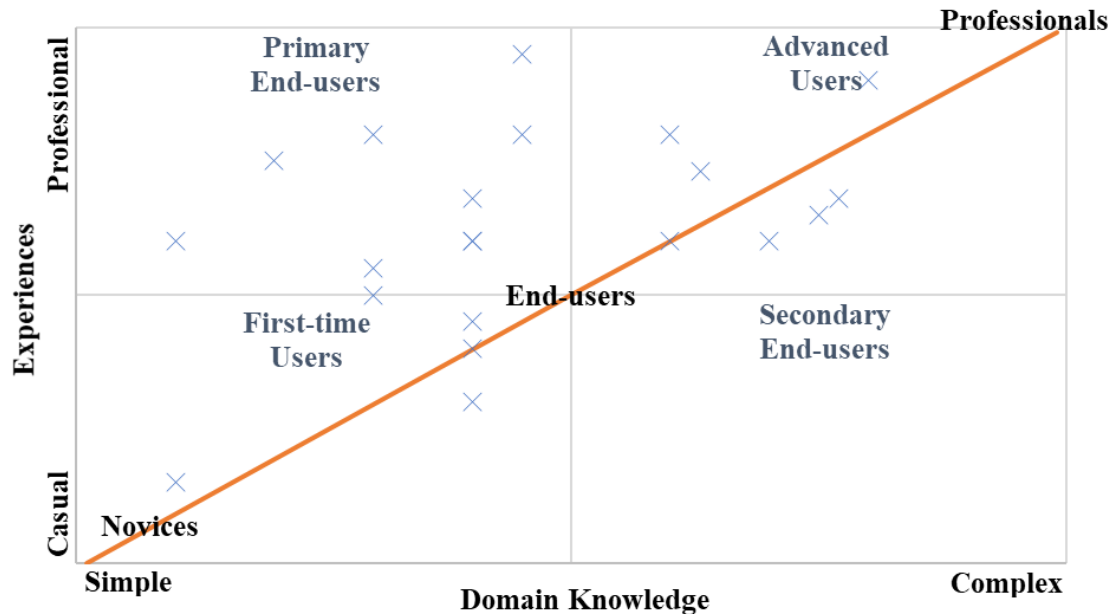


www.datausa.io/profile/geo/new-york-ny



User Research (Dr. Gareth Young)

What are the central dimensions that are relevant for the creation of a quality city dashboard?



| | | | | | |
|------------------|--------------------|-----|--|--|-----|
| Advanced User | Website Design | 22% | | | 23% |
| | Data Visualisation | 27% | | | 28% |
| | Dashboard Content | 7% | | | 23% |
| Primary End User | Website Design | 28% | | | 34% |
| | Data Visualisation | 32% | | | 42% |
| | Dashboard Content | 7% | | | 23% |
| Novice | Website Design | 31% | | | 24% |
| | Data Visualisation | 38% | | | 21% |
| | Dashboard Content | 7% | | | 13% |

■ Negative
 ■ Neutral
 ■ Positive



User Personas

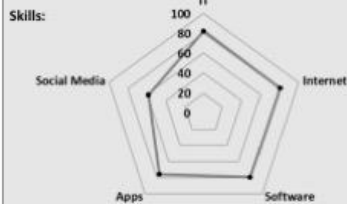


Chris Martin "The Prof"

Age: 45 - 54
Occupation: Consultant
Education: BSocSc (Social Sciences)
Expertise: City Management
Family Status: Married / 2 Children
Location: Dun Laoghaire
Challenges: Long-sighted / Impatient
Interests: Digital Technology

Locations: Office / Hotel
Operating System: macOS
Platform Types: iMac / MacBook

User-Group Type: Expert
Dashboard Experience: Professional
Domain Knowledge: Complex



Experience

Chris uses city dashboards informed and therefore usability of the data he new projects and plans he can access to diversify he can manipulate the

- Referrer: Personal
- Introduction touchpoint

Interacting

Chris accesses multiple sometimes when travel able to view and compare as being able to explore made available, often

Typical Tasks

Chris typically needs to upon high impact projects. He is familiar with multiple data comparisons cities in his country which isn't really facilitate be able to create and convey his findings

Chris' Story

Chris considers himself a domain expert. Chris' knowledge efficiently, in terms of rapid response expects to be able to carrying out tasks that can be executed at a specific data resource professional present



Jane Quinn "Science Nerd"

Age: 34 - 44
Occupation: Technical
Education: Master's Degree
Expertise: Sociology
Family Status: Living with Partner & Baby
Location: Greenhills
Challenges: Mildly Dyslexic
Interests: Music & Arts

Locations: Office
Operating System: Windows 7
Platform Types: Dell Desktop PC

User-Group Type: Primary End-User
Dashboard Experience: Professional
Domain Knowledge: Simple



Experience & skills:

Jane uses the dashboard regularly at the local county council (CC) where she works. She is familiar with data stories and thematic data content. She regularly explores new data use-cases, routinely following links to data sources to check their veracity, and makes use of visualisations in her monthly reports.

- Referrer: Internal training
- Introduction touchpoint: Data Coordinator

Interacting with Jane:

Jane visits the site with specific tasks and goals in mind. She learned about the site from a training session that she attended through work. Jane knows that if she has to undertake a new line of enquiry, she can use the "Tasks" page to learn new skills.

Typical Tasks for Jane:

Jane has the site saved in her "Work" bookmarks folder in Chrome. She often keeps a tab open for reference throughout the day.

Jane's job requires her to write monthly reports about housing completion rates in the local CC area. She also needs to compare her CC to other local authorities with similar population sizes.

Jane's Story: "Crisp and clean designs with up to date data."

Jane has professional experience with city dashboards, but has a simpler understanding of the city dashboard domain as a whole. Jane is familiar with most city-specific systems and has used some of the data tools. However, she does not access in-depth data on a regular basis. Jane has regular tasks to perform for a city-specific location. This gives her explicit expectations of a system and a comprehensive understanding of task-driven applications. These motivations give her an advantage over new users, but she still has difficulty learning new menu structures and navigating to data-sets on unfamiliar or overly complex systems. Jane addresses these issues by systematically following menu patterns and page layouts. Jane uses consistent and professional terminology use and an effective web-design and user interface. These support her in creating patterns-of-use that are easy to remember and learn. Jane has regular and occasionally explorative tasks she has to perform. Jane uses the online training and help-pages, but only if they are quickly accessed, well-organised, and easy-to-use.

Jane's Situation:

Her Goals / Motivations

- Appreciates effective data visualisations.
- Regularly writes reports.
- Enjoys exploring new data.
- Evaluates her skill-set through task completion.

Frustrations and Pain Points

- Not being able to verify data sources.
- Not being able to find and use data sources quickly – "Where was that...?".
- Having to visit other websites and use unfamiliar tools without training.

Questions

- Is the CC on track for projected housing completion?
- Is the CC going to achieve this month's target?
- What other areas will effect this; homelessness, temporary accommodation, budgets, etc.?
- What data is available from other authorities?
- Are there any new planning proposals or infrastructure issues?

Reasons for Jane to return:

- Consuming and communicating data.
- Building new knowledges.
- Reading and writing about her city.

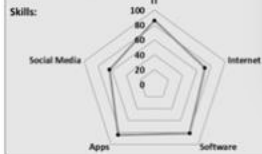


Josh Davis "A Curious Mind"

Age: 25 - 34
Occupation: Irish Water Surveyor
Education: Ordinary Degree
Expertise: Environmental Science
Family Status: Single with no children
Location: Blessington
Challenges: Colour-blind
Interests: Nature & photography

Locations: Home & mobile
Operating System: Android & iOS
Platform Types: Phone & Tablet

User-Group Type: Novice
Dashboard Experience: Casual
Domain Knowledge: Simple



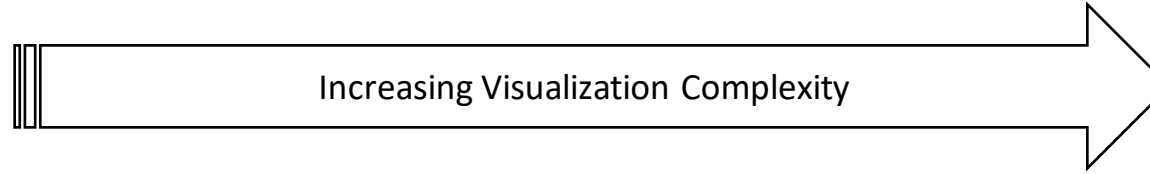
capacity to grasp the use of city dashboards, but only may experience in the initial use of city specific data, as allayed in the presentation of familiar, intuitive, and upon extended periods of exploration. That is, by Furthermore, the stories that the dashboard presents his current knowledge of data relationships.

Novice | Primary End-user | Advanced



Visualization

*Explanative
(communication of insights)*

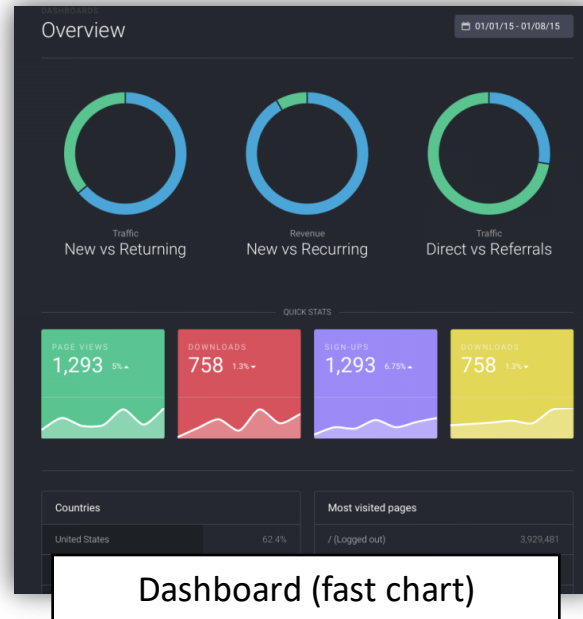


*Explorative
(discovery of patterns)*



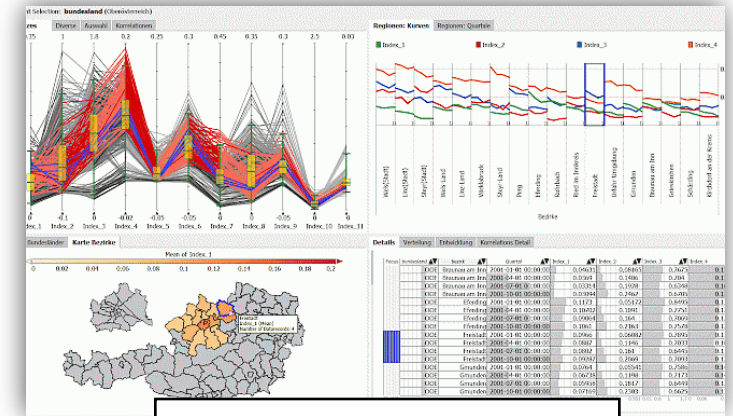
Data stories

Novice | Casual



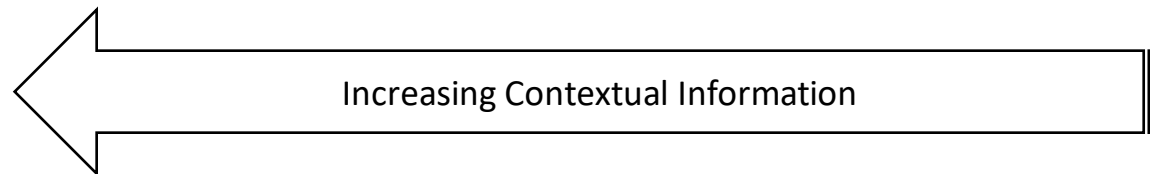
Dashboard (fast chart)

End-user | Professional



Analytic (slow chart)

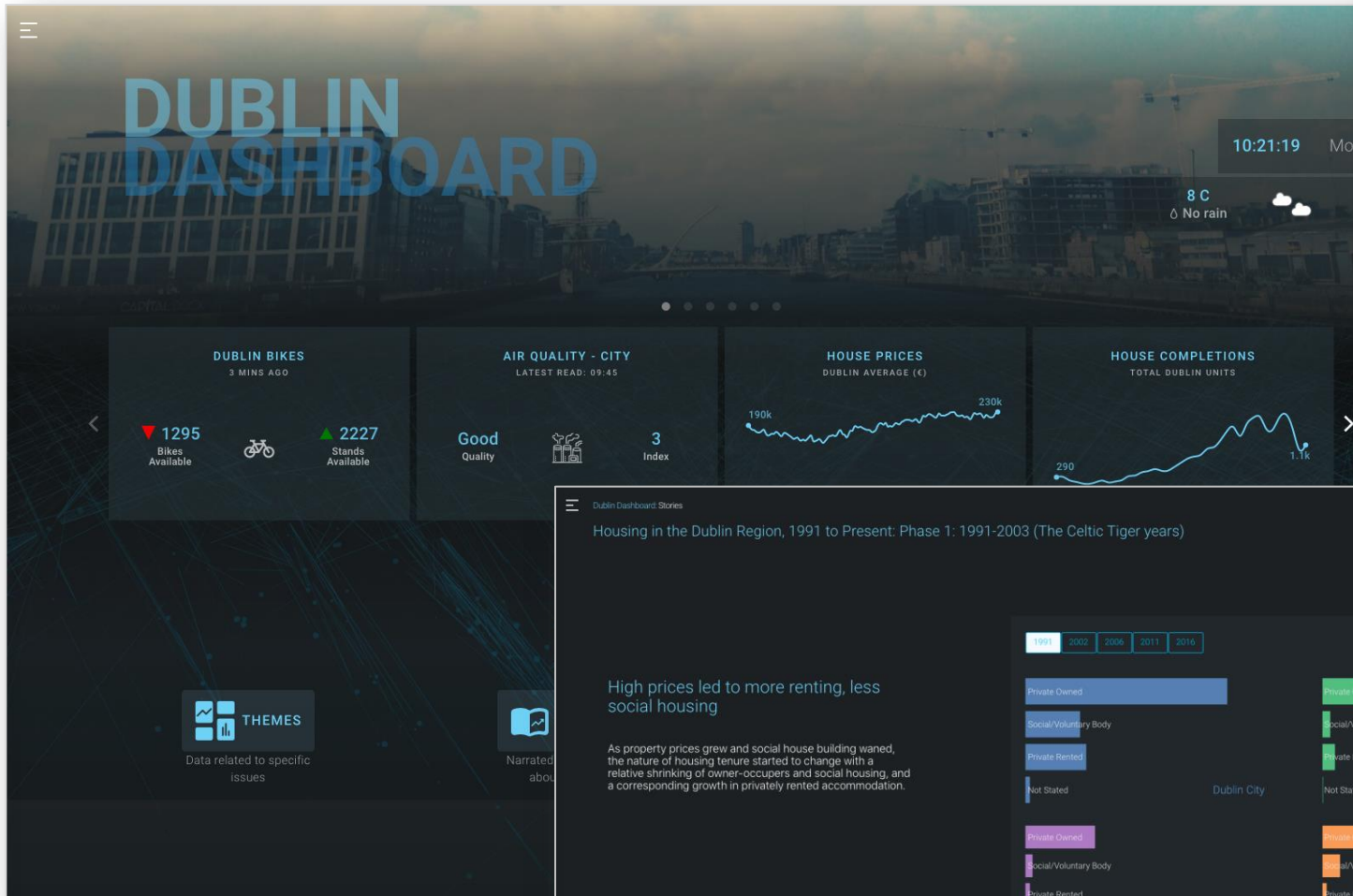
Advanced | Professional



Increasing Contextual Information



Demo: dublindashboard.ie





Co-financed by the Connecting Europe
Facility of the European Union



Hale & Harty

Improving the Health & Wellbeing of People Living in Ireland

Deirdre Lee, Derilinx



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



An Roinn Sláinte
Department of Health

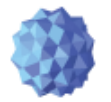
Comhairle Contae
Fhine Gall
Fingal County
Council



An
Phríomh-Oifig
Staidrimh
Central
Statistics
Office



Derilinx



Irish Data &
Cloud Cluster



The screenshot displays the DATA.GOV.IE website interface. The top navigation bar includes links for Home, Datasets, Publishers, Suggest Data, Showcases, Contact, About, and More. A search bar at the top right contains the text 'Search Datasets...'. Below the navigation, a banner for 'IRELAND'S OPEN DATA PORTAL' features the statistics '10093 Datasets' and '117' (likely publishers or datasets). The main content area shows search results for 'Covid19CountyStatisticsHPSCIreland' with 10,093 results. Three featured results are visible, each with a 'FEATURED' badge and a 'Health' category label. The results include details about the data source (Ordnance Survey Ireland), the number of views, and available download formats (HTML, ESRI REST, GEOJSON, CSV, XML, ZIP). A left sidebar provides filters for themes (Environment, Society, Health, etc.) and resource formats (JSON-STAT, PX, CSV).



Hale & Hearty



How can Public-Sector Bodies not only publish Open Data, but also ensure their initiatives achieve **positive impact**?

→ Environmental

→ Economic

→ Political

→ Social

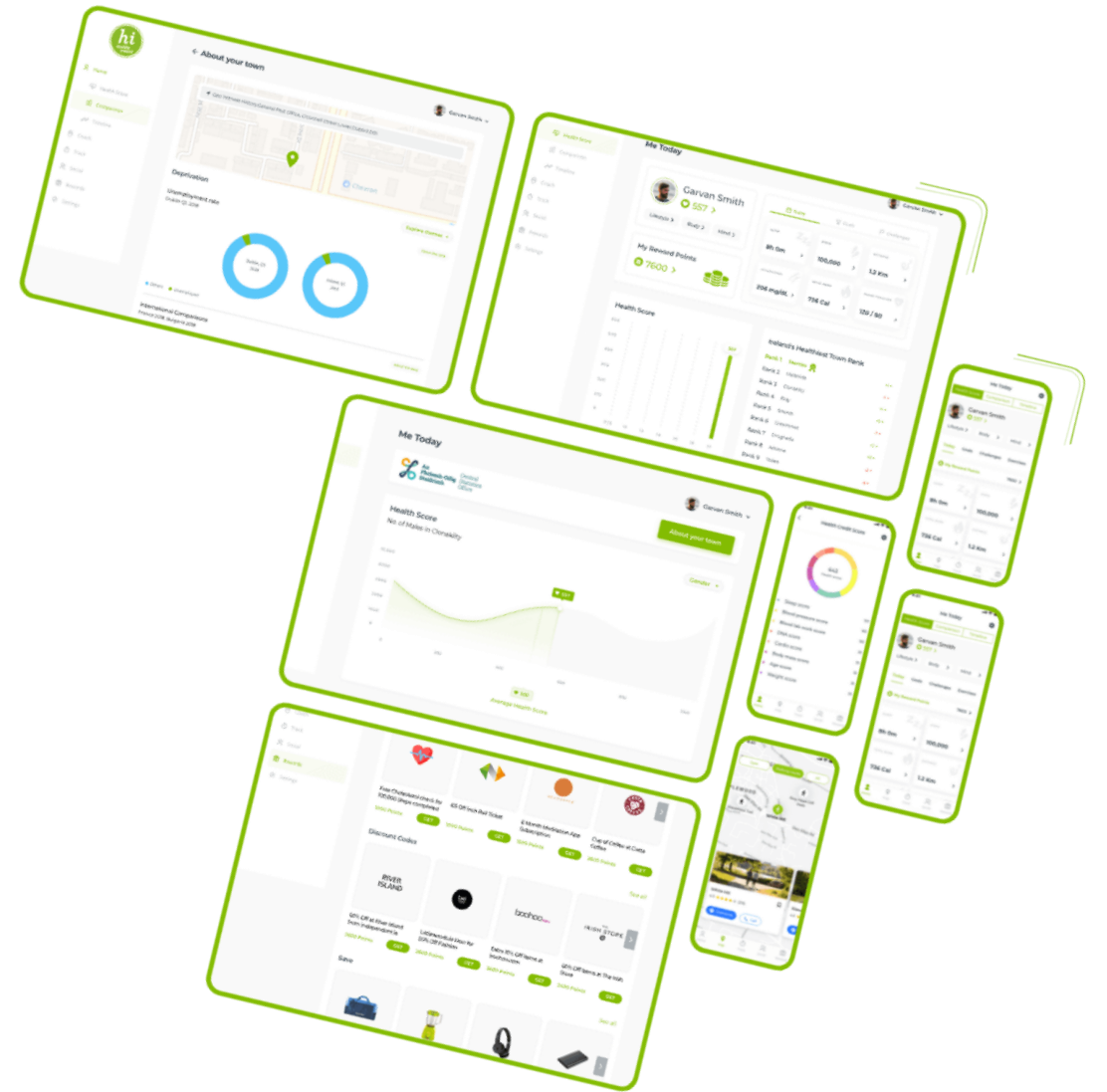
Hale & Hearty

Overall Objective

Provide a comprehensive

Health & Wellbeing Knowledge Base

at a granular level, which can be used for analysis, insights and action.



Health & Wellbeing Data



Existing & New Data Sources ...

The screenshot shows the homepage of DATA.GOV.IE, Ireland's Open Data Portal. It features a search bar at the top, a navigation menu, and a main banner with the text "IRELAND'S OPEN DATA PORTAL". Below the banner, there are statistics for "10093 Datasets" and "117 Publishers". A "COVID-19 Resources" section is highlighted in yellow. A grid of categories includes Agriculture, Arts Culture, Justice, Economy, Education, Energy, Environment, Government, Health, Housing, Population, Science, and Transport. A "Subscribe to our mailing list" form is also present.

The screenshot shows the homepage of Dublinked, Open Data for the Dublin Region. It features a search bar and a navigation menu. The main banner has the text "Dublinked: Open Data for the Dublin Region" and "Where can you find information on noise levels in the city? Or locations to lock your bike?". Below the banner, there are several category tiles for "Arts Culture and Heritage", "Environment and Energy", "Health and Land Use", "Government and Participation", and "Recreation and Amenity".

The screenshot shows the homepage of Health Ireland. It features a search bar and a navigation menu. The main banner has the text "IRELAND'S HEALTH DATA AT YOUR FINGERTIPS". Below the banner, there are several category tiles for "National waiting list data", "Primary Care Reimbursement Service", "Healthlink - eReferrals", "Hospital day cases & In-patient data", "Health in Ireland - Keytrends", "National Perinatal Reporting System", and "Health service directory".

The screenshot shows the homepage of data.cso.ie [Beta], Central Statistics Office. It features a search bar and a navigation menu. The main banner has the text "data.cso.ie [Beta]". Below the banner, there are several category tiles for "Persons with a Disability 2011 to 2016", "Population Aged 15 Years and Over 2011 to 2016", "Population With a Disability in Private Households 2011 to 2016", and "Population 2011 to 2016".

The screenshot shows the homepage of the Tusla Data Catalogue. It features a search bar and a navigation menu. The main banner has the text "Tusla Data Catalogue". Below the banner, there are several category tiles for "Child Protection & Welfare", "Alternative Care & Adoption", "Prevention, Partnership & Family Support", "Educational Welfare Services", and "Regulatory Services".

Hale & Hearty

... Improved Data



Granular



Harmonised



High-Value



Up-to-date



Accessible



Historical

The *Hale & Hearty* App



Measurable

Keep a detailed track of your health



Track of Activities

Keep a Track of what you do



Earn Rewards!

Earn Real Rewards for staying active



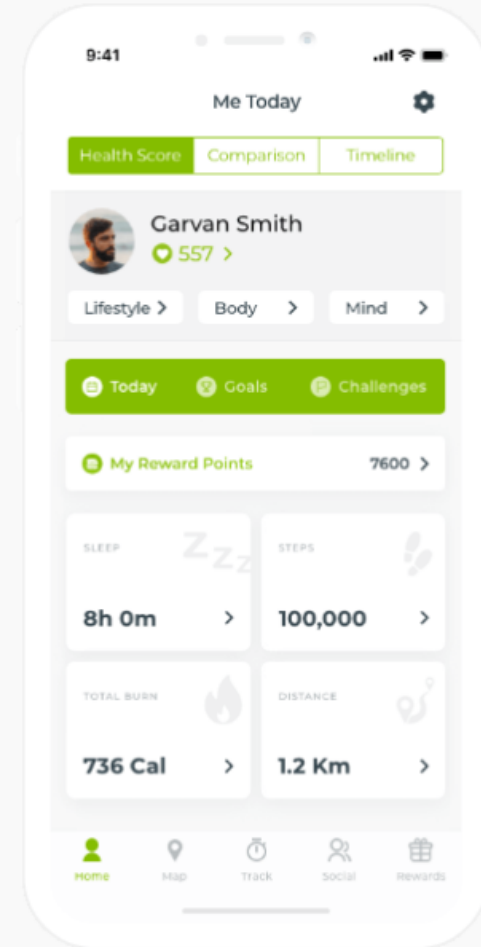
Ireland's Healthiest Town

Your score contributes to helping your local town win Ireland's Healthiest Town Award



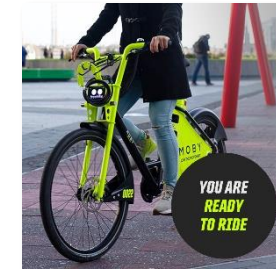
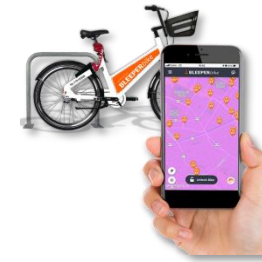
We care about your Privacy

All your personal data and information is protected with us



Hale & Hearty

Impact Example



JOIN TODAY!

Dublin Cycling Buddy
Find safer cycle routes today!

1. Download the Dublin Cycling Buddy App!
2. Find safer routes, track rides, participate in challenges!
3. Share with friends!

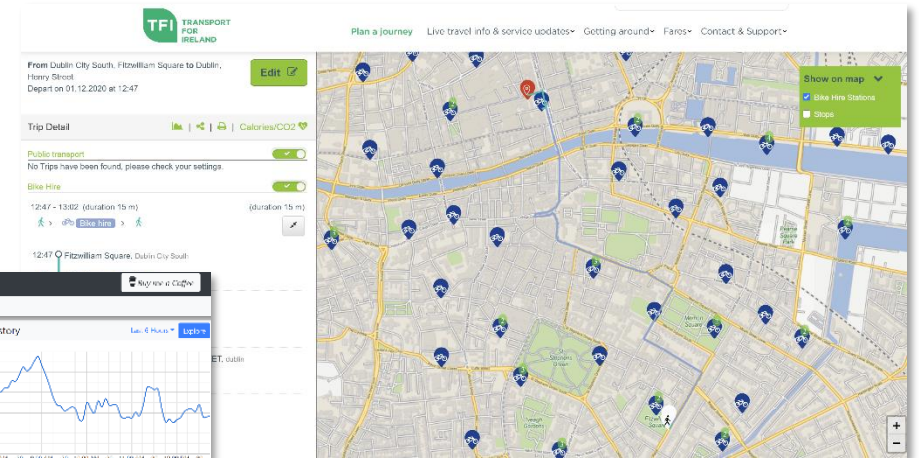
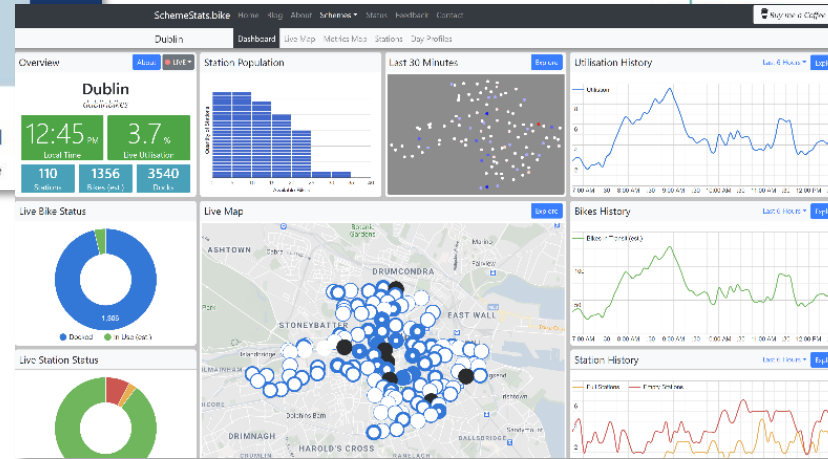
<https://dublin.cyclers.city>

SCAN ME

Comhairle Cathrach
Bhailie Aha Cliath
Dublin City Council

SMART DUBLIN

For enquiries please email info@smartdublin.ie



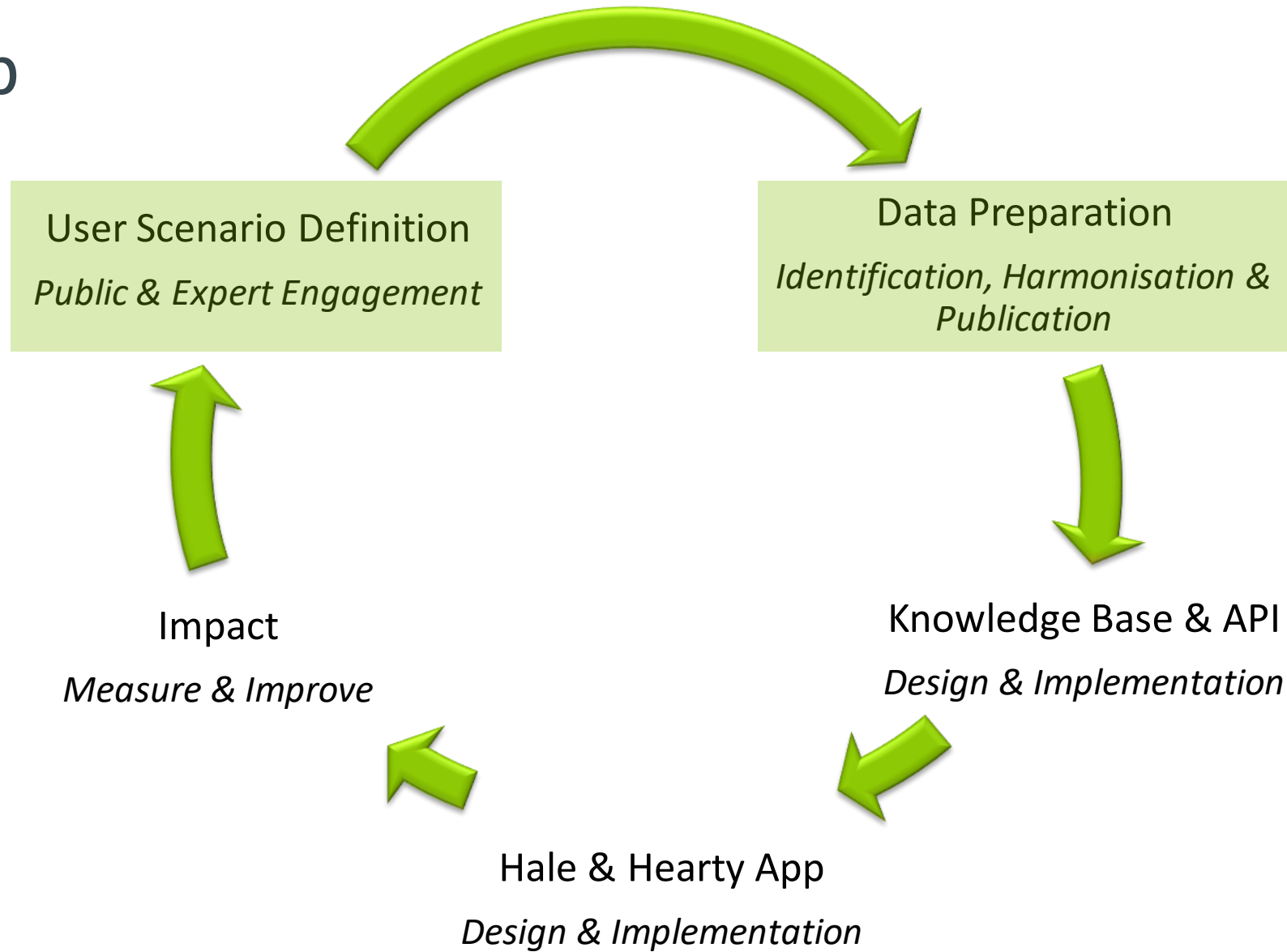
<https://smartdublin.ie/open-data-for-dublins-bikeshare-services-where-to-find-it-how-its-used-whats-coming-next/>

Hale & Hearty

User-Focused

- Families
- Schools
- Data Scientists / Researchers
- Public Sector Employees
- Healthcare Workers

Roadmap





5

Panel Session

Publication of Open Datasets



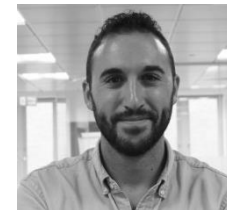
Dr. Edward Curry
Insight Centre



Rhoda Kerins *Open*
Data Unit - DPER



Mark Warren
OGCIO - DPER



Josh D'Addario
ODI



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

Open Data and PSI Directive

Rhoda Kerins

2nd December 2020



DATA.GOV.IE

Open by Default and Design



Must Release Data

- Release of non-personal data becomes an obligation
- Open Formats
- Open Standards

Free Re-use

- New rules on charging
- Free re-use becomes a principle
- Stronger transparency

Public Utilities

- Re-use of data held by public undertakings such as utilities and transport sector

Research Data

- Re-use of publicly-funded research data

Data Lock-in

- Prevention of data lock-in
- Exclusive arrangement no allowed

Real-Time Data

- **Real-time data**
- **APIs**
- **Bulk download**

Actions in Open Data Strategy



2.2

Carry out a data audit, make the results public

2.2

Publish an Open Data publication Plan

2.3

Facilitate any request for datasets

2.8

Use Eircodes in Addresses

3.1

Collaborate with re-users

7.4

Open Data Liaison Officer

First Implementing Act



List of high value datasets which must be released:

- Free of charge
- Open Formats
- Machine readable
- Via APIs and where relevant as a bulk download

Geospatial

Earth
Observation and
Environment

Meteorological

Statistics

Companies and
Company
Ownership

Mobility

Company and Company Ownership



| Basic information | | Companies' documents and accounts | Companies ownership | | Companies insolvency status |
|---|--|---|--|---|--|
| Non personal | Personal | | Non personal | Personal | |
| <ul style="list-style-type: none"> Name of the company (full version, in different languages when applicable); Company status (active, resolved, in liquidation, reconstruction, merger...) Founding date; Cessation date (if applicable); Historical names; Addresses (i.e. legal, visiting postal); Legal form; Identifiers (registration number / company identifier / tax identification number / phone number / e-mail address); Member State where registered; NACE code (of the predominant and secondary activities and the code's source); Number of employees; Turnover; Capital; Detailed information on branches All changes (to individual companies and list of companies dissolved), and date of the last update. | <ul style="list-style-type: none"> (Name(s) of company legal representative(s); Name of company's directors ;) The appointment, termination of office and particulars of the persons who either as a body constituted pursuant to law or as members of any such body: <ul style="list-style-type: none"> ✓ are authorised to represent the company in dealings with third parties and in legal proceedings; it shall be apparent from the disclosure whether the persons authorised to represent the company may do so alone or are required to act jointly; ✓ take part in the administration, supervision or control of the company All changes (to individual companies and list of companies dissolved), and date of the last update. | <ul style="list-style-type: none"> Legal entities; Detailed data on branches; Accounting documents, incl. financial statements, non-financial statements, management reports, and other reports (e.g. financial reports, audit reports, corporate governance reports); Intra-group transactions Date of the last update; Other companies documents which are provided to the authority (i.e. companies' meeting minutes). | <ul style="list-style-type: none"> Share (percentage) of ownership, and nature and extent of Beneficial Interest held (in shareholding and/or voting rights) as well as legal ownership; Capital links between companies; All changes, and date of the last update. | <ul style="list-style-type: none"> Name of the owner; Month and Year of birth; Nationality; Owner identifier; Names of shareholders; Country of residence of shareholders / owners. | <ul style="list-style-type: none"> Type of insolvency proceeding; Time limit for lodging claims; Date of closing main insolvency proceedings; The court before which the decision opening insolvency proceedings is to be lodged; All changes (i.e. to individual companies and list of companies dissolved), and date of the last update |

Company and company ownership

Higher intensity intervention – Recommended measures

| Dimensions | | Basic information (non-personal and personal) | Companies documents and accounts | Companies ownership | Companies status |
|-----------------------------|---|---|--|--|------------------|
| Openness-data specification | License (terms of use) | CC.BY 4.0 No terms of use No database right | | | |
| | Format | XML - Json | | | |
| | Machine-readability | Mandatory | | | |
| | Availability of API, bulk download | Both API and bulk download | | | |
| Documentation | Metadata (dataset content description) | Complete (*.csv document available), DCAT-AP | | | |
| | Data linking | No specific recommendation | | | |
| | Documentation (incl. structure and semantics) | Complete and web-available | | | |
| | Shared vocabularies | ISA ² Core Vocabularies | | | |
| | Taxonomies | Recommended | | | |
| Completeness | Traceability | Not necessary | | | |
| | Update frequency and timeliness | Real time (minimum daily for insolvency data) | | | |
| | Granularity | Individual company level (plus identifier) | Individual owner (plus identifier) | Individual company level (plus identifier) | |
| | Key attributes | Company code for disambiguation | Beneficial owner code for disambiguation | Company code for disambiguation | |

GeoSpatial



| Datasets | Short description | Use Cases |
|-----------------------------|--|--|
| Administrative Units | Units of administration, dividing areas where Member States have and/or exercise jurisdictional rights, for local, regional and national governance, separated by administrative boundaries. Land Administrative Units and Maritime Units are the basic units. Land Administrative Units are covering mostly land surface, while Maritime Units are covering territorial waters. | Mapping or use as statistical units, manage emergency rescue, waste management plans, protect water ecosystems, find responsible party for policy implementation and administration, forest management, subsidies for farmers, forecast agricultural production, spatial planning, monitoring of regional and urban policy implementation using territorial typologies based on administrative units, maritime spatial planning, integrated coastal management |
| Place Names | Geographical names or place names (or toponyms) are the proper nouns applied to topographical features and settled (and used) places and spaces on the earth's surface. Toponyms represent an important reference system used by individuals and societies throughout the world. | Emergency response Economic, social and environmental analysis Cultural identity and heritage Mapping and navigation Providing a link / index function to other spatial and aspatial data |
| Addresses | Location of properties based on address identifiers, usually by road name, house number, postal code. The basic unit of addressing is a building; a permanent construction, intended or used for the shelter of people, having at least one entrance from publicly-accessible space. | Geocoding of statistical surveys, manage emergency rescue, locate where people are, accessibility studies, manage incidents; locate economic activities in ecosystem accounting |
| Buildings | Geographical location of buildings. Constructions above and/or underground, intended or used for the shelter of humans, animals, things, the production of economic goods or the delivery of services that refer to any structure permanently constructed or erected on its site [from INSPIRE Data Specifications on Buildings]. | Buildings are 3D topographic objects and, as such, may influence the propagation of physical phenomena. These data are required for serving citizens (e.g. school, hospital), assessments for air and noise pollution or risk assessments to various kinds of risks (earthquake, fire, flood etc.), monitoring of land consumption, population concentration and access to services. |
| Cadastral Parcels | Single areas of Earth surface (land and/or water), under homogeneous real property rights and unique ownership, real property rights and ownership being defined by national law. | Protect state lands, reduce land disputes, facilitate land reform, agriculture, land management, taxation, disaster management, real Estate Market, Taxation, LPIS (Agriculture), Land consolidation, Infrastructure Management, Spatial Planning, Protection of Soil and Water, Statistics |

Geospatial Higher intensity intervention

| | Description | Administrative units | Place Names | Addresses | Buildings | Cadastral parcels |
|---------------|---|---|--|---|---|--|
| Openness | License and terms of use | CC0 | | | | |
| | Format | GeoPackage; GeoJSON; INSPIRE requirements. | GeoPackage; CSV; GeoJSON INSPIRE requirements. | GeoPackage; CSV; GeoJSON; INSPIRE requirements. | GeoPackage; GeoJSON; INSPIRE requirements. | GeoPackage; GeoJSON; INSPIRE requirements. |
| | Machine-readability | Mandatory | | | | |
| | Availability of API, bulk download | Bulk download; INSPIRE distribution services; RestAPI (e.g. OGC API, ArcGIS RestAPI, Carto API). | | | | |
| Documentation | Metadata (dataset content description) | INSPIRE | | | | |
| | Documentation (incl. structure and semantics) | INSPIRE / GeoDCAT-AP | | | | |
| | Data linking | | | | | |
| | Shared vocabularies/taxonomies | INSPIRE | | | | |
| Completeness | Traceability | National geodata Catalog and open data catalog. | | | | |
| | Update frequency and timeliness | Annual update | When necessary | When necessary | When necessary | Continuous update (close to real-time). |
| | Granularity | From municipalities to countries; sea-frontiers. | National coverage | National coverage | National coverage; Level of scale 1:5000 (minimum requirement). | National coverage; Level of scale 1:5000 or beyond (1:2000). |
| | Key attributes | National identification code; identification code of the upper administrative level; official name; country code; name in multiple languages (only for countries with more than one official language). | Name; name in multiple languages (only for countries with more than one official language); category; latitude and longitude (INSPIRE) | Latitude and longitude; house number; suffix of the number; name of the street; zip code ; name of the municipality; national identification code of the municipality; last update; type of position. | Footprint of the building; height ; entrances; floors; type of use. | Geometry of cadastral parcels; type of particle; particle code; references to the administrative area to which the particle belongs. |



Thank you.

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Open Data Unit
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@GovData.ie
@IRLDeptPER





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



Public Service Data Catalogue

Open Data Conference
2nd December 2020

Background



Public Service Data Governance Unit

Data Sharing and Governance Act

- The Act provides a legal basis for data sharing and puts in place strong governance to oversee such sharing

Public Service Data Strategy

- Strategy sets out a vision for data in the Public Service and 31 actions/deliverables to improve data quality, reuse and transparency

Act and Strategy complement each other and have the same ultimate goal – to put in place a series of measures to improve how data is governed, managed and re-used in a secure, efficient and transparent manner

Step 1 – the Public Service Data Catalogue

What is a Data Catalogue?



- A Data Catalogue is a detailed inventory of data assets in an organisation. It is designed to help quickly find the most appropriate data for analytical purposes, for business purposes, or simply for general awareness and transparency.

The image displays four overlapping screenshots of data catalogues:

- DATA.GOV.IE:** Features a blue header with the logo and navigation. It shows statistics: 10093 Datasets and 114 Publishers. A yellow banner highlights COVID-19 Resources. Below are categories like Agriculture, Arts, Culture and Heritage, Government and Public Sector, and Health. A blue footer contains a mailing list subscription link.
- Health Information and Quality Authority:** Shows a navigation menu with 'AREAS WE WORK IN' and a list of services including Acute and Community Healthcare Services, Children's Services, Disability Services, Older People's Services, Standards and Quality, Health Information (highlighted), Health Technology Assessment, and HRB-CICER Clinical Guideline.
- Dublinlinked:** An 'Open Data Store' with a teal header. It features a search bar and a main heading 'Dublinked: Open Data' with the tagline 'Where can you find information on noise levels about where you live, work...'.
- Tusla Data Catalogue:** Has a dark header with the Tusla logo and navigation links (DATASETS, SERVICE CATEGORIES, ABOUT, CONTACT, LOG IN). It includes a search bar and a 'Services' section with categories: Child Protection & Welfare, Alternative Care & Adoption, Prevention, Partnership & Family Support, Educational Welfare Services, and Regulatory Services.

The Public Service Data Catalogue



Public Service Data Strategy

Action: Develop a Government data catalogue, for internal and public use, cataloguing key data holdings within PSBs, supporting reuse and transparency

- Increase the awareness of data holdings
- Stimulate cross Government data reuse
- Single place to go to get the information
- Facilitate openness and transparency with both citizens and businesses
- Expenditure savings
- Help public bodies in their data protection obligations

Scope of the Catalogue



Single Catalogue for the entire Public Service – All PSBs

Store / Display metadata about key data holdings

Includes personal data, sensitive personal data, business data, spatial data

Supports customisable sub-catalogues, similar in manner to the Department websites on gov.ie.

Public facing view - available to citizens

Public Service facing view - available to PSBs

Administration view – allowing internal recording of datasets

Supports custom data fields

Dataset and data fields may be defined as “visible/invisible/public service visible”.

Admin interface - PSBs will have the ability to manage their own catalogues.

What Data is on it?



- PSB Name
- Dataset Name
- Description
- Coverage
- Sector
- Personal
- Business
- Spatial
- Sensitive
- Primary Identifier
- Update Frequency
- Currently being shared
- APIs available
- Open Data
- Open Data Link
- Contact Point (only visible to PSBs)
- Custom fields...

Homepage

The screenshot shows the homepage of the Public Service Data Catalogue. At the top, there is a navigation bar with links for 'Datasets', 'Publishers', 'EN', and 'Login'. Below this, the header includes the site's name in Irish and English, 'Search Data', and 'Organisations'. The main content area features a large green background with the headline 'Discover The Data Held By The Irish Public Sector' and a sub-headline 'Your guide to find our with the public sector holds'. A search bar is present, and a central circular graphic displays '1119 Datasets'. Below the search bar are filters for 'Personal', 'Business', 'Spatial', and 'Sensitive Personal'. The 'Categories' section lists twelve sectors: Agriculture, Education, Environment, Energy, Business, Money & Tax, Social Welfare, Health, Housing, Family & Relationships, Employment, and Transport & Travel, each with a corresponding icon.

Datasets Publishers EN Login

Catalóg Sonraí Seirbhíse Poiblí
Public Service Data Catalogue

Search Data Organisations

Discover The Data Held By The Irish Public Sector

Your guide to find our with the public sector holds

1119
Datasets

Personal Business Spatial Sensitive Personal

Categories

- Agriculture
- Education
- Environment
- Energy
- Business
- Money & Tax
- Social Welfare
- Health
- Housing
- Family & Relationships
- Employment
- Transport & Travel



Data Listing Page

The screenshot shows the 'Search Data' page of the Public Service Data Catalogue. The page features a top navigation bar with 'Datasets', 'Publishers', 'EN', and a 'Login' button. The main header includes the site logo and name, 'Search Data', and 'Organisations'. A left-hand sidebar lists various categories, with 'Education' selected. The main content area displays search results for 'Leaving Certificate Results Dataset', 'Junior Certificate Results Dataset', and 'School Enrollment 2019 - 2020'. Each result includes a description and two buttons: 'EDUCATION' and 'PERSONAL'. The footer contains links for 'About This Data', 'Catalogue', 'Privacy Policy', 'Accessibility', and 'Contact Us', along with a 'Give us Feedback' button and the OGCIO logo.

Catalóg Sonraí Seirbhíse Poiblí
Public Service Data Catalogue

Search Data Organisations

Categories

- Agriculture
- Business
- Education**
- Employment
- Environment
- Family and Relationships
- Health
- Housing
- Justice
- Local Government
- Money and Tax
- National Government
- Social Welfare
- Transport and Travel
- Arts, Heritage & Culture
- Energy

Search Data

Search for data

Select Type of Data: All Personal Business Spatial Sensitive Personal

Sort by: Relevance

Leaving Certificate Results Dataset

Department of Education
Database holding records of all Leaving Certificate results across Ireland

EDUCATION PERSONAL

Junior Certificate Results Dataset

Department of Education
Database holding records of all Junior Certificate results across Ireland

EDUCATION PERSONAL

School Enrollment 2019 - 2020

Department of Education
Enrollment Numbers per school for the academic year 2019/2020.
Contains information regarding numbers per school

EDUCATION PERSONAL

About This Data Catalogue Privacy Policy Accessibility Contact Us

Give us Feedback

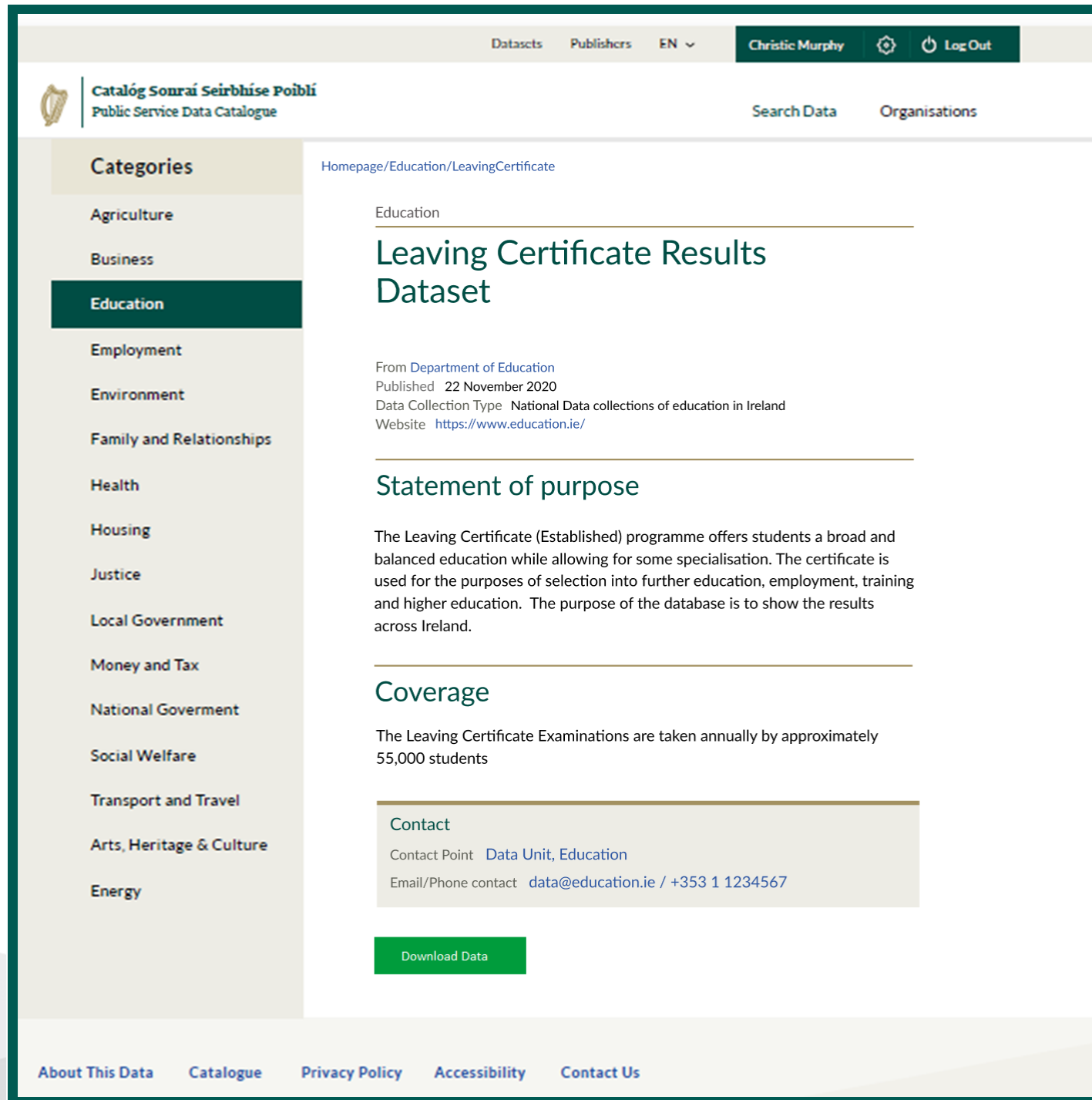
Catalóg Sonraí Seirbhíse Poiblí
Public Service Data Catalogue

OGCIO
Connecting Government

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Data Listing Page



The screenshot displays the 'Public Service Data Catalogue' website. The top navigation bar includes 'Datasets', 'Publishers', 'EN', 'Christic Murphy', and 'Log Out'. The main header features the site logo and 'Search Data' and 'Organisations' links. A left-hand sidebar lists various categories, with 'Education' highlighted. The main content area shows the breadcrumb 'Homepage/Education/LeavingCertificate', the title 'Leaving Certificate Results Dataset', and a 'Statement of purpose' section. A 'Coverage' section follows, and a 'Contact' box provides details for the Data Unit, Education. A 'Download Data' button is located at the bottom of the content area. The footer contains links for 'About This Data', 'Catalogue', 'Privacy Policy', 'Accessibility', and 'Contact Us'.

Datasets Publishers EN v Christic Murphy Log Out

Catalóg Sonraí Seirbhíse Poiblí
Public Service Data Catalogue

Search Data Organisations

Categories

- Agriculture
- Business
- Education**
- Employment
- Environment
- Family and Relationships
- Health
- Housing
- Justice
- Local Government
- Money and Tax
- National Government
- Social Welfare
- Transport and Travel
- Arts, Heritage & Culture
- Energy

Homepage/Education/LeavingCertificate

Education

Leaving Certificate Results Dataset

From Department of Education
Published 22 November 2020
Data Collection Type National Data collections of education in Ireland
Website <https://www.education.ie/>

Statement of purpose

The Leaving Certificate (Established) programme offers students a broad and balanced education while allowing for some specialisation. The certificate is used for the purposes of selection into further education, employment, training and higher education. The purpose of the database is to show the results across Ireland.

Coverage

The Leaving Certificate Examinations are taken annually by approximately 55,000 students

Contact

Contact Point [Data Unit, Education](#)
Email/Phone contact data@education.ie / +353 1 1234567

Download Data

About This Data Catalogue Privacy Policy Accessibility Contact Us

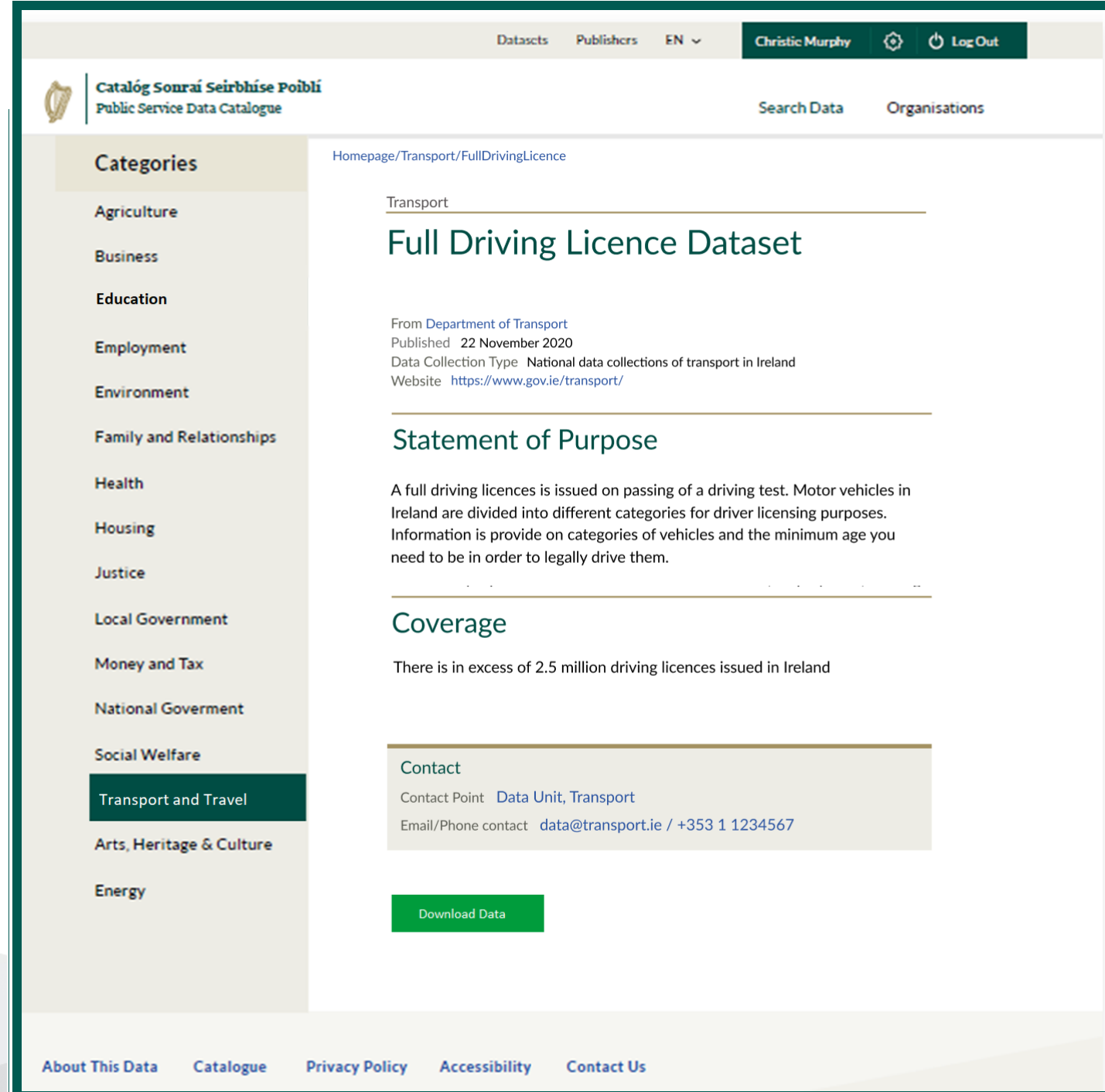


Data Listing Page

The screenshot shows the 'Public Service Data Catalogue' website. The header includes navigation links for 'Datasets', 'Publishers', 'EN', and a 'Login' button. The main navigation bar features 'Search Data' and 'Organisations'. A left-hand sidebar lists various categories, with 'Transport and Travel' highlighted in green. The main content area is titled 'Search Data' and contains a search bar, filters for 'Select Type of Data' (All, Personal, Business, Spatial, Scientific/Personal), and a 'Sort by' dropdown set to 'Relevance'. Three datasets are listed: 'Full Driving Licences Dataset', 'Provisional Driving Licences Dataset', and 'National Road Network Dataset'. Each dataset entry includes the department (Department of Transport), a brief description, and two buttons: 'TRANSPORT' and 'ALL'. The footer contains links for 'About This Data', 'Catalogue', 'Privacy Policy', 'Accessibility', and 'Contact Us', along with a 'Give us Feedback' button. Logos for the Public Service Data Catalogue and OGOIO (Connecting Government) are also present.




Data Listing Page



The screenshot shows the 'Public Service Data Catalogue' website. The header includes navigation links for 'Datasets', 'Publishers', and 'EN', along with a user profile for 'Christic Murphy' and a 'Log Out' button. The main navigation bar features 'Search Data' and 'Organisations'. A left-hand sidebar lists various categories, with 'Transport and Travel' highlighted in green. The main content area displays the 'Full Driving Licence Dataset' page, which includes a breadcrumb trail 'Homepage/Transport/FullDrivingLicence', a sub-header 'Transport', and a title 'Full Driving Licence Dataset'. Below the title, it states the data is from the Department of Transport, published on 22 November 2020, and provides a website link. The page also features sections for 'Statement of Purpose' and 'Coverage'. A 'Contact' box provides the contact point 'Data Unit, Transport' and an email/phone contact. A green 'Download Data' button is located at the bottom of the contact box. The footer contains links for 'About This Data', 'Catalogue', 'Privacy Policy', 'Accessibility', and 'Contact Us'. A harp logo is visible in the top right corner of the page.

[Datasets](#) [Publishers](#) [EN](#) [Christic Murphy](#) [Log Out](#)

 **Catalóg Sonraí Seirbhíse Poiblí**
Public Service Data Catalogue [Search Data](#) [Organisations](#)

Homepage/Transport/FullDrivingLicence

Transport

Full Driving Licence Dataset

From [Department of Transport](#)
Published 22 November 2020
Data Collection Type National data collections of transport in Ireland
Website <https://www.gov.ie/transport/>

Statement of Purpose

A full driving licences is issued on passing of a driving test. Motor vehicles in Ireland are divided into different categories for driver licensing purposes. Information is provide on categories of vehicles and the minimum age you need to be in order to legally drive them.

Coverage

There is in excess of 2.5 million driving licences issued in Ireland

Contact

Contact Point [Data Unit, Transport](#)
Email/Phone contact data@transport.ie / +353 1 1234567

[Download Data](#)

[About This Data](#) [Catalogue](#) [Privacy Policy](#) [Accessibility](#) [Contact Us](#)



Populating the Catalogue



- An excel survey of relevant data in each PSB
 - *capture high-level information on key datasets across the public service*
 - *making this information available both to citizens and PSBs.*
 - *Not an audit of all datasets you hold*
 - *No direct access to datasets*
- Survey issued to all PSBs - inc bodies under their aegis
- Next Steps
 - *OGCIO to aggregate and sanity check the results*
 - *OGCIO to input the results and publish the Catalogue*

Datasets collected



- High-level Information gathered on over 250 Key Datasets of Public Interest across the Public Service from over 50 PSBs

Health

- Dataset of Hospitals
- National Waiting List Register
- Work Related Accidents

Education

- Primary Online Database
- Register of Teachers
- SUSI Grant Applications

Geospatial

- Bathing Water Locations
- National Land Register
- Commercial Property Valuations Database

Community

- Early Years Platform
- Deprivation Index
- Town & Village Renewal Scheme

Agriculture

- National Forest Inventory
- Nitrates Database
- Animal Identification & Movement

Business

- Product Safety Database
- Patent Register
- Register of Companies & Business Names

Justice

- Sheriff Systems
- Wards of the Court
- Citizenship Applications

Taxation

- Local Property Tax
- Unique Business Identifier
- Tax Clearance

Ireland Open Data Conference

High Value Datasets





Vision

We want a world where data works for everyone.

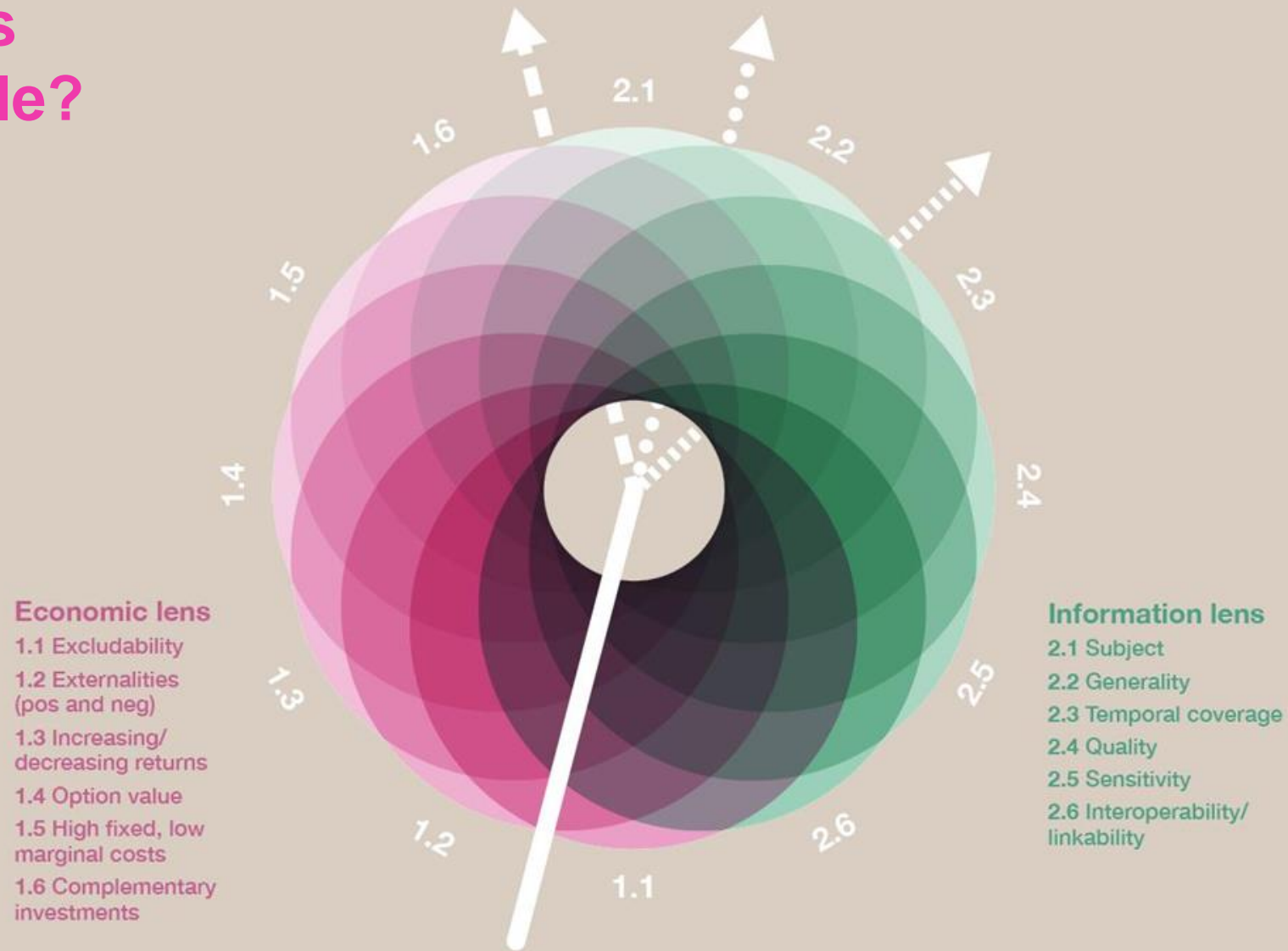


Mission

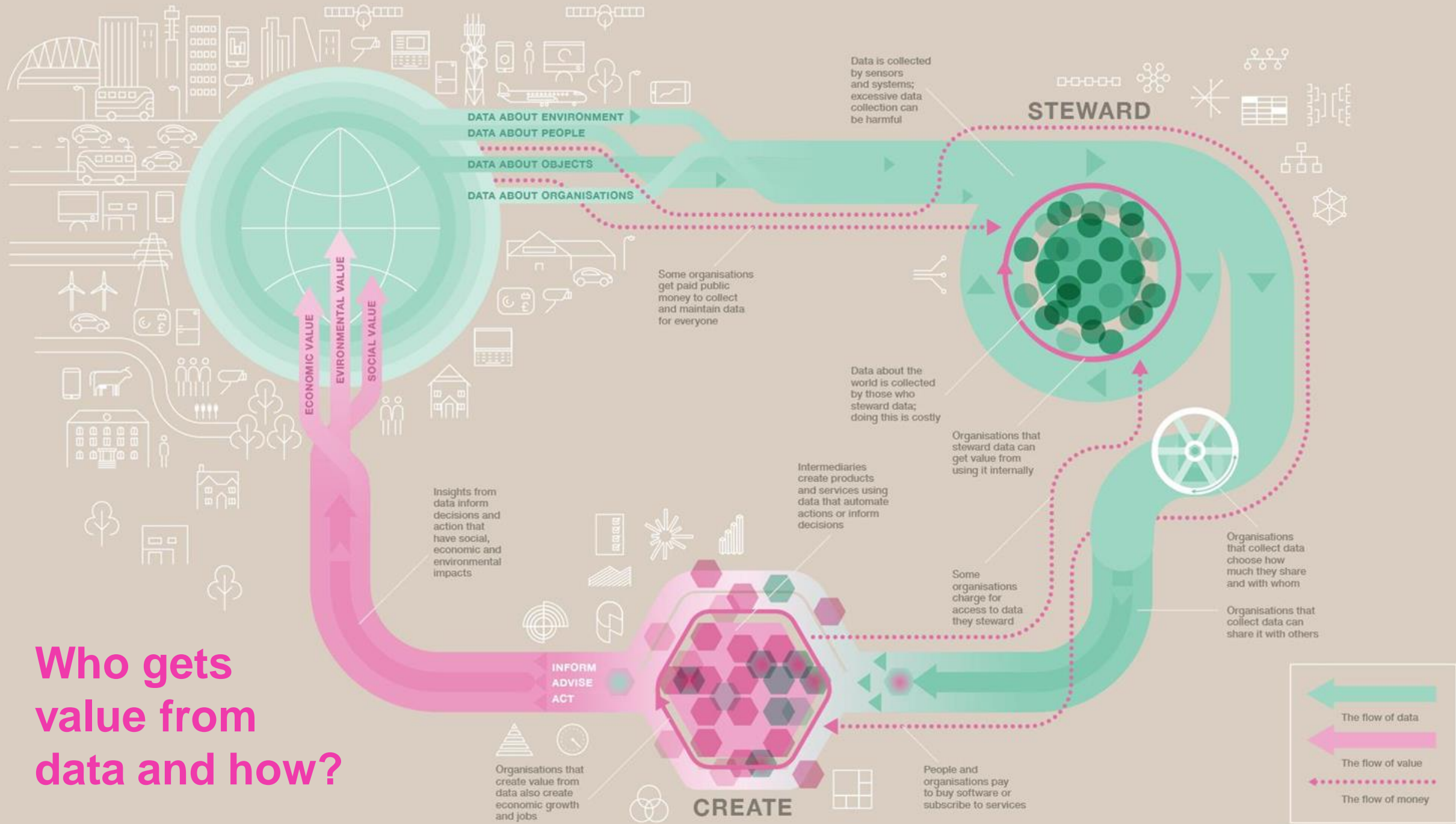


We work with companies and governments to build an open, trustworthy data ecosystem.

What makes data valuable?



Who gets value from data and how?



High Value Datasets

Create the value framework

Identifying characteristics and relevant indicators of the value of data

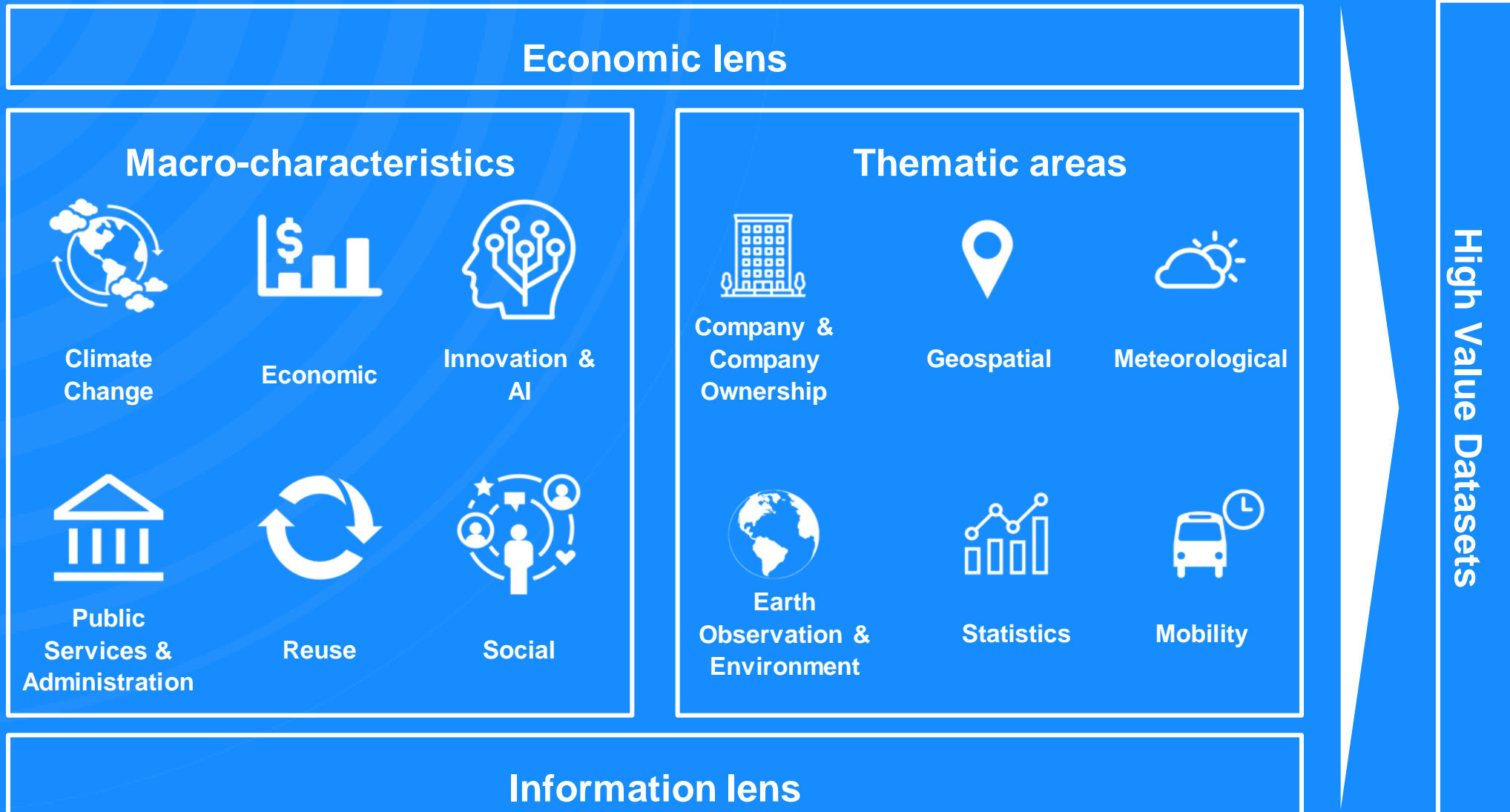
Undertake an impact analysis

Ten EU member states selected, ODI focussed on Ireland

Deliver policy options and recommendations

Low and high 'intensity' policy options and recommendations for the EC

High Value Datasets - The Project



Impact analysis → Policy options

Thematic areas



Member states



Multi-Criteria Analysis

- Effectiveness
- Efficiency
- Coherence
- Proportionality
- Feasibility

Policy Options



'Low intensity'

'High intensity'

Policy options

'Low intensity' policy options

Includes:

- Open licences
- Mandatory machine-readability
- Key datasets
- Regular update frequency and timeliness
- Good granularity



'High intensity' policy options

Includes:

- More open licenses (ex: from CC-BY to CC0)
- More datasets in scope
- Increased update frequency and timeliness
- Increased granularity
- Additional key attributes



High Value Datasets - Key Takeaways

These datasets are foundational for the data economy

They should be prioritised in the public sector, and pushed for more openness outside of the Open Data Directive

The more open they are the better

This means more open licences, and anonymisation where personal data may restrict publishing openly

Lower priority datasets are still important

Data exhibits network effects that increase their own value and the value of other datasets when connected

Organisations might need support to get to the open goal

Some organisations are lacking the technical infrastructure currently, or would need to significantly change their operating model

Standardise across Europe

Member state organisations supporting each other will increase value for all, faster

Thanks!

theODI.org



Josh D'Addario

Senior Consultant | @JoshDAddario

josh.daddario@theodi.org



6

Dr. Edward Curry

Principal Investigator - Insight Centre

*Open Data as part of a wider European
Data and AI Ecosystem*

Empowering Citizens. Smarter Societies.

Insight
Centre for Data Analytics



Open Data as part of a wider European Data and AI Ecosystem

Edward Curry,
Insight @ NUI Galway
edward.curry@nuigalway.ie

A World Leading SFI Research Centre



The
Economist

Crunch time in France

Ten years on: banking after the crisis

South Korea's unfinished revolution

Biology, but without the cells

MAY 6TH-12TH 2017

The world's most valuable resource



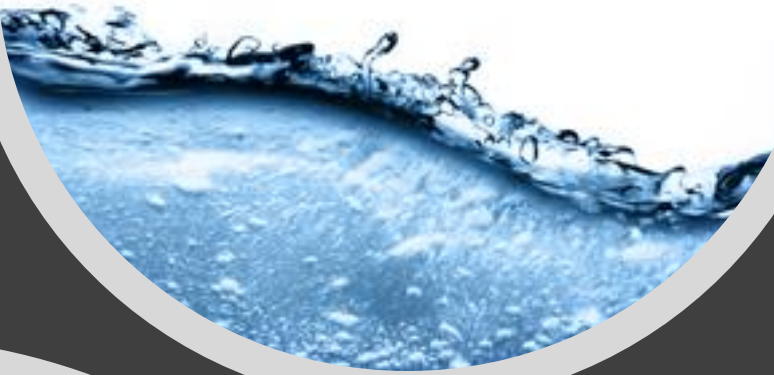
Data and the new rules
of competition

(Open) Data is Key to AI

“The world’s most valuable resource is no longer oil, but data. The data economy demands a new approach to antitrust rules”

The Economist

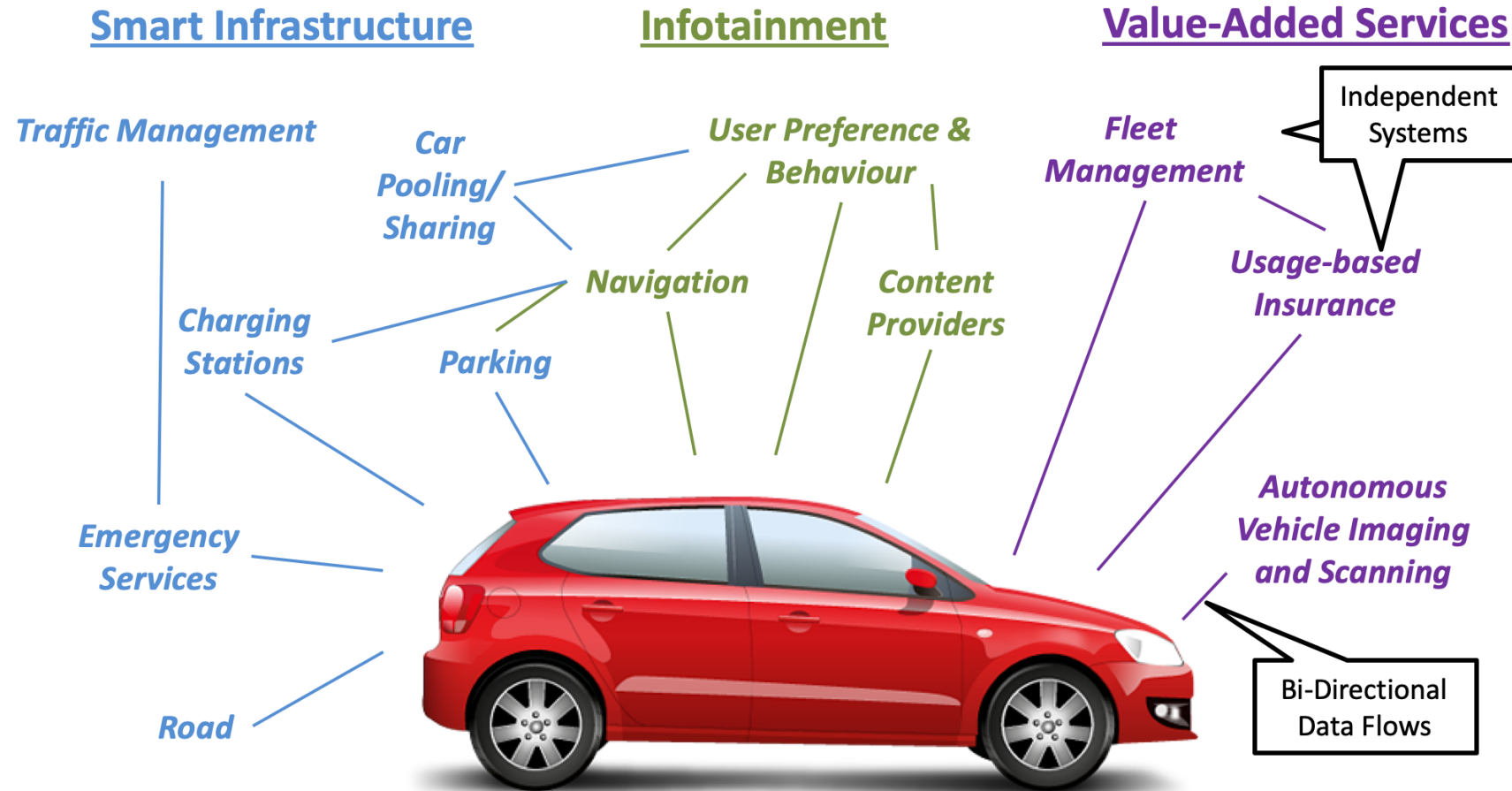
...startups and established firms that are just beginning to use AI **need access to data** in order to train their AI systems. Difficulty in accessing the necessary data can create a **barrier to entry**, potentially **reducing competition and innovation.** - Forbes



Emerging Smart Environments....

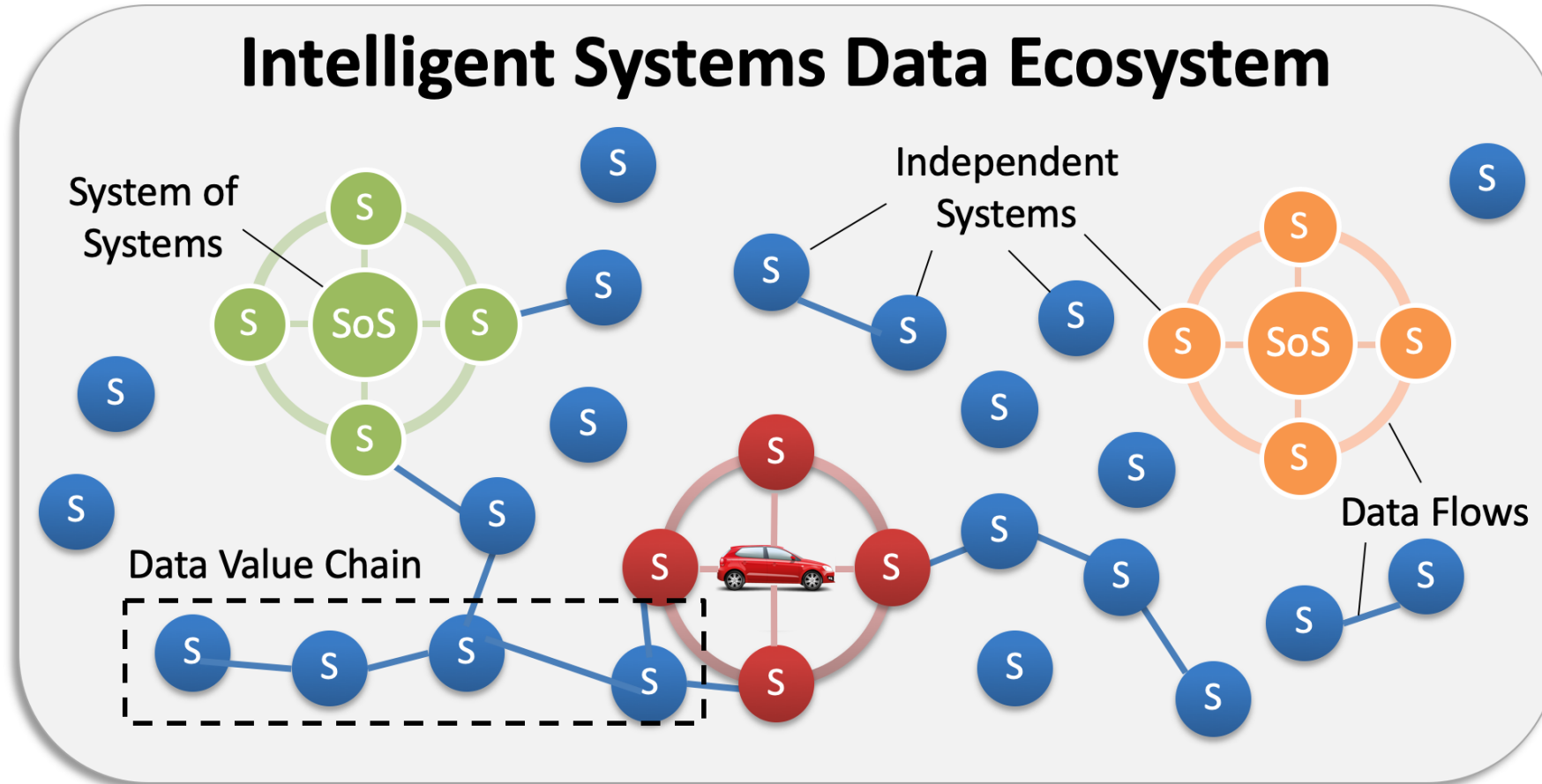


Connected Intelligent Systems



*Data-driven Intelligence will be drive by industrial, personal and **open** data*

Distributed and Decentralised Data Ecosystems



Key Barrier: Interoperability – Protocols and Semantics




TRANSFORMING
TRANSPORT



THALES
Autosystèmes
TI

Autobold
InfLEET

Software-

AtoS
ESARIS
Inights

VIT
TAMPERE

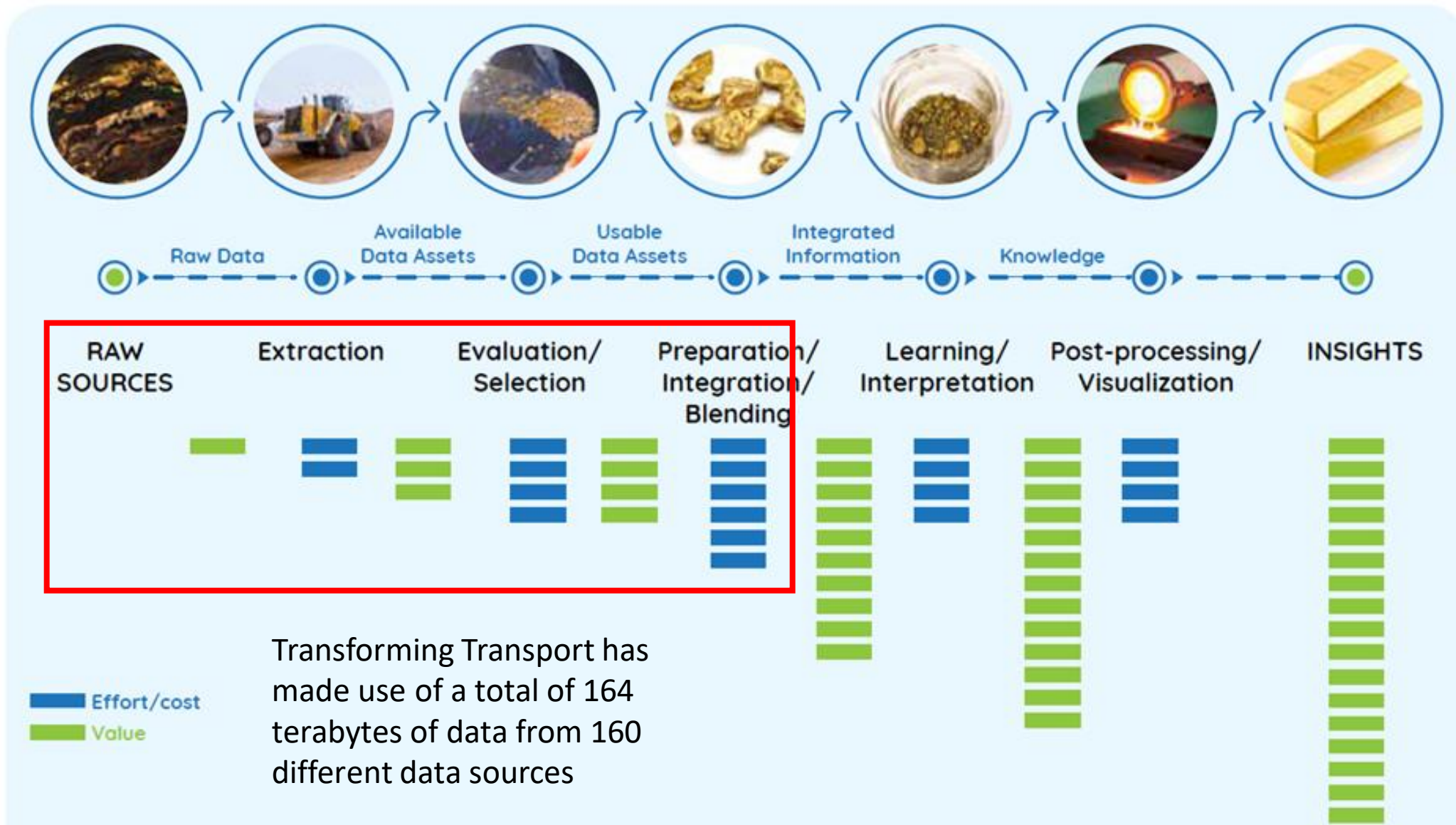
CMPT
TAMPERE

INTRASOFT
logika

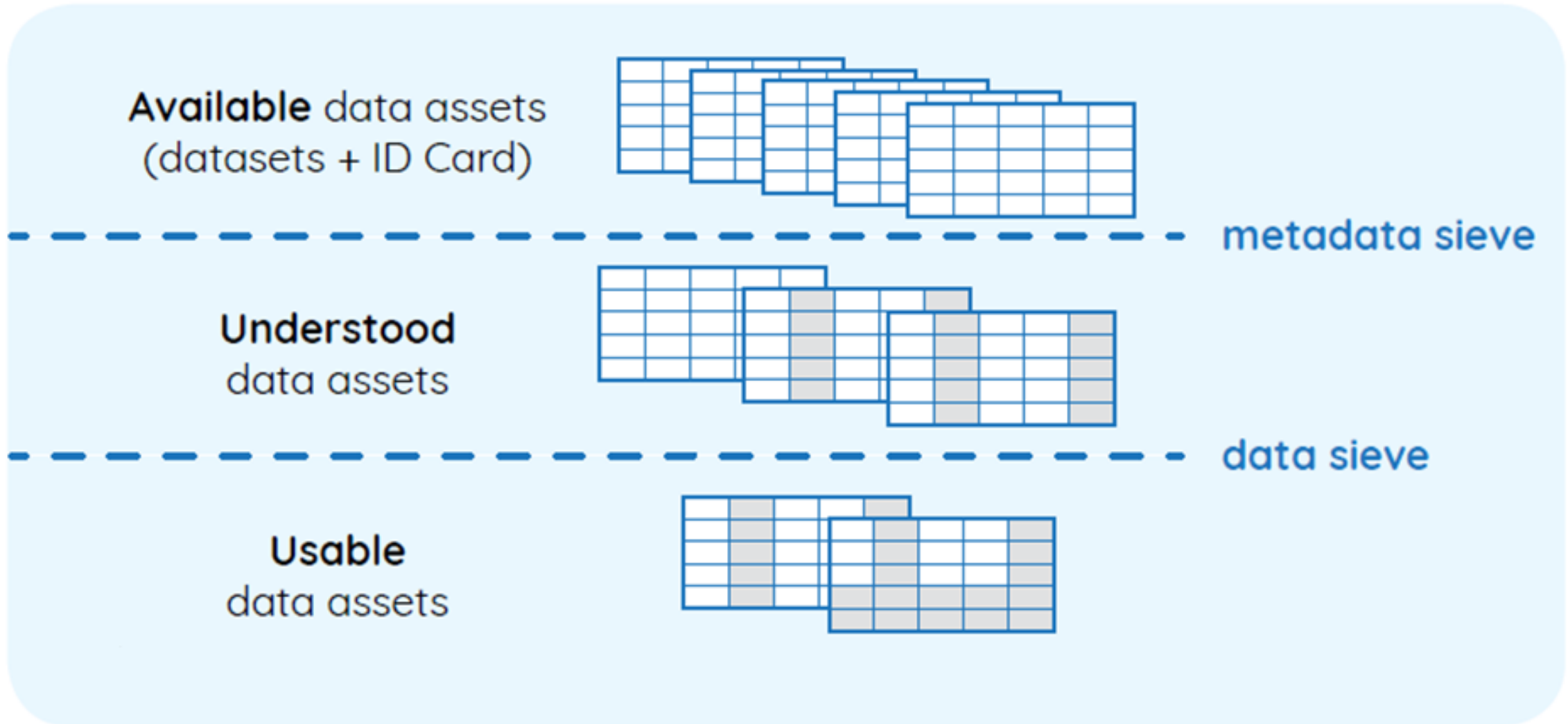
JEPPERSEN
ATHENS

Other logos include: miba, citris, farnival, adif, INTRADOT, Fraunhofer, ITIL, and others.

The “gold mining” metaphor applied to data processing



Maturity stages of data assets and related “sieves”





Data Platforms will Fuel AI-Driven Decision-Making



**Data Generation and Analysis
(including IoT)**

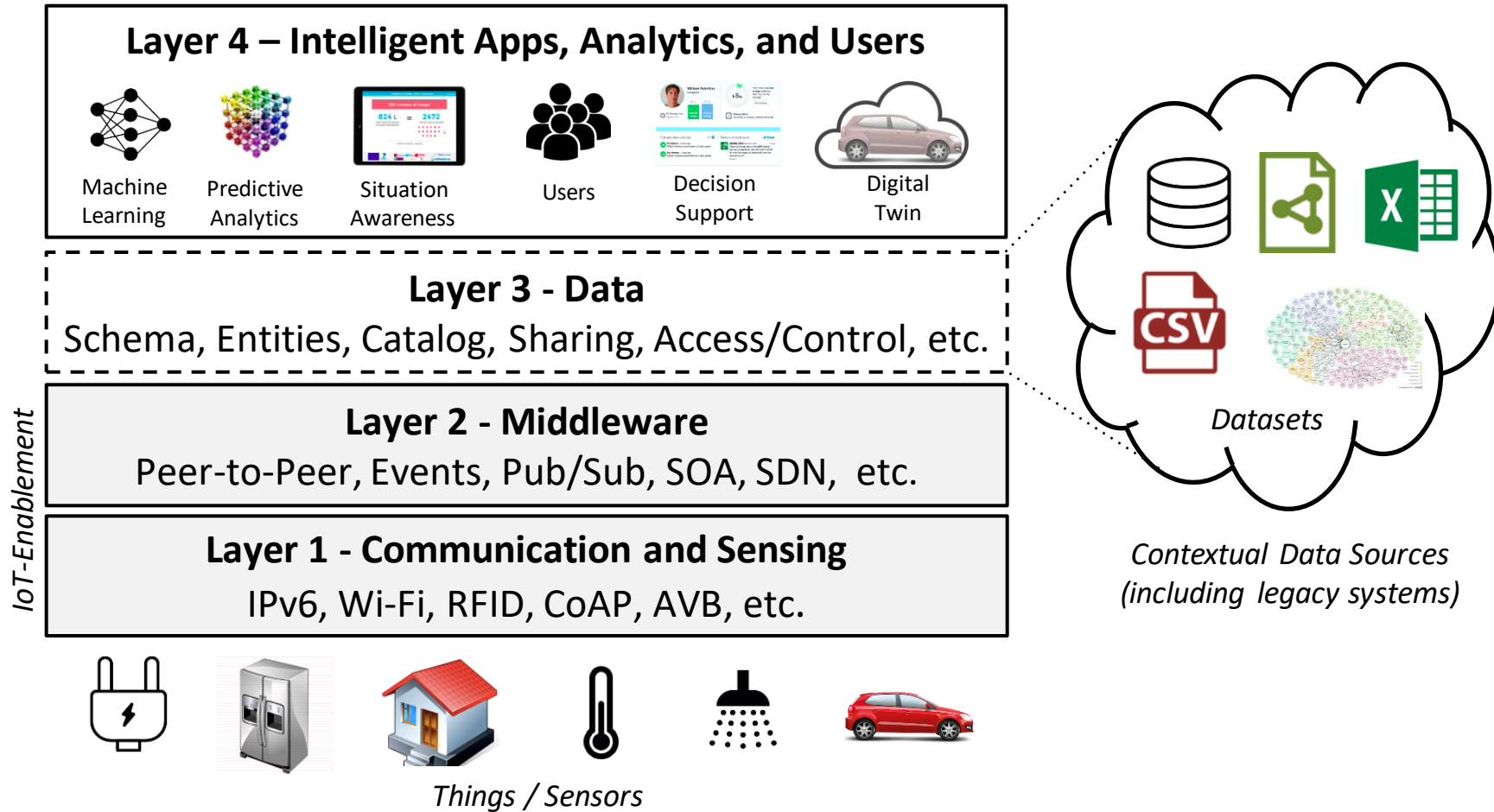


**Data Platforms
(Access and Portability)**



AI and Decision Platforms

A Data Sharing Layer is needed....



What is a Data Sharing Space

Emerging *Data Ecosystems* rely on three complementary technologies:

- ◆ **Data Spaces:** Data storage, lifecycle management platforms and protocols
 - networked industrial and/or personal data spaces
- ◆ **Data Platforms:** Next generation data acquisition and processing platforms
- ◆ **Data Marketplaces:** Data sharing and exchange platforms where data is commercialized using Open Data, Monetized Data and Trusted Data sharing mechanisms.

Wide Angle Perspective.....

.....Different scales and orientations



- Data platform for Aviation
- Across full Value Chain
- Large-scale
- Multi-sector

- Dataspace for Water and Energy Management
- Localized
- Medium-scale

Waternomics



Real-time Linked Dataspaces

Enabling platform for data management for intelligent systems within smart environments

Combines the pay-as-you-go paradigm of dataspace, linked data, and knowledge graphs with entity-centric real-time queries

Open Access Book (dataspaces.info)
Contents

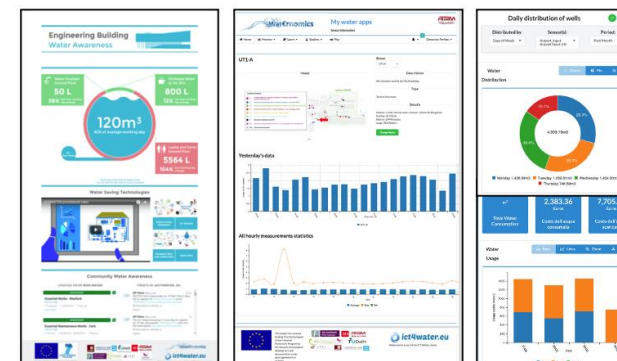
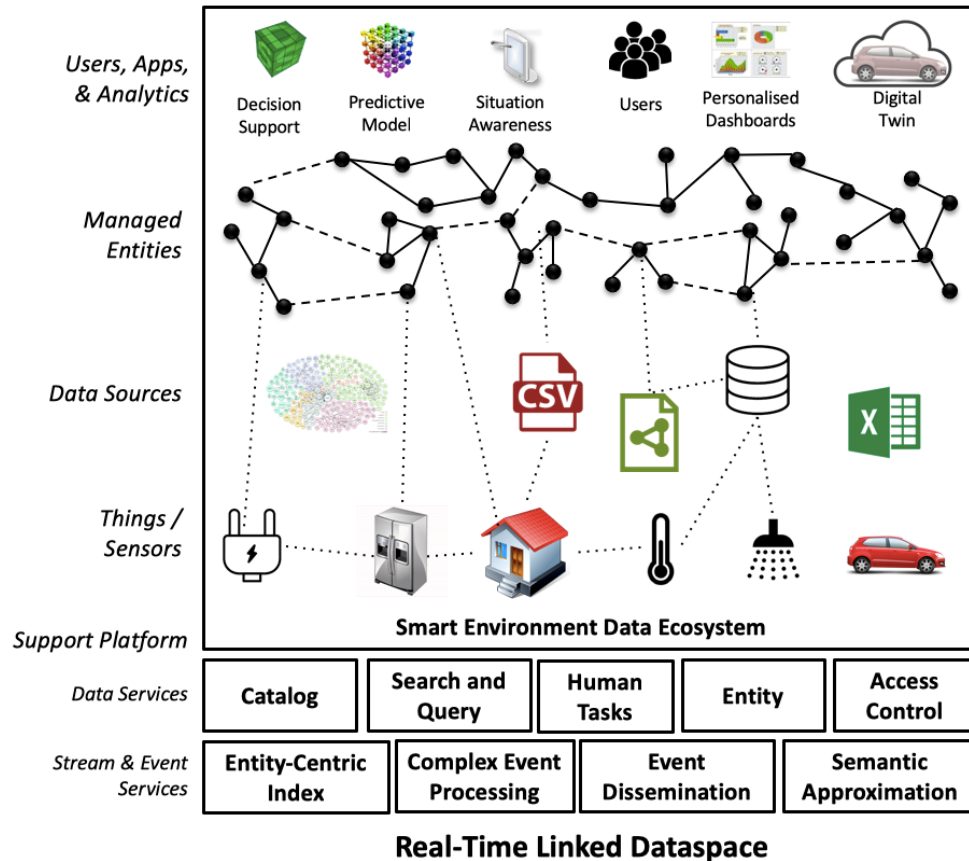
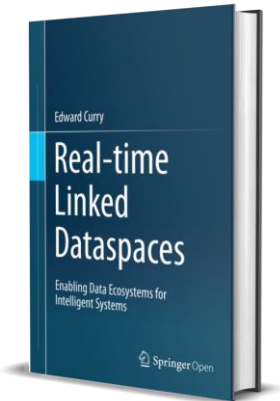
Part I: Fundamentals and Concepts

Part II: Data Support Services

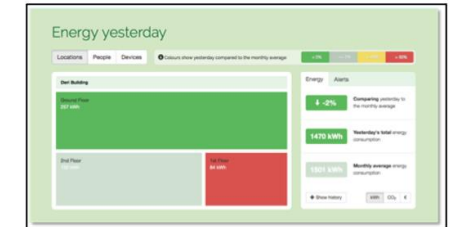
Part III: Stream and Event Processing Services

Part IV: Intelligent Systems and Applications

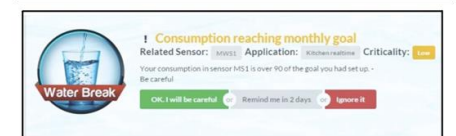
Part V: Future Directions



Personalised Dashboards



Interactive Public Displays



Alerts and Notifications

From Open Data to Public Digital Infrastructures

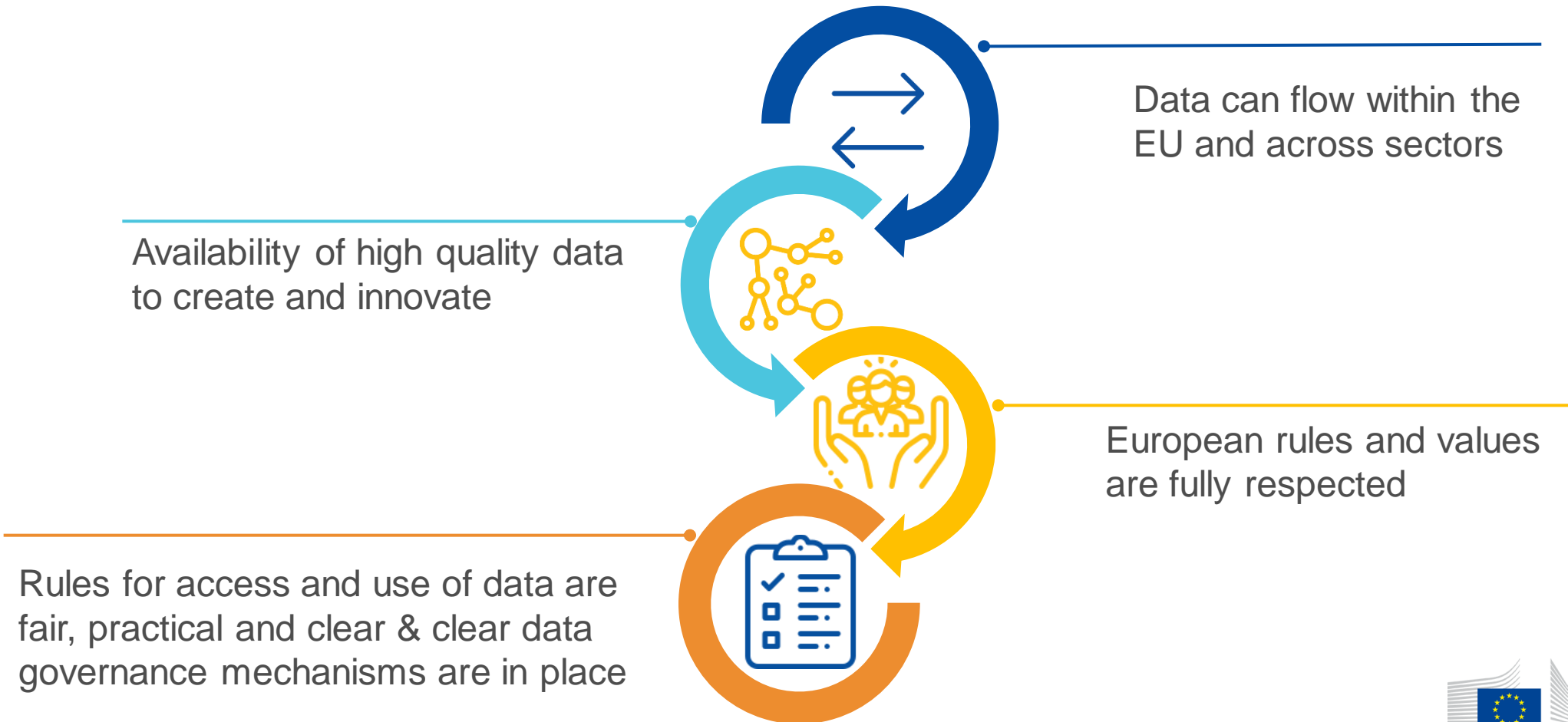
Forward-thinking societies will see the provision of digital infrastructure (including data platforms) as a shared societal service in the same way as water, sanitation, and healthcare.



A European strategy for data

European Strategy for Data

A common European data space, a single market for data



Common European data spaces

Rich pool of data
(varying degree of
accessibility)

Free flow of data
across sectors and
countries

Full respect of GDPR

Horizontal
framework for data
governance and data
access



Health



Industrial &
Manufacturing



Agriculture



Finance



Mobility



Green Deal



Energy



Public
Administration

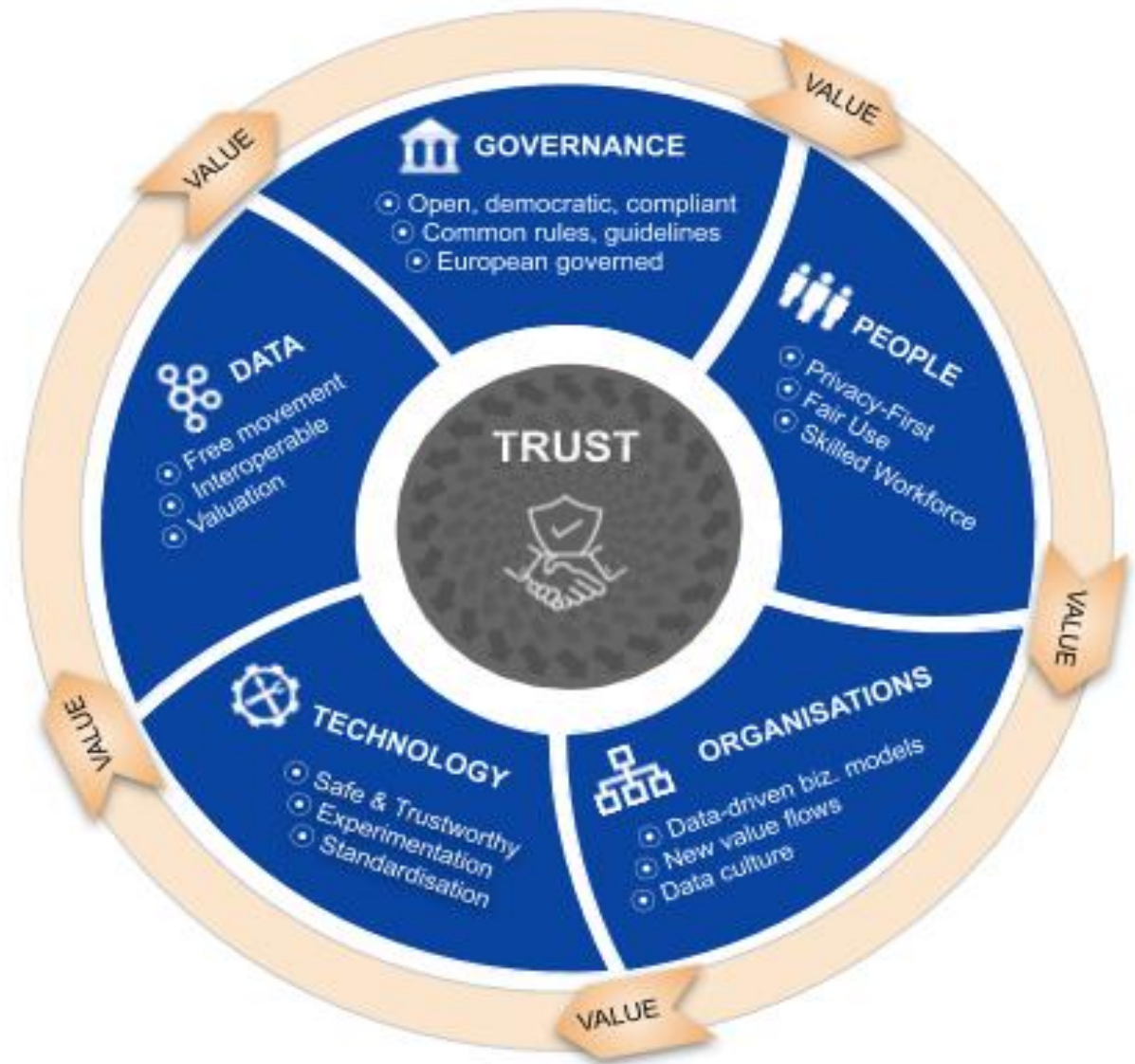


Skills

- Technical tools for data pooling and sharing
- Standards & interoperability (technical, semantic)

- Sectoral Data Governance (contracts, licenses, access rights, usage rights)
- IT capacity, including cloud storage, processing and services

Towards a European-Governed Data Sharing Space



European Partnership on Artificial Intelligence, Data and Robotics

The Vision of the Partnership is to boost European competitiveness, societal wellbeing and environmental aspects to lead the world in researching, developing and deploying value-driven trustworthy AI, Data and Robotics based on fundamental European rights, principles and values.



A joint initiative by:



CLAIRE



EUROPEAN AI, DATA AND ROBOTICS FRAMEWORK AND ENABLERS

European AI, Data and Robotics Framework

European Fundamental Rights, Principles, and Values

Capturing Value for Business, Society, and People

Policy, Regulation, Certification, and Standards (PRCS)

Boosting the Adoption of AI in Europe

Cross-Sectorial AI, Data and Robotics Technology Enablers

Sensing and
Perception

Reasoning
and Decision
Making

Action and
Interaction

Knowledge
and Learning

Systems,
Methodologies,
Hardware
and Tools





7

Dave Hanley

Principal Officer – Reform and Delivery
Office (DPER)

Closing Remarks