



An
Phríomh-Oifig
Staidrimh

Central
Statistics

Yerevan 2019



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PxStat [Alpha]

Preview of the main Interfaces



Open data maturity

2019



1st @ 91%



Ireland



EU: 61%





PX (Pixel Image Editor) ...WHAT?!

Format (specifications)

A way to encode information for storage in a computer file.



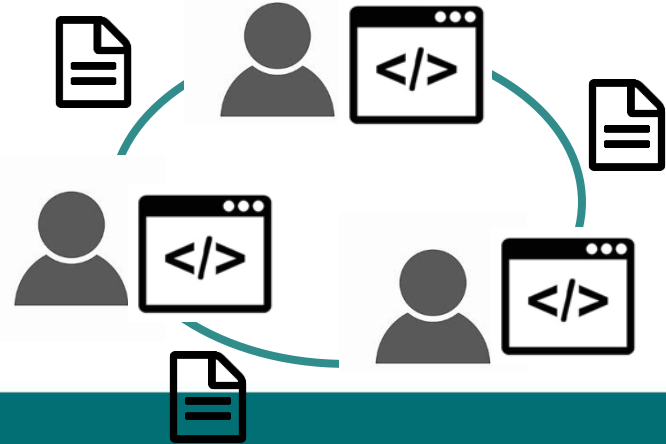
VS

Standard (schema)

Enable interoperability between different programs created by different developers.

PX
CSV

JSON-stat
GeoJSON
SDMX
DOCX
XLSX
etc...





Join at
slido.com
#PX2019

Should we look into changing PX to a Statistical Data & Metadata Exchange Standard?

0 1 4

Yes, it is important.



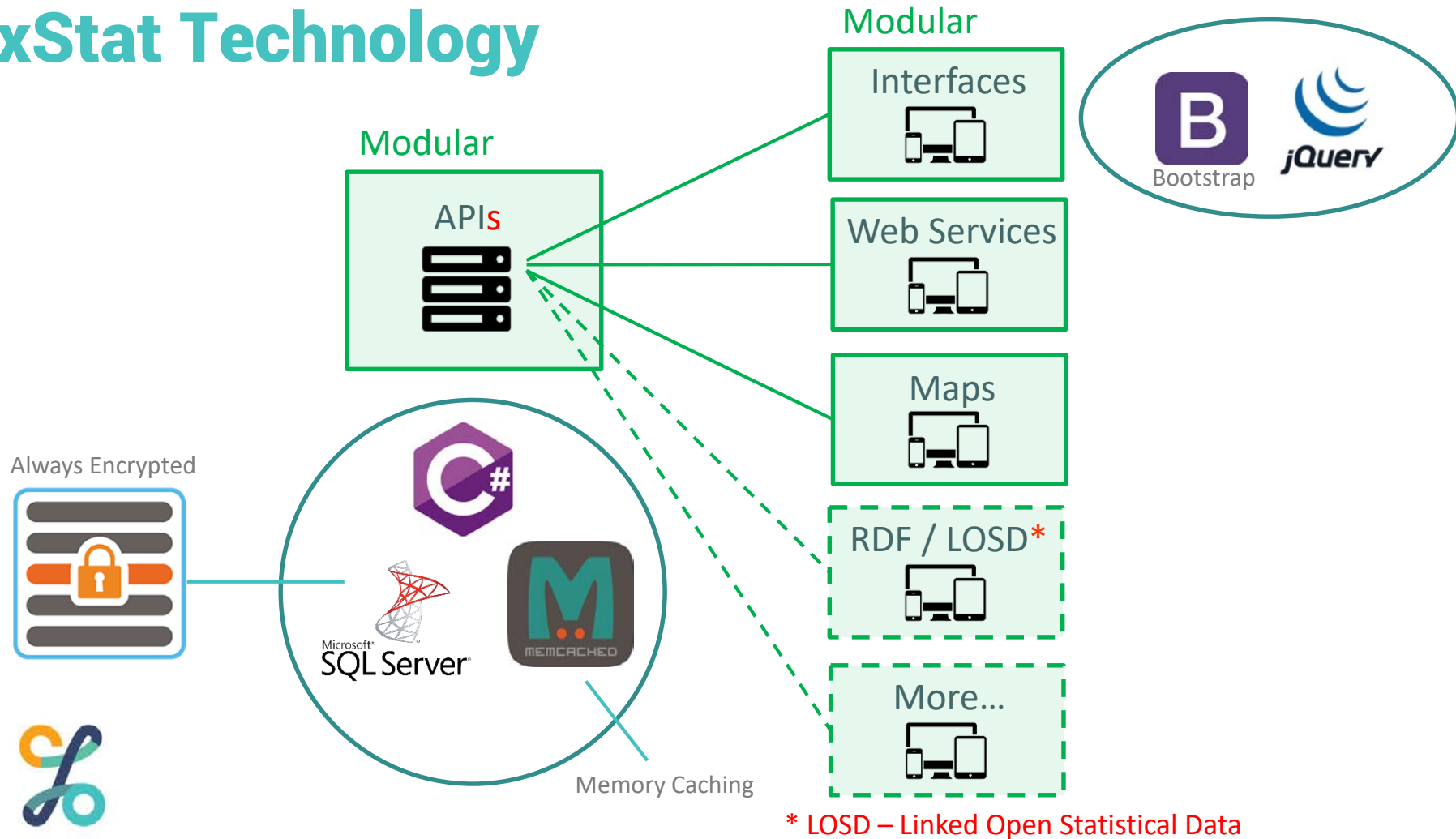
Whatever, I do not care.



No, I do not agree



PxStat Technology

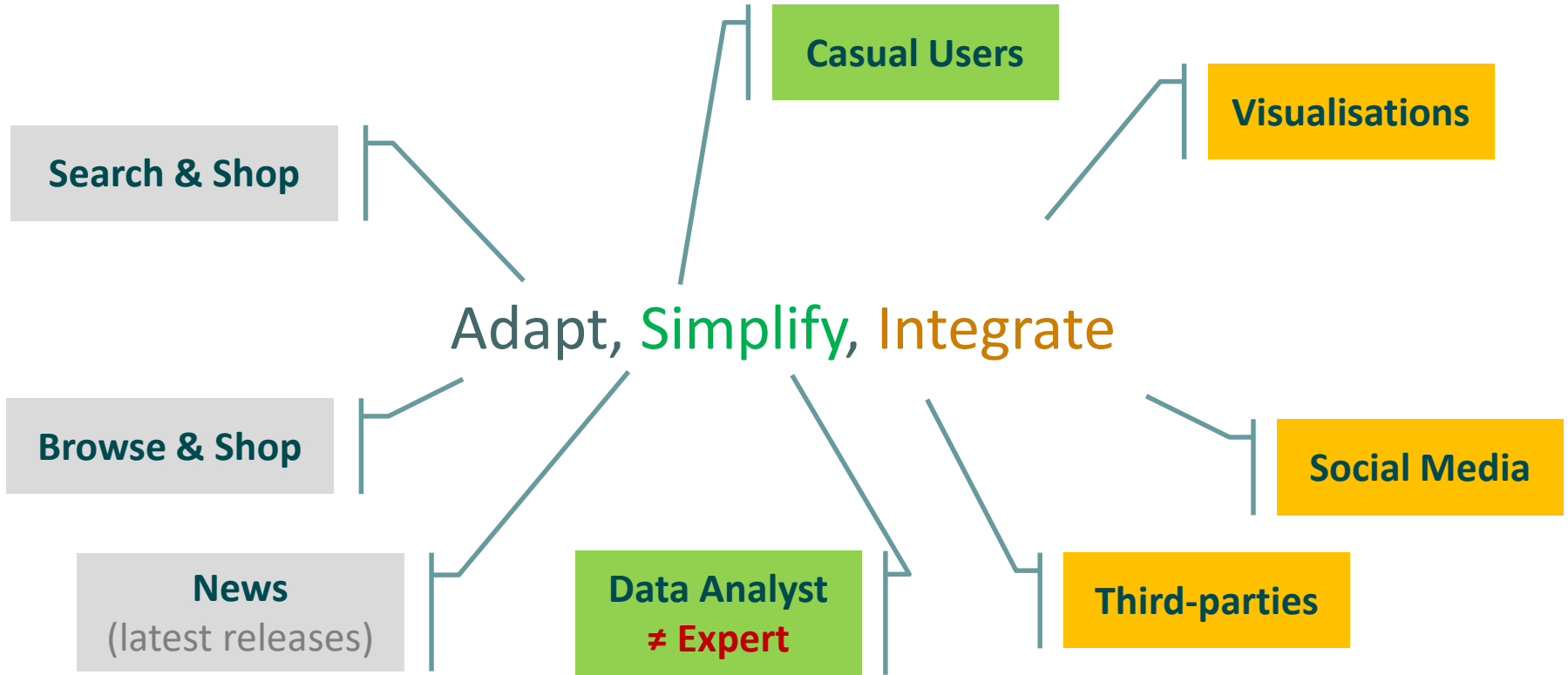




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End-User Search, Find & Consume



Navigation: Data | Dashboard | Releases | Analytics | Build | Manage | Configuration | Keywords | User: Lorenzo Bruni | English

Home

Browse

- Agriculture
- Births
- Census 2006
- Principal Demographic Results**
- Consumer Prices
- Health
- Information Society
- jsobject upd
- LMNEW
- Names
- Transport

Search for Data

Search

Latest Releases From: 03/10/2019

Show 5 entries

| Table | Title | Language | Last Updated |
|---------|---|----------|---------------------|
| AJA1B | Cattle Price (including VAT) | English | 31/10/2019 12:44:59 |
| AJA1 | Cattle Price (including VAT) | English | 18/10/2019 14:44:19 |
| PEA1B | Estimated Migration (Persons in April) (Thousand) | English | 17/10/2019 11:00:00 |
| BHA06 | Planning Permissions Granted for Civil Engineering Projects (Number) | English | 16/10/2019 15:17:38 |
| CDR25JC | Population Aged One Year and Over Usually Resident and Present in the State Who Lived Outside the State for One Year or More (Number) | English | 16/10/2019 10:34:20 |

Showing 1 to 5 of 14 entries

Previous 1 2 3 Next

API Read Collection

For more information on this API, see the documentation on GitHub.

URL

1 https://test-vs.cso.ie/public/api.jsonrpc

JSON query

```

1 {
2   "jsonrpc": "2.0",
3   "method": "PxStat.Data.Cube.API.ReadCollection",
4   "params": {
5     "language": "en",
6     "datefrom": "2019-10-03"
7   }
8 }
```

**Browse by
Subject & Product**

**Quick access to the
Latest Releases**

**Full Search
across
all Meta-Data**
(e.g. How
many people
live in Dublin?)

API – Read Collection
Machines can enquiry about
present & past Releases by Date



Home

Sort Results by
Relevance, Newest, Oldest

Search Results
sorted by Ranking
(e.g. like Google)

Browse

Relevance Sort

Languages

English 4

Subjects

Agriculture 3

Health 1

Products

Wheat 1

Wheat2 2

Transplants 1

Copyrights

Central Statistics Office, Ireland 4

People in Dublin

Search

Persons on the Live Register (Number)

LRM17

Sex Age Group Region Month [2012M01-2018M07]

Last Updated: 10/10/2019 14:54:08

English

© Central Statistics Office, Ireland

Business Demography NACE Rev 2

BRA08

Employment Size County Year [2008-2017]

Last Updated: 28/08/2019 12:15:13

English

© Central Statistics Office, Ireland

Population Density and Area Size 2011 to 2016

E2013

Electoral Division Census Year [2016-2016]

Last Updated: 19/09/2019 14:34:28

English

© Central Statistics Office, Ireland

Recorded Crime Offences Under Reservation (Number)

CJQ03

Type of Offence Garda Division Quarter [2003Q1-2019Q2]

Last Updated: 10/10/2019 11:44:13

English

© Central Statistics Office, Ireland

First Previous 1 Next Last

Filter Results like
in a shopping-cart
(e.g. like Amazon)

people dublin

Search

Back

Persons on the Live Register (Number)

LRM17

Last Updated: 10/10/2019 14:54:08

English

Central Statistics Office, Ireland

Statistic

Filter

Persons on the Live Register (Number) (Number)

Month

Filter

2018M05
2018M04
2018M03
2018M02
2018M01
2017M12
2017M11
2017M10

Sex

Filter

Both sexes
Male
Female

Region

Filter

Mid-West
South-East
South-West
Eastern and Midland
Dublin
Mid-East
Midland

Age Group

Filter

Under 25 years
25 years and over
All ages

Codes

False

Data Cells Selected: 12 / 6,532

Reset

View Selection

API: Read Dataset

Copy

https://dev-data.cso.ie/table

Facebook

Twitter

LinkedIn

YouTube

StumbleUpon

Notes & Links
with friendly
formatting

Full Download
PX, CSV,
JSON-stat

Contact Details

Share
on Social-Media



Slice & Dice
the Dataset

Filter & Sort by
Dimensions

Hide / Show
Codes

Results

Show 100 entries

View Results
in interactive
Data-tables

Sort by
Dimensions

Filter & Search
"on-the-fly"

| Statistic | Month | Sex | Region | Age Group | Unit | Value |
|---------------------------------------|---------|------|--------|-----------|--------|--------|
| Persons on the Live Register (Number) | 2018M01 | Male | Dublin | All ages | Number | 34,517 |
| Persons on the Live Register (Number) | 2018M02 | Male | Dublin | All ages | Number | 34,370 |
| Persons on the Live Register (Number) | 2018M03 | Male | Dublin | All ages | Number | 33,699 |

Showing 1 to 3 of 3 entries

Previous 1 Next

Codes

False

Hide / Show
Codes

Download Results
PX, CSV, JSON-stat

Download Results

JSON-stat
PX
CSV

API: Read Dataset

For more information on this API, see the documentation on [GitHub](#).

URL

1 | <https://test-ws.cso.ie/public/api.jsonrpc>

JSON query

```
1 {
2   "jsonrpc": "2.0",
3   "method": "PxStat.Data.Cube_API.ReadDataset",
4   "params": {
5     "matrix": "LRM17",
6     "language": "en",
7     "format": "json-stat",
8     "role": {
9       "time": [
10        "TLIST(M1)"
11      ]
12    }
13  }
```

API – Read Dataset
Machines can Slice & Dice any Dataset
(i.e. build interactive Applications,
Visualisations etc...)



Browse

Download Full Dataset

JSON-stat
PX
CSV

Contact

Name HH
Email test01@cso.ie

Share

https://dev-data.cso.ie/table



People in Dublin

Search

Back

Rolling 12 Month Market-based Household Purchases of Residential Dwellings

HPM08

Last Updated 13/09/2019 14:31:09

English

Dwelling Status Eircode Output Stamp Duty Event Type of Buyer Month [2010M12 - 2019M06]

Central Statistics Office, Ireland

Data

Statistic

Moving 12 Month Mean Sale Price (Euro)

Month

2019M06

Dwelling Status

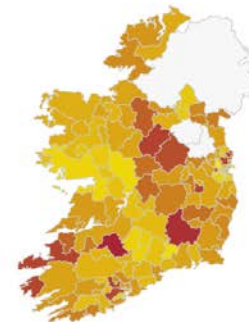
All Dwelling Statuses

Stamp Duty Event

Filings

Type of Buyer

All Buyer Types



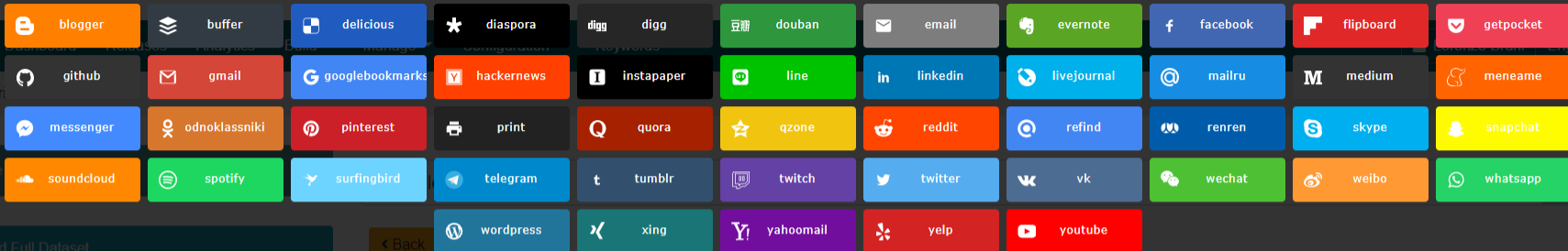
0 250k 500k 750k 1,000k

Slice & Dice
Dataset over a Map

Interactive
GeoJSON Maps
for geographical Tables



Share
in any Social Media



Download Full Dataset

JSON-stat

PX

CSV

Contact

Name HH

Email test01@cso.ie

Rolling 12 Month Market-based Household Purchases of Residential Dwellings

HPM08

Last Updated: 13/09/2019 14:31:09

English

© Central Statistics Office, Ireland

Dwelling Status Eircode Output Stamp Duty Event Type of Buyer Month [2010M12 - 2019M06]

Map

Statistic 2

Filter

Moving 12 Month Mean Sale Price (Euro) (Euro)
Moving 12 Month Median Sale Price (Euro) (Euro)

Month 103

Filter

2019M06
2019M05
2019M04
2019M03
2019M02
2019M01
2018M12
2018M11



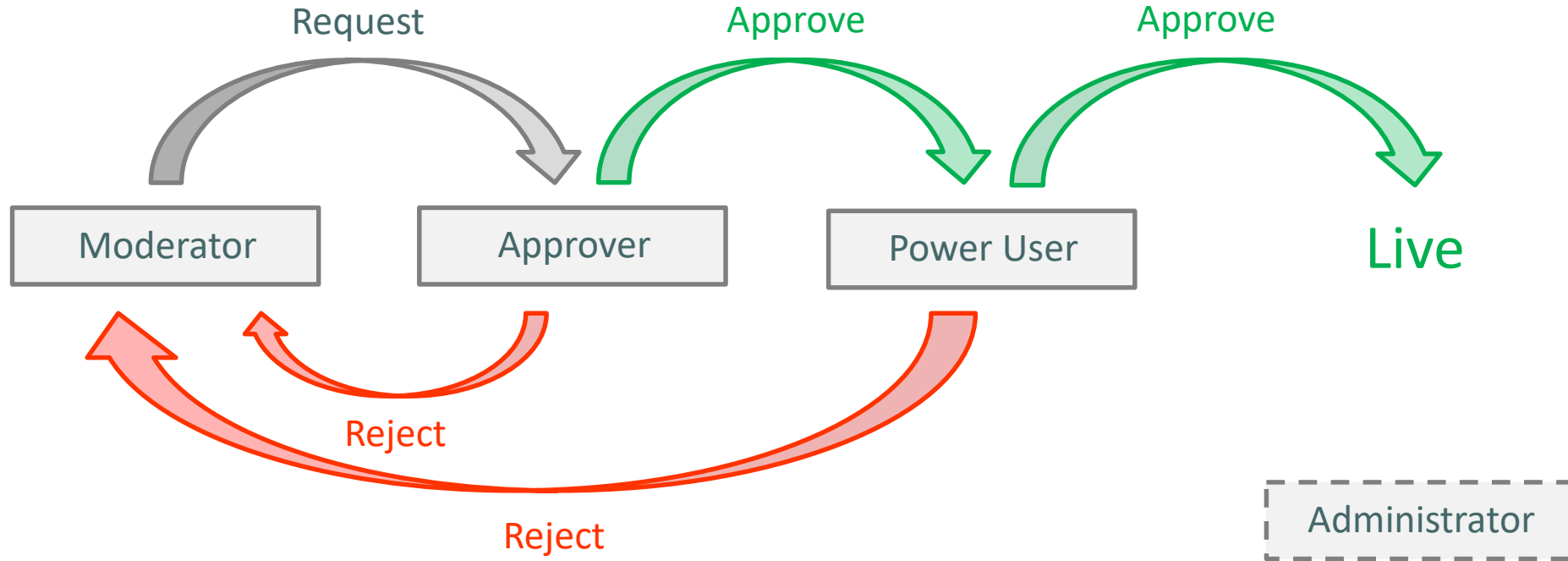
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Publishers Managing & Publishing Releases



Release Workflow



* UAT – User Acceptance Test

www.cso.ie

Access Control of Tables by Groups

Select

Table

HPM08

HPM08

Show 10 entries

Search:

Release

Status

Live From

3.15

Work In Progress

3.0

Live

13/09/2019 14:31:09

2.0

Historical

13/09/2019 14:17:26

1.0

Historical

28/08/2019 14:55:21

13/09/2019 14:17:26

Showing 1 to 4 of 4 entries

Previous 1 Next

Version Control of Tables

Review & Compare Historical, Live, Work in Progress Releases

Work In Progress

Show 10 entries

Search:

Table

Group

003FI

TEST01

AJA01D

TEST01

ajkul

TEST01

BE0101N1

TESTJC

BRA08

TEST01

CBM02

TESTLM

CDR18

TEST01

CPA01

TEST01

CPA01jc

TEST01

CPM01

TEST01

Showing 1 to 10 of 46 entries

Previous 1 2 3 4 5 Next

Browse across
Releases of the
same Table

HPM08

Show 10 entries Search

| Release | Status | Live From | Live To |
|---------|------------|---------------------|---------------------|
| 4.0 | Live | 05/11/2019 13:54:39 | |
| 3.0 | Historical | 13/09/2019 14:31:09 | 05/11/2019 13:54:39 |
| 2.0 | Historical | 13/09/2019 14:17:26 | 13/09/2019 14:31:09 |
| 1.0 | Historical | 20/08/2019 14:55:21 | 13/09/2019 14:17:26 |

Showing 1 to 4 of 4 entries

Previous 1 Next

Review Table's
Information

Information

| | |
|------------|---------------------|
| Table | HPM08 |
| Release | 4.0 |
| Status | Live |
| Live From | 05/11/2019 13:54:39 |
| Live To | |
| Emergency | ✓ |
| Group | TEST01 |
| Subject | Agriculture |
| Product | 10Wheat2 |
| Analytical | True |
| Dependency | True |

Update Navigator

Review Table's
Properties

Properties

| | |
|-------------------|---|
| Under Reservation | ✓ |
| Archived | ✓ |

Review Table's
Source

Source

| | |
|---------------------|--|
| Language | English |
| Title | Rolling 12 Month Market-based Household Purchases of Residential Dwellings |
| Uploaded Date | 22/10/2019 23:59:15 |
| Uploaded By | brunl |
| Frequency | Month |
| Copyright | Central Statistics Office, Ireland |
| Official Statistics | ✓ |
| Footnote | |

Download Source View Source





View Data Compare Release

View / Compare / Download
Data across different Releases
or in Embargo



Show 10 entries

Search:

| Release | Status | Live From | Live To |
|---|------------|---------------------|---------------------|
|  4.0 | Live | 05/11/2019 13:54:39 | |
|  3.0 | Historical | 13/09/2019 14:31:09 | 05/11/2019 13:54:39 |
|  2.0 | Historical | 13/09/2019 14:17:26 | 13/09/2019 14:31:09 |
|  1.0 | Historical | 28/08/2019 14:55:21 | |

Showing 1 to 4 of 4 entries

Manage a Release Workflow:
Publish, Delete, Rollback, Update

Workflow Request

Type

[+ Add Request](#)

Audit the Workflow History
of each Release

Workflow History

Show 10 entries

Search:

| Request | Created Date | | Response | Sign-Off |
|---------|---------------------|-------------------------|----------|----------|
| Publish | 05/11/2019 13:54:02 | Details | ✓ | ✓ |
| Publish | 05/11/2019 13:53:20 | Details | ✗ | |

Showing 1 to 2 of 2 entries

[Previous](#) [1](#) [Next](#)

Add Request

Type Publish

*Emergency

False

*Publish Date

06/11/2019 11:00:00

*Under Reservation

True

*Archived

True

Comment

B I U

Monthly Release **December 2019**.

Data back-cast for November 2019.

Footnote amended...

P

POWERED BY TINY

Cancel

Add

Mark **Emergency** Releases based on the Embargo Policy

Manage **Embargoes** by scheduling publications

Mark a Release as **Under Reservation, Archived** where applicable

Work In Progress

Show 10 entries

Search:

Table

Group

BE0101N1

TESTJC

BRA08

TEST01

CBM02

TESTLM

CDR18

TEST01

CPA01

TEST01

CPA01ic

TEST01



Select

Date Range: 6/19/2019 - 6/11/2019

Subject: Agriculture

Product: 1(Wheat)

IP Address: sample IP Address: 192.168.211

Clear Submit

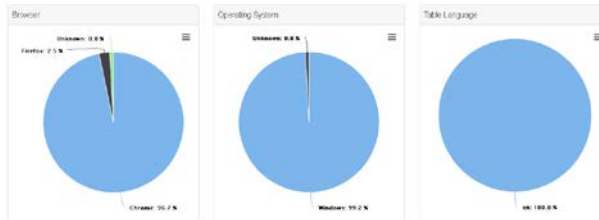
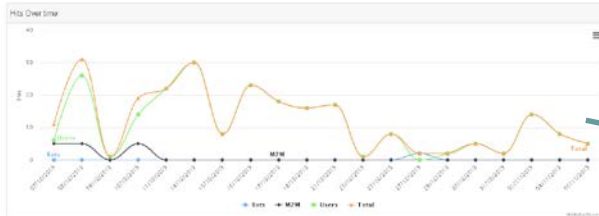
Analytics

Show 12 entries

| Table | Subject | Product | Date Published | Bots | M2M | Users | Total |
|--------|-------------|----------|---------------------|------|-----|-------|-------|
| AJAN1 | Agriculture | 1(Wheat) | 10/19/2019 14:44:19 | 2 | 0 | 94 | 96 |
| S2013 | Agriculture | 1(Wheat) | 19/09/2019 14:34:28 | 0 | 5 | 6 | 11 |
| LRM17 | Agriculture | 2(Wheat) | 10/19/2019 14:54:08 | 0 | 5 | 5 | 10 |
| AS433g | Agriculture | 1(Wheat) | 05/10/2019 12:58:08 | 0 | 5 | 2 | 7 |
| H0R03 | Agriculture | 1(Wheat) | 05/10/2019 13:54:39 | 0 | 0 | 4 | 4 |

Showing 1 to 5 of 5 entries (filtered from 14 total entries)

Previous 1 Next












































Get **Analytics** by
Date, Subject, Product, IP

Break down Analytics by
Users, M2M (API), Bots
(Search Engines) into an
interactive Datable

Visualise Analytics by
Hits Over Time, Browser,
Operating System, Language,
Referrer



| Users | | | | | |
|--|--------------------------|--|---|---------------|--|
| Show 10 entries | | Search: | | | |
| Username | Name | Email | Notifications | Role | |
|  brunil | Lorenzo Bruni |  lorenzo.bruni@cso.ie |  | Administrator |  Delete |
|  Carrollj | John Carroll |  john.carroll@cso.ie |  | Administrator |  Delete |
|  fitzgeraldsmithr | Rebecca Fitzgerald Smith |  rebecca.fitzgeraldsmith@cso.ie |  | Administrator |  Delete |
|  hanarmyc | Conal Hanamy |  conal.hanamy@cso.ie |  | Moderator |  Delete |
|  hayesr | Rose Hayes |  rose.hayes@cso.ie |  | Administrator |  Delete |
|  healyr | Richard Healy |  richard.healy@cso.ie |  | Moderator |  Delete |
|  howarde | Elaine Howard |  elaine.howard@cso.ie |  | Power User |  Delete |
|  millarl | Liam Millar |  liam.millar@cso.ie |  | Power User |  Delete |
|  moonneyg | Grainne Mooney |  Grainne.Mooney@cso.ie |  | Moderator |  Delete |
|  okeeffene | Neil O'Keeffe |  neil.okeeffe@cso.ie |  | Administrator |  Delete |
| Showing 1 to 10 of 15 entries | | | | | |
| Previous 1 2 Next | | | | | |
|  Add User | | | | | |

Users are automatically identified and traced via
Single Sign-On
(no login required)

Manage **Roles** and **Users**
easily imported from **AD**
(Active Directory)

Groups

Show 10 entries Search: th

| Code | Name | Information | Users | Releases | |
|--------|-------------|-------------|-------|----------|--------|
| BIRTH | BirthReg | Information | 0 | 1 | Delete |
| HEALTH | Dept-health | Information | 0 | 1 | Delete |
| NAMES | BirthNames | Information | 3 | 4 | Delete |

Showing 1 to 3 of 3 entries (filtered from 15 total entries)

Previous 1 Next

Add Group

Manage **Groups** to restrict access to Tables (e.g. Embargo, Confidentiality etc..)

NAMES - Members

Show 10 entries Search:

| Username | Name | Role | |
|----------|----------------|--------|--------|
| hanamyc | Conal Hanamy | Member | Delete |
| healyr | Richard Healy | Member | Delete |
| mooneyg | Grainne Mooney | Member | Delete |

Showing 1 to 3 of 3 entries

Previous 1 Next


Add Member

NAMES - Edit

Manage **Access Control** and **Privileges** by assigning Users into Groups



Email

| | |
|----------|---|
| Group | <div>× TRANSPORT (VehicleTransport) × HEALTH (DeptHealth)</div> |
| *Subject | <div>Kind remind</div> |
| *Message | <div><div>B <i>I</i> <u>U</u> </div><div>Please remember to keep up with the Release Calendar! Thanks :-)</div><div>P</div></div> <div>POWERED BY TINY</div> |

⌛ Reset

✉ Send E-mail

Send Emails to **Groups**
(Business Area)

Data Dashboard Releases Analytics Build Manage Configuration

Home / Keywords / Releases

Select

Keywords are automatically language-driven to enhance search results

Releases

Show 10 entries

Release

Status

Live From

Live To

1.0

Live

18/10/2019 14:44:19

Showing 1 to 1 of 1 entries

Previous 1 Next

Release Keywords

Show 10 entries

Search:

Add Release Keyword

| | |
|----------|--------------------------------------|
| Table | AJA01 |
| Release | 1.0 |
| *Keyword | <input type="text"/> |
| Acronym | <input type="checkbox"/> False |
| Language | <input type="text" value="English"/> |

Keywords that are not acronyms are automatically singularised according to the selected Language.

Cancel

Add

Extend Meta-Data by mapping additional **Keywords** or **Acronyms**.



Reasons

Show 10 entries

Code

7WHY

QAA-IV

Reasons can be mapped against Releases to audit & track changes against Policies

JCRSN123401234567890123456789012

JCRSN2

MONTHLYRELEASE

Information

Delete

Information

Delete

Information

Delete

Add Reason

*Code

SEASONAL

*Internal Description

B I U 

Seasonally Adjusted Release, following the *Directive XYZ*, under the *Policy ABC*.

Etc...

P POWERED BY TINY

*External Description

B I U 

This Release contains **Seasonally Adjusted** data.

Please go to www.cso.ie/seasonal/info for more information.

P POWERED BY TINY

Cancel

Add Reason

Implement (optinal) Change Control polices by managing Reasons





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Builders Previews for building Tables

An alternative
Web Interface to
Create or Update
Tables

Update Tables by
feeding CSV data



AS Statistics Office Central Statistics Office data.cso.ie

Data Dashboard Release Analytics Build Manage Configuration Keywords

Home / Build / Update

Upload Source File

000097U_V2_R0_20190320T230301.px (14 KB)
UTF-8 encoding and max file size of 100 MB allowed

Preview Cancel Upload

Properties

*Table: 000097U

*Languages: English (en)

*Frequency Code: TUSSTAT - Annual

*Copyright: Central Statistics Office, Ireland

*Official Statistics:

Components

English

Properties

Structure

Classifications

Show: 12 entries Search

| Code | Value | GeoJSON URL | Variables No. |
|-------------|---------|-------------|---------------|
| 00277V03348 | Country | | 27 |
| 00277V03348 | Sex | | 3 |

Showing 1 to 2 of 2 entries

Previous

Data

Choose a CSV file or drag it here.
UTF-8 encoding and max file size of 100 MB allowed

Preview Generate Data Template Cancel Upload

Build & Review visually
the Structure of Tables

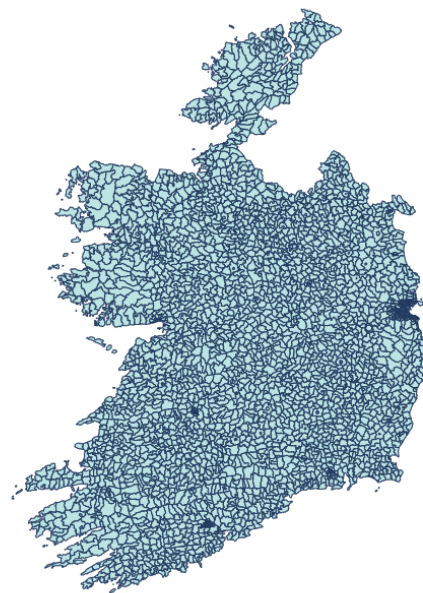
PX and JSON-stat
are both supported as
Exchange-Formats

Show 10 entries

Search:

| Code | Value |
|-------|---------------|
| 01001 | Carlow Urban |
| 01002 | Graigie Urban |
| 01003 | Clonmore |
| 01004 | Hacketstown |
| 01005 | Haroldstown |
| 01006 | Kineagh |
| 01007 | Rahill |
| 01008 | Rathvilly |
| 01009 | Tiknock |
| 01010 | Williamstown |

Showing 1 to 10 of 3,409 entries

[Previous](#) [1](#) [2](#) [3](#) [4](#) [5](#) [...](#) [341](#) [Next](#)

Add **GeoJSON Maps** to
geographical Classifications





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