An Phríomh-Oifig Staidrimh
Central Statistics

Yerevan 2019

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PxStat [Alpha]

Preview of the main Interfaces

https://github.com/CSOIreland/PxStat

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.

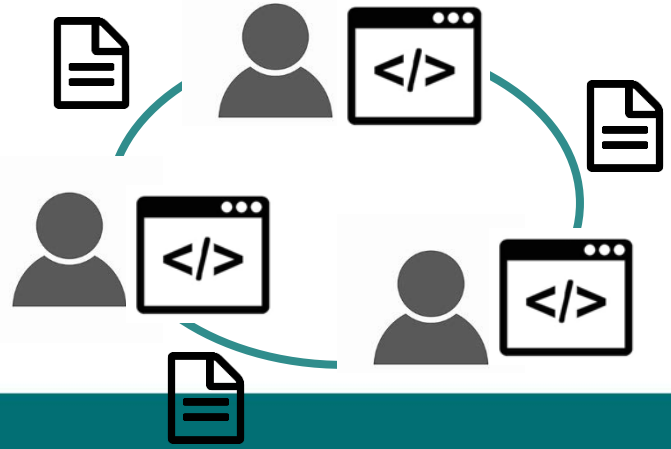
VS

PX
CSV

Standard (schema)

Enable interoperability between different programs created by different developers.

JSON-stat
GeoJSON
SDMX
DOCX
XLSX
etc...



Active poll

Join at
slido.com
#PX2019

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

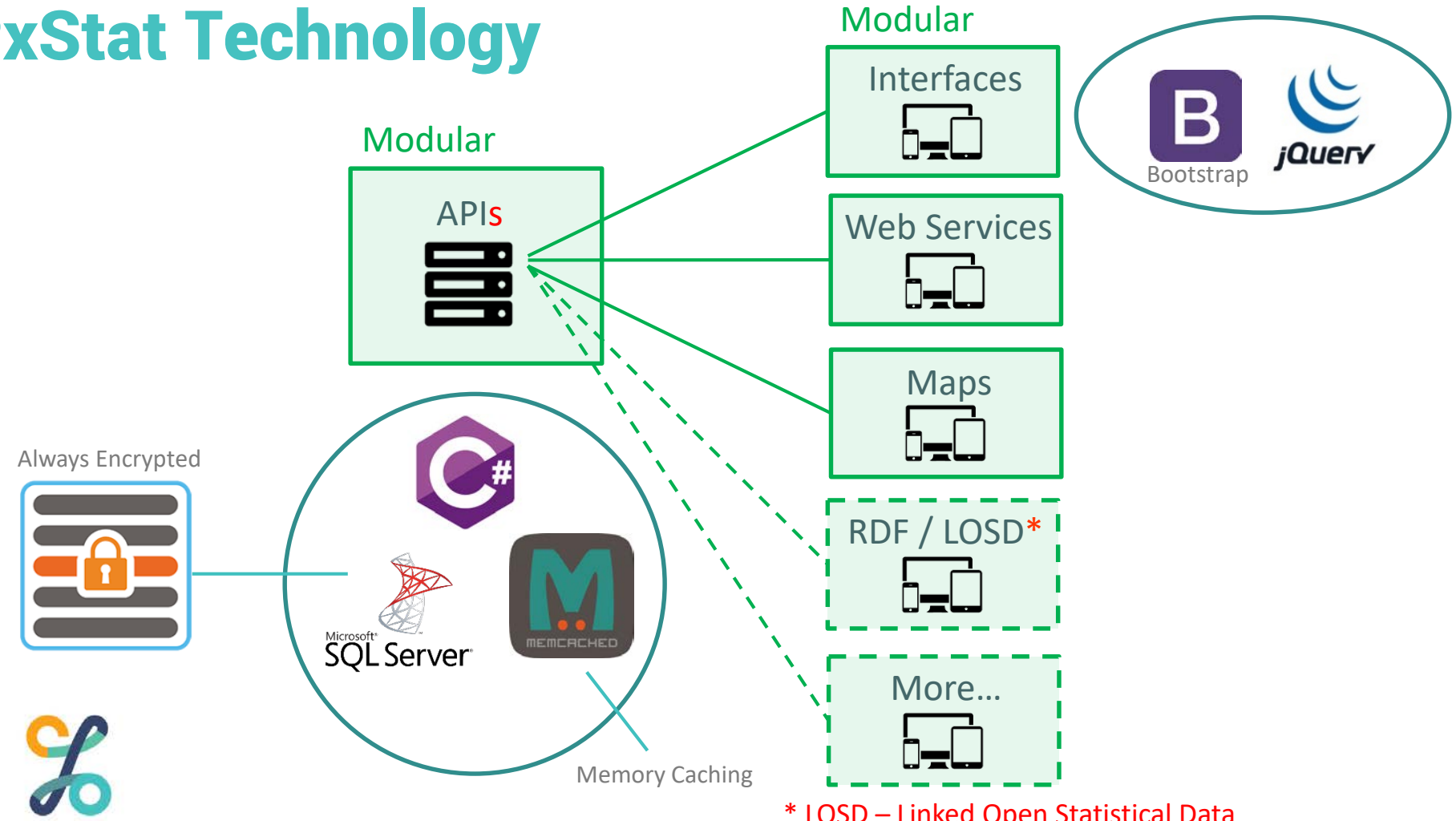
0 1 4

Yes, it is important.
64%

Whatever, I do not care.
36%

No, I do not agree
0%

PxStat Technology



* LOSD – Linked Open Statistical Data

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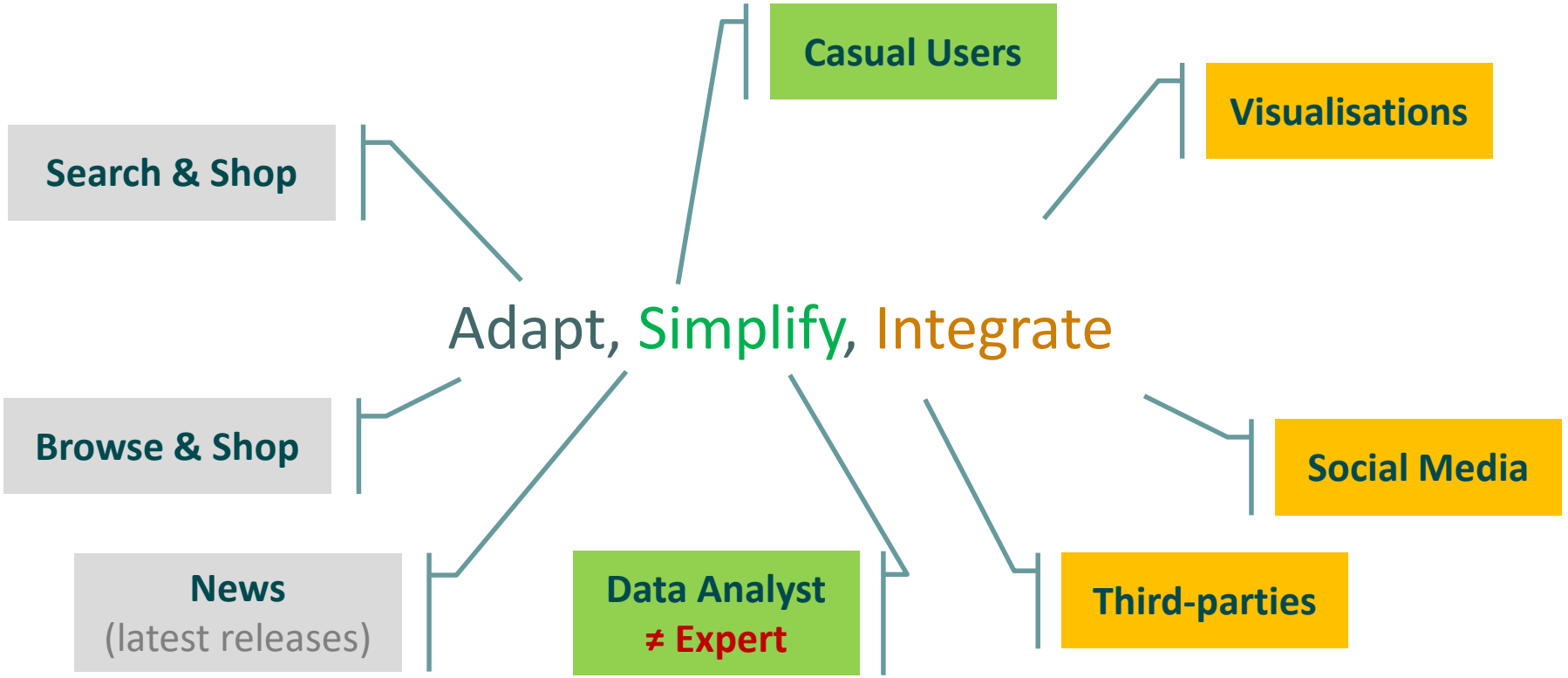
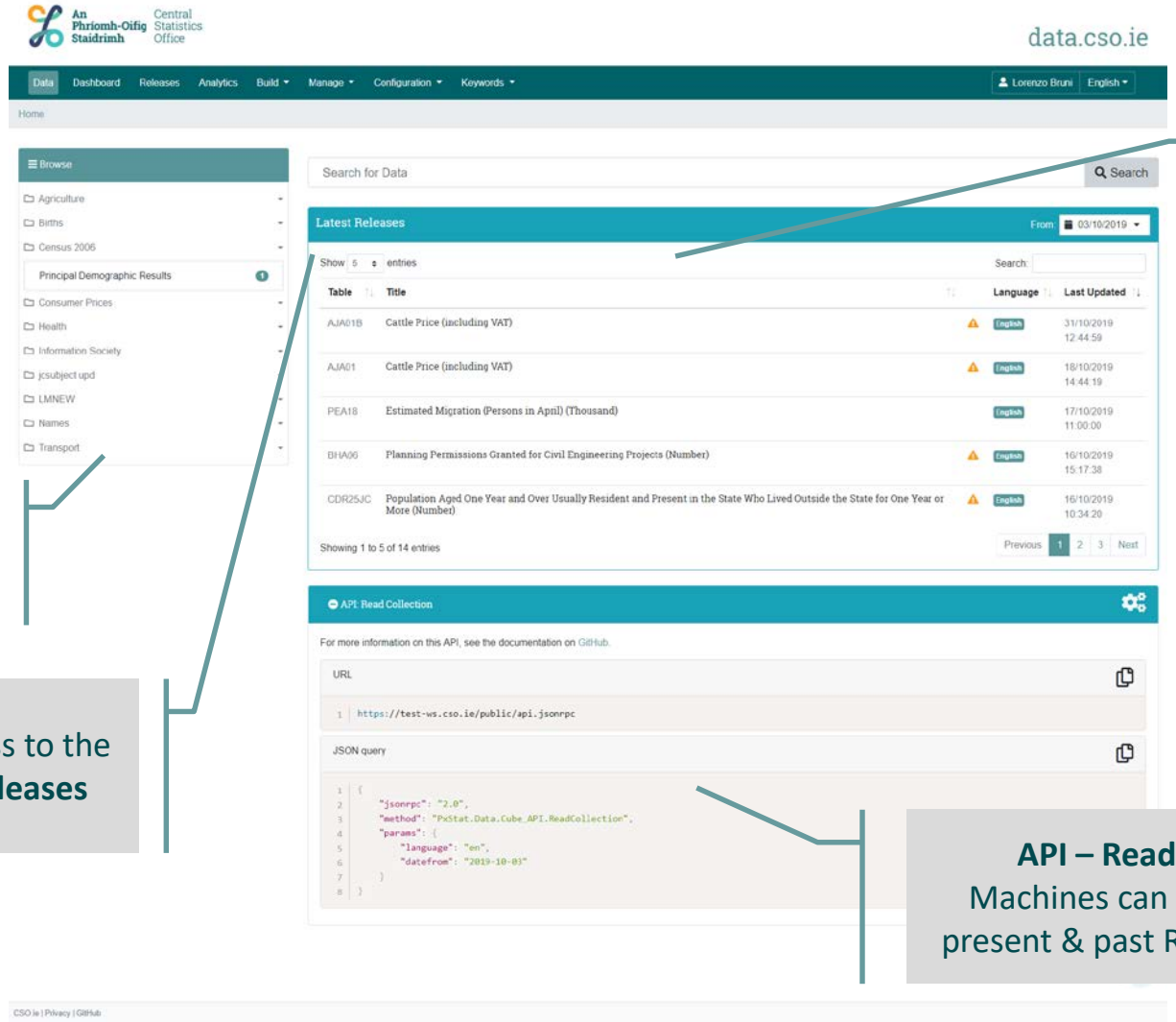
Central Statistics Office

End-User Search, Find & Consume


Casual Users
Visualisations
Search & Shop
Adapt, Simplify, Integrate
Browse & Shop
Social Media
News
(latest releases)
Data Analyst
≠ Expert
Third-parties



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

Browse by Subject & Product

Quick access to the **Lasted Releases**

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

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data.cso.ie

Sort Results by
Relevance, Newest, Oldest

Data | Dashboard | Releases | Analyt | Lorenzo Bruni | English

Home

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

Browse

People in Dublin | Search

Relevance | Sort

Languages
- English 4

Subjects
- Agriculture 3
- Health 1

Products
- Wheat 1
- Wheat2 2
- Transplants 1

Copyrights
- Central Statistics Office, Ireland 4

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*)

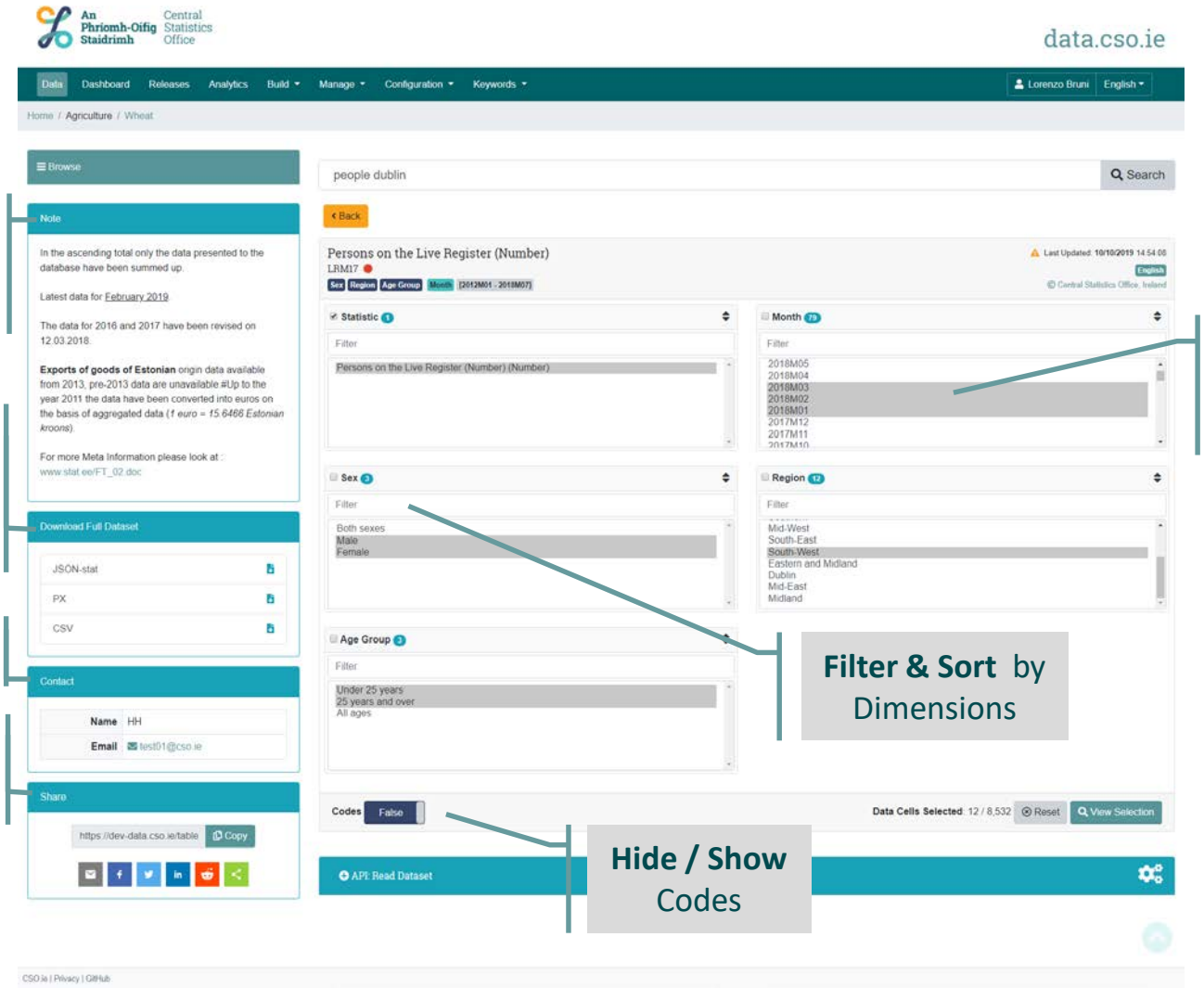
CSO.ie | Privacy | GitHub

Notes & **Links**
with friendly
formatting

Full Download
PX, CSV,
JSON-stat

Contact Details

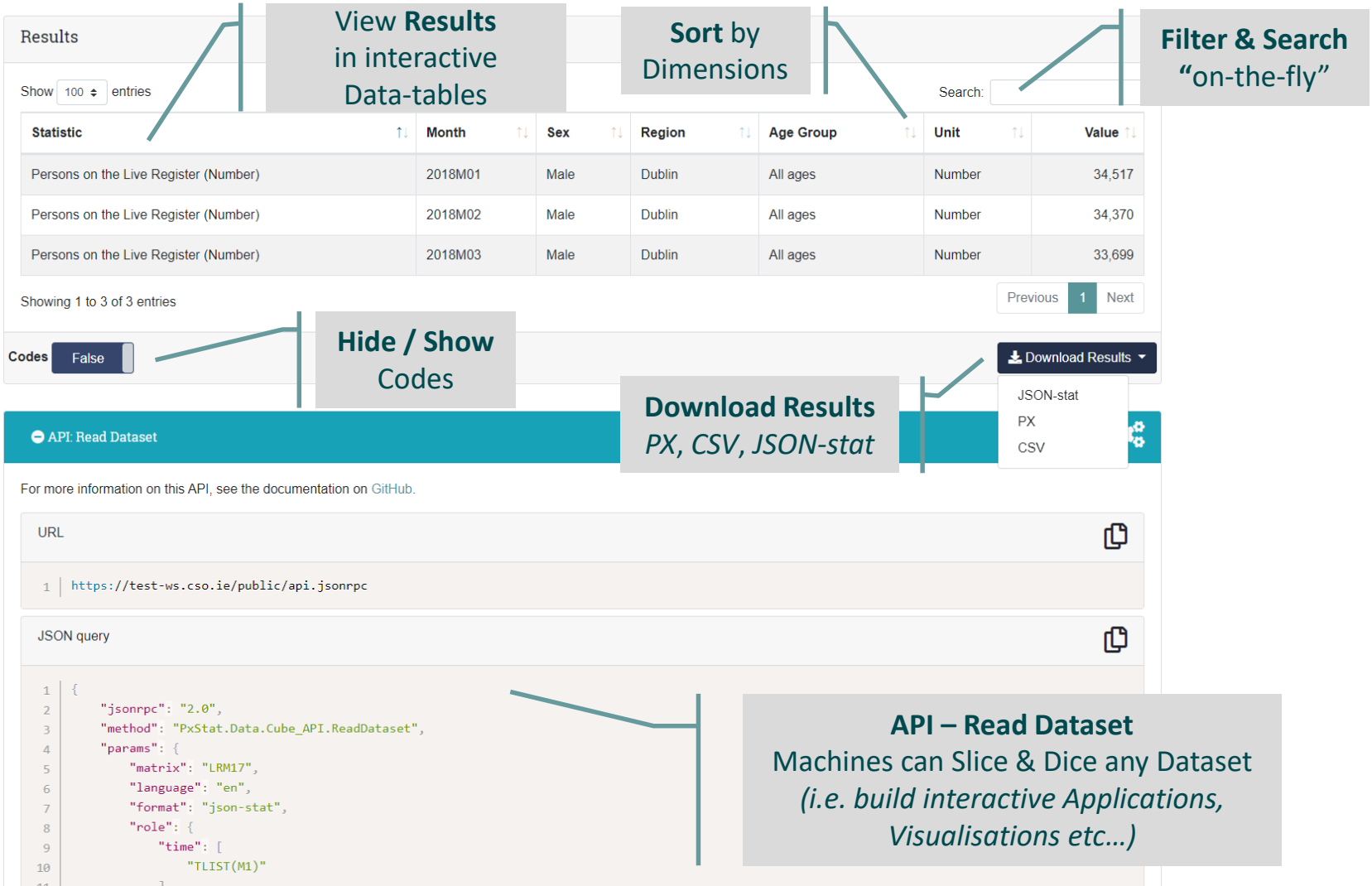
Share
on Social-Media

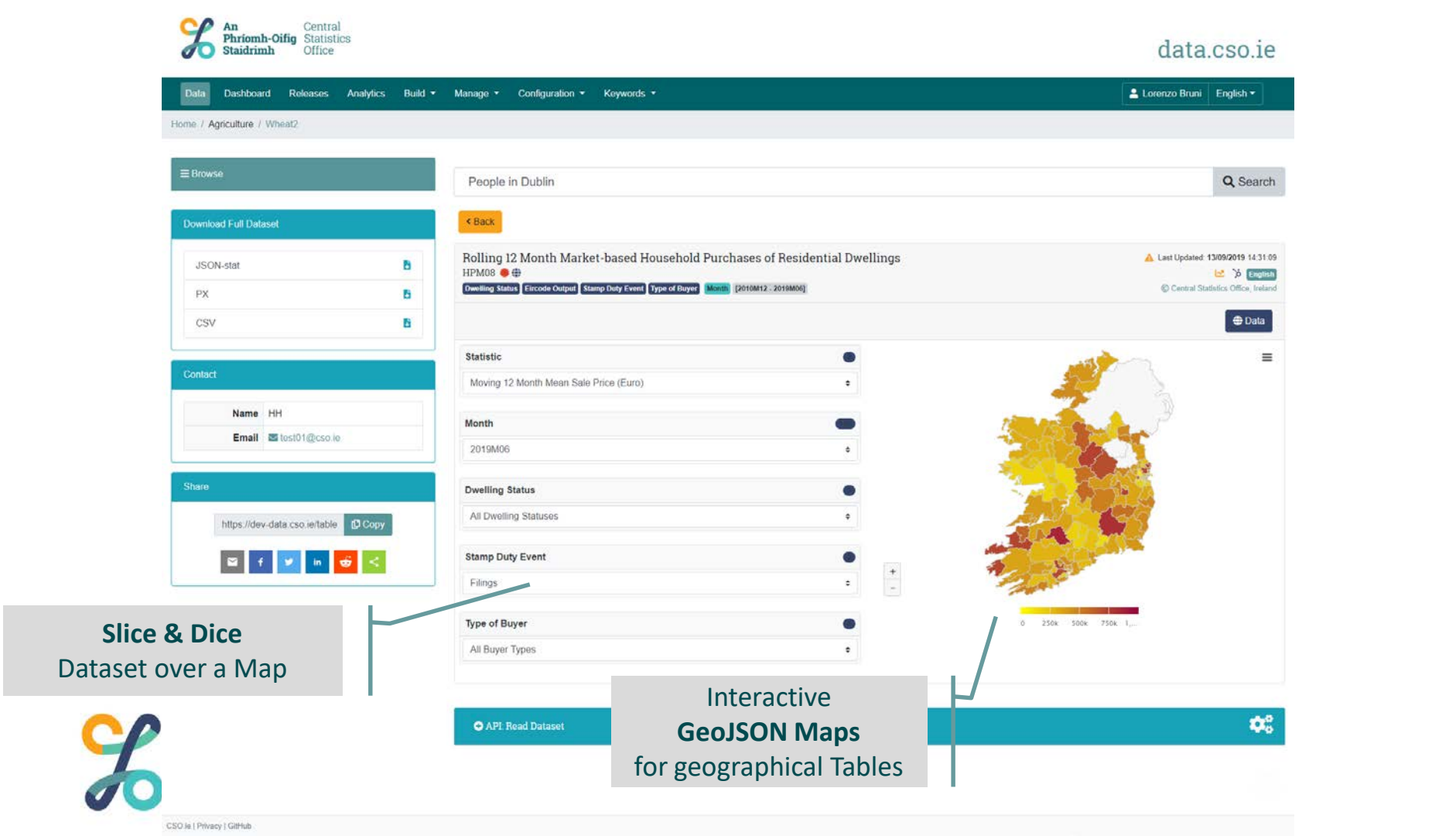


Slice & Dice
the Dataset

Filter & Sort by
Dimensions

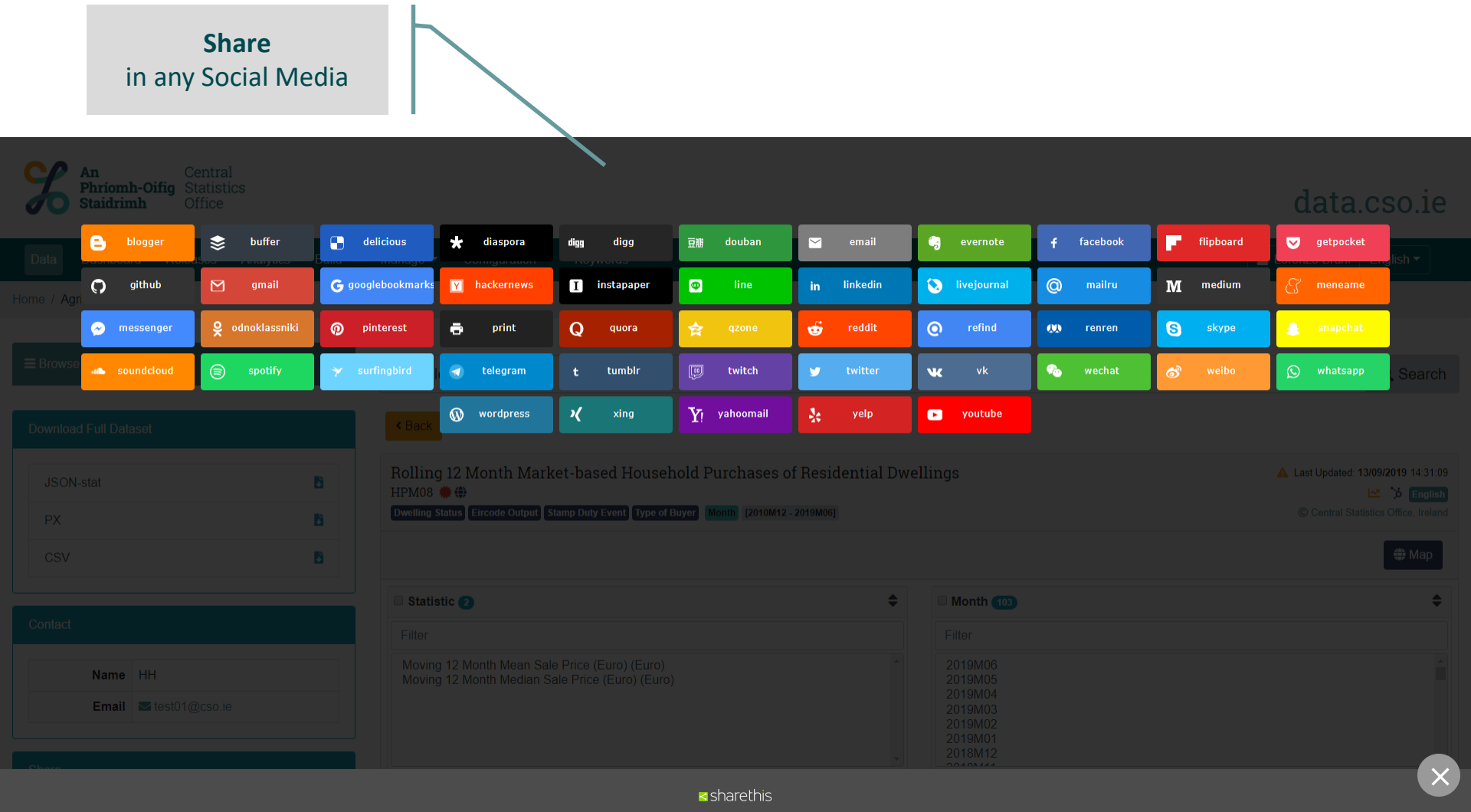
Hide / Show
Codes


Results
View **Results** in interactive Data-tables
Sort by Dimensions
Filter & Search "on-the-fly"
Show 100 entries
Search:
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
JSON-stat
PX
CSV
Download Results *PX, CSV, JSON-stat*
API: Read Dataset
For more information on this API, see the documentation on GitHub.
URL
https://test-ws.cso.ie/public/api.jsonrpc
JSON query
{
"jsonrpc": "2.0",
"method": "PxStat.Data.Cube_API.ReadDataset",
"params": {
"matrix": "LRM17",
"language": "en",
"format": "json-stat",
"role": {
"time": [
"TLIST(M1)"
API – Read Dataset
Machines can Slice & Dice any Dataset
(i.e. build interactive Applications, Visualisations etc…)



Slice & Dice
Dataset over a Map

Interactive
GeoJSON Maps
for geographical Tables


Share
in any Social Media
An Phríomh-Oifig Staidrimh
Central Statistics Office
data.cso.ie
blogger
buffer
delicious
diaspora
digg
douban
email
evernote
facebook
flipboard
getpocket
github
gmail
googlebookmarks
hackernews
instapaper
line
linkedin
livejournal
mailru
medium
meneame
messenger
odnoklassniki
pinterest
print
quora
qzone
reddit
refind
renren
skype
snapchat
soundcloud
spotify
surfingbird
telegram
tumblr
twitch
twitter
vk
wechat
weibo
whatsapp
wordpress
xing
yahoomail
yelp
youtube
Download Full Dataset
JSON-stat
PX
CSV
Contact
Name HH
Email test01@cso.ie
Back
Rolling 12 Month Market-based Household Purchases of Residential Dwellings
HPM08
Dwelling Status
Eircode Output
Stamp Duty Event
Type of Buyer
Month
[2010M12 - 2019M06]
Last Updated: 13/09/2019 14:31:09
English
© Central Statistics Office, Ireland
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
sharethis

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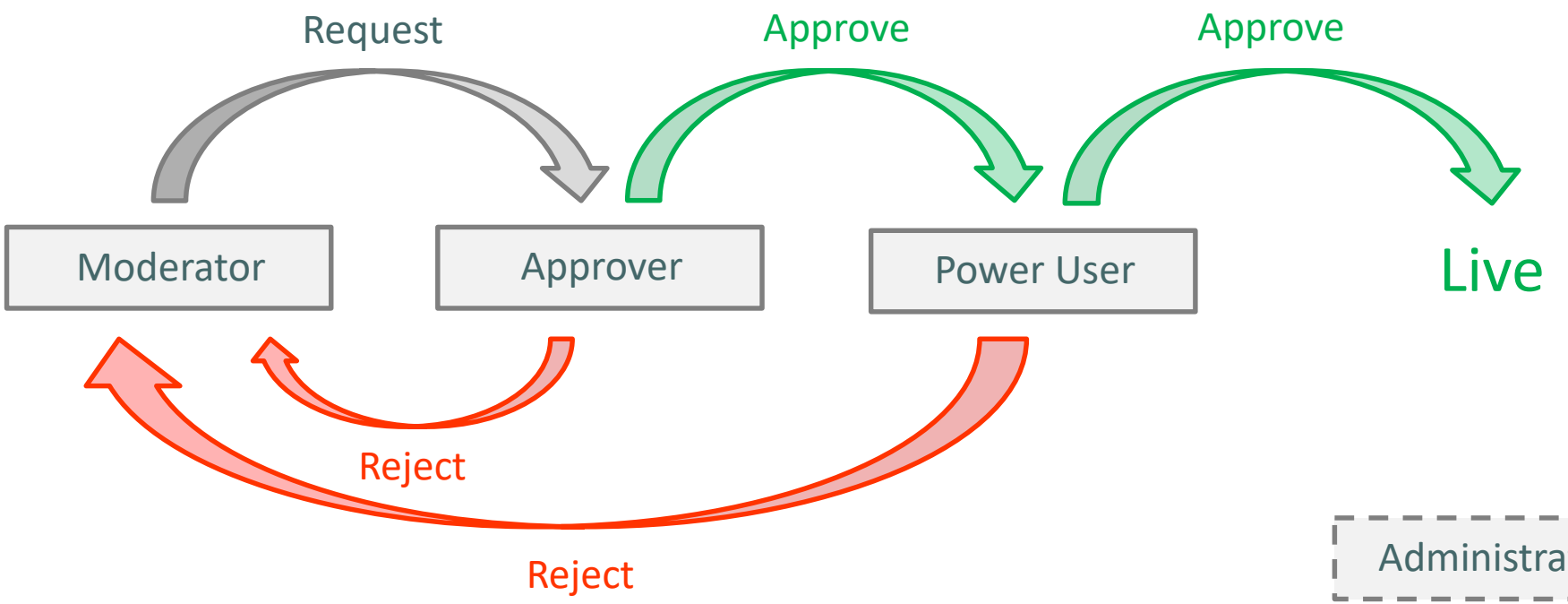
Publishers Managing & Publishing Releases

Release Workflow



* UAT – User Acceptance Test

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data.cso.ie

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

Home / Releases

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

Review & Compare *Historical, Live, Work in Progress* Releases

Version Control of Tables

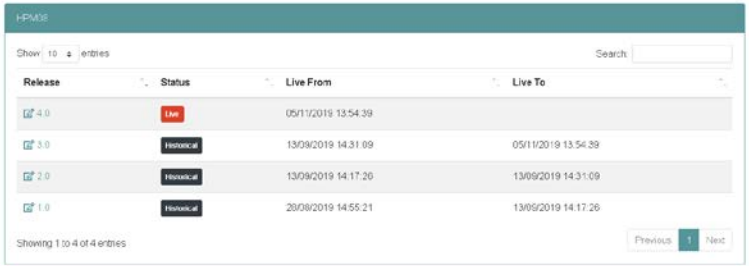
Work In Progress

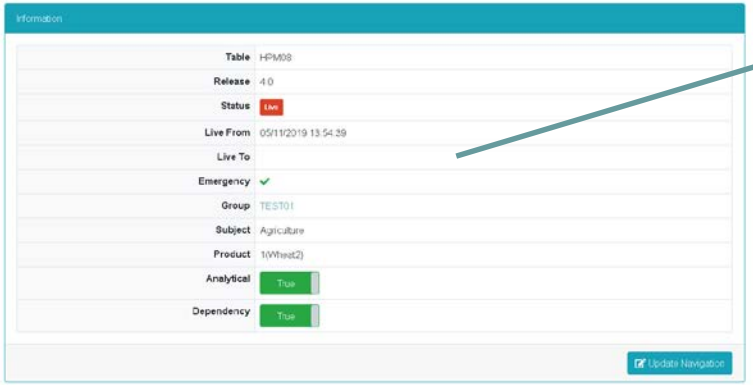
Show 10 entries Search:

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

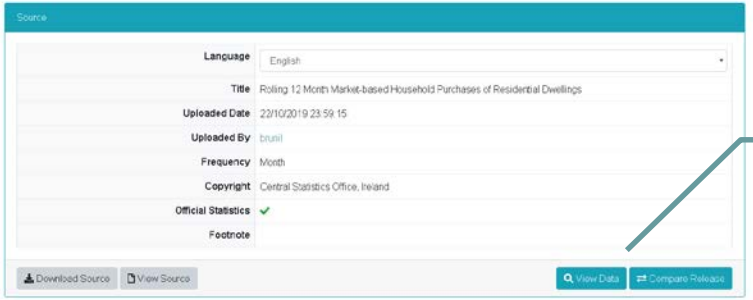




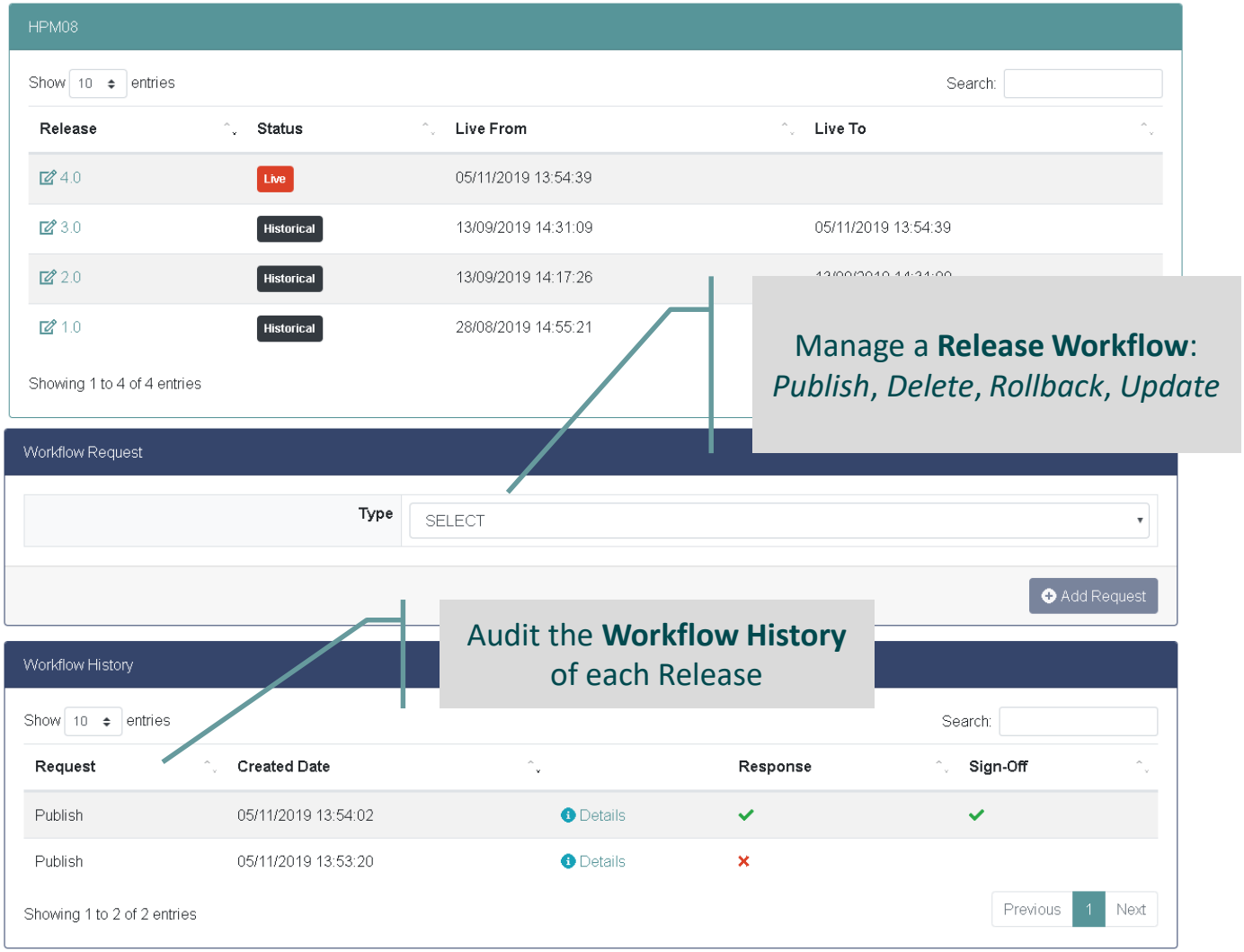
Review Table's **Information**

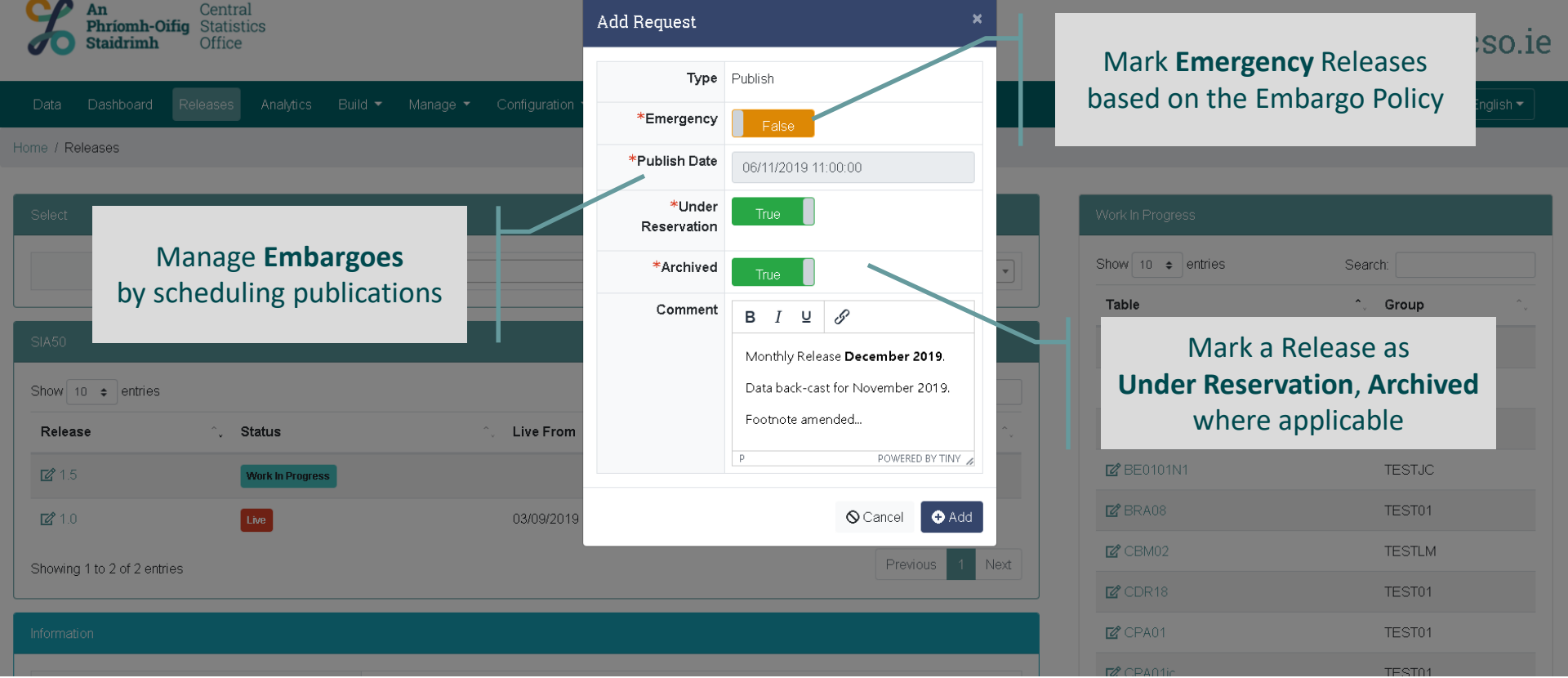
Review Table's **Properties**

Review Table's **Source**



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


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
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
SELECT
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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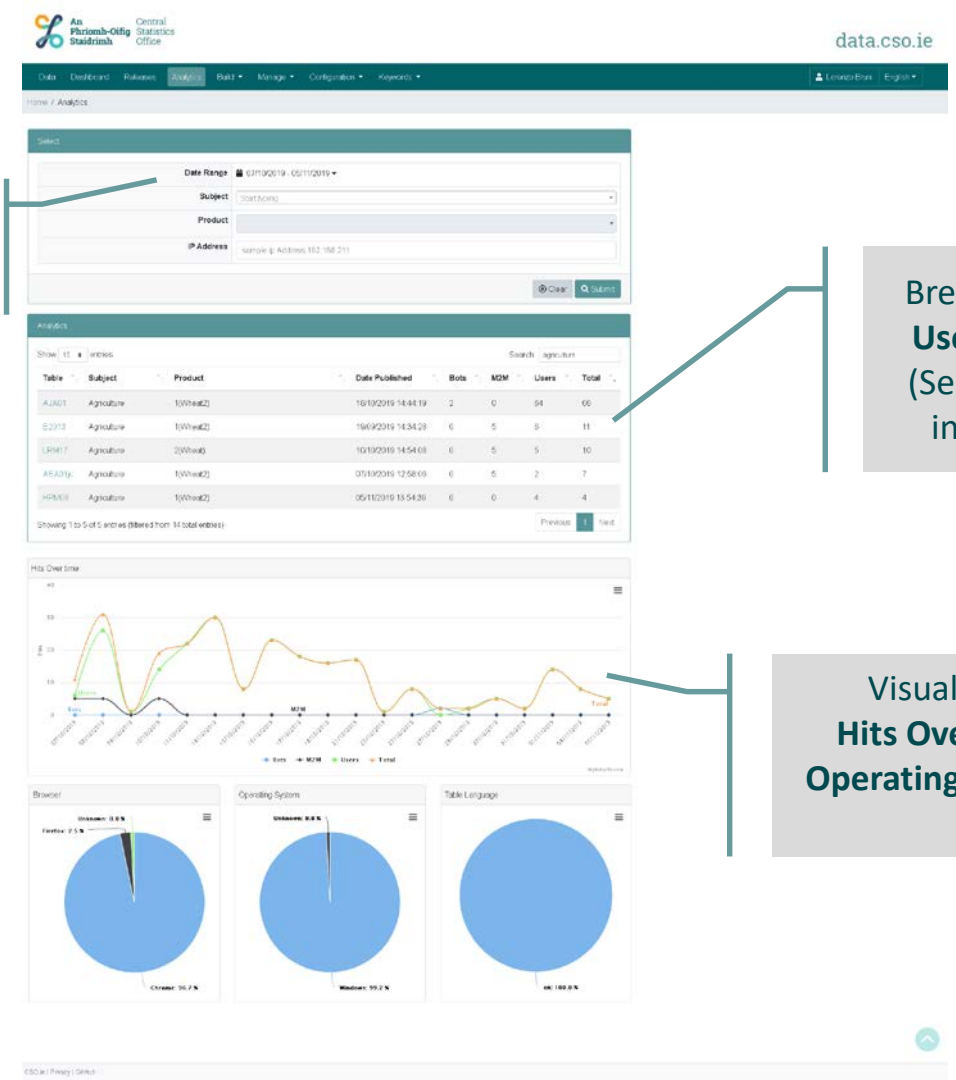
Data
Dashboard
Releases
Analytics
Build
Manage
Configuration
English
Home / Releases
Select
SIA50
Show 10 entries
Release
Status
Live From
1.5
Work In Progress
1.0
Live
03/09/2019
Showing 1 to 2 of 2 entries
Previous
1
Next
Information
Add Request
Type
Publish
*Emergency
False
*Publish Date
06/11/2019 11:00:00
*Under Reservation
True
*Archived
True
Comment
Monthly Release December 2019.
Data back-cast for November 2019.
Footnote amended...
POWERED BY TINY
Cancel
Add
Manage Embargoes by scheduling publications
Mark Emergency Releases based on the Embargo Policy
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

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



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

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

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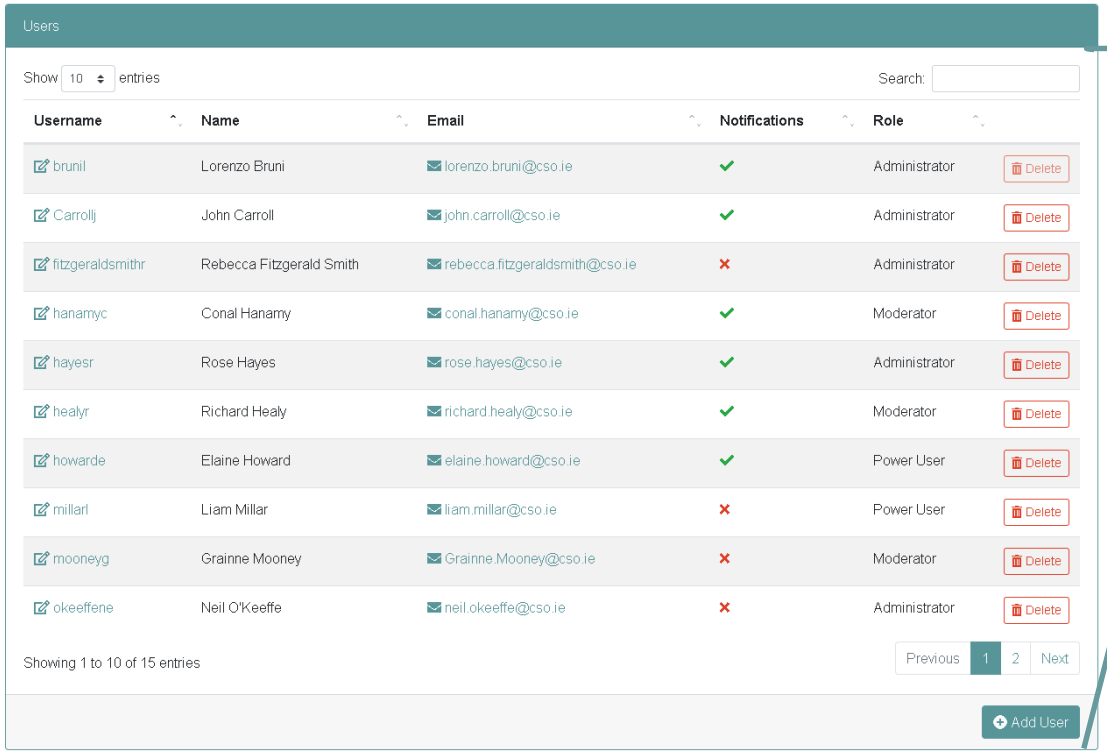
data.cso.ie

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

Home / Manage / Users



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

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

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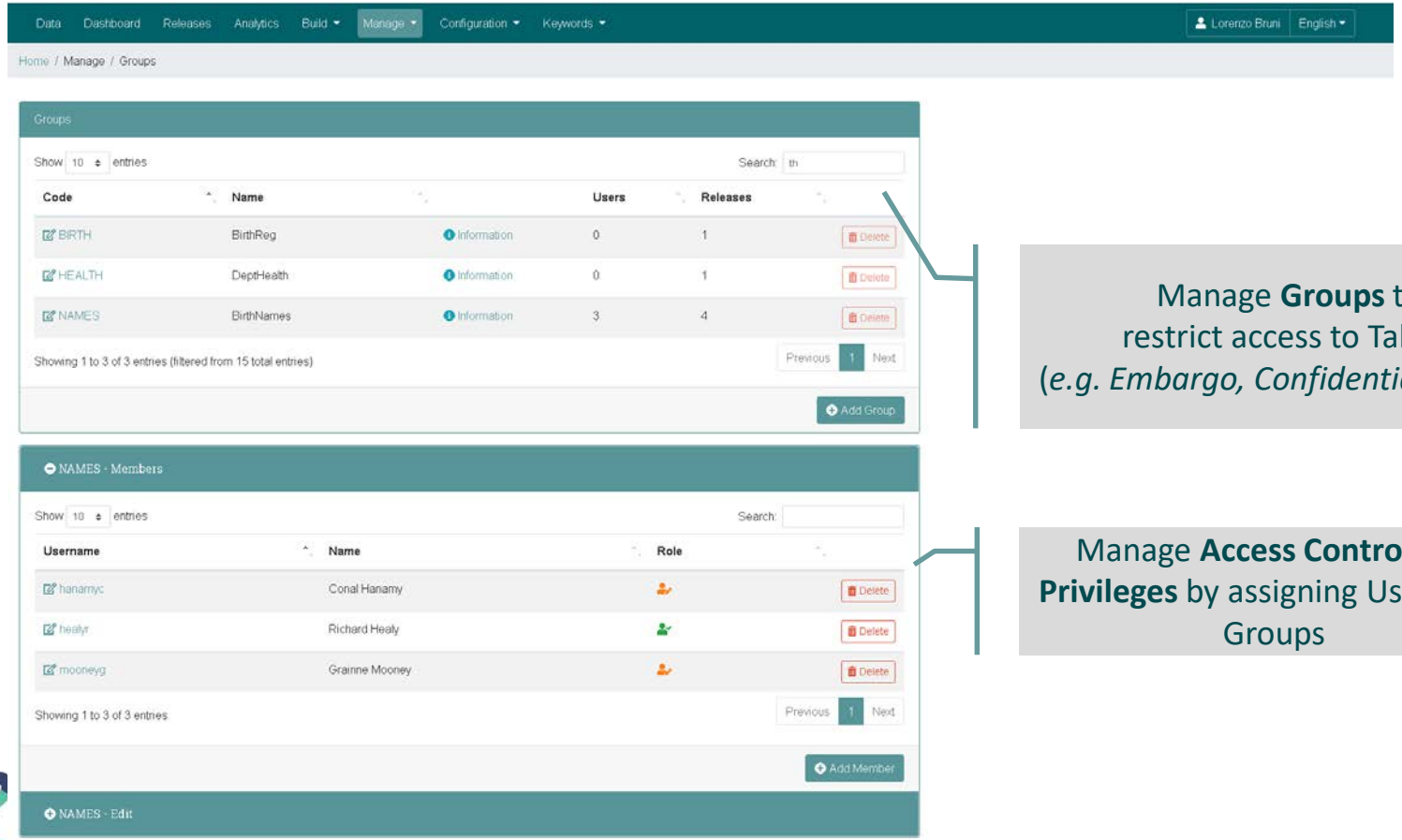

Manage **Groups** to restrict access to Tables (*e.g. Embargo, Confidentiality etc..*)

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

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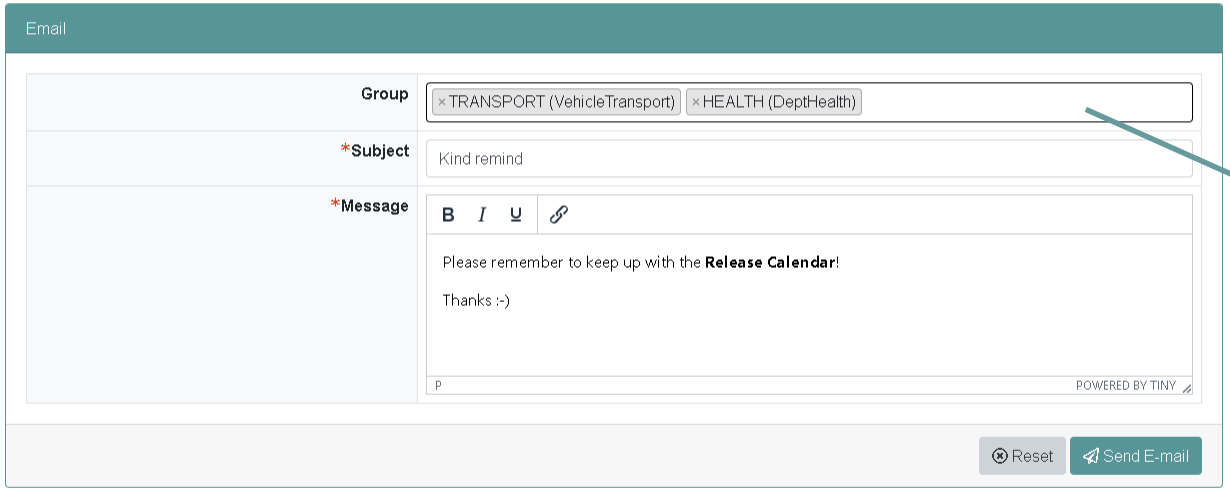
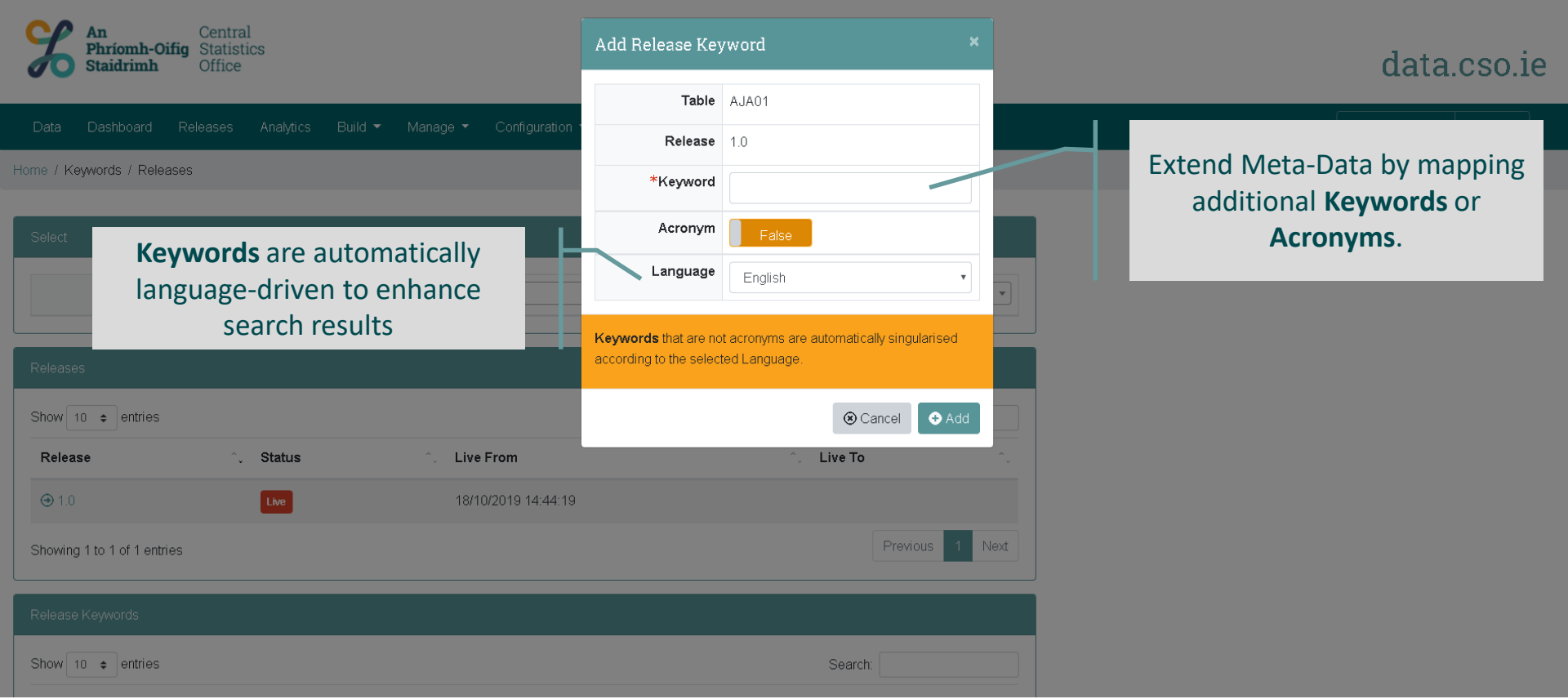
Data | Dashboard | Releases | Analytics | Build | Manage | Configuration | Keywords | Lorenzo Bruni | English

Home / Manage / Email



Send Emails to **Groups** (Business Area)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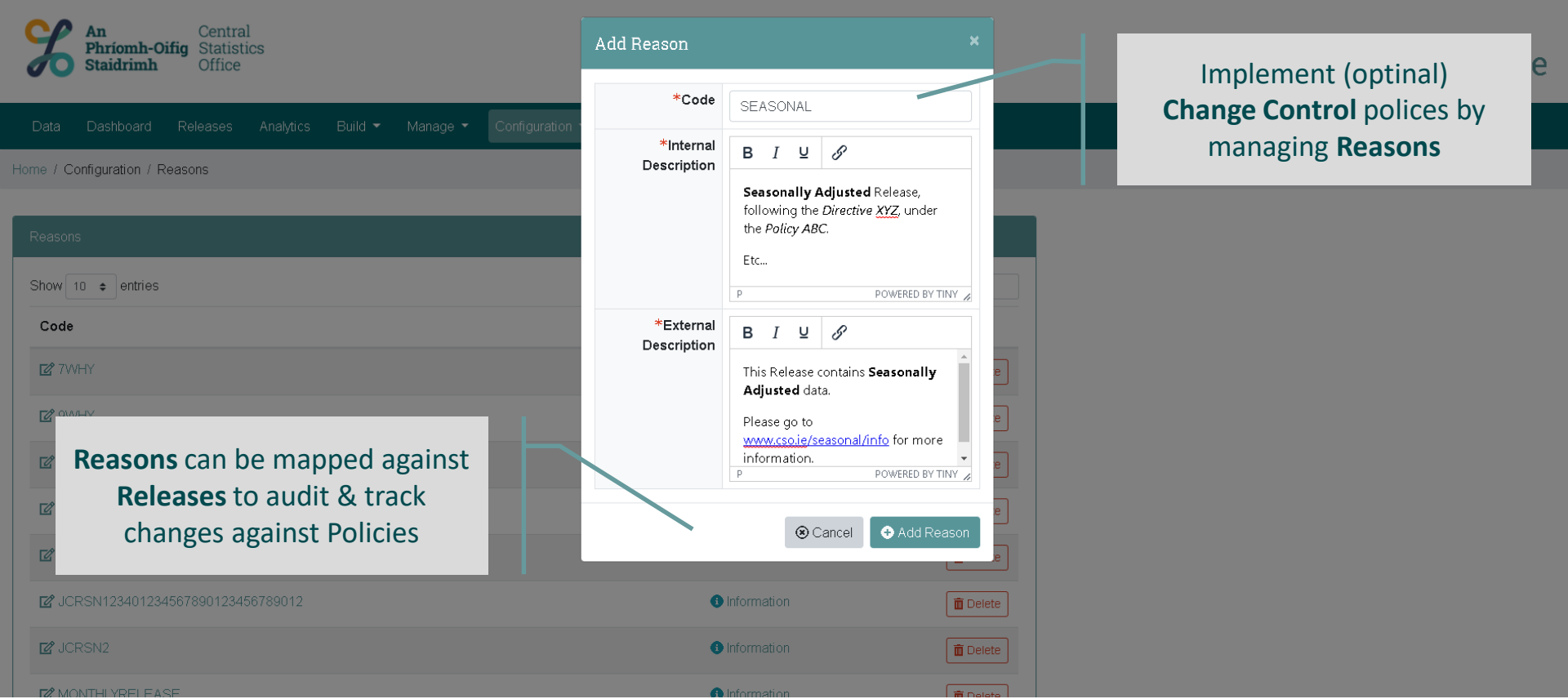
data.cso.ie
Data
Dashboard
Releases
Analytics
Build
Manage
Configuration
Home / Keywords / Releases
Select
Releases
Show 10 entries
Release
Status
Live From
Live To
1.0
Live
18/10/2019 14:44:19
Showing 1 to 1 of 1 entries
Previous
1
Next
Release Keywords
Show 10 entries
Search:
Add Release Keyword
Table
AJA01
Release
1.0
*Keyword
Acronym
False
Language
English
Keywords that are not acronyms are automatically singularised according to the selected Language.
Cancel
Add
Keywords are automatically language-driven to enhance search results
Extend Meta-Data by mapping additional Keywords or Acronyms.


An Phríomh-Oifig Staidrimh Central Statistics Office
Data
Dashboard
Releases
Analytics
Build
Manage
Configuration
Home / Configuration / Reasons
Reasons
Show 10 entries
Code
7WHY
JCRSN12340123456789012345678901 2
Information
Delete
JCRSN2
Information
Delete
MONTHLYRELEASE
Information
Add Reason
*Code
SEASONAL
*Internal Description
Seasonally Adjusted Release, following the Directive XYZ, under the Policy ABC.
Etc...
POWERED BY TINY
*External Description
This Release contains Seasonally Adjusted data.
Please go to www.cso.ie/seasonal/info for more information.
POWERED BY TINY
Cancel
Add Reason
Implement (optinal) Change Control polices by managing Reasons
Reasons can be mapped against Releases to audit & track changes against Policies

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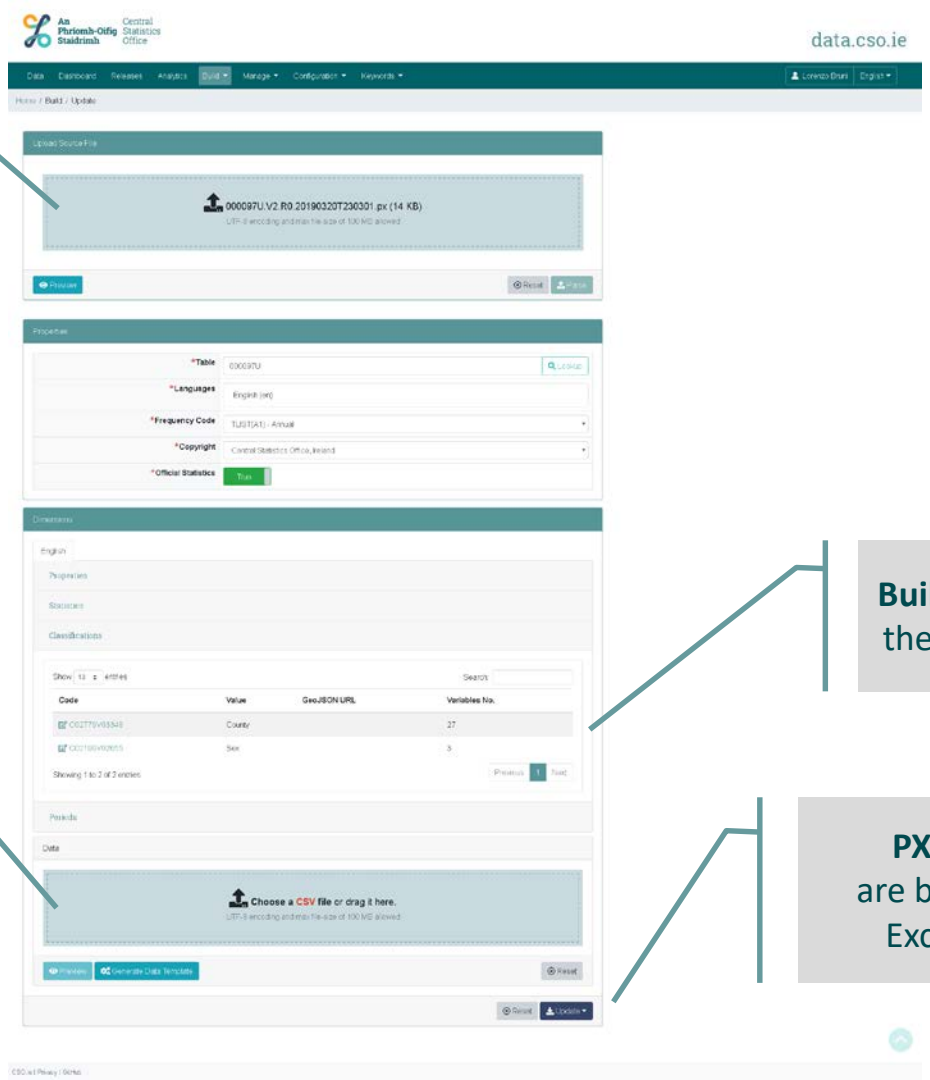
Builders
Previews for building Tables

An alternative *Web Interface* to **Create** or **Update** Tables



Build & **Review** visually the Structure of Tables

Update Tables by feeding **CSV** data

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

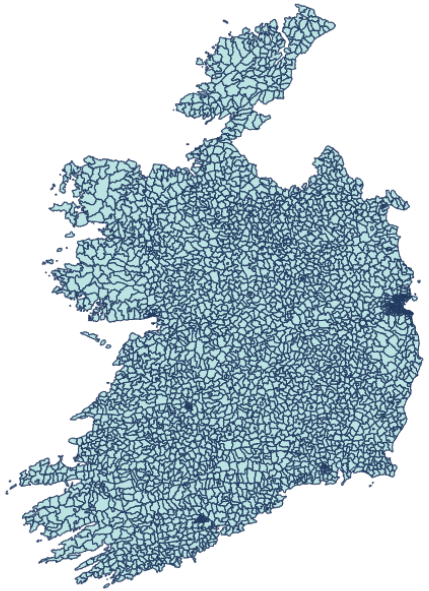
C02779V03348:County

Show 10 entries Search:

Code	Value
01001	Carlow Urban
01002	Graigue 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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Central
Statistics
Office