



Data Analytics Center of Competence

AI, Open and Private Data for  
National Governments

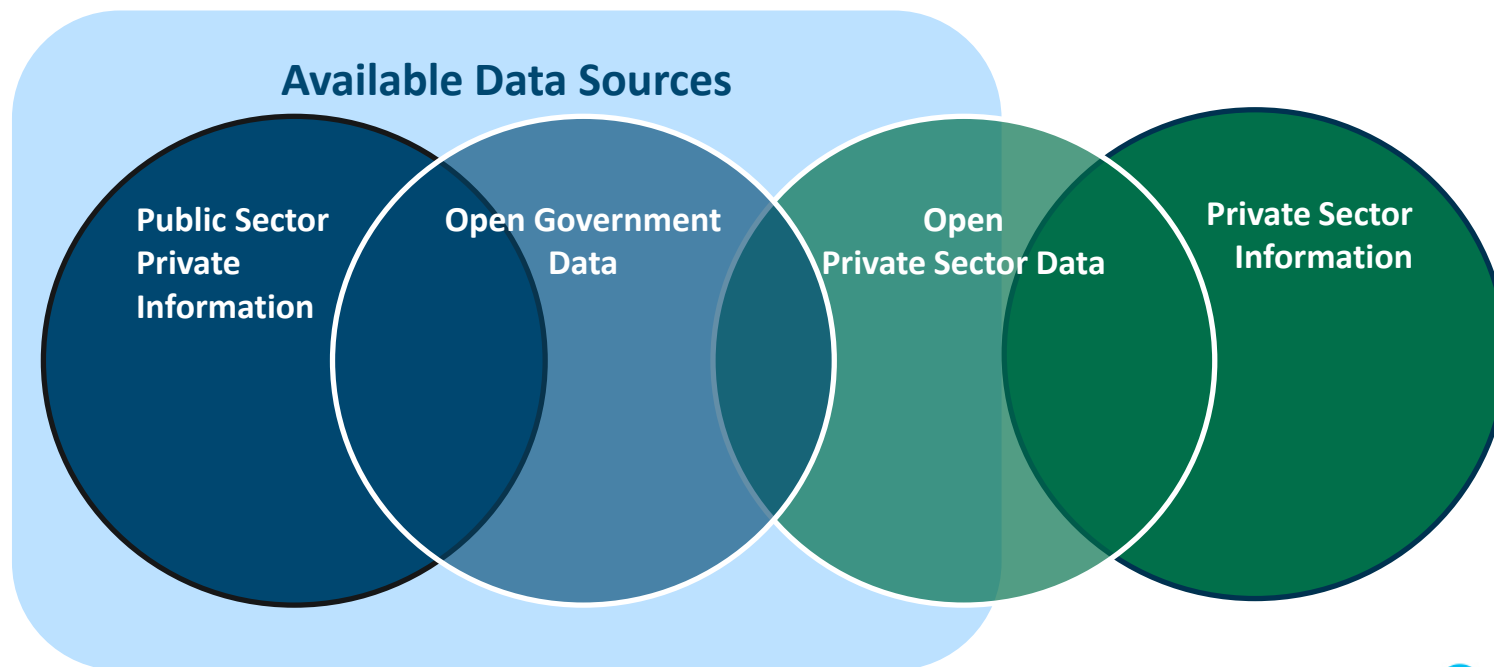
## What is Data Equity?

“A measure of the aggregate **economic & social** benefits that could be gained in the **private and public sectors** by **unlocking the insights** available from **big data**”\*

\* <https://www.bdvc.nl/images/Rapporten/Value-of-Data-Equity-Cebr.pdf>

### The secret?

### Data Conglomeration!



# Data Analytics Center of Competence

## Why collect the data



### Estimated values for 2020 for the EU28+

#### Market size and value added

**€ 325 billion direct market size** for the period **2016-2020**

**36.9% increase in share of GDP** from 2016 to 2020

**€ 83,578 million** market for public administration in 2020

#### Number of jobs created

**100,000 jobs** in Open Data in 2020

**7.3% average increase** in Open Data jobs

More than **2,500 jobs** in at least nine countries

#### Cost savings for the public sector

**€ 1.7 billion cost savings** for EU28+ public administrations in 2020

#### Efficiency and productivity gains

**7,000 lives** can be saved due to quicker response

**2,549 hours** can be saved in terms of finding parking

**629 million hours** saved, equivalent to **€ 27.9 billion**

# Data Analytics Center of Competence

## Why collect the data

### Indirect economic benefits



**2,549 hours**  
saved in finding parking



**16% less** energy used

### Direct economic benefits



**25,000 Jobs**  
created in Open Data in **2020**



**> € 30 million** of savings in public  
administration in **11 countries**

The benefits of Open Data are diverse and range from improved performance of public administrations, economic growth in the private sector to wider benefits for citizens and the society



#### Performance

Improving Efficiency of Public  
Services

Improving Quality



#### Economy

Developing Innovative Services

Creating New Business Models



#### Social

Improving Transparency &  
Accountability

Enhancing Participation

# Data Analytics Center of Competence

## Has anyone done this?

- European Open Data Portal
- 28 EU Member Countries' Local Open Data Initiatives

# Data Analytics Center of Competence European Data Portal

## European Data Portal



Activities in a nutshell



# Data Analytics Center of Competence

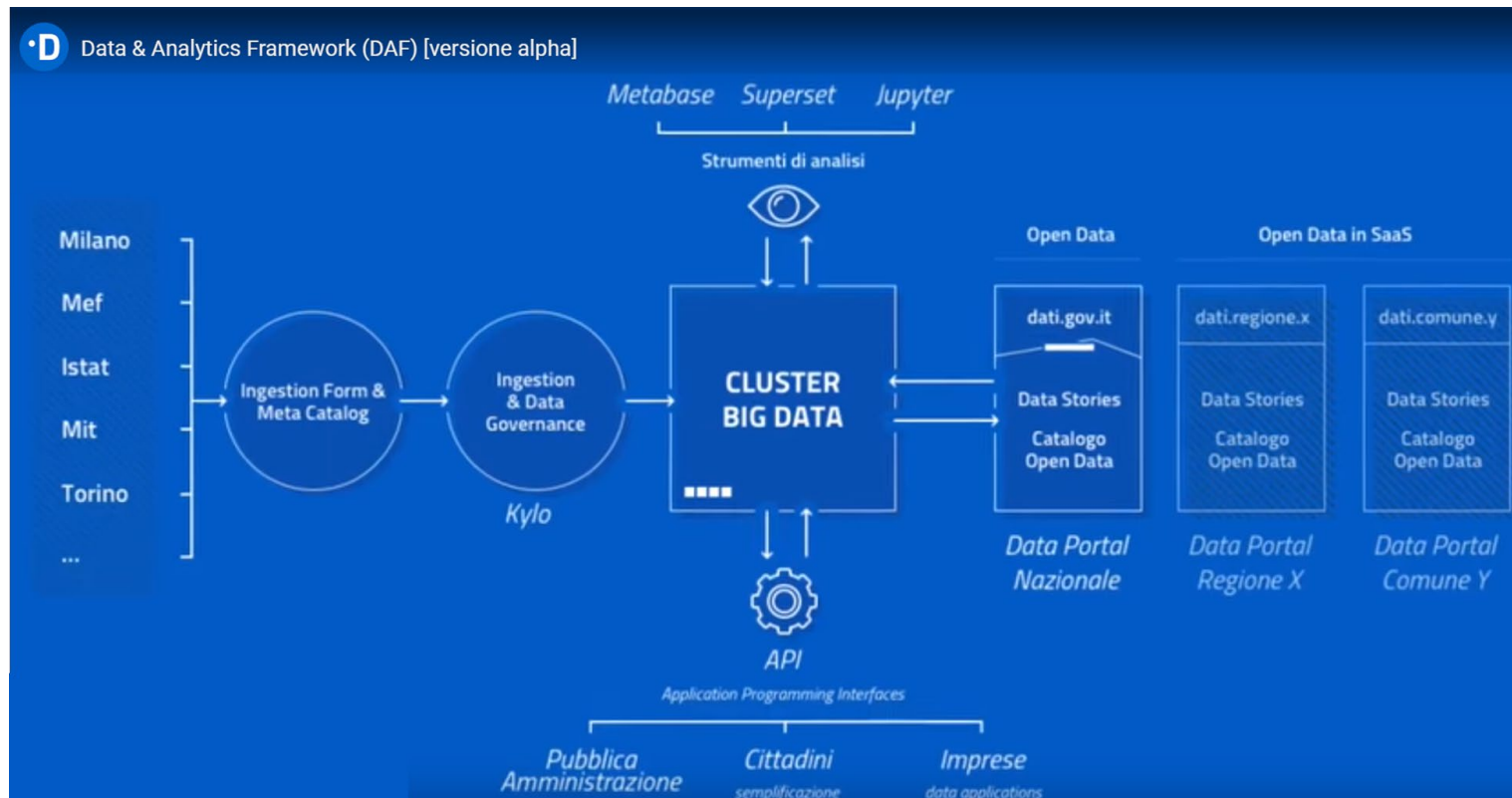
## Has anyone done this?

But this is just for open data!  
What about private data?



# Data Analytics Center of Competence Italy's Data & Analytics Framework (DAF)

- Analytical tools
- Synthesize knowledge for decision makers
- Information dissemination to citizens and businesses.
- Data scientist teams within the Public Administration
- Scientific research of interest to the Public Administration



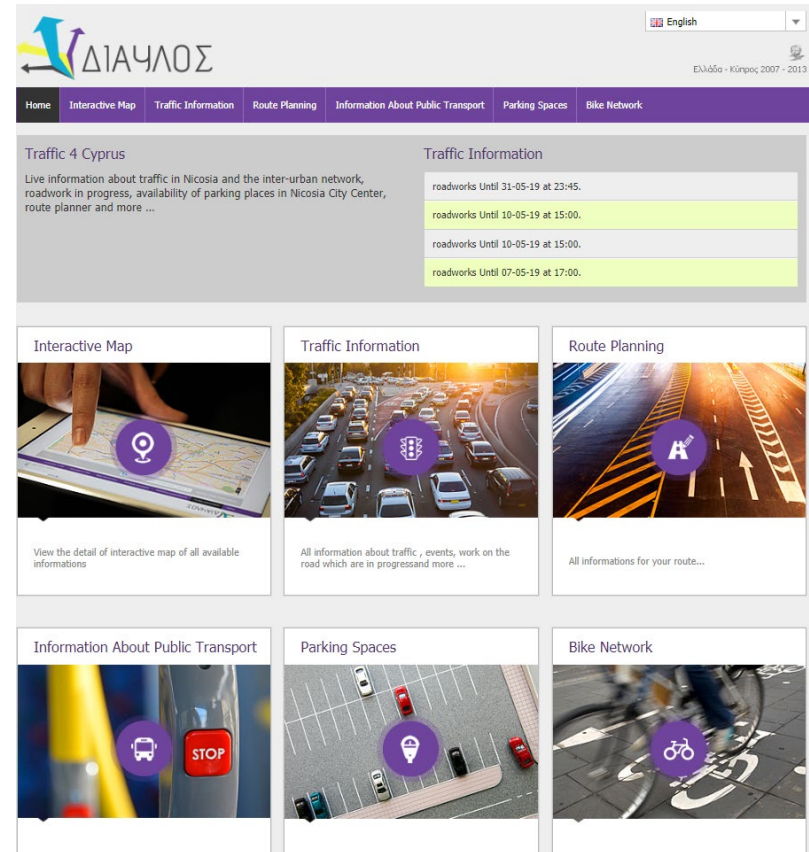
# Data Analytics Center of Competence (DACC) Use Cases

## Use Case 1 - Cyprus Diavlos Project

### Real Time Traffic & Parking Information in Nicosia

- **Benefits:**
  - Improved coordination between departments of public works and traffic police
  - Reduced traffic jams
  - Improved experience of citizens

[https://www.valencia.es/ayuntamiento/atencion\\_ciudadano.nsf/vDocumentosTituloAux/Aplicaciones%20m%C3%B3viles?opendocument&lang=1](https://www.valencia.es/ayuntamiento/atencion_ciudadano.nsf/vDocumentosTituloAux/Aplicaciones%20m%C3%B3viles?opendocument&lang=1)



# Data Analytics Center of Competence (DACC)

## PAID Framework Use Cases

### Use Case 2 - Spain AppValencia a mobile app that uses open data to operate

Direct Access to e-Office & Municipal Register

- Benefits:
  - Improved service to citizens
  - Avoidance of queues
  - Lower number of clerks answering questions

[https://www.valencia.es/ayuntamiento/atencion\\_ciudadano.nsf/vDocumentosTituloAux/Aplicaciones%20m%C3%B3viles?opendocument&lang=1](https://www.valencia.es/ayuntamiento/atencion_ciudadano.nsf/vDocumentosTituloAux/Aplicaciones%20m%C3%B3viles?opendocument&lang=1)



The screenshot shows the official website of the Ayuntamiento de Valencia. The header includes the date 05/08/2019, weather, and navigation links for Citizen mail, Valencia, Citizenship mailbox, Web map, and home. The main navigation bar has tabs for TOWN HALL, PROCEDURES AND PROCEDURES, MUNICIPAL WEBSITES, THE CITY, and NEWS. The main content area features a large banner for 'València' and a section for 'APP VALÈNCIA'. The app section includes a description of the app's purpose, its features (digital certificate, augmented reality, 'Near me' service, traffic information, and notices), and a link to download the app. The footer contains additional navigation links and a small logo for 'W3C WAI-AA WCAG 3.0'.

05/08/2019 Weather ☀

☑ Citizen mail Valencia ☑ Citizenship mailbox Web map home

TOWN HALL PROCEDURES AND PROCEDURES MUNICIPAL WEBSITES THE CITY NEWS

València

APP VALÈNCIA

Inicio  
Teléfono 010  
Atención presencial  
Página web  
Aplicaciones móviles  
Buzón de la ciudadanía  
L'Ajuntament Informa  
Servicios RSS

**AJUNTAMENT DE VALÈNCIA**  
Pl. De l'Ajuntament, 1  
46002 València  
Tel.: 96 3525478

**The NEW APP** developed by the Ajuntament de València aims to be a channel of communication between the citizen and the administration.

The application allows you to consult the news, the city's agenda as well as the profile sections of the contractor, bulletin board and municipal competitions.

-If you have a **digital certificate** installed on the mobile device, you can directly access the electronic headquarters of the City Council of Valencia to consult instances, records, standard and pending procedures.

-It has a **section of Augmented Reality** in which you can consult with this technology the services of public transport, facilities of the city, faults and tourism of Valencia.

-It has a **service "Near me"** that using GPS technology will indicate to users all the elements of interest close to their position within a radius of 300 meters.

-In a quick and agile way you can check the traffic in real time, the availability of free places in public parking, bicycles or free terminals in Valenbisi stations (public bicycles), public WIFI points and nearest taxi stands.

-It has a **Notices Service** grouped by channels to which the user can subscribe so that the municipality notifies him of urgent news related to that channel, such as street courts, important cultural events, etc.

➤ ACCESS THE NEW APP VALÈNCIA

TOWN HALL | FORMALITIES | MUNICIPAL WEBSITES | THE CITY | INFOCITY | NEWS | SCHEDULE | WEB MAP | PRIVACY POLICY | LEGAL WARNING |

W3C WAI-AA WCAG 3.0

# Data Analytics Center of Competence (DACC)

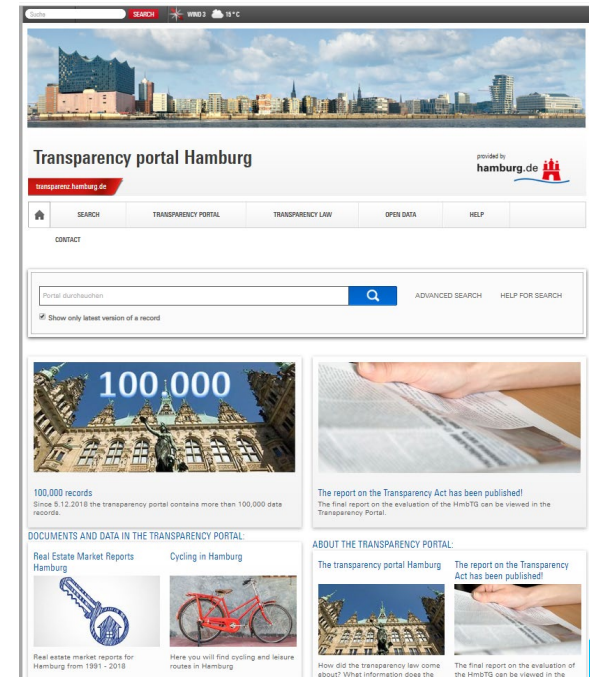
## PAID Framework Use Cases

### Use Case 3 - Germany City of Hamburg Replace Official Requests with Open Data

Retrieve data automatically instead of running official requests to the relevant authorities

- Benefits:
  - Reduced time to complete job
  - Reduced resources for completing job

<http://transparenz.hamburg.de/>

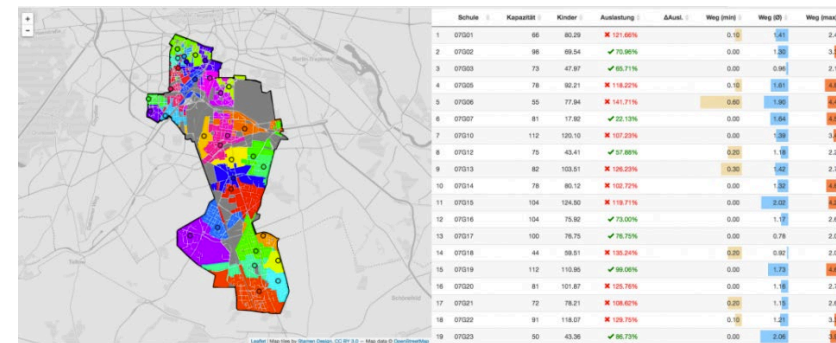


### Use Case 4 - Germany City of Berlin Catchment Areas of Primary Schools

Optimized tailoring of catchment areas for elementary schools

Benefits:

- School capacity utilization
- Minimize the pupils' way to school
- Ensure socio-economic diversity of the student body



Catchment areas in Tempelhof-Schöneberg

<https://codefor.de/blog/open-data-verwaltung-grundschuleinzugsgebiete.html>

# Data Analytics Center of Competence (DACC) PAID Framework Use Cases

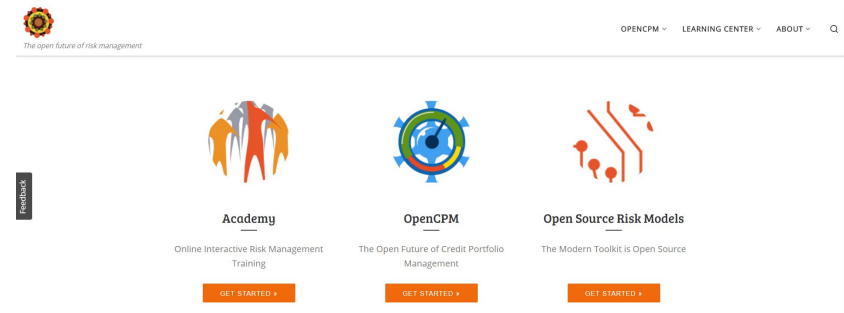
## Use Case 5 - The Netherlands Financial Risk Management

Provide risk management tools to public administrators and businesses

Benefits:

- Central provider of financial risk tools & training
- Improves transparency, enhances best practices around financial risk management
- Increase financial literacy

<http://www.openriskmanagement.com/>





# Data Analytics Center of Competence (DACC)

## PAID Framework Use Cases

### Use Case 6 - UK - London Fire Brigade

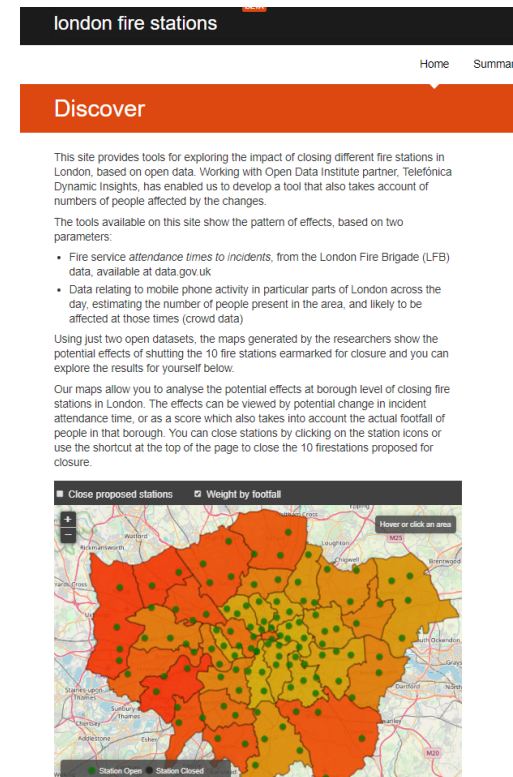
### Response Times Optimization Tool

View emergency response times and fire incidents per ward & optimize resources.

#### Benefits:

- Reduce emergency response times - Save more lives and property
- Costs reduction by optimizing the closing or opening of fire stations

<http://london-fire.labs.theodi.org/>



# Data Analytics Center of Competence (DACC) PAID Framework Use Cases

## Use Case 7 - UK Windsor and Maidenhead Council

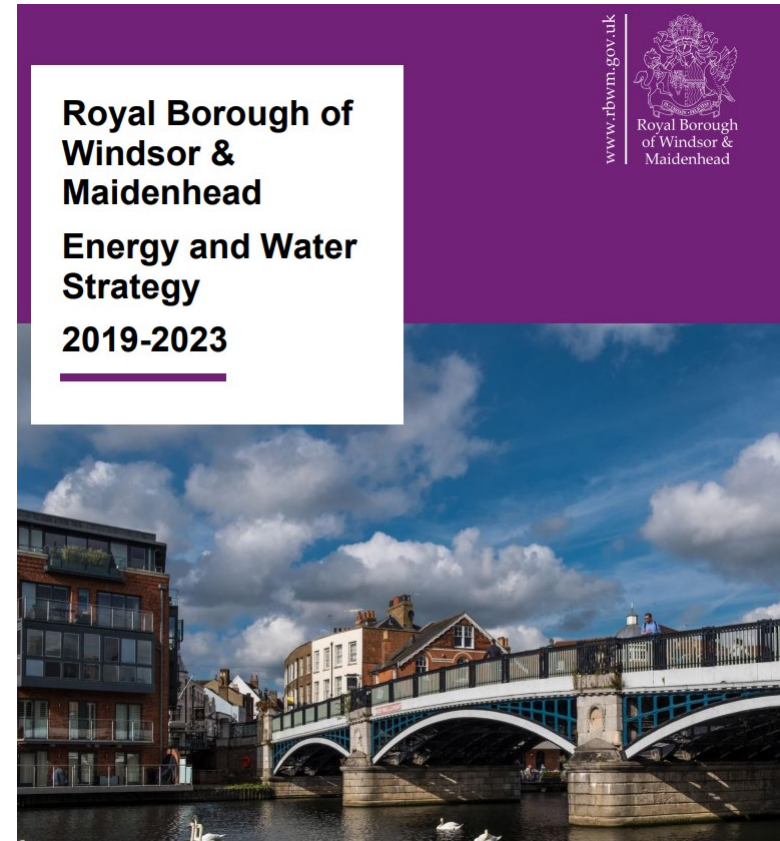
### Public Building Energy Savings

Real-time data on energy use in public building

Benefits:

- Energy bills reduction by 16%
- Opened data to help citizens reduce their electricity bills at home

[https://www3.rbwm.gov.uk/download/downloads/id/4437/energy\\_strategy.pdf](https://www3.rbwm.gov.uk/download/downloads/id/4437/energy_strategy.pdf)





## Use Case 8 - Lithuania/Latvia PASYFO

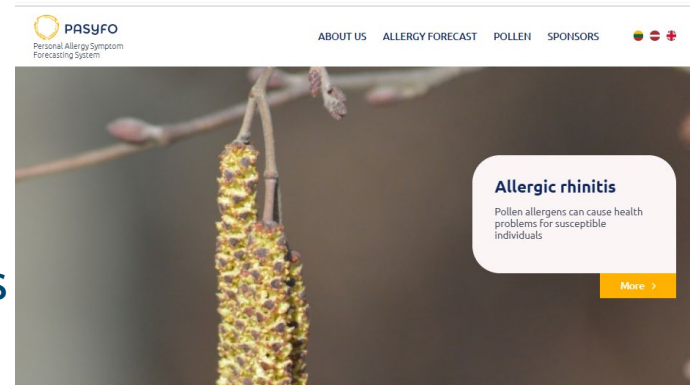
### Forecast personal allergy symptoms

Use air quality data to predict allergy symptoms

Benefits:

- Reduce health issues for citizens
- Reduce public hospital bills

<http://pasyfo.lt/en/>

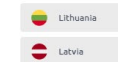


#### Suffer from pollen?

You are on a website designed for persons who are related to the impact of pollen allergens on personal health. Choose a country and you will receive information about the probability of manifestation of allergy symptoms.

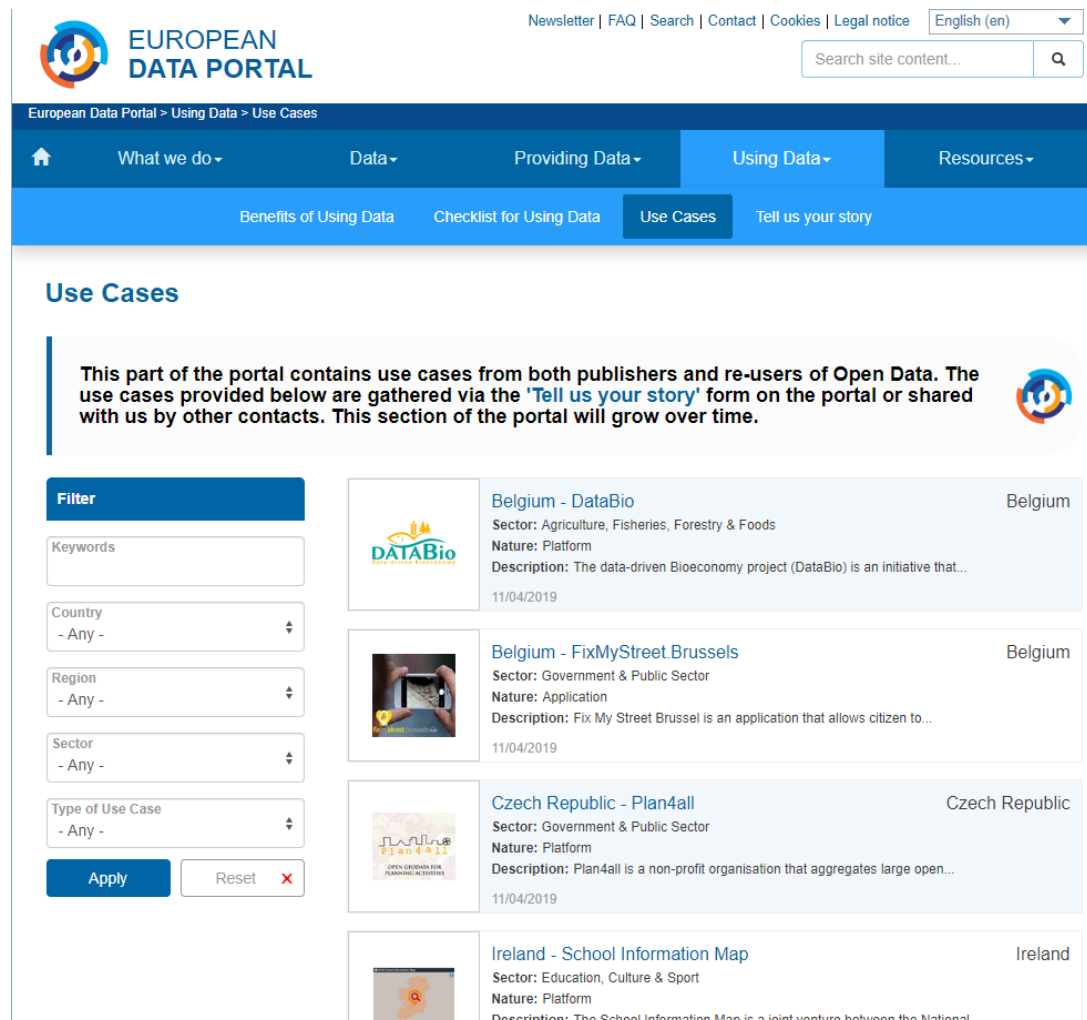
For personalised information you should use PASYFO on mobile app. Download the mobile app PASYFO: Android or iOS.

Select the desired country:



# Data Analytics Center of Competence (DACC) PAID Framework Use Cases

For more use cases: <https://www.europeandataportal.eu/en/using-data/use-cases>



The screenshot shows the 'Use Cases' section of the European Data Portal. At the top, there's a navigation bar with links like 'What we do', 'Data', 'Providing Data', 'Using Data', and 'Resources'. Below this is a sub-navigation bar with 'Benefits of Using Data', 'Checklist for Using Data', 'Use Cases' (highlighted), and 'Tell us your story'. The main content area is titled 'Use Cases' and contains a paragraph explaining that the portal features use cases from both publishers and re-users of Open Data, gathered via the 'Tell us your story' form or shared by other contacts. To the left of the use case list is a 'Filter' sidebar with dropdown menus for 'Keywords', 'Country' (set to '- Any -'), 'Region' (set to '- Any -'), 'Sector' (set to '- Any -'), and 'Type of Use Case' (set to '- Any -'). There are 'Apply' and 'Reset' buttons at the bottom of the filter. The use case list on the right includes four entries, each with a logo, title, sector, nature, description, and date (11/04/2019):

- Belgium - DataBio**: Sector: Agriculture, Fisheries, Forestry & Foods; Nature: Platform; Description: The data-driven Bioeconomy project (DataBio) is an initiative that...
- Belgium - FixMyStreet.Brussels**: Sector: Government & Public Sector; Nature: Application; Description: Fix My Street Brussel is an application that allows citizen to...
- Czech Republic - Plan4all**: Sector: Government & Public Sector; Nature: Platform; Description: Plan4all is a non-profit organisation that aggregates large open...
- Ireland - School Information Map**: Sector: Education, Culture & Sport; Nature: Platform; Description: The School Information Map is a joint venture between the National

## Public Administration A.I.& Data Framework (PAID)

# Data Analytics Center of Competence

## PAID Framework Overview

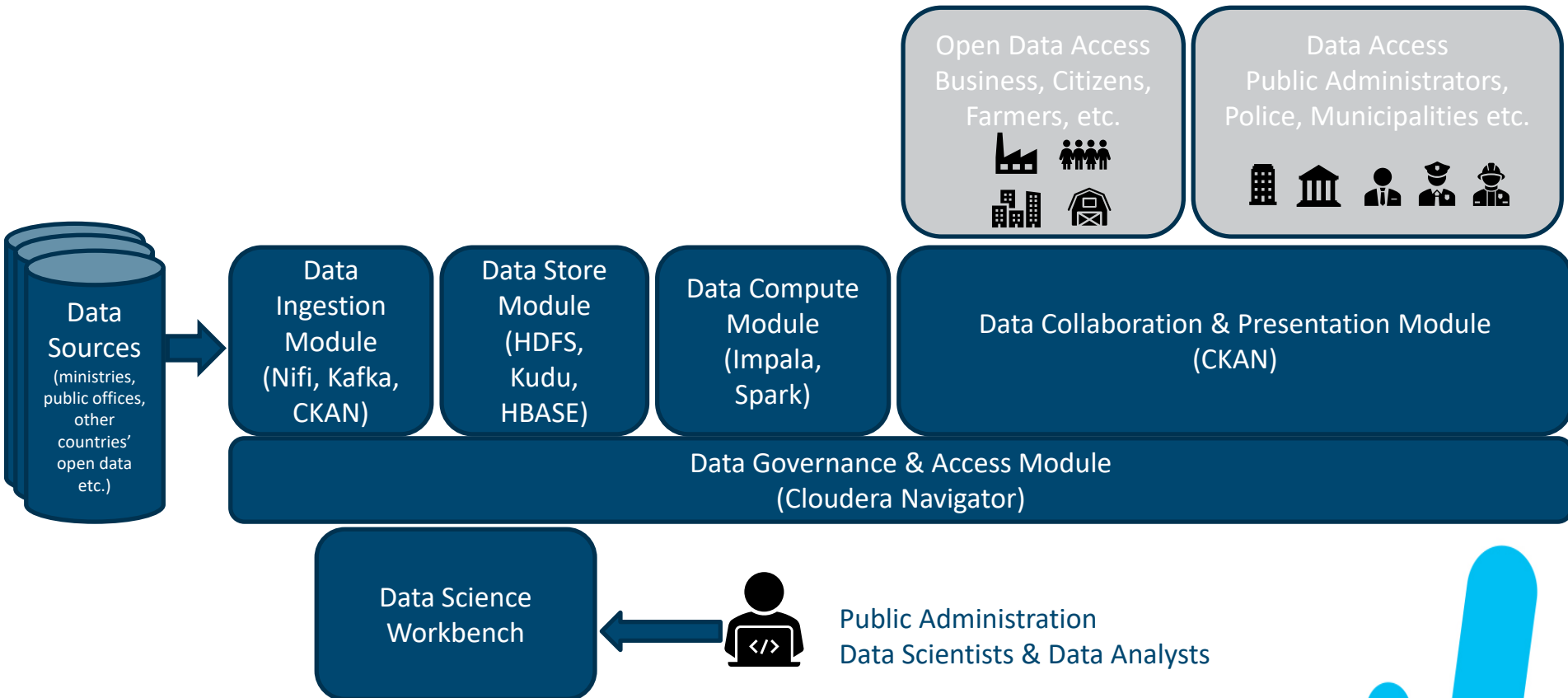
Combine Big Data and Open Data technologies with:

INTRASOFT International's expertise to produce

**a unique big data & artificial intelligence framework**

**for public administrations and national governments**

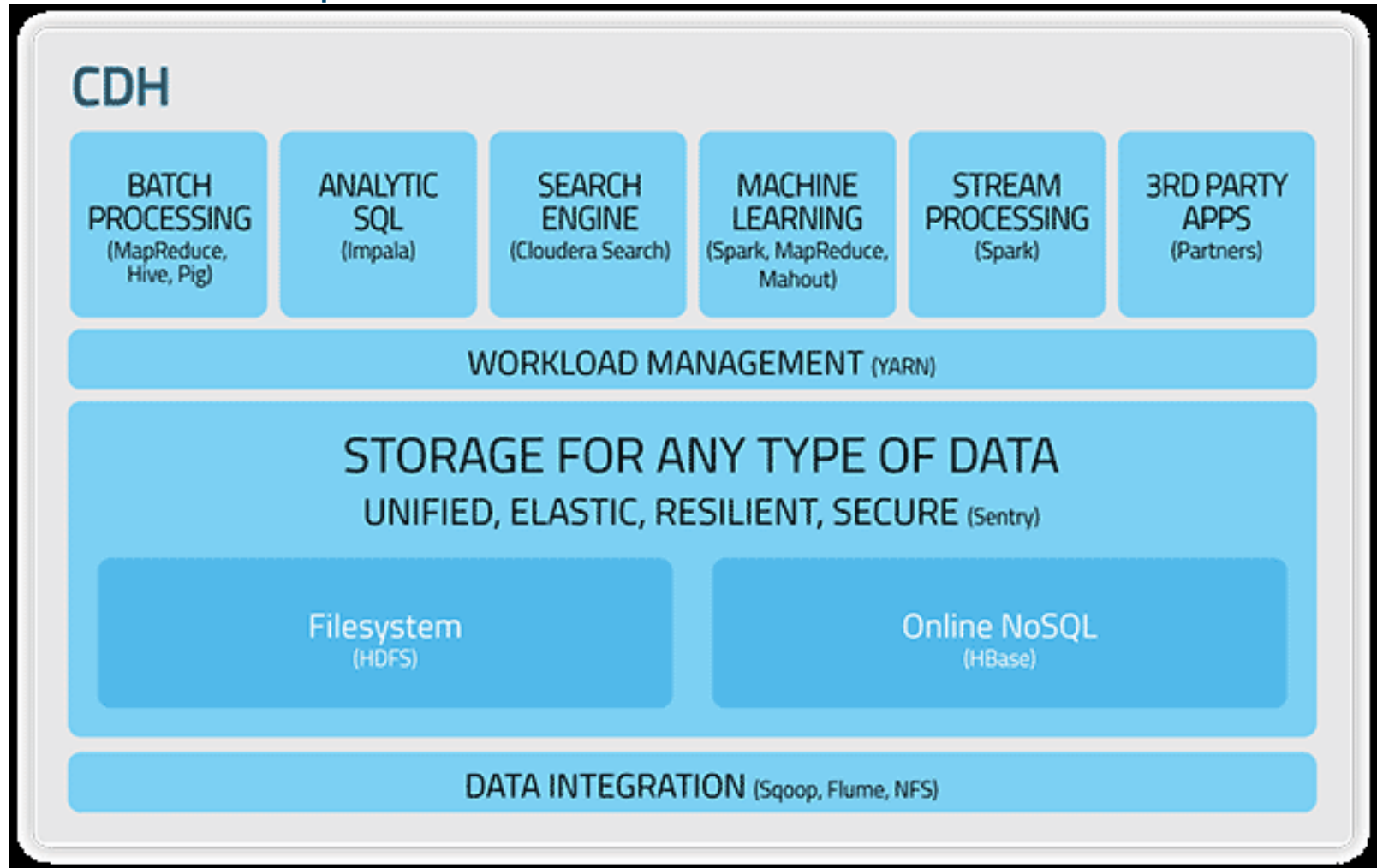
# Data Analytics Center of Competence (DACC) PAID Framework Architecture



# Data Analytics Center of Competence (DACC)

## PAID Framework Core Technologies

### Cloudera Hadoop



# Data Analytics Center of Competence (DACC) PAID Framework Core Technologies



**CKAN:** A streamlined way to make data discoverable and presentable. Features:

**API** - RPC-style API exposes core features to clients.

**FEDERATE** - Harvesting functionality for metadata from other data portals

**FILESTORE** - Allow users to upload data and image files.

**GEOSPATIAL** - Advanced geospatial features, covering data preview, search, and discovery.

**METADATA** - Rich set of metadata for each dataset.

**PUBLISH AND MANAGE DATA** - Intuitive web interface allows publishers and curators to easily register, update and refine datasets.

**SEARCH AND DISCOVERY** - Rich search experience for quick 'Google-style' keyword search as well as faceting by tags and browsing between related datasets.

**VISUALIZATION** - Data previewing tool has a host of powerful features for previewing data stored in the DataStore.



Thank you for your attention

Follow us

