Enabling a data-informed public sector

From hype to action using the Big Data Test Infrastructure (BDTI)

EC-BDTI-PILOTS@ec.europa.eu





DG CNECT

Directorate-General for Communications Networks, Content and Technology

DG DIGIT

Directorate-General for Informatics

Public Sector Information and the role of Data analytics

Data is **everywhere** and growing at an unprecedent pace.

Big Data: 3V - Volume, Variety, Velocity



















There is an ambition to create a single European market for data and make more data available through powerful and trustworthy infrastructures and technologies, in line with EU values and regulations, to support citizens, public sector and companies.



What is the Big Data Test Infrastructure (BDTI)?



BTDI: Not only for big data, but for all public sector information



Six months free* of charge service for the EU public administrations

Ready-to-use data analytics stack and support

Cloud platform based on **open-source** tools



To help the public sector **to derive insights from its data** and accelerate transition towards **data-driven decision making**

^{*} The cost of the pilot project must fit within the funding boundaries of the BDTI pilot budget

Big Data Test Infrastructure Objectives

Objectives

- Increase the easy accessibility, interoperability, quality and usability of public sector information in compliance with the requirement of the **Open Data Directive**
- Boost the **re-use and combination of open public data** across the EU for the development of information products and services, including AI applications
- High-value Datasets Open Data Directive
- Testing Business-to-Government (B2G) data sharing collaborations for the public good
- Data Space Support Centre: explore and experiment with your data*
- BDTI provides a safe **testing environment to run big data experiments** for data space customers



About the Big Data Test Infrastructure (BDTI)

The BDTI is funded by the Digital Europe Programme (DEP) focused on bringing digital technology to businesses, citizens and public administrations.

The DEP provides strategic funding in five crucial areas:

High performance computing

Cybersecurity

Artificial intelligence

(Cloud, data and AI)

Advanced digital skills

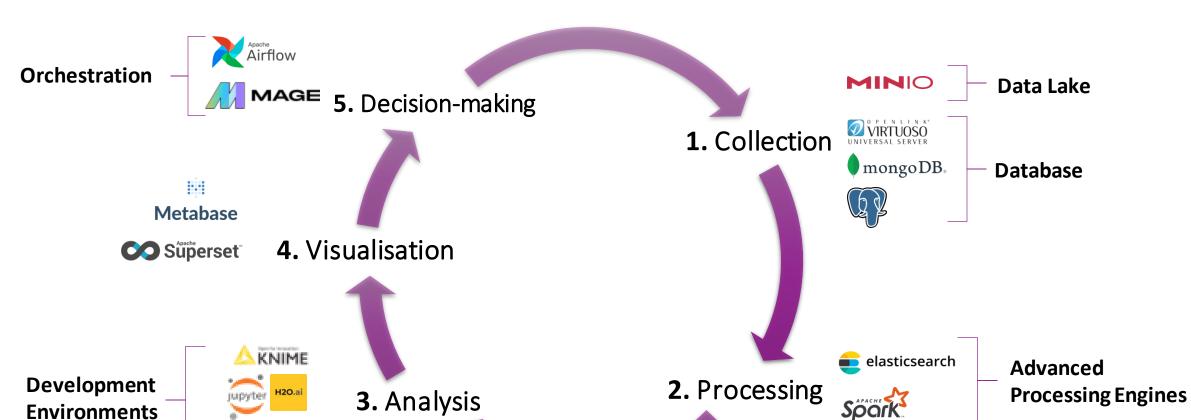
Deployment and wide use of digital technologies



Open-source tools to support your data journey

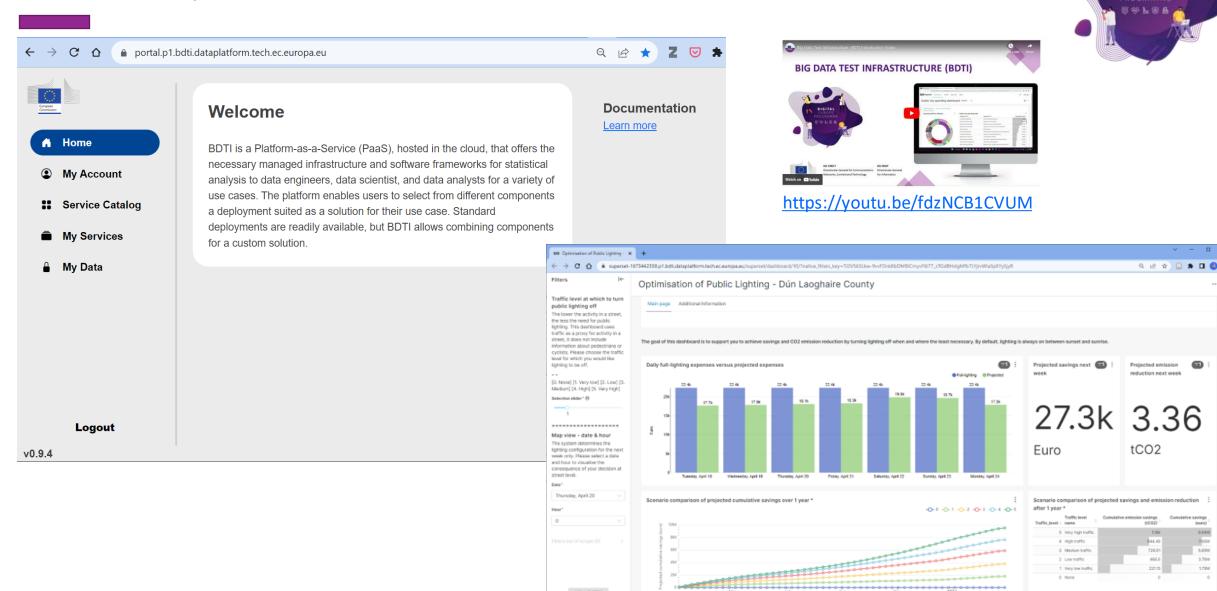
Studio





The BDTI portal





The BDTI portal

100% **Components**





%.......

Who is BDTI for?





European Public Administrations

All European Public Administrations at local, regional and national level can independently apply for a BDTI pilot project



Partnerships with academia and the private sector

Academia (master, PhD students) and startups and companies (GovTech sector) can apply if they are **collaborating** with a public administration

Why use BDTI?





Benefit of six months free of charge, including advisory and technical support



Experiment with data analytics using high **performance infrastructure** that leverages the power of the **elastic cloud**



Receive guidance to move from a pilot to a productionready process



Test your idea → Extract value → Create knowledge

Who used it already?









Generalitat Valenciana needed a solution to sift through vast scientific clinical articles from various sources like PubMed.gov and COVID-19-related publications. Their challenge was to extract valuable insights and knowledge from this immense volume of data.



Advanced data visualisation and text mining tools to help extract knowledge contained in the documents, supporting clinicians and managers in their clinical practices and day-to-day work.



The European Blood Alliance and DG SANTE embarked on a collaborative effort to establish a comprehensive open-access platform in Europe. This initiative aimed to collect crucial data for a focused study on COVID-19 convalescent plasma therapy. The challenge was to identify the most effective conditions for this treatment, utilising data analysis to make informed decisions and streamline research efforts.



A ready-to-use, virtual environment in which data collected through a custom-built website are ingested and anonymised, to be then analysed with advanced data visualisation and analytical tools. Initially, only donation data were processed, then the scope was increased to capture the end-to-end of blood plasma, from donation to patient/clinical trial.



The Municipality faced the complex task of correlating diverse datasets within the city. Their objective was to understand the movement patterns of people across different districts over time. This data analysis challenge was essential for gaining insights into mobility trends and for redesigning services to promote cultural activities and events effectively.



Predictive, descriptive and time-series analysis on multiple datasets collected **before**, **during and after the Covid-19 pandemic** such as: public Wi-Fi sensors, parking and georeferenced data of people movements (i.e., tourists).

How to apply: a fast and simple process

















Get familiar with the BDTI service on our <u>website</u>



Submit your pilot request (template) by email

Meet with us to elaborate on your use case

Your testenvironmentis set up

You can start piloting and create value!

Pilot Project is approved if:

Brings value, can be done in 6 months, sufficient resources available

Thank you for your attention!





Are you working for a public administration in need of infrastructure for data analytics? Get in touch



EC-BDTI-PILOTS@ec.europa.eu

BDTI website



BDTI's Joinup page



BDTI's newsletter



Links and resources

- https://big-data-test-infrastructure.ec.europa.eu/
- https://code.europa.eu/bdti/bdti-demonstrator
- https://commission.europa.eu/publications/interoperable-europe-act-proposal_en
- https://digital-strategy.ec.europa.eu/en/policies/legislation-open-data
- https://digital-strategy.ec.europa.eu/en/policies/data-governance-act
- https://digital-strategy.ec.europa.eu/en/policies/european-approach-artificial-intelligence
- https://digital-strategy.ec.europa.eu/en/activities/digital-programme
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- https://joinup.ec.europa.eu/collection/egovernment/solution/big-data-test-infrastructure-bdti