

Enabling a data-informed public sector

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



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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



Data is a key ingredient for **services**, products, and effective policy making.

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





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)

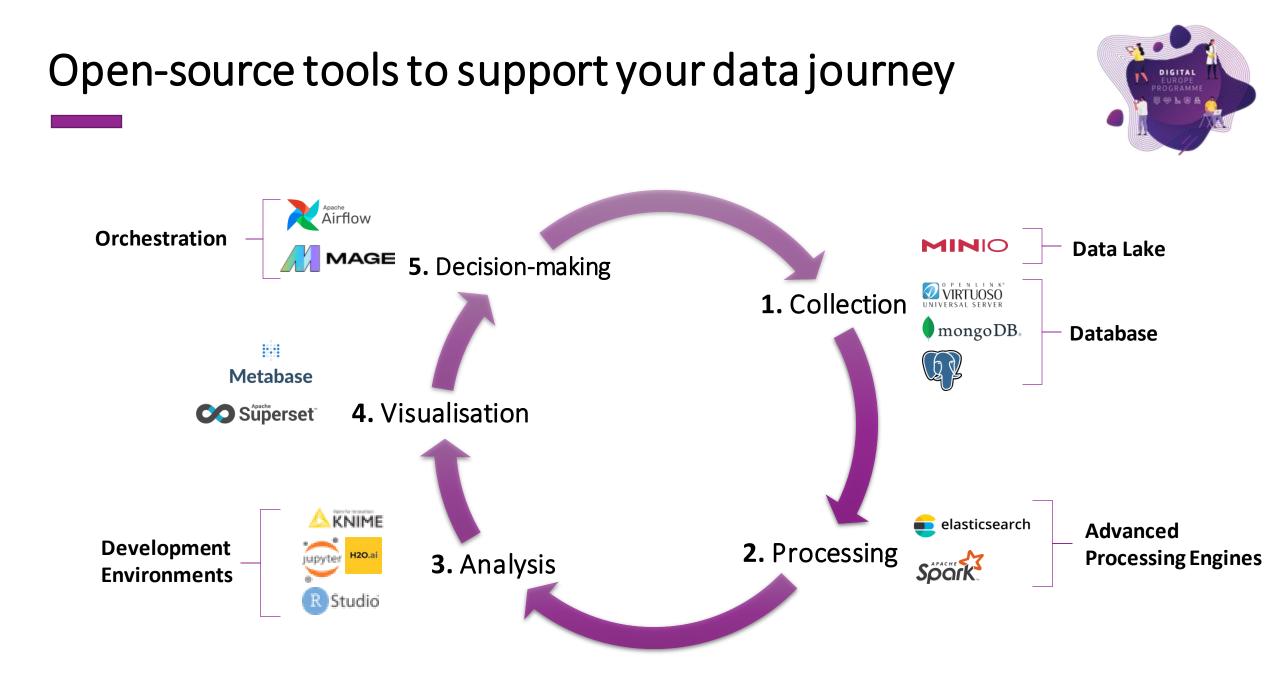
The BDTI is funded by the **Digital Europe Programme (DEP)** focused on **bringing digital technology** to businesses, citizens and **public administrations**.

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





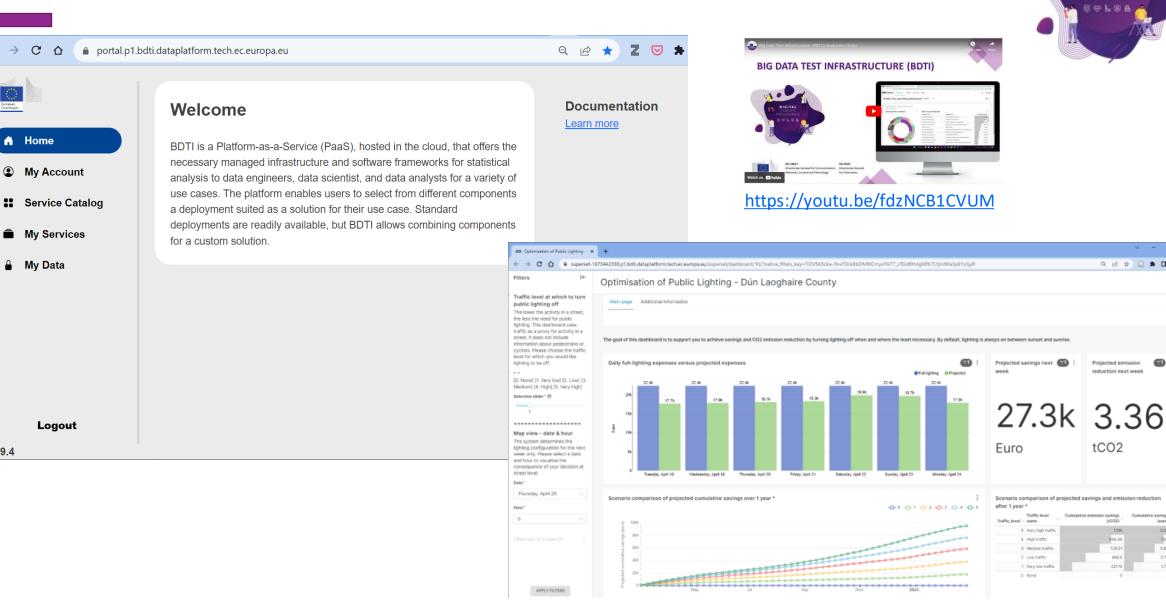
The BDTI portal

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Projected emission reduction next week

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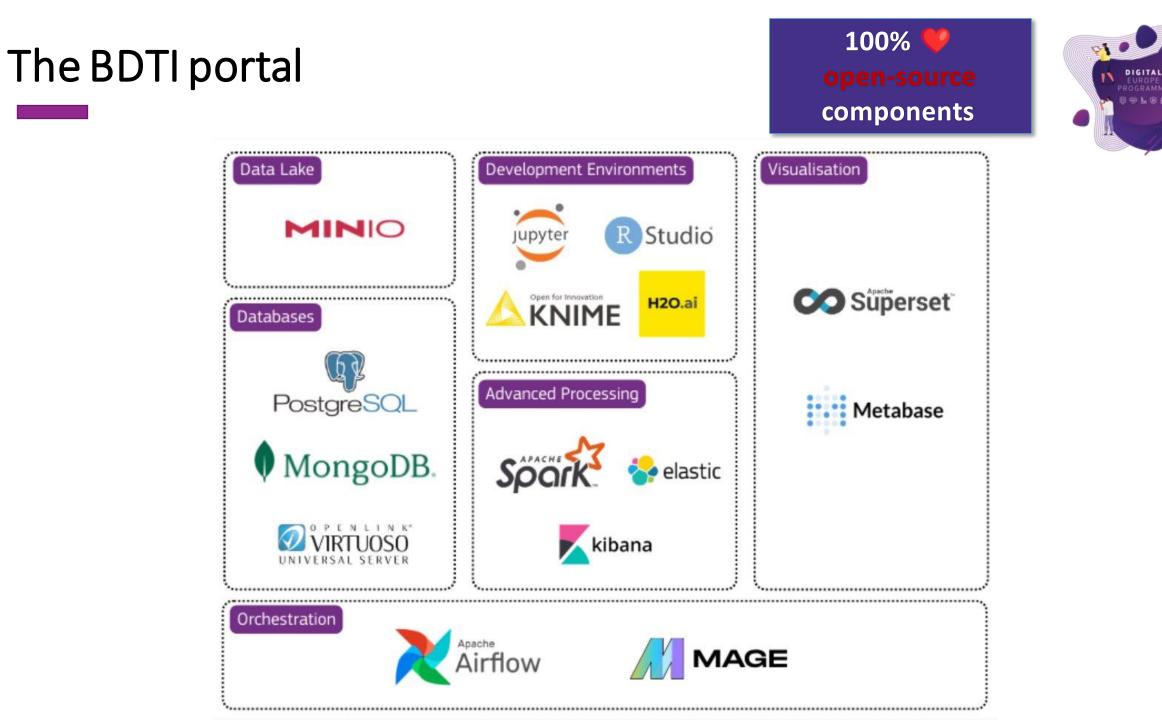
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Who is BDTI for ?





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 → Extra

Test your idea \rightarrow Extract value \rightarrow 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.



The European Blood Alliance and DG SANTE embarked on a collaborative effort to establish a comprehensive openaccess 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.



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.



Advanced data visualisation and text mining tools to help extract knowledge contained in the documents,

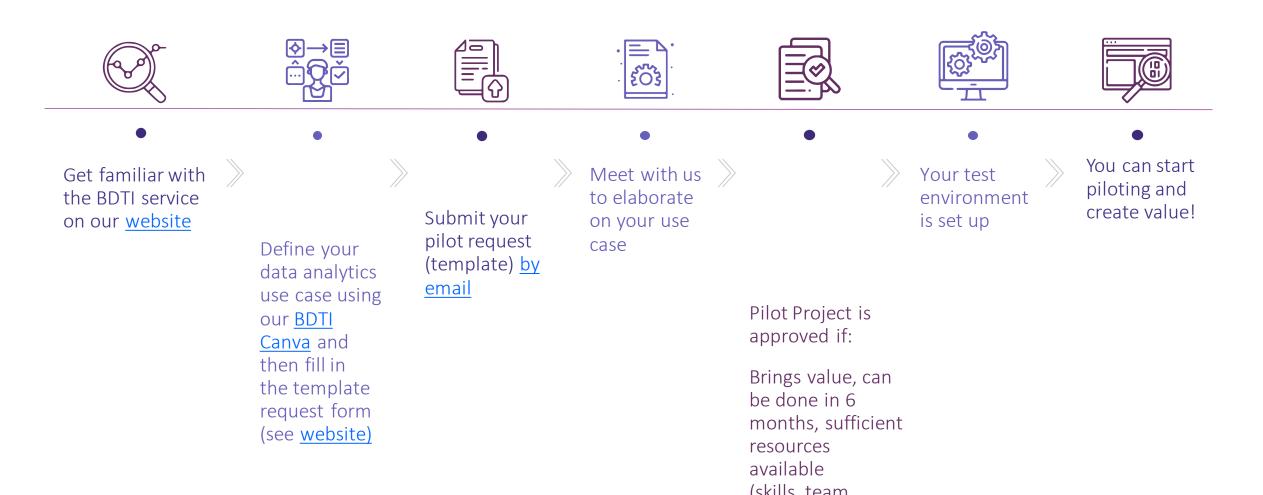
supporting clinicians and managers in their clinical practices and day-to-day work.

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**.

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





Thank you for your attention!



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









Links and resources

- https://big-data-test-infrastructure.ec.europa.eu/
- <u>https://code.europa.eu/bdti/bdti-demonstrator</u>
- https://commission.europa.eu/publications/interoperable-europe-act-proposal_en
- <u>https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/europe-fit-digital-age/european-data-strategy_en</u>

https://digital-strategy.ec.europa.eu/en/policies/legislation-open-data

- https://digital-strategy.ec.europa.eu/en/policies/data-governance-act
- <u>https://digital-strategy.ec.europa.eu/en/policies/european-approach-artificial-intelligence</u>
- <u>https://digital-strategy.ec.europa.eu/en/activities/digital-programme</u>
- https://dssc.eu/wp-content/uploads/2023/03/DSSC-Data-Spaces-Glossary-v1.0.pdf
- <u>https://digital-strategy.ec.europa.eu/en/library/staff-working-document-data-spaces</u>
- https://ec.europa.eu/commission/presscorner/detail/en/ip_22_1113
- <u>https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex%3A32019L1024</u>
- <u>https://joinup.ec.europa.eu/collection/egovernment/solution/big-data-test-infrastructure-bdti</u>