

DataPorts



**Transforming European Ports from
Connected to Smart & Cognitive**

Infocom World Conference, Athens 26 November 2019

A DATA PLATFORM FOR THE COGNITIVE PORTS OF THE FUTURE

Horizon 2020 Call: H2020-ICT-2018-2020

Topic: ICT-13-2018-2019

**Supporting the emergence of data markets and the
data economy**

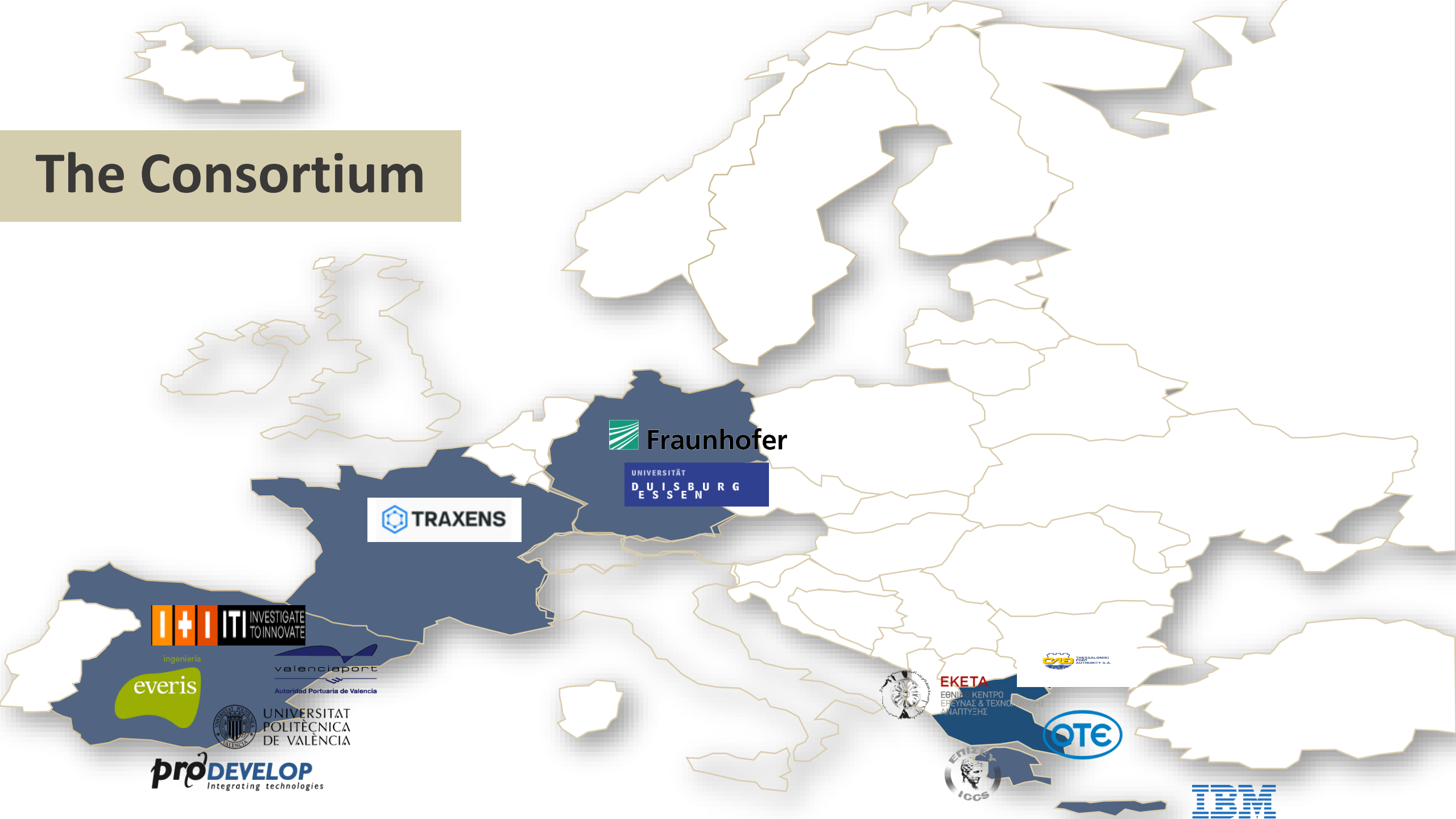
Type of action: IA Proposal number: 871493

Proposal Acronym: DataPorts

Funding: 5.740.586,63€



The Consortium



Fraunhofer

UNIVERSITÄT
DUISBURG
ESSEN



TRAXENS



ITI INVESTIGATE
TO INNOVATE

ingeniería

everis

valenciaport

Autoridad Portuaria de Valencia



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

pro²DEVELOP
Integrating technologies



EKETA

ΕΘΝΙΚΟ ΚΕΝΤΡΟ
ΕΡΕΥΝΑΣ & ΤΕΧΝΟΛΟΓΙΑΣ



Vision

DataPorts will boost the transition of European seaports from connected and digital to smart and cognitive, by providing a secure environment for the aggregation and integration of data coming from the different sources existing in the digital ports and owned by diverse stakeholders, so that the whole port community could benefit from this data in order to improve their processes, offer new services and devise new AI based and data driven business models.



Objectives

To address real-life data market use cases in two relevant European seaports and related community

To design and validate interoperable data related and AI based services

To provide scalable, resilient and semantic approach for data sharing

To define, design and provide a data governance.

To define new cooperation and business framework

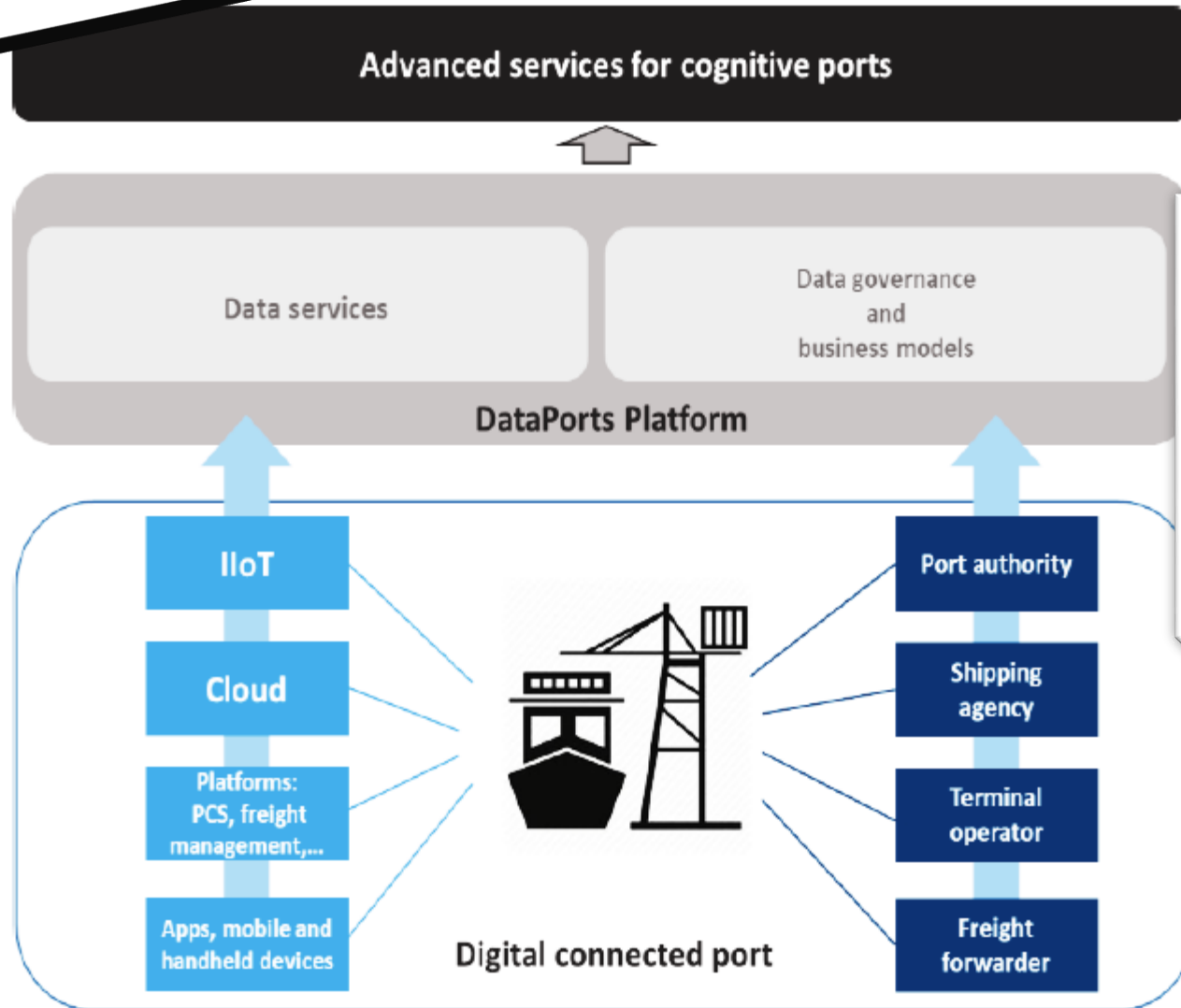
Impact creation

To set the policies for a trusted and reliable data sharing and trading.

To Offer Secure and trusted environment for data sharing between stakeholders.

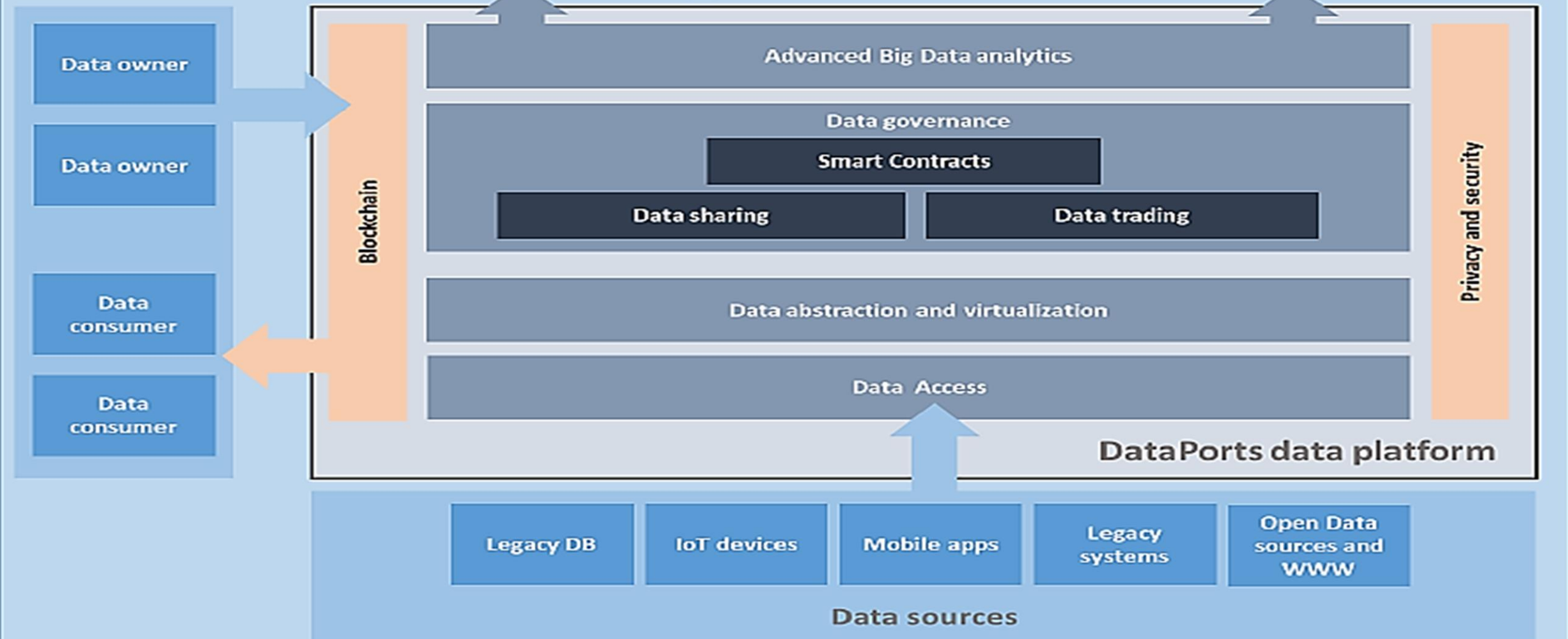


Concept



| <i>Industry and end-users</i> | <i>Technology providers</i> |
|---|---|
| <ul style="list-style-type: none">• Port community stakeholders• Shipping and maritime companies• Transport and logistics value chain• Other initiatives | <ul style="list-style-type: none">• APP developers• IoT, cloud, digital platforms providers• SMEs |
| <i>Data market actors</i> | <i>Others</i> |
| <ul style="list-style-type: none">• Data owners• Data providers• Data consumers | <ul style="list-style-type: none">• Government and regulatory bodies• Standardization committees |

**Cognitive
port
of the future**



Use Cases

Tracking use case:

- Container tracking
- Goods tracking
- Transport operations



Smart containers use case:

- Increase the operations' efficiency
- Decrease accidents / disputes
- Cost reduction.
- Improved knowledge of hazards of the freights.

Data Sharing use case:


- Interoperability and traffic optimization
- Reduce pollution, queues, energy consumption
- *Integrate data sources* into a wider European-wide data platform

Port management integration use case:

- Increase the portfolio of services and data driven business models.
- Operational Improvements.
- Reduction of delays
- Environmental impact
- Increase of data exchange.

OTE's role



- **Cloud infrastructure** for proof-of-concept (POC) development and the pilot deployment of the project's system,
 - Will focus on the description, **requirements and the evaluation of the use cases**, as well as the **validation of the scenarios**, which are orchestrated in the context of use cases.
 - Moreover, OTE owns large repositories of **datasets** from a variety of sources such as, **demographics**, **heat-maps**, **port visitors' roaming info** that can be provided for the needs of the DataPorts.
 - OTE will play the role of **impact manager** and will coordinate all activities regarding the Impact of the project.
 - Finally, OTE will participate in the **dissemination and the communication** activities of the project
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A night view of a city with a large speech bubble saying "Thank you!". The background is a dense urban landscape at night, featuring numerous skyscrapers and buildings. Many windows are illuminated with warm yellow and orange light, while some lower-level windows show cooler blue and white tones. A large, light blue speech bubble with a white outline is positioned on the right side of the image, containing the text "Thank you!" in a black, cursive font. The speech bubble's tail points towards the bottom left, ending near the bottom of the central building.

*Thank
you!*