DataPorts: Challenges and Opportunities in Seaports

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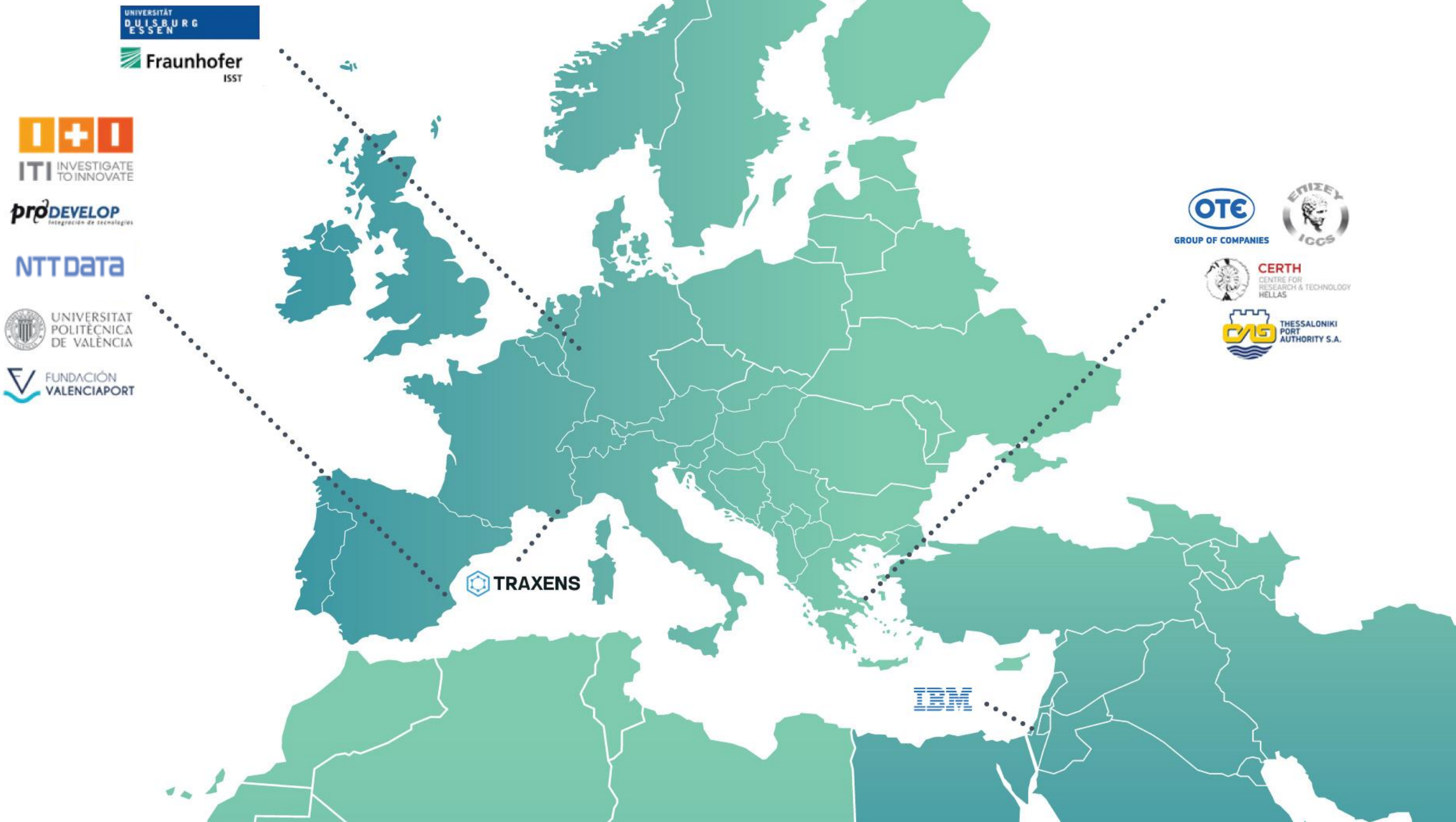
What is DataPorts?

DataPorts

Data Platform for the
Connection of Cognitive Ports

3	+6M	+900	13
Years	Budget	PMs	Partners


UNIVERSITÄT DUISBURG ESSEN
Fraunhofer ISST
ITI INVESTIGATE TO INNOVATE
prodevelop Integración de tecnologías
NTT DATA
UNIVERSITAT POLITÈCNICA DE VALÈNCIA
FUNDACIÓN VALENCIAPORT
TRAXENS
IBM
OTE GROUP OF COMPANIES
ENIZEY ICCS
CERTH CENTRE FOR RESEARCH & TECHNOLOGY HELLAS
THESSALONIKI PORT AUTHORITY S.A.

Seaports of the Future

Transform 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

so that the whole port community could benefit from this data and improve their processes, offer new AI based services and data driven business models.

HOW TO ACHIEVE THIS?

BLOCKCHAIN

ADVANCED SERVICES FOR COGNITIVE PORTS

- DATA PROCESSING
- DATA AGGREGATION
- DATA ACQUISITION

- VALUE PROPOSITION
- SMART CONTRACTING
- DATA PROTECTION

IoT
Cloud
PCS, TOS...
Apps & Mobile

Port Authority
Shipping Agency
Terminal Operator
Freight Forwarder

Use Cases

Valencia Port

- Tracking of Transport Operations
- Port Authority Data Sharing and Analytics Services
- Sharing Verified Gross Mass

Thessaloniki Port

- Data driven app for strategic and real time decisions
- Permit ID for container pick-up
- Facilitation of Passengers, Professionals, and visitors
- COVID-19 Statistics

Global Scenarios

- Tracking Container
- Port management system

ACCESS TO INFORMATION GIVES ANSWERS

Better Customer insights

New forms of Collaboration

Improved Decision Making

Expand customer base

OPPORTUNITIES

BUSINESS

- New data marketplaces
- Data Monetization

CITIZENS

- Full control over personal data
- Access to services

RESEARCH

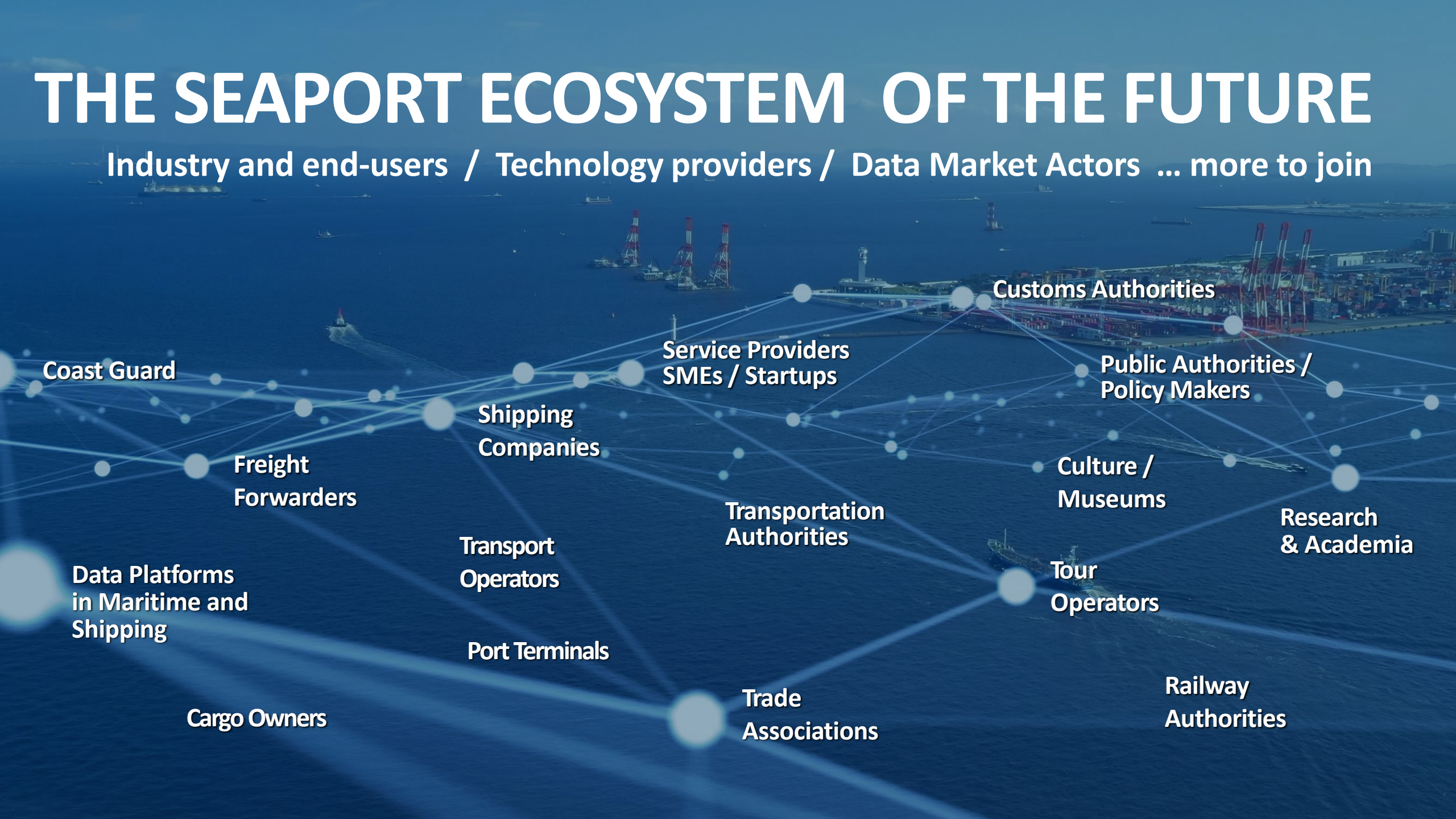
- Increasing impact of research data across domains & borders
- Open innovation through data availability

PUBLIC BODIES

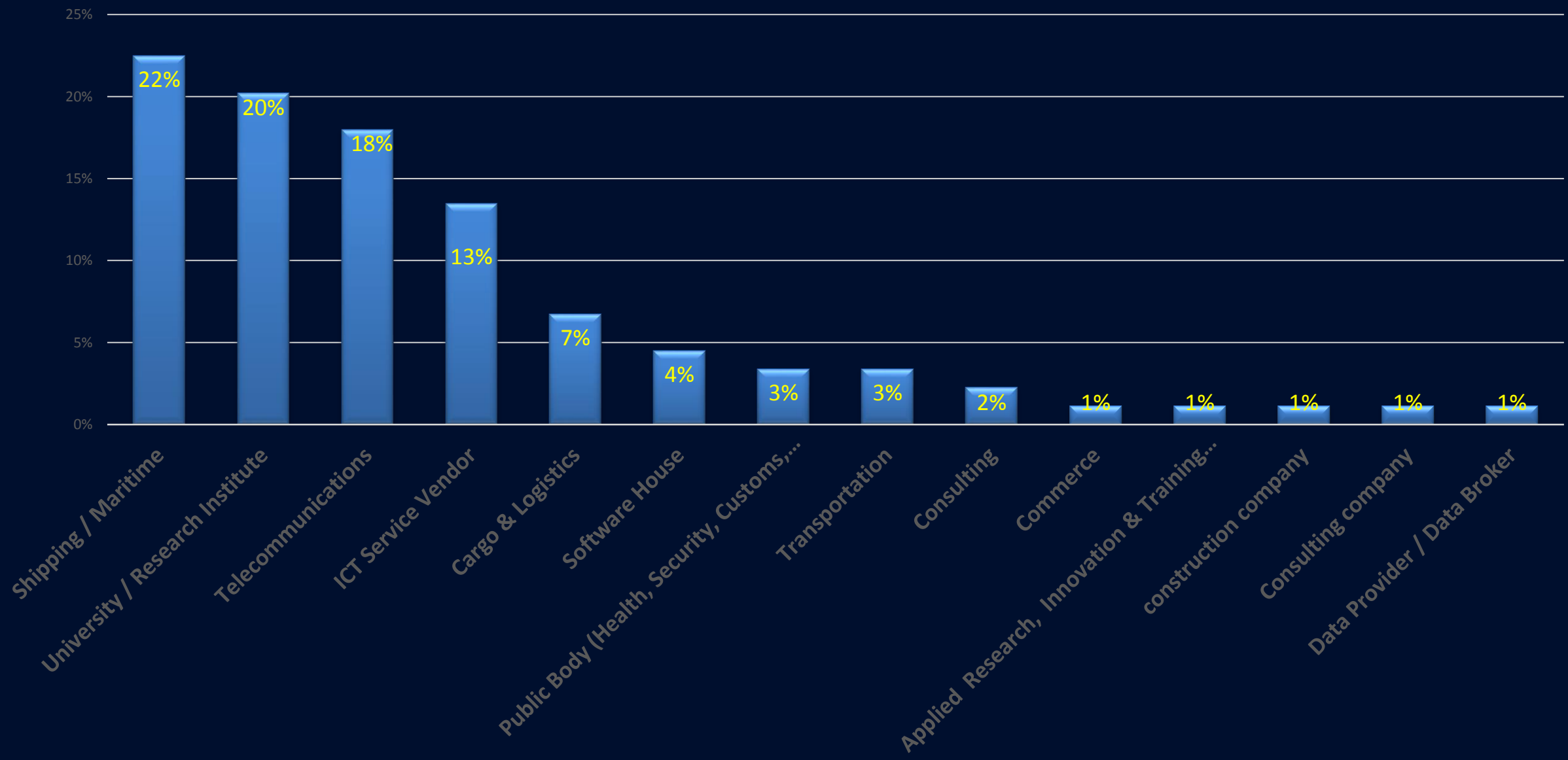
- Better government services
- AI-enhanced digital services
- Real-time statistics

THE SEAPORT ECOSYSTEM OF THE FUTURE

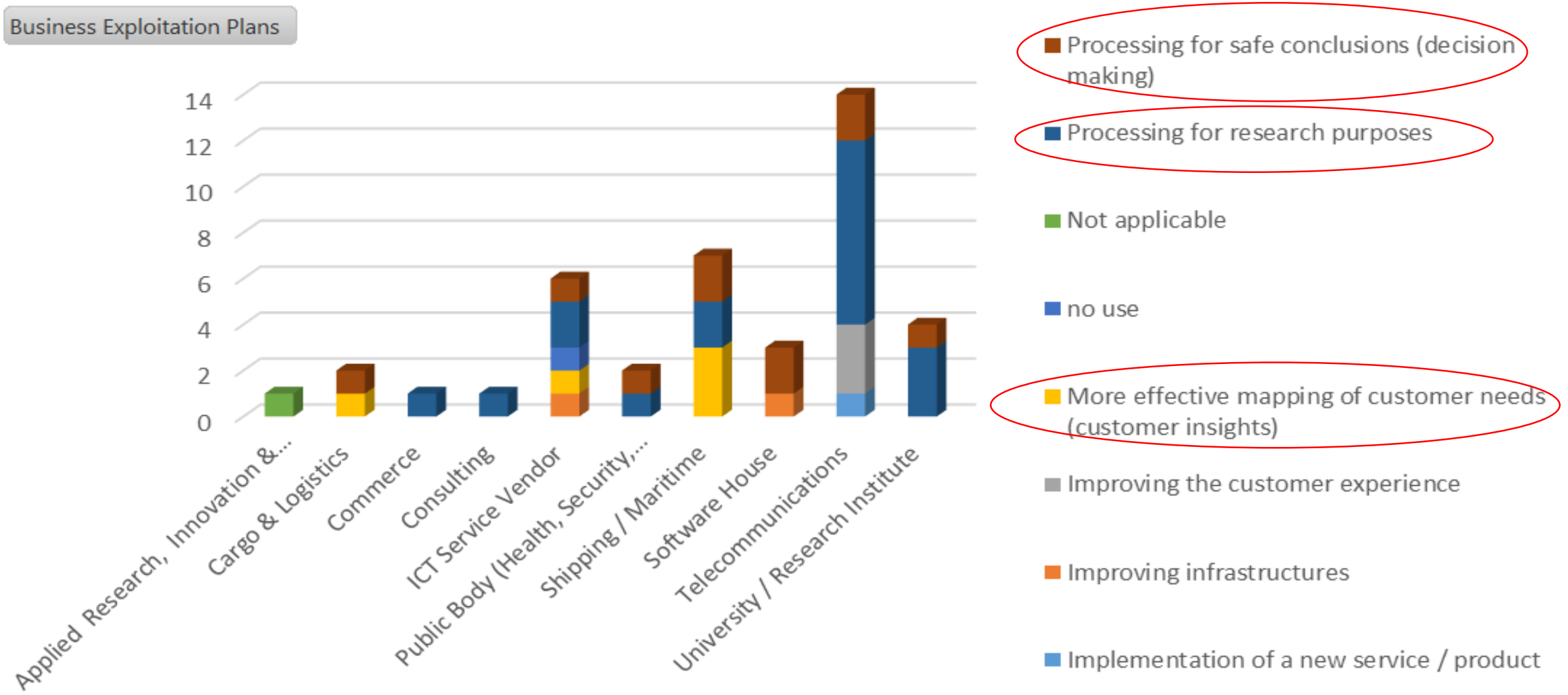
Industry and end-users / Technology providers / Data Market Actors ... more to join



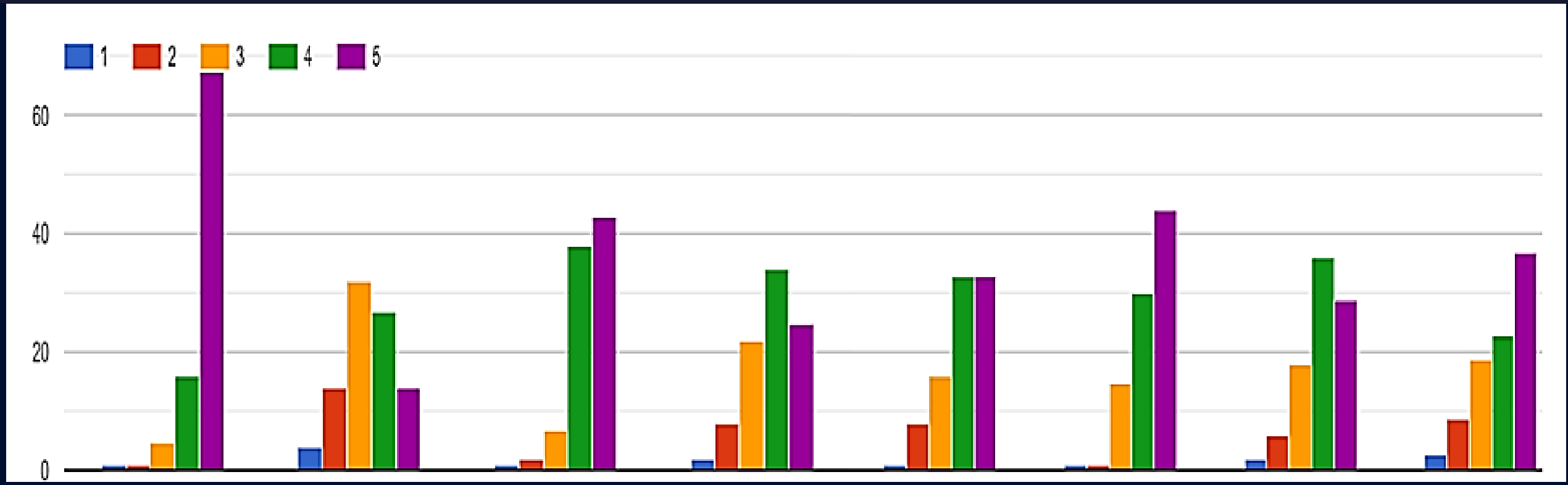
Survey: Identify Market Needs



DataPorts Platform Exploitation



Data Profile (Importance using Data)



Accuracy

Amount of data volume

Availability

Ability to provide useful data all year round

Completeness

Up to date

Sufficiency

Capability / Standardization

DataPorts Solution

(Some of the) Achievements

- Industrial platform specification
- DataPorts Architecture
- Use Cases specification
- Business, innovation and exploitation strategies
- Platform components: https://platform.dataports-project.eu/

- Deliverables available at: https://dataports-project.eu/deliverables/

THANK YOU

For more info please contact us:
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