Interreg Italy - Croatia DigLogs

EUROPEAN UNION

DigLogs – Digitalising Logistics processes
Pilot Action for Venice Port System Authority

Data Management Systems to improve the efficiency of Adriatic Ports

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European Regional Development Fund

APV

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Overview

- **Base scenario**
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  - *DigLogs pilot action genesis*
  - *Current operational scenario*
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- **The DigLogs Pilot for Venice Port System Authority**
  - *DigLogs Venice Port pilot pillars*
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  - *Data sources*
  - *Training activities*
- **Long-term perspective**

Base scenario

Regulatory references

INSPIRING PRINCIPLES FOR THE CREATION OF A DATA INFRASTRUCTURE

Fragmentation, **lack of harmonization**, **data duplication** are the main issues showing that there is an urgent need of implementing a Spatial Data Infrastructure

INSPIRE directive (2007/2/CE) states that the amount of time and resources spent searching for existing data or deciding whether they can be used for a particular purpose is the main obstacle to the optimal exploitation of available information base.

The 5 INSPIRE principles

Effective management

Data should be collected only once and kept where it can be maintained most effectively

Interoperability

It should be possible to combine seamless spatial information from different sources across Europe and share it with many users and applications

Sharing

It should be possible for information collected at one level/scale to be shared with all levels/scales; detailed for thorough investigations, general for strategic purposes

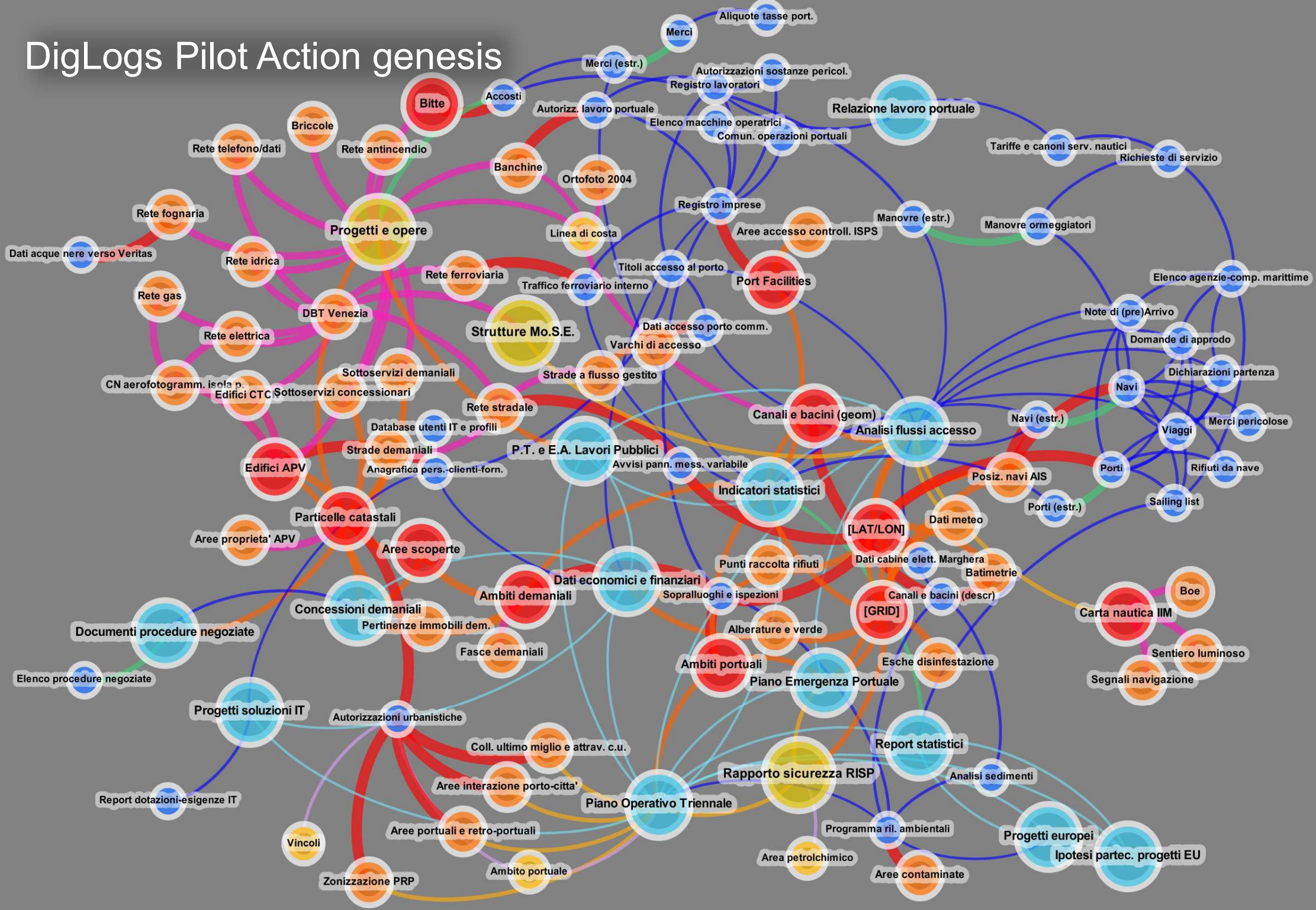
Readiness and availability

Geographic information needed for good governance at all levels should be readily and transparently available

Easiness of use

Easy to find what geographic information is available, how it can be used to meet a particular need, and under which conditions it can be acquired and used

DigLogs Pilot Action genesis

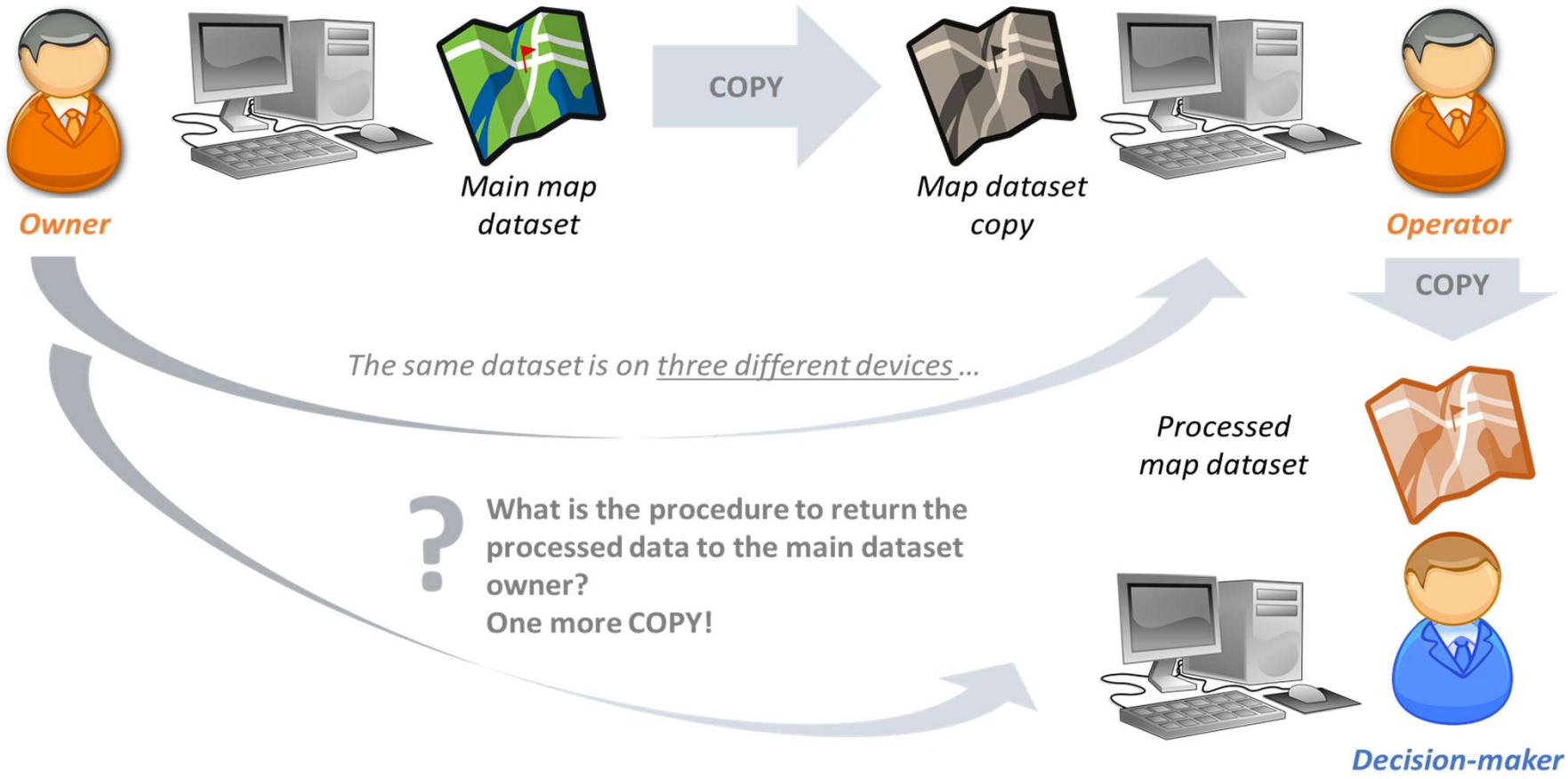


DigLogs pilot action genesis

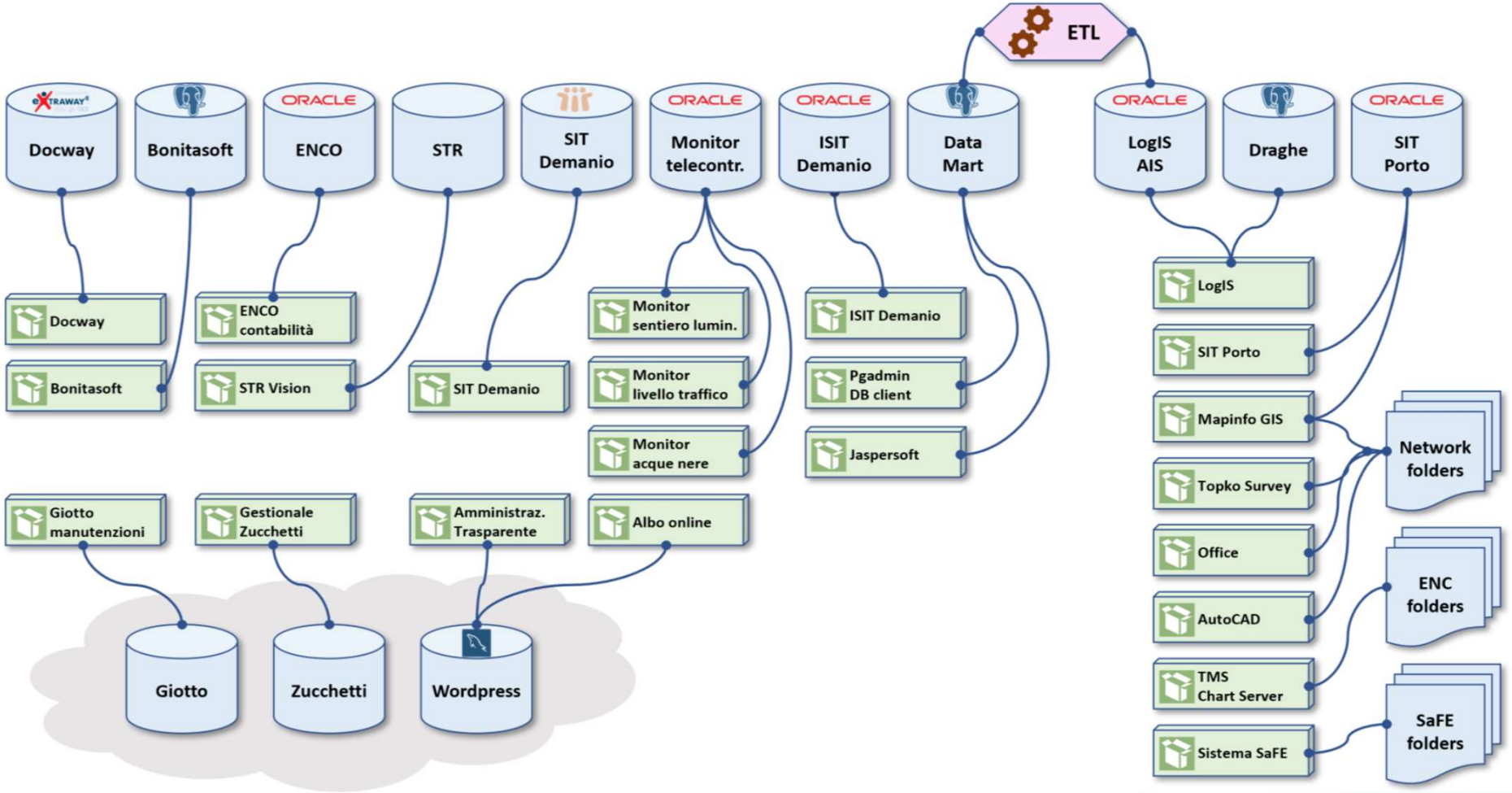
Numbers from the survey carried out in 2018 for the "SUPAIR" Interreg project

Organization	ICT resources	Information assets
Departments **15**	Software applications **22**	Data sources **107**
Tasks and processes **48**	*Storage systems* **17**	*Correlations* **204**

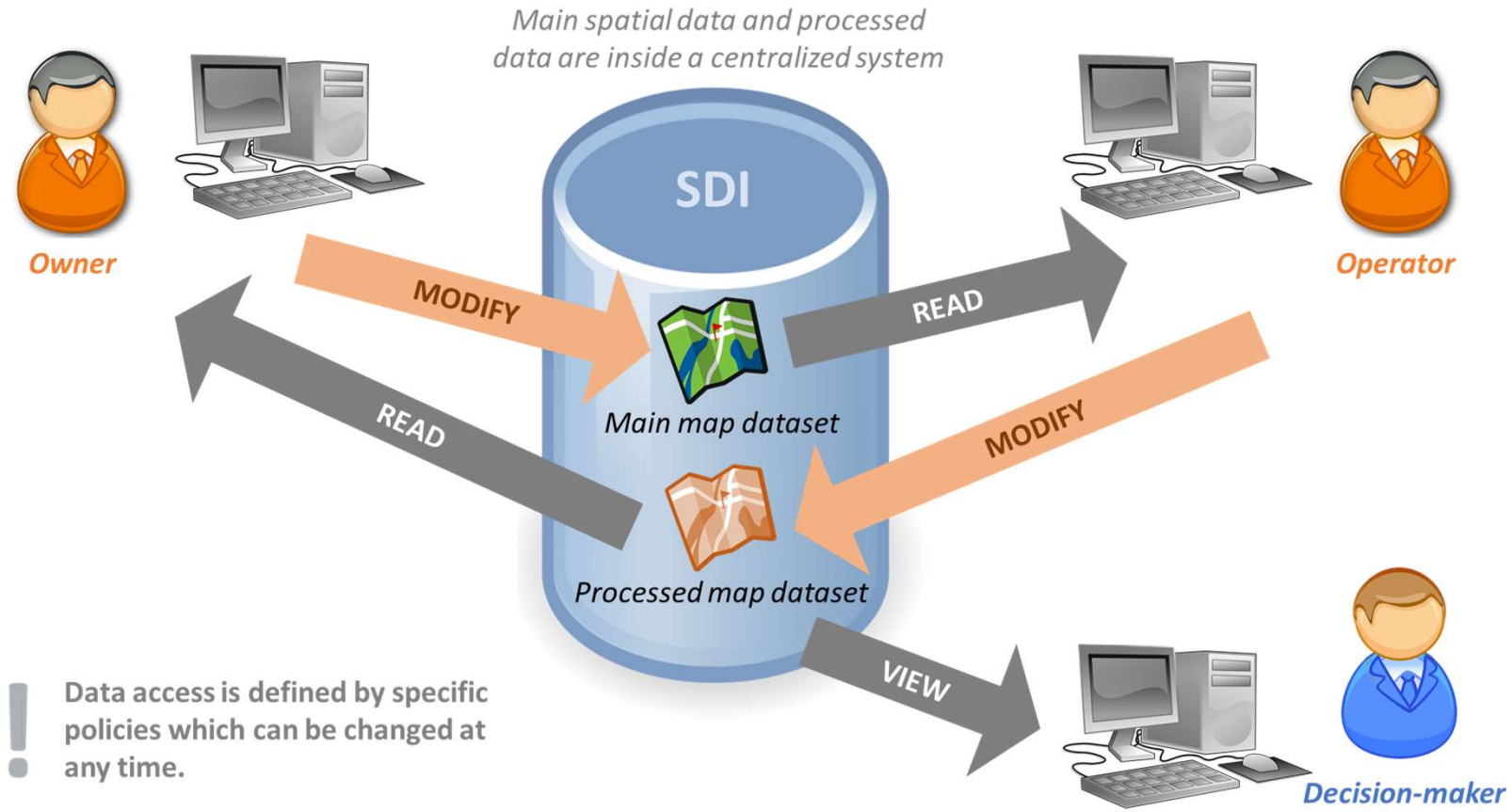
Operational scenario



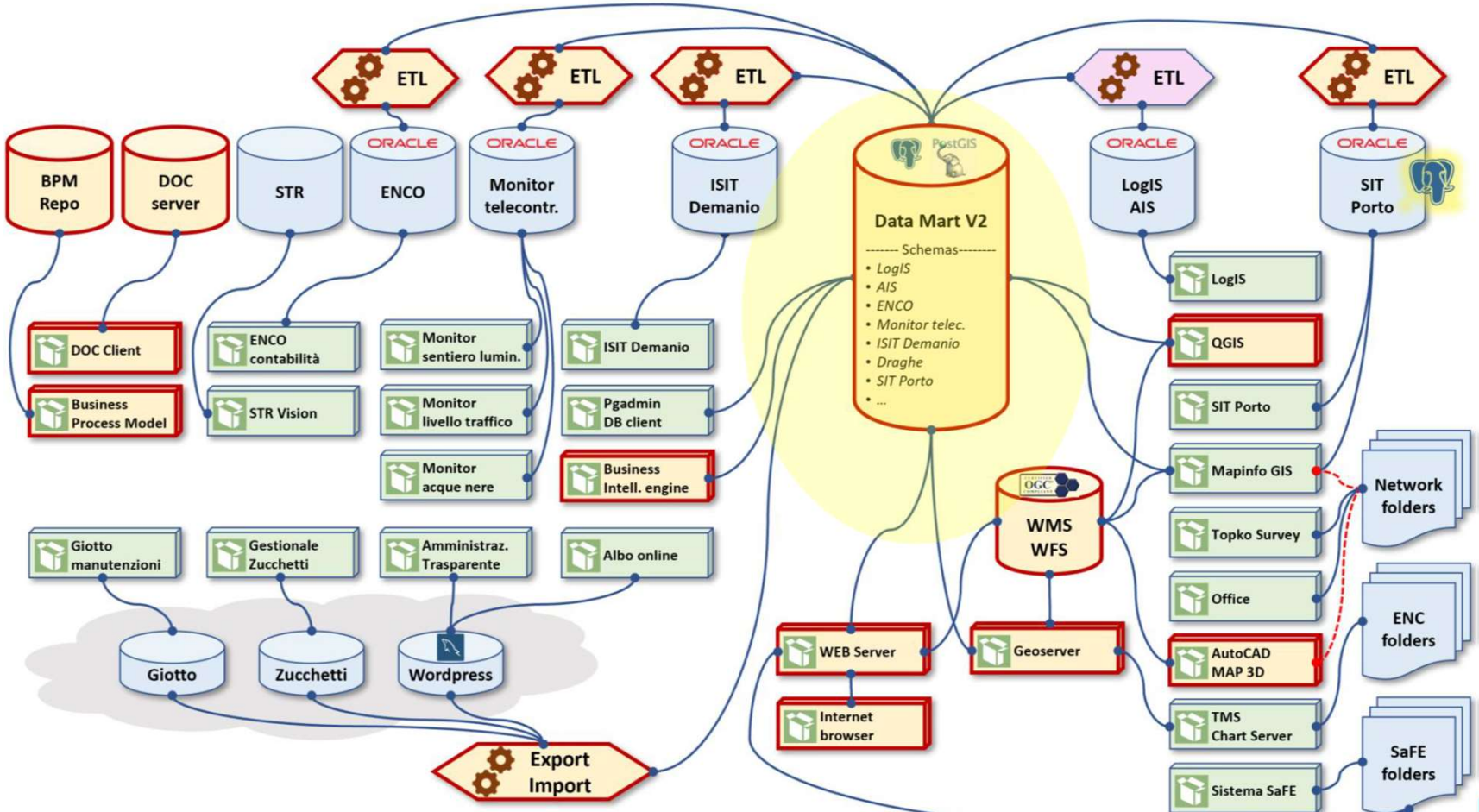
Port System Authority system architecture



Possible future scenario



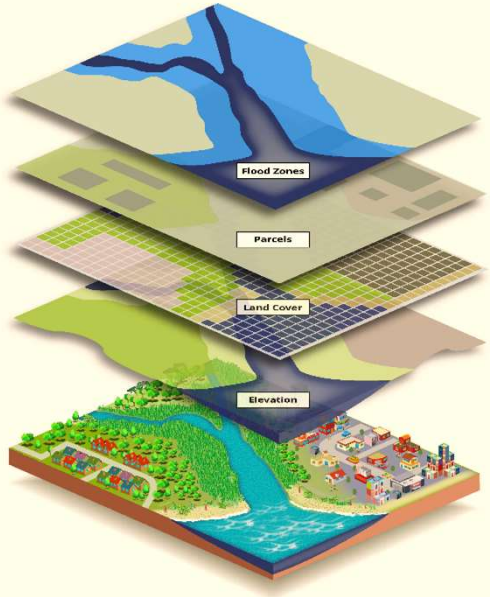
Possible system architecture evolution



The DigLogs Pilot for Venice Port System Authority

DigLogs Venice Port pilot pillars

SPATIAL DATA INFRASTRUCTURE

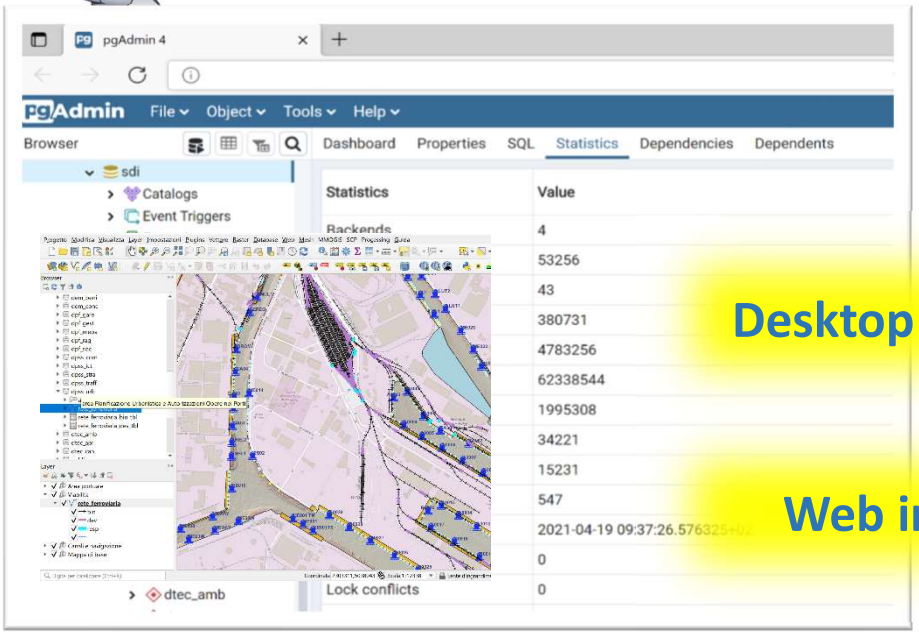


ON THE JOB TRAINING PROGRAMME

Venice Port System Authority SDI components

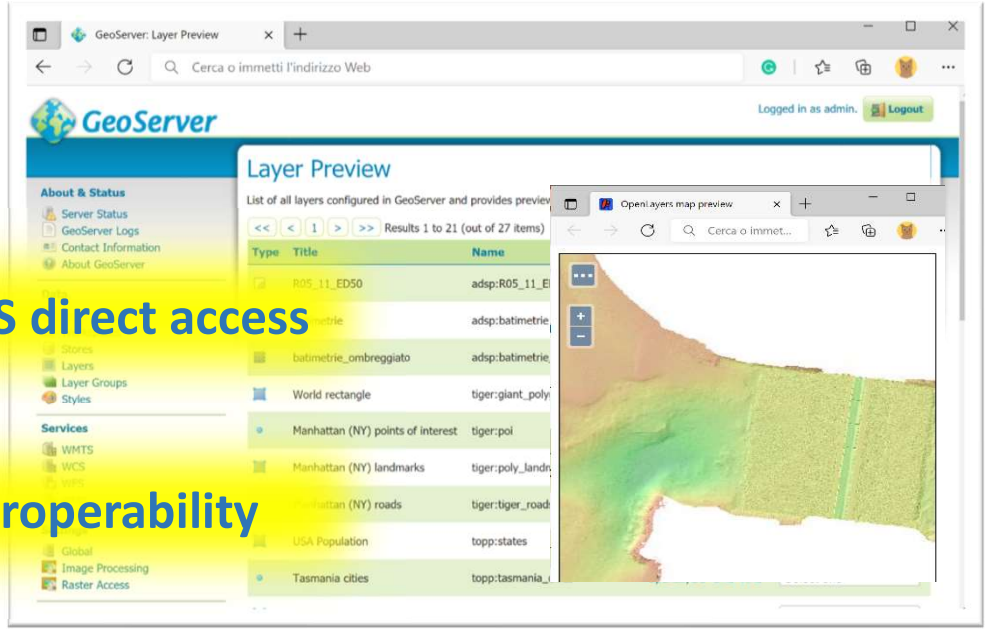
VECTOR MAPS ENGINE

PostGIS



IMAGERY MAPS / 3D MODELS ENGINE

GeoServer



Desktop GIS direct access

Web interoperability

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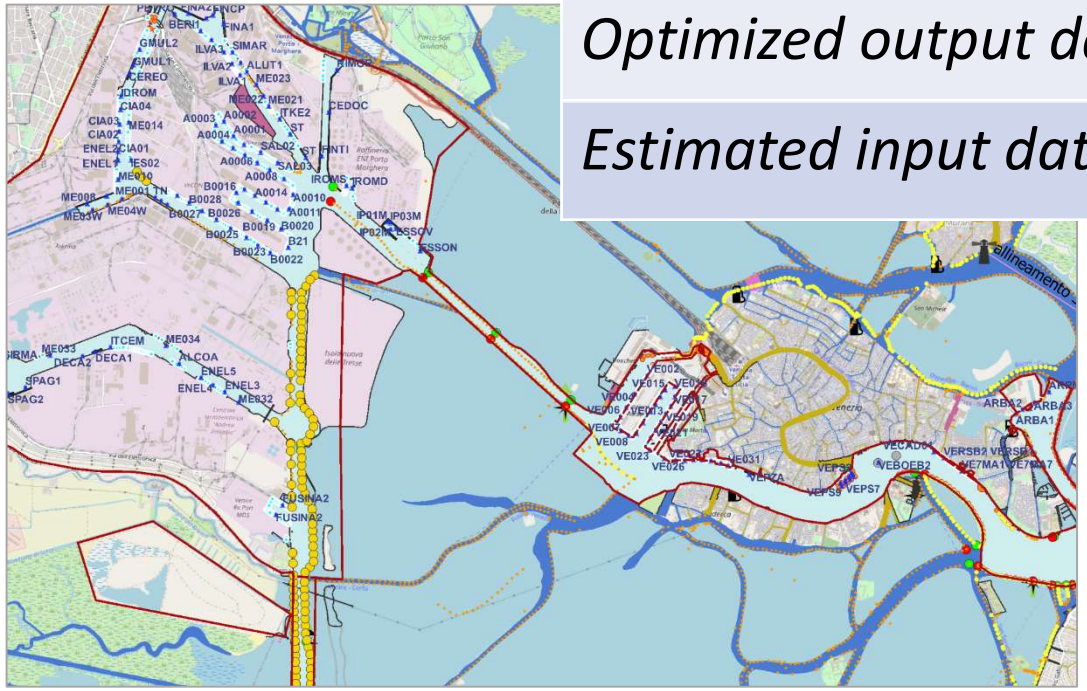
Venice Port System Authority SDI data sources

Data source optimization summary	
Processed input datasets	***519***
Optimized output data sources	***45***
Estimated input dataset to be processed	***100+***

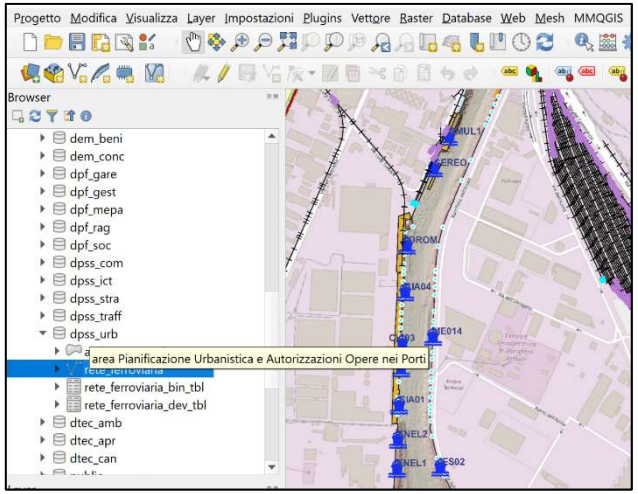


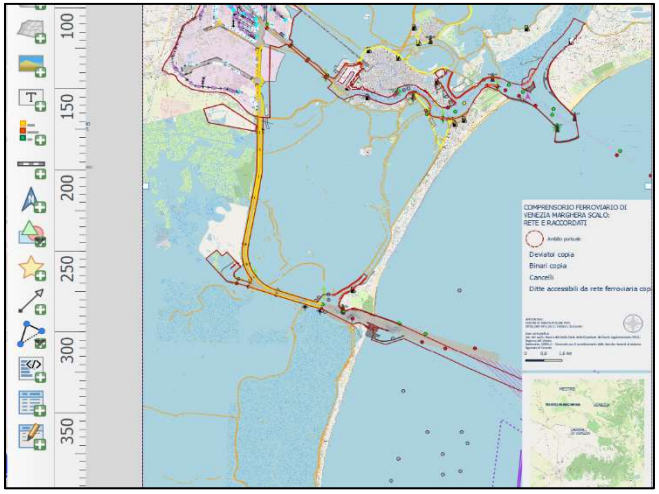
Venice Port System Authority training activities

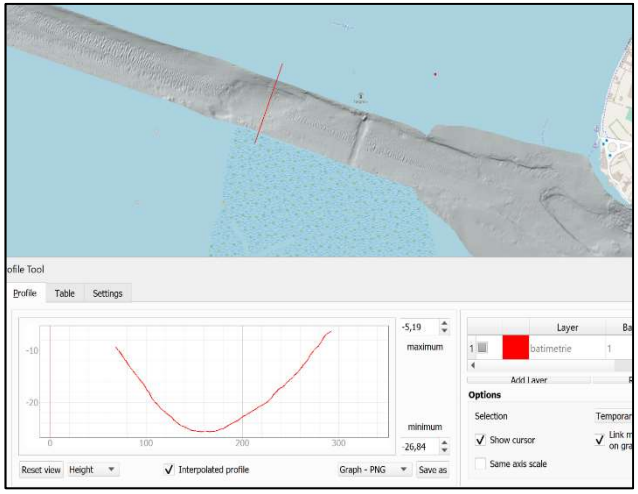
Activities summary	
Training period	***Oct-21 - Dec-21***
Total days of training	***23***
Involved Port System Authority departments	***6***
Operators involved in basic training	***15***
Operators involved in advanced training	***2***

Venice Port System Authority training topics

- ❑ ENVIRONMENT SETTINGS
- ❑ DATA ACCESS
- ❑ DATA VISUALIZATION
- ❑ MAPPING TECHNIQUES
- ❑ CUSTOM TOOLS/TECHNIQUES
- ❑ PROCESSING / GEOPROCESSING

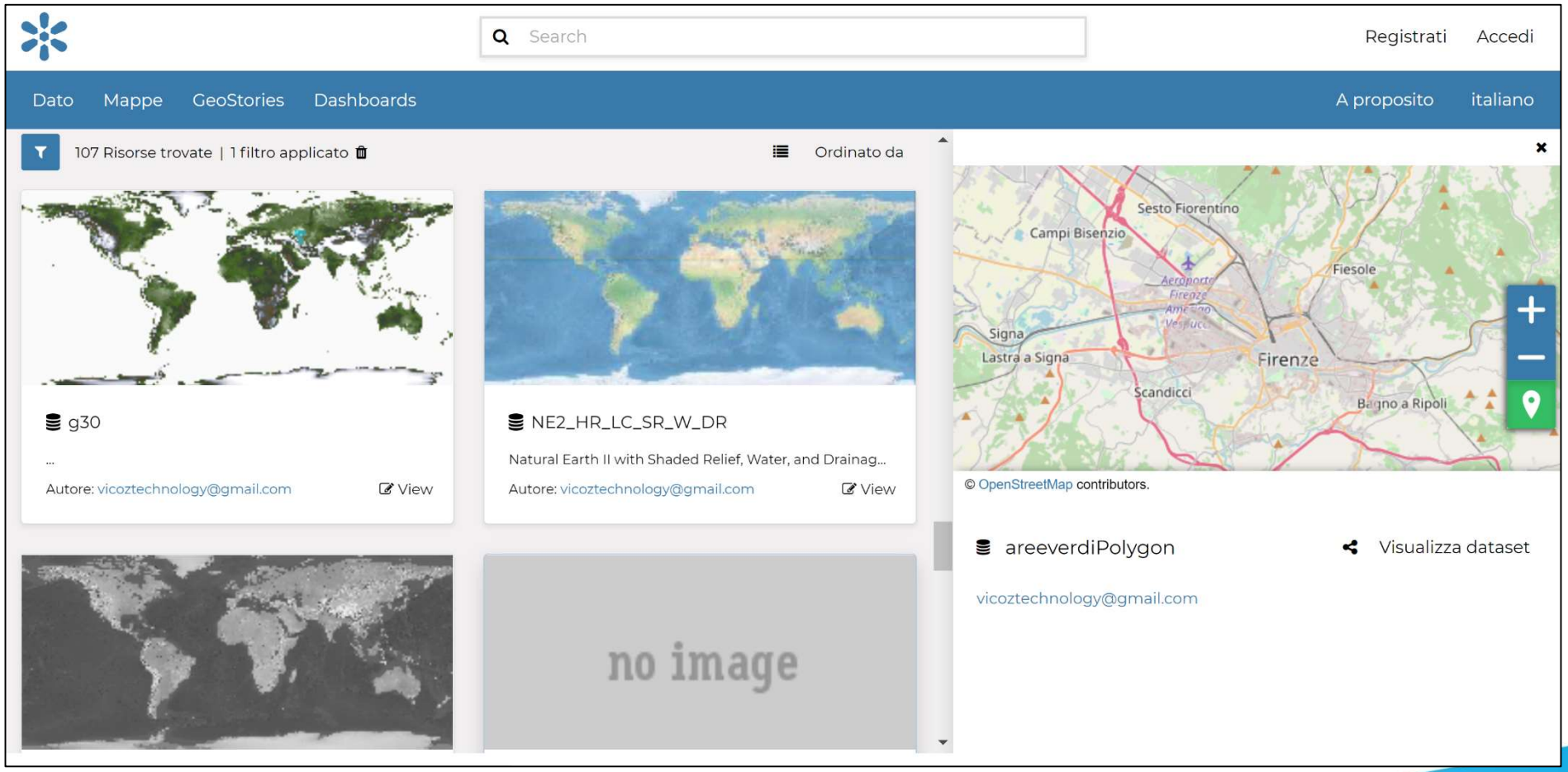






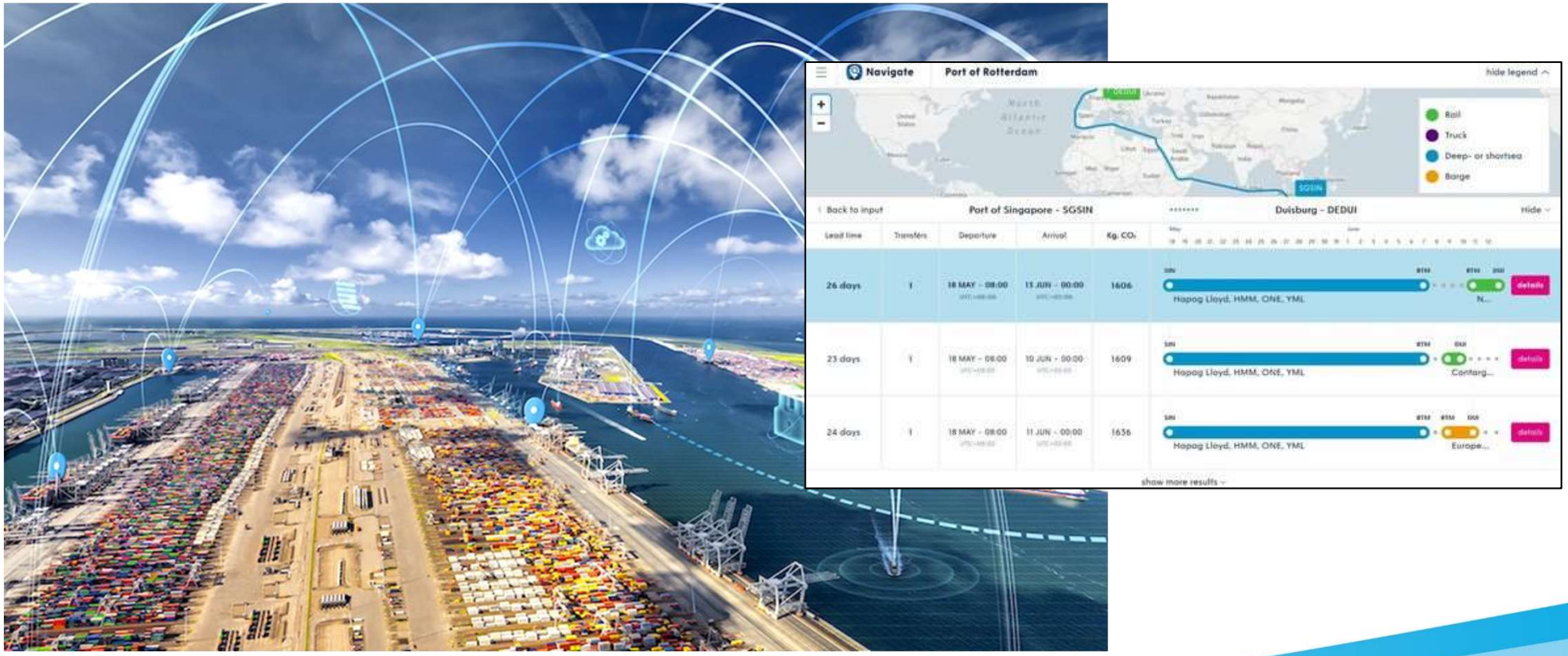
Long-term perspective

Open Data web portal



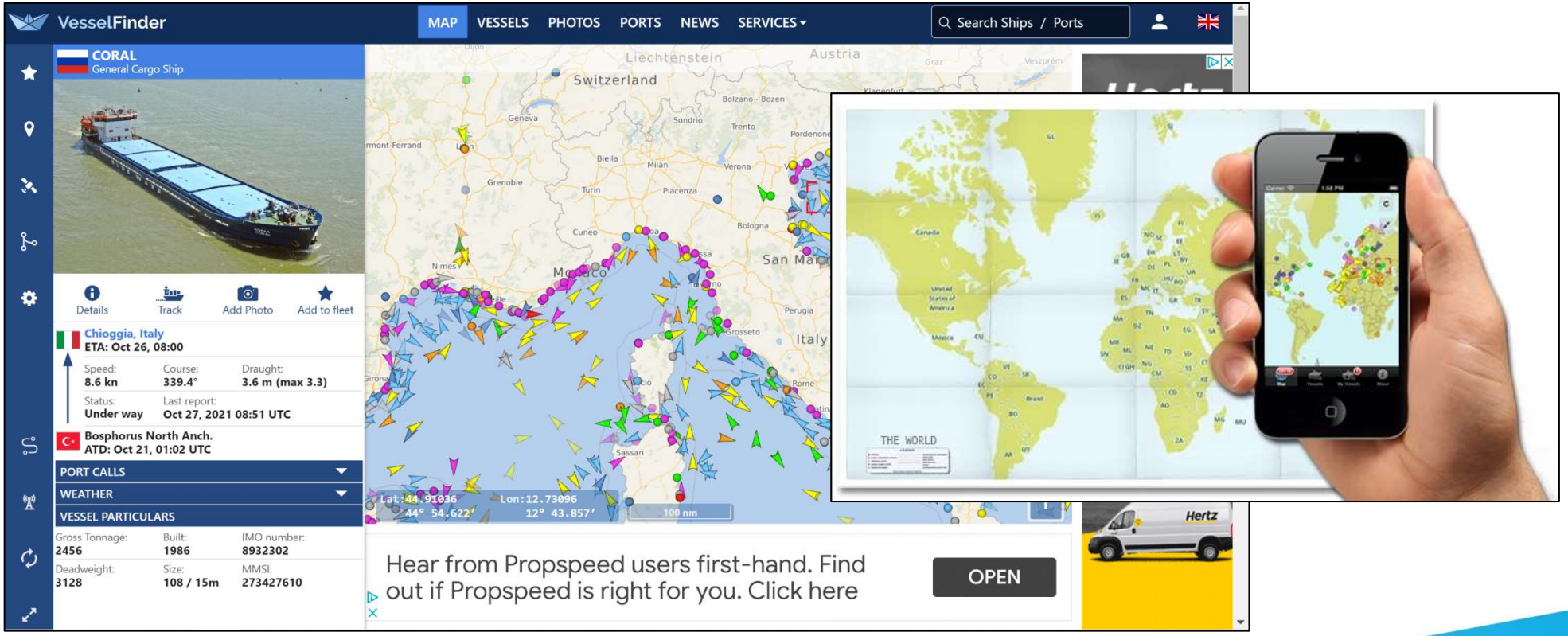
New data-driven services

Online booking systems, congestion and critical situations warnings, performance indicators etc ...



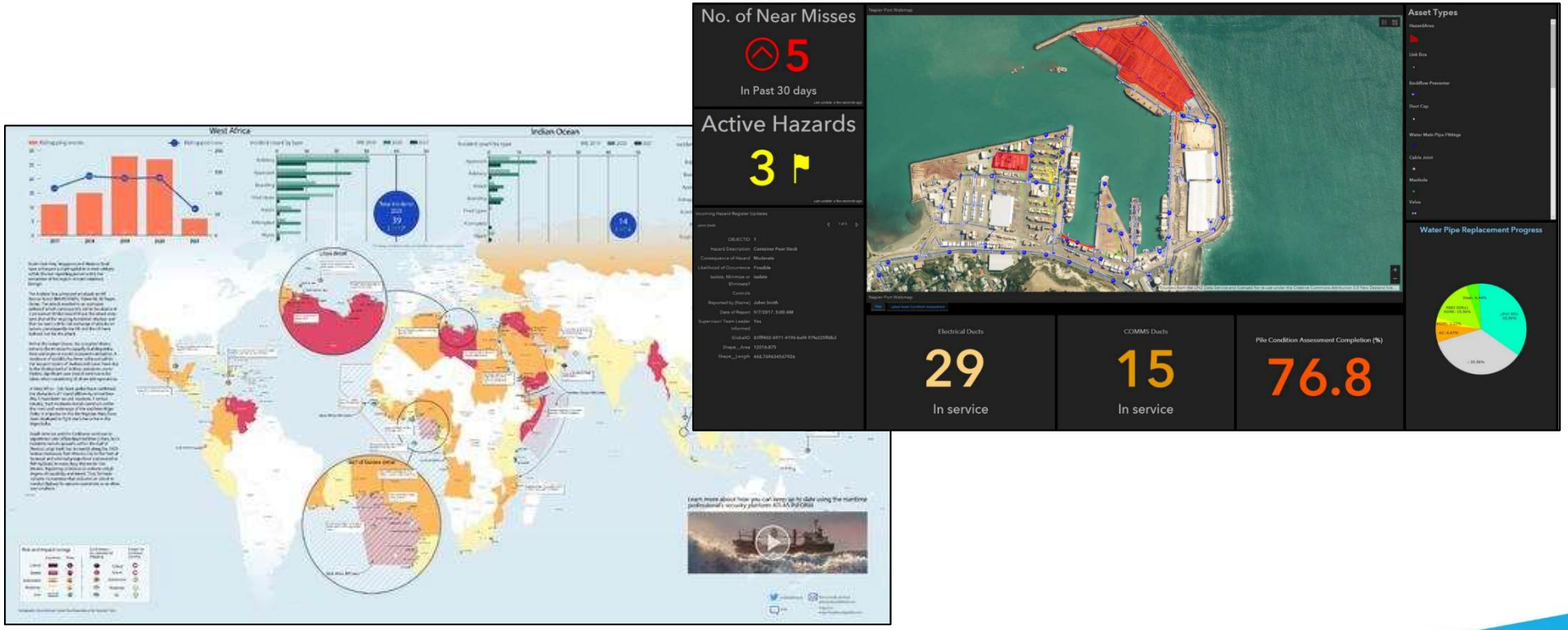
Real-time based web services

Navigation mobile APP EVO version, information and notification systems, etc.



Spatial based Business Intelligence

Public works monitoring dashboards, documents management systems, assets and advanced management ...



Thank you

Contacts

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