

PORT SOLUTIONS FOR EFFICIENT, EFFECTIVE AND SUSTAINABLE MULTIMODALITY



MultiRELOAD

MultiRELOAD

Horizon Europe project

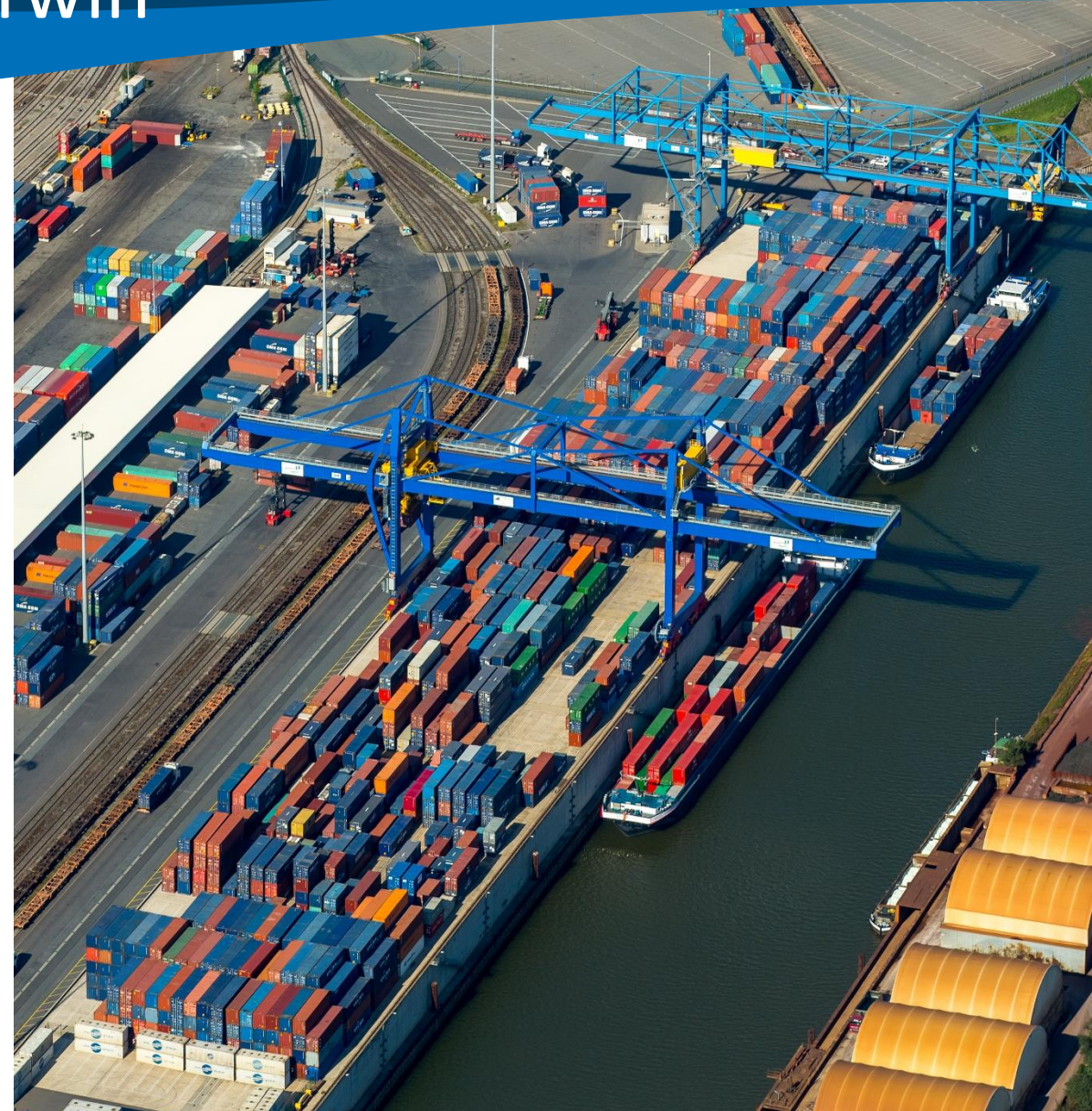
[www.multireload.eu](http://www.multireload.eu)

# B4 - Multimodal Node Digital Twin

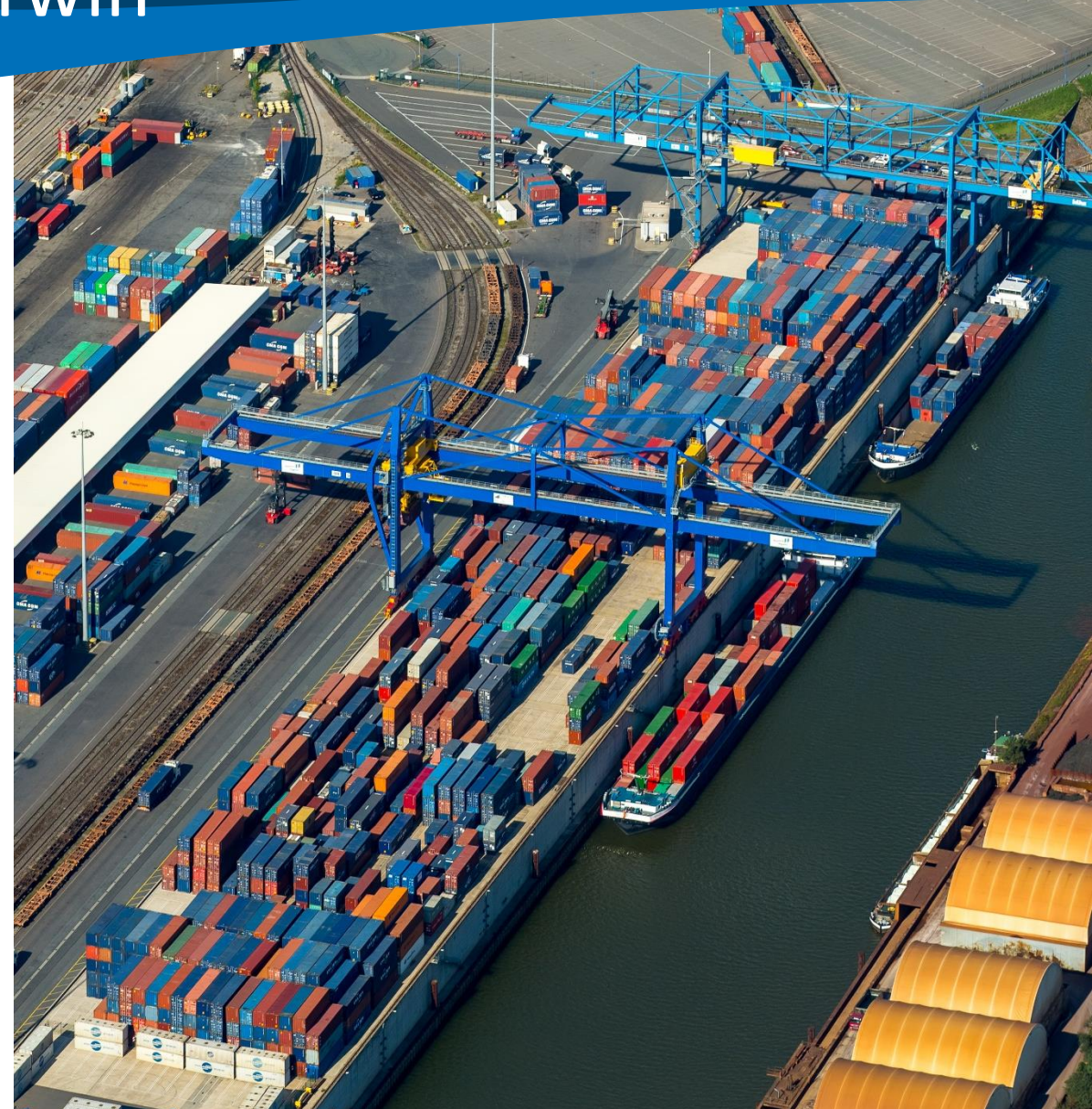
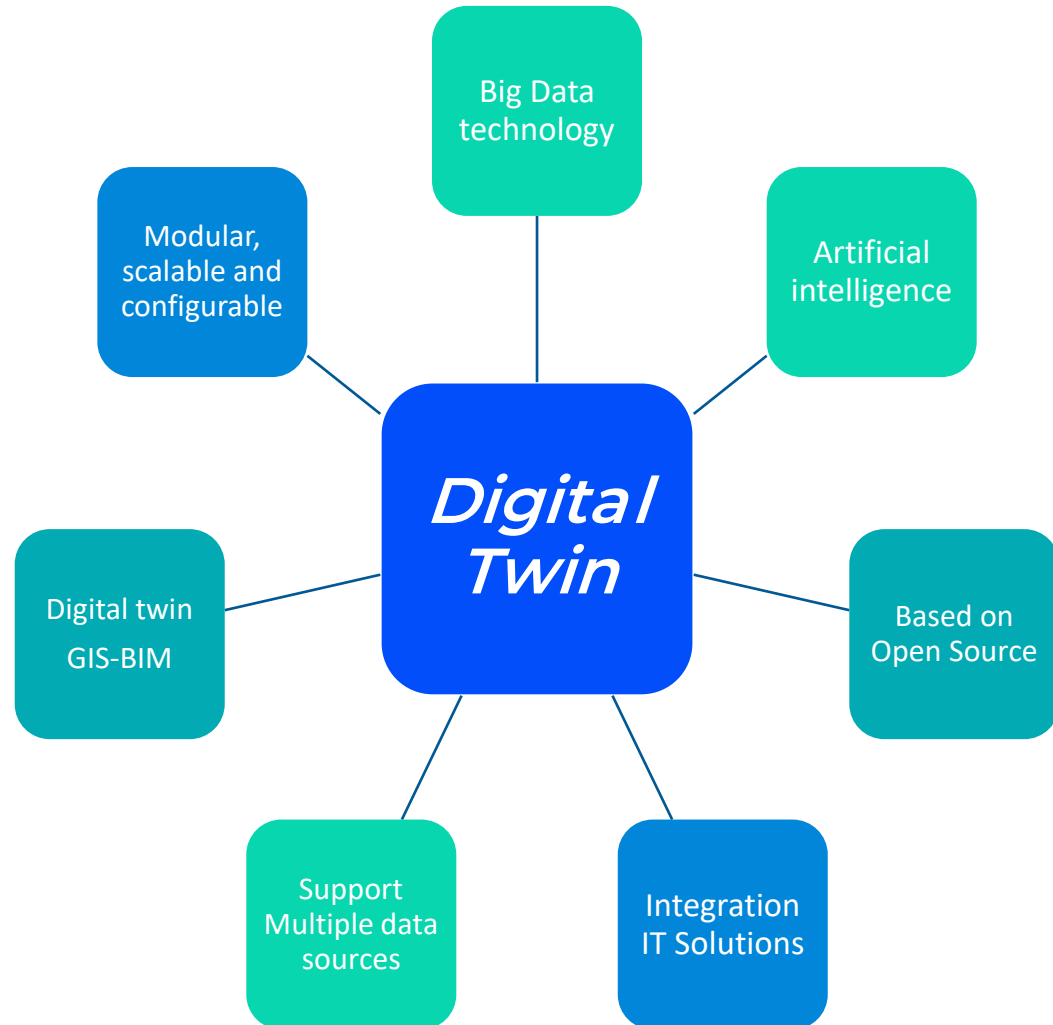
## *What is the ambition?*

Demonstrator **Multimodal Node Digital Twin**, aims the development of a Digital Twin platform of a port (Logistic multimodal hub) as a central visualisation and control point for data and notifications/alarms from diverse data sources and port services. The main functionalities are:

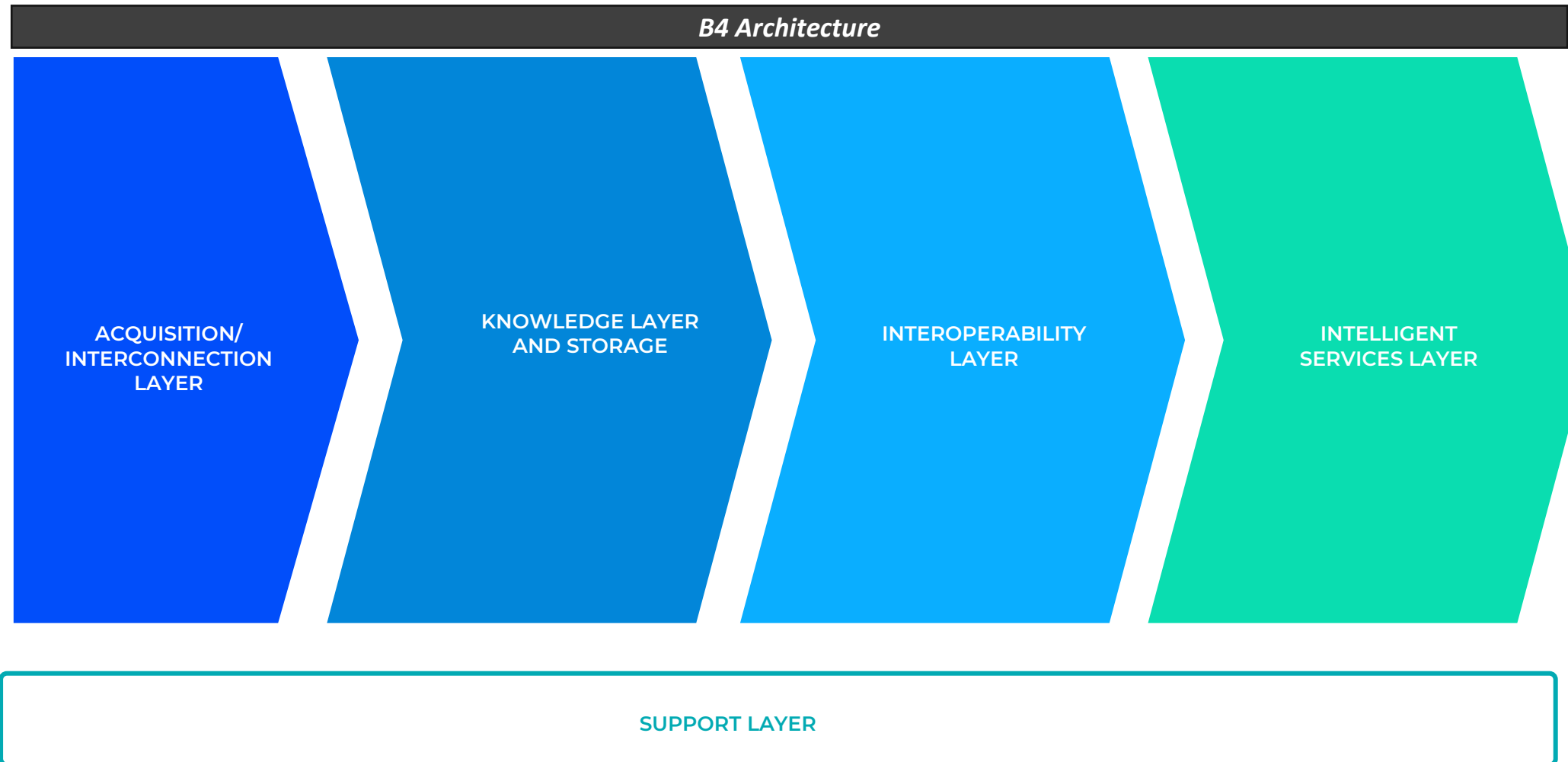
- Comprehensive and centralized port management tool. Central data repository. Able to collect data from a variety of sources (sensors, port Information systems) and services.
- Digital representation (map and tabular view) of the port situation in real time and historically
- Application of Big Data analytics “AI” (Simulations and prediction) to improve decision-making
- Automates the collection, monitoring and analysis of information
- Totally modular, scalable solution based on Big Data technologies



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## Intelligent Services Layer

Smart lighting

Energy efficiency

GIS +BIM

Berth Automation

Traffic management

Supplies

Environment

Others

Security

SUPPORT LAYER