Streamlining Ports & Terminals Operations Through Technology





Come by to our booths 8 & 24



Christophe Joubert

International Ports Deputy COO



cjoubert@prodevelop.es



https://www.linkedin.com/in/christophejoubert/

Who we are



We **digitalise port** and **terminal** operations



Main provider of technology solutions for ports in Spain



Some **numbers**:

27 Spanish Port Authorities

4 Regional ports

3 National Port Agencies

15+ countries

10+ terminals

200+ ports & terminals digitalised

Offices in **Valencia** (for Spain), **Algeciras** (for Africa), and **Lima** (for LATAM)







Key elements for successful digitalisation



Putting people at the centre of its concerns



Collaboration



Have the right tools



PEOPLE & COLLABORATION

People works with projects

People leads and executes projects

People uses the projects and services



What **tools** can be used to digitalise a port?

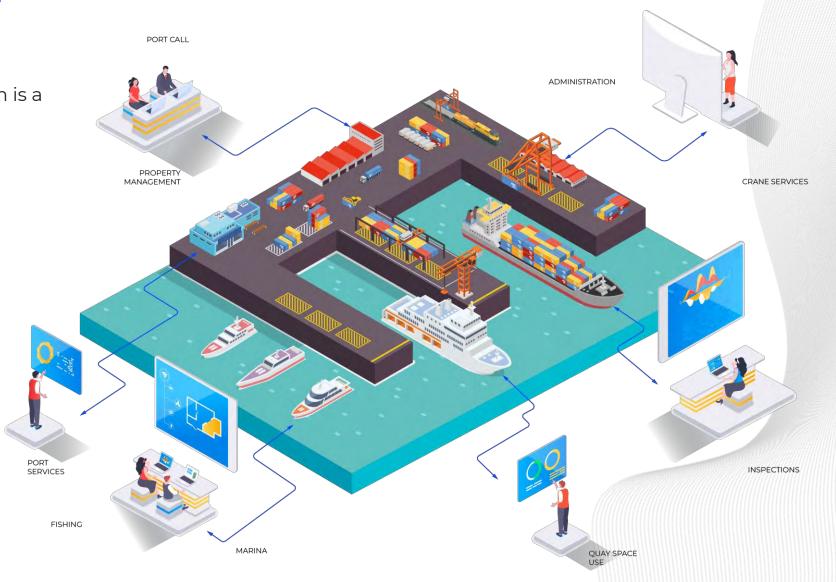
PMIS | Internal management 01 - Port Management Information System -Digitalise and optimise all administrative tasks related to your port. PCS | Efficient exchange of information 02 - Port Community System -It provides a secure and efficient exchange platform for smooth trading. **Operations | Interoperability** 03 Achieve operational efficiencies through a single source of truth for all stakeholders. Smart Port | Discover the 4.0 benefits 04 Measure results, analyse data, and make decisions based on real events.



Port Management Information System – PMIS –

A Port Management Information System is a software designed to cover all the management needs of Port Authorities.

- Port Calls
- Port Operations
- Nautical-technical services
- Resources
- Inspections
- Public domain
- Invoicing
- Miscellaneous services



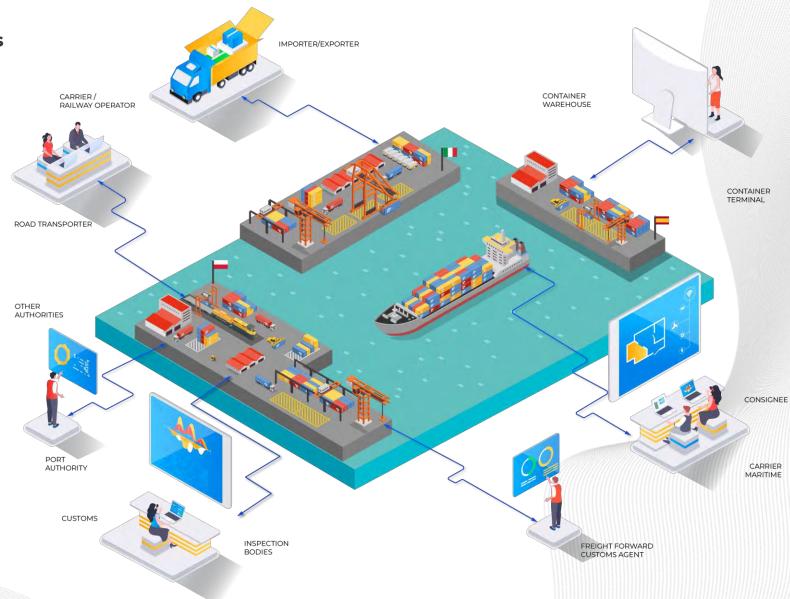


Port Community System – PCS – & Maritime Single Window – MSW –

Posidonia PCS (Port Community System) is a digital platform for the exchange of documents specially developed so that the port community can work in an agile and safe manner.

In this way, the public and private entities involved in port activity see their competitiveness improved, as they optimise, manage and automate all the processes of delivering information in the logistics chain on a single platform.

Other modules (rail, truck rendezvous, IMDG, gatepass...) make it possible to offer greater added value and improve the service to the port community.







Port Operations System - POMS -

An Integrated Port Operations
Management System to optimise
all operational maritime
activities related to the different
phases of ship traffic in the port,
integrating all relevant actors and
information systems, offering a
single channel of information.

In short, it allows you to manage maritime operations from a single, secure and confidential environment.

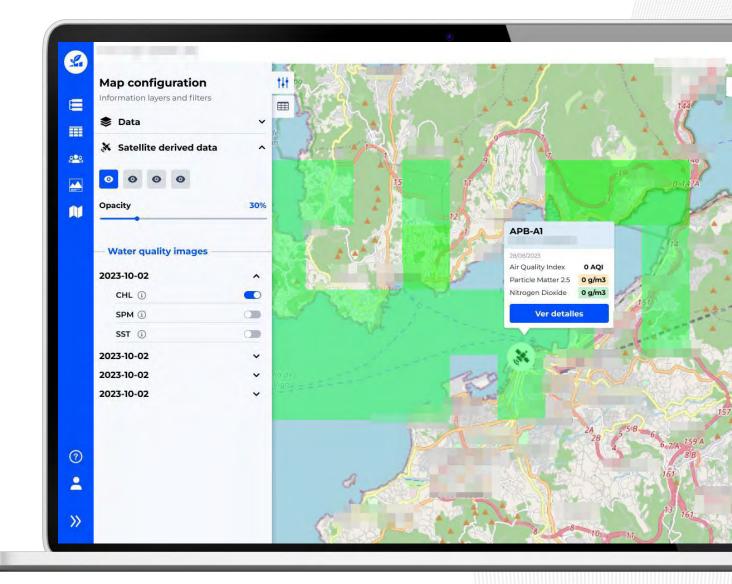






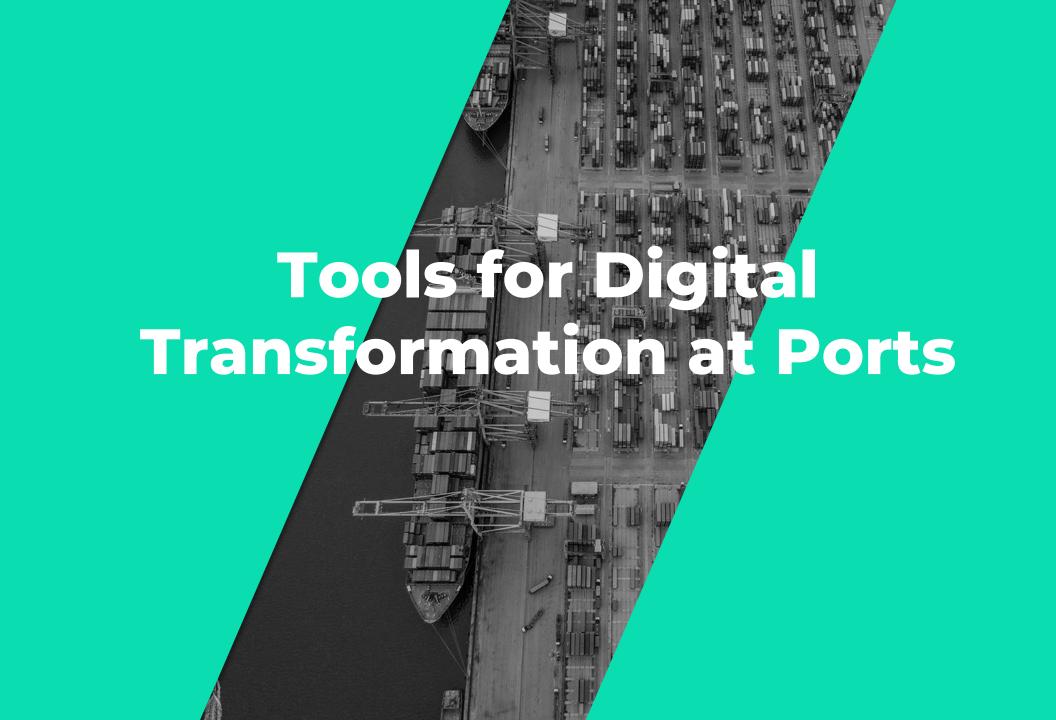
A powerful IoT platform, designed to make the Port of the Future a reality, a key step in the digitalisation of the port environment.

New technologies like IoT, blockchain, and machine learning now allow cyber-physical systems to make real-time decisions about their operations. The idea of a Smart Port, capable of delivering comprehensive services to customers, is becoming a reality through collaboration and data transparency, with safeguards to ensure trust and security.





Streamlining Ports & Terminals **Operations Through Technology**





Posidonia Management

How does Posidonia Management improve efficiency in any Port?

- 1. Port Resource Management Optimisation: Centralises and coordinates port resources, from quays to accesses and equipment, improving allocation and utilisation in the yard and reducing waiting times for carriers.
- 2. Process Automation and Tracking: Automates key operations such as dock allocation, access management, and land traffic control, enabling port agents to make data-driven decisions in real-time.
- 3. Predictive Planning and Data Analytics: Offers advanced business intelligence and predictive analytics tools, allowing you to plan activities in the Port in advance and adjust resources according to demand.





communication Administrador (PRODEVELOP S.L.) • Escalas 18/10/2023 20:20 18/10/2023 20:30 MEDITERRANEA LA NAVIERA ILLETAS JET 18/10/2023 16:10 18/10/2023 16:15 MEDITERRANEA LA NAVIERA DS R N DM TE TS PE PS Pendiente FORMENTERA 15/10/2023 00:00 15/10/2023 01:00 PRODEVELOP S.L. Rechazado I DS E H DM TE 75 PE PS Rechazada 14/10/2023 00:00 14/10/2023 01:00 PRODEVELOP S.L. 13/10/2023 00:00 13/10/2023 01:00 PRODEVELOP S.L. 12/10/2023 00:00 12/10/2023 01:00 11/10/2023 00:00 11/10/2023 01:00 PRODEVELOR ST 09/10/2023 00:00 15/10/2023 00:00 PRODEVELOP S.L. 06/10/2023 00:00 07/10/2023 00:00 05/10/2023 00:00 06/10/2023 00:00 PRODEVELOP S.L. 03/10/2023 00:00 04/10/2023 00:00 PRODEVELOP S.L. Aceptado 03/10/2023 00:00 04/10/2023 00:00 11/09/2023 15:20 11/09/2023 15:40 PRODEVELOP S.L. 03/10/2023 00:00 08/10/2023 00:00 PRODEVELOP S.L. Aceptado 01/10/2023 00:00 02/10/2023 00:00 PRODEVELOP S.L. 24/09/2023 22:00 24/09/2023 23:00 PRODEVELOP S.L. 24/09/2023 20:00 24/09/2023 21:00 PRODEVELOP S.L. 24/09/2023 17:00 24/09/2023 18:00 PRODEVELOP S.L. (e) (e) Página 2 de 19 (**) (9) 20 へ **○** 〇 〇 〇 〇 〇 〇 10/01/2024

Posidonia PCS

How does Posidonia PCS optimise the Port?

- 1. Improved Communication between Stakeholders: Facilitates the exchange of information in real-time between all port stakeholders (authorities, carriers, consignees), allowing for quick and coordinated decisions.
- 2. Paperless Operations: Automates processes and eliminates the need for physical documentation, reducing delays and simplifying the entry and exit of goods by ground.
- 3. Simple and Scalable Integration: Its modular design and compatible with international standards allows the incorporation of new flows and adapts to the needs of the port, optimising the management of resources.







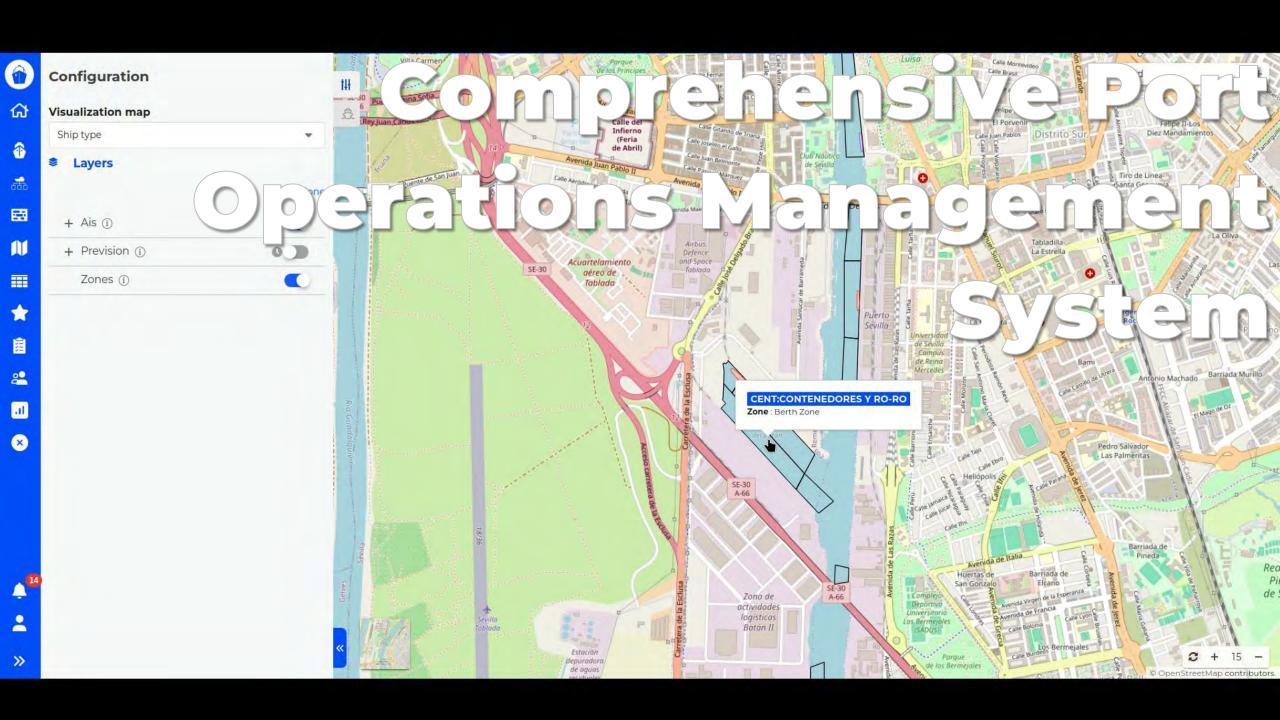


Posidonia VBS

Why set up a Vehicle Booking System?

- 1. Port Traffic Optimisation: Posidonia VBS helps to reduce congestion and truck waiting times in the port, allowing smooth and efficient traffic in the loading and unloading areas.
- 2. Improved Operational Planning: Facilitates the early organisation of ground transportation, allowing arrivals to be strategically adjusted and downtime to be minimised.
- 3. Automation of Administrative Processes: Thanks to digitalisation and real-time data integration, Posidonia VBS reduces the administrative burden, avoids unnecessary travel and speeds up appointment management.





Posidonia Operations

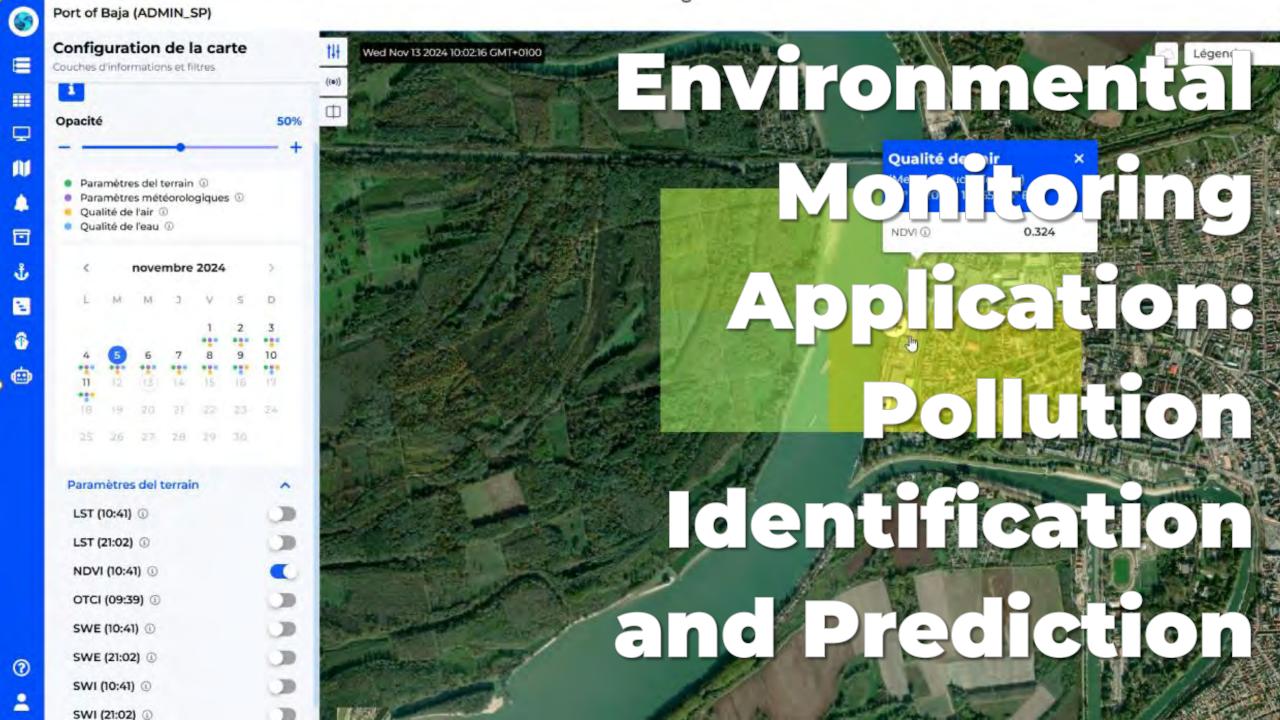
How does Posidonia Operations improve the Port operations?

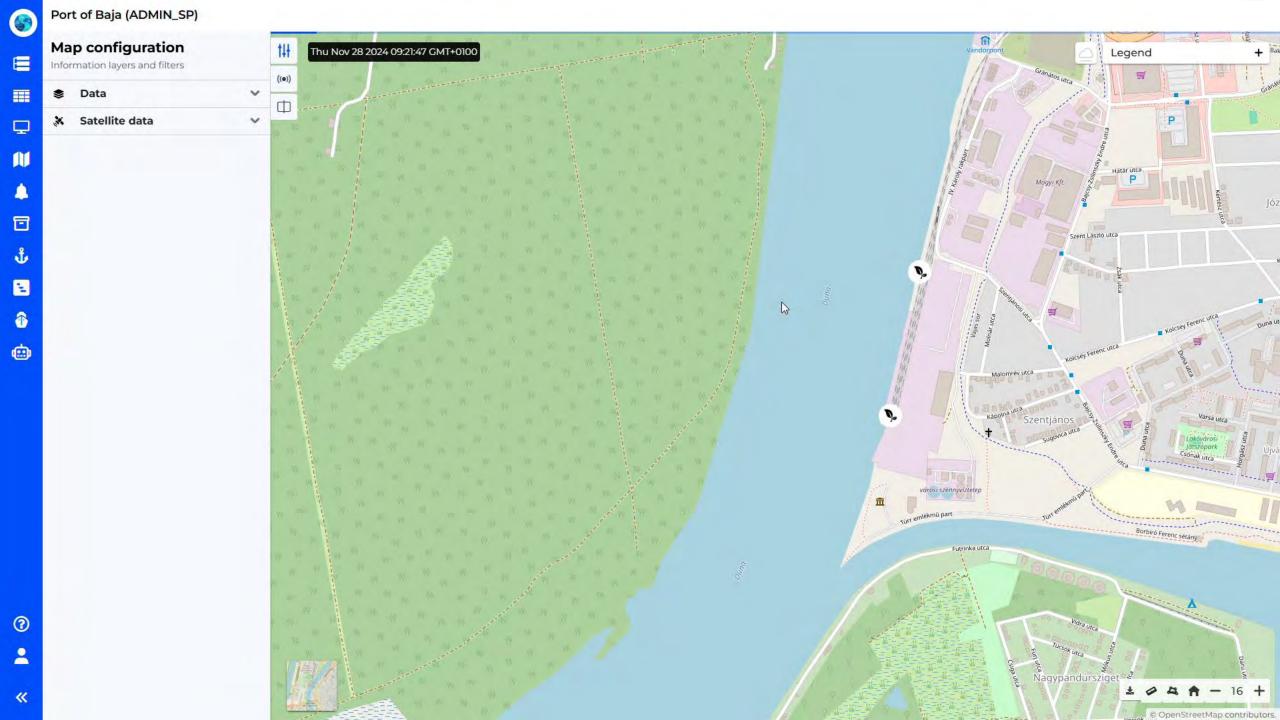
- 1. Unified and Real-Time View: Offers a complete and real-time geospatial view of all port operations, allowing for more accurate planning and better coordination of resources in the port.
- 2. Process and Resource Optimisation: Facilitates collaboration between all port stakeholders (authorities, terminals, shipping companies, carriers), improving resource allocation and decision-making to reduce waiting times and optimise the flow of goods.
- 3. Automation and Motion Control: Allows the automated management of internal entrances, exits and movements, reducing congestion and facilitating a more organised and efficient hinterland.











Posidonia Green

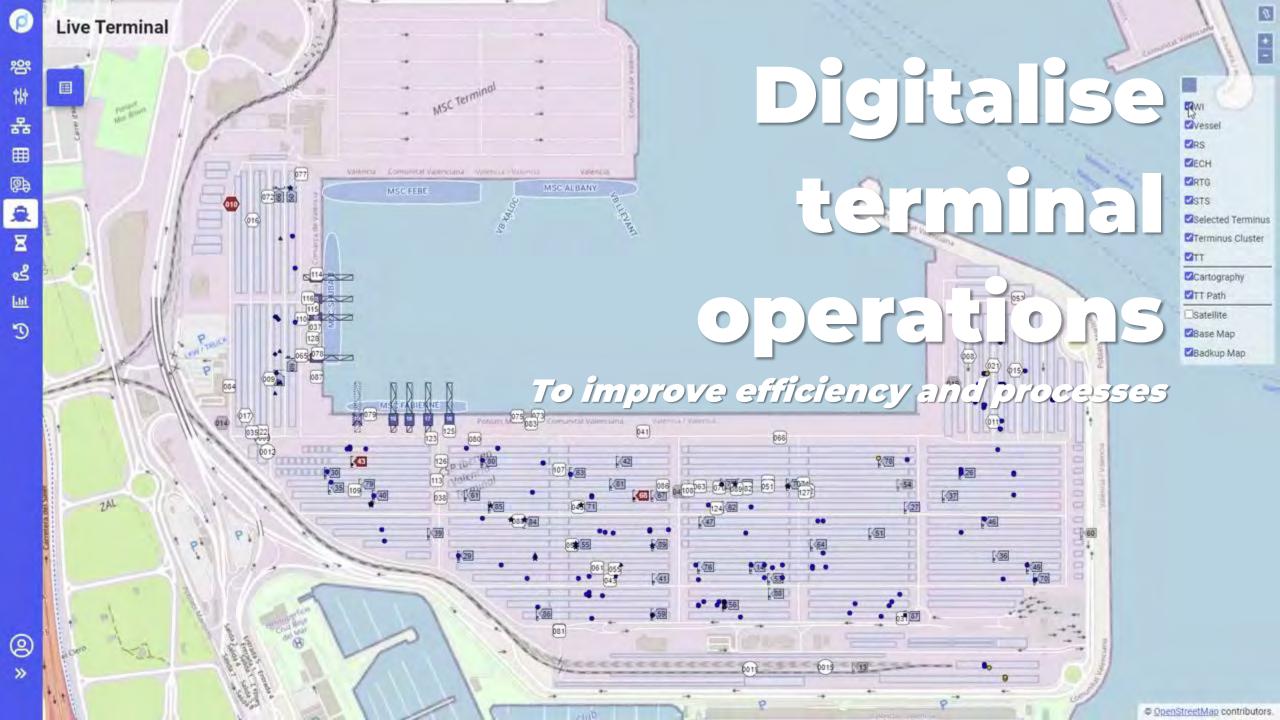
How does our app improve environmental monitoring?

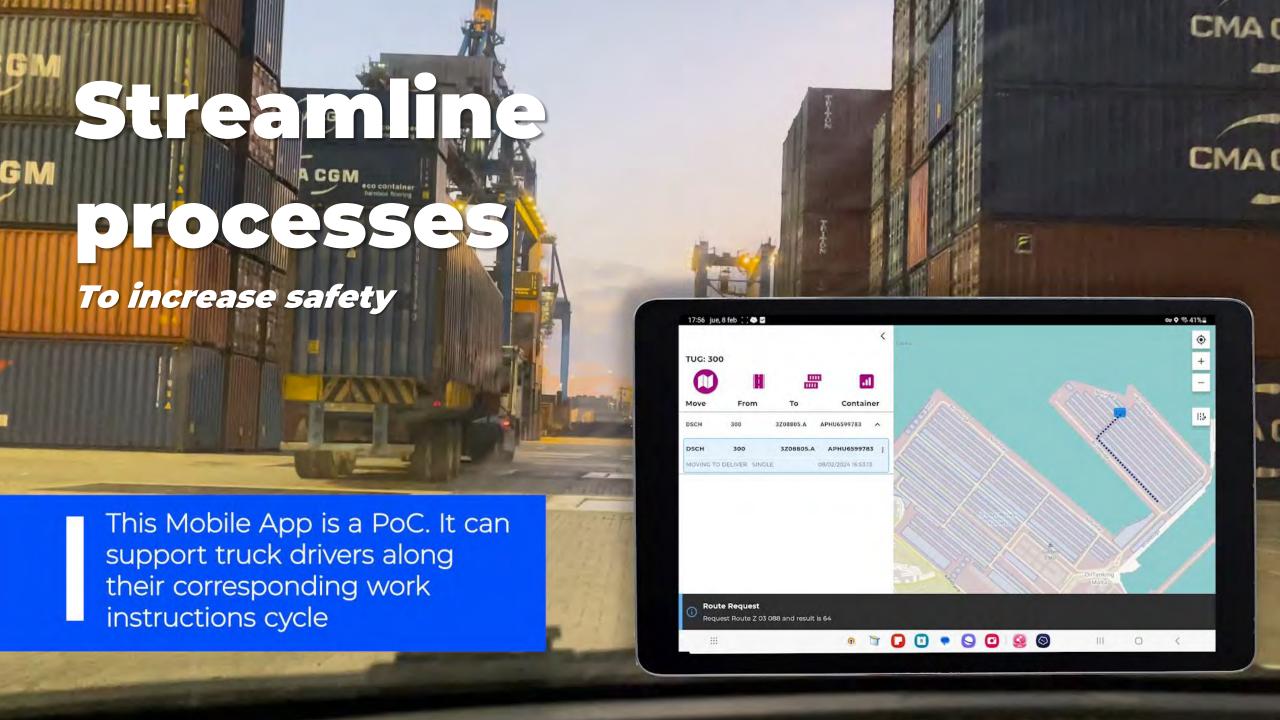
- 1. Accurate Pollution Level Analysis: Uses satellite imagery and advanced Al techniques to accurately identify pollution levels in air, water, and soil, providing a clear and detailed view of the environmental situation.
- 2. Prediction of Pollution Events: Through predictive algorithms, the app anticipates pollution events, allowing authorities and organisations to take preventive measures to mitigate negative impacts on the environment.
- 3. Real-Time Monitoring and Informed Decision-Making: Provides real-time data on the status of pollution, facilitating evidence-based decision-making to improve environmental management and optimise emergency response.











Thank you very much!



Christophe Joubert

International Ports Deputy COO



cjoubert@prodevelop.es



https://www.linkedin.com/in/christophejoubert/



