



smart ports

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As the world population continues to grow, more food, medicines, technology and goods are being shipped across the globe every day. With sea transport established as one of the safest and most popular means of transportation, maritime transport has maintained its role amongst all transport and shipping modes as the backbone of international trade and global economy.

With maritime transport being a vital component in attaining inclusive growth and sustainable socio-economic development, it was only natural that countries direct their resources to invest in making their ports more attractive and innovative in a competitive sense. And this has led maritime technology to Smart Ports: automated, sustainable, and efficient ports that use intelligent data systems and green technologies.

As a leading system integrator in the maritime transportation industry and digital transformation enabler, pulse by solutions adopts a progressive vision and employs latest technologies to lead its clients in their transformation lifecycle; from digitalizing ship operations for better-informed operational decisions, to the smart use of ICT that gives better shore-sea collaboration and the best possible business flow.

among the many benefits pulse smart ports offer:

- Automated and optimized operations
- Higher accuracy and consistent efficiency of operation
- Higher security and lower risk of workplace hazards
- Visitor and employee flow management in compliance with regulations
- Optimal use of storage yards
- Energy and cost savings

pulse smart ports offerings

hydrography

- Geographic Information System (GIS)
- Automatic Identification System (AIS)
- Environmental Monitoring (Green Port)
- Navigation Aids
- Fleet Management

port operations

- Intelligent Traffic Management and Smart Parking
- Port Information & Community Systems
- Vessel Traffic Management Systems
- Command and Operation Center
- Terminal Operating Systems (Cargo Handling)
- Smart Gates and RFID
- Smart Truck Weighing and Over-height Detection
- Visitor Management Systems
- Real Time Locating Systems
- Yards Automation
- Workforce Management and Process Automation
- Warehouse and Assets Management
- Automated Payment Reconciliations
- Fuel Management
- Archiving Systems

port infrastructure

- Data Centers
- Communication and Network Infrastructure
- Cloud Computing Solutions
- Cyber Security Solutions and Services
- Building Management System
- CCTV Surveillance and Video Analytics
- Road Blocker and Bollard Barriers
- Fire Safety Systems
- Digital Signage and Smart Poles
- Intrusion Detection and Access Control
- Smart Meters
- Smart Street Lighting and PV Solutions
- Electromechanical Systems
- On-shore Power Supply
- Vessel Smart Dock