



# NON STOP

New smart digital Operations Needed  
for a Sustainable Transition Of Ports

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## New smart digital Operations Needed for a Sustainable Transition Of Ports

**€4,7m**

50 % co-funded by European Regional Development Funds (ERDF)  
INTERREG North Sea Region Programme 2014-2020  
Eco-innovation priority.

**2019-2022**

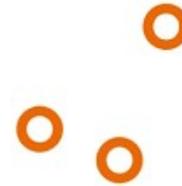
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**Interreg**  
North Sea Region  
NON-STOP

European Regional Development Fund



EUROPEAN UNION



**PORT OF ZWOLLE**



**CRESCENT**

**Niedersachsen**  
Ports



Support partner

PORTS NEED TO MEET THE NORTH SEA REGION & EU WIDER 'S DIGITALISATION TRANSFORMATION

**PORTS ARE THE IDEAL MATCHMAKER BETWEEN ALL STAKEHOLDERS IN THE PORT ECOSYSTEM**

PORTS NEED TO OVERCOME THE INEFFICIENCIES IN DATA COLLECTION / SHARING THAT FRUSTRATE EFFORTS TO FULLY UTILISE SMART SOFTWARE SOLUTIONS

NEED TO INTEGRATE PORT ADMINISTRATIVE PROCESSES AND PORT-RELATED LAND/SEA-SIDE OPERATIONS MORE EFFICIENTLY

**NEED FOR PORT ENERGY/RESOURCES EFFICIENCY & POLLUTION REDUCTION**

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## Develop and test smart management systems for port eco-innovative digitalization

### **SAFE MANAGEMENT & EFFICIENT APP**

Pilot 1: App Aqua park line

*Port of Zwolle*

Pilot 2: Safety/security management to avoid drifting of ships

*Port of Narvik*

### **SENSORS & SYSTEM INTEGRATION**

Pilot 3: Harbour integrated digitalised management system

*Port of Zwolle*

Pilot 4: Development of a Port Digital Twin

*Port of Oostende + GreenBridge + CRESCENT*

Pilot 5: Integrated sensor-based dash-board for air, light and noise information

*Port of Helsingør*

Pilot 6: Integrated water & sediment management dash-board

*NPorts – Port of Emden*

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## Design and pilot innovative technologies for sea/port/land-side smart management

### **SMART SHORE & BIO-POWER SUPPLY MANAGEMENT**

Pilot 7: Intelligent shore power system & dashboard

*Port of Korsør*

Pilot 8: Investigation & digitalisation of bio-energy facilities management

*Port of Helsingør*

### **DIGITALISED PORT AREAS VALORISATION**

Pilot 9: Port digital officer

*Port of Helsingør*

Pilot 10: Virtual platform for smart management and promotion of port areas

*BPK + NPorts*

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## **DEFINE & IMPLEMENT A GREEN DIGITALISATION PORT STRATEGY SUPPORTED BY SMART MANAGEMENT SOLUTIONS** that achieve:

- **10% reduction of the time** for a set of pre-defined logistical & maintenance port operations;
  - **8% reduction in port energy consumption** by smart digitalised management systems.
  - **2% reduction in port pollution consumption** by smart digitalised management systems.
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