



PortForward

Towards a green and
sustainable
ecosystem for the EU
Port of the Future



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PortForward: The Port of the future

Making the port of the future
smarter, greener and more
interconnected.

Investment: €4,994,311

Funding: H2020



Main Objectives



**Interconnected Port
Solutions**



Smart Port Solutions



Green Port Solutions





Interconnected Port Solutions

**Combining
different modes of
transport**

**Integrating
different
technologies**

**to better monitor
and control
freight flows**





Smart Port Solutions

Employing ICT solutions to improve information flows between ports and port communities





Green Port Solutions

Adopting green technologies to reduce the environmental impacts of port operations and save resources



5 validating
ports

1 replicating
port



The Value Proposition

AN INNOVATIVE SERVICE
PLATFORM TO CREATE AND CO-
CREATE VALUE FOR PORT
STAKEHOLDERS



The Value Proposition

A cloud-based platform



The Value Proposition

A cloud-based platform
IoT framework to ensure
interoperability



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**Innovative services customised for
each port**



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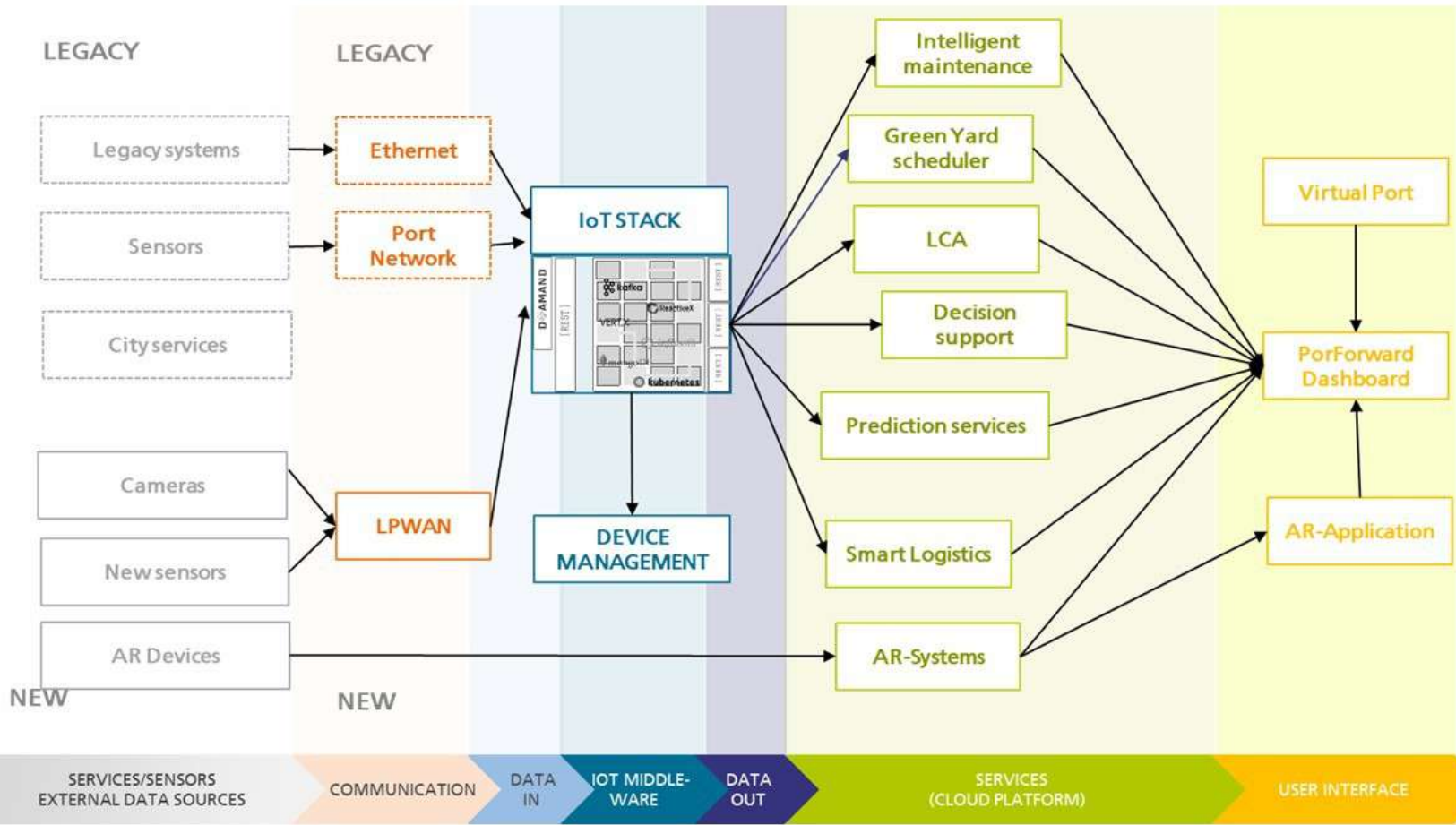
Innovative services customised for
each port

User-oriented dashboard and
decision support



The PortForward architecture

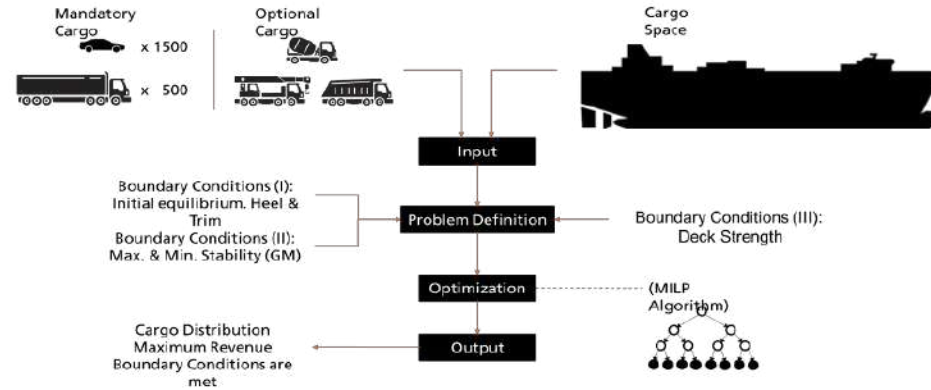




The PortForward services



RoRo Stowage Optimization



MAFIs Working Hour Optimization

Outdoor asset tracking



Ports de Balears

Autoritat Portuària de Balears



AR remote assistance

Assistance to goods control and inspection within port boundaries

Pilot Assistance to ship manoeuvring in port waters

UBiMAX
wear IT at work




*Autorità di Sistema Portuale
del Mar Tirreno Settentrionale*

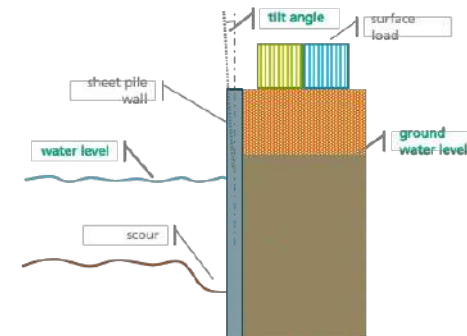
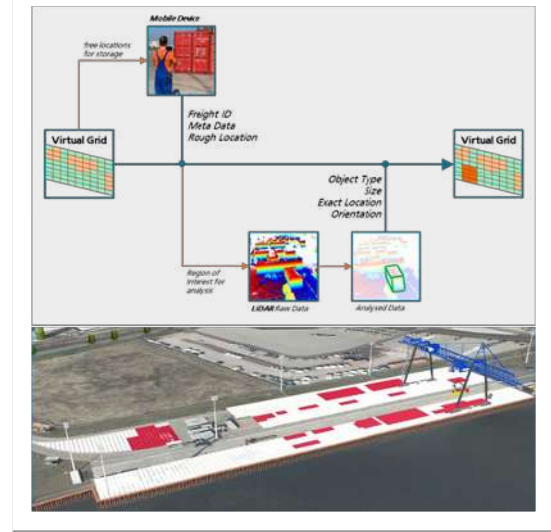


Porti di Livorno, Piombino,
Capraia Isola, Portoferraio,
Rio Marina, Cavo

Dynamic Storage Space Monitoring

Asset Tracking

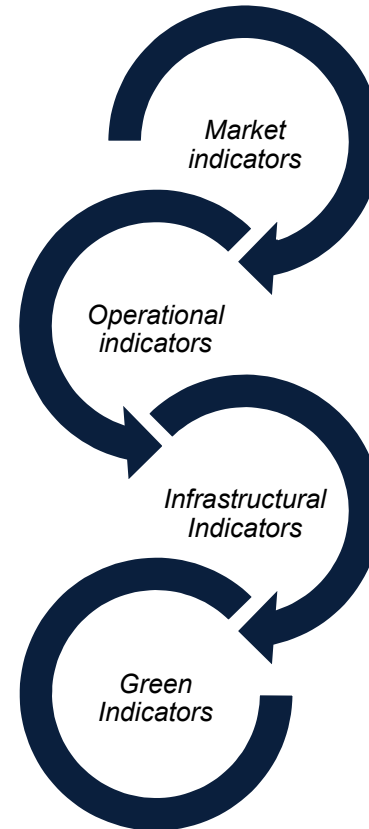
Predictive maintenance of Sheet Pile Walls (SPW)





Green Yard Scheduler

Port Authority Dashboard



Partners





PortForward

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