



An ITEA Smart industry project

I²PANEMA



Bringing the value of IoT to ports

Project summary

By bringing Internet of Things (IoT) solutions and added-value services to the world of ports, the project I²PANEMA (Intelligent IoT-based Port Artefacts Communication, Administration & Maintenance) has made their operations more efficient and sustainable across various business cases.

Winner
ITEA Award
for
Exceptional
Excellence
2023

Consortium



Project duration

October 2018 - December 2022

Key results

- > Successful implementation of 8 demonstrator use cases; examples:
 - > ‘Sustainable port activities’ (Port of Gijón, ESP)
 - > ‘RoRo Operations’ (Safi and Assan Ports, TUR)
 - > ‘Noise Reduction/Cancelling’ (Bayernhafen Nuremberg, DEU)
- > In-depth STRIDE and DREAD security analyses and subsequent mitigations performed for all use cases
- > CNA Innovation Award 2021 „Intelligence in Traffic and Logistics“ for ‘Noise Cancelling’
- > New ISO Standard 4891: Smart Applications for Ships
- > 4 new products and 2 enhancements of existing products; examples:
 - > ‘Container Localization’ integrated with VTEK’s TOS VPORT
 - > Real-time environmental indicators enhanced with predictive alarms’, Prodevelop
 - > ‘NB-IoT Service’, Turkcell
 - > Reference prototype implementation of the ‘Smart Logbook application’ according to the ISO 4891 standard, NautilusLog

Project video



<https://bit.ly/459IsH3>



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