Traffic and access management, navigation



# Maritime 5G for intelligent vessel location



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Project by:









Ports & airports

Traffic and access management, navigation





#### Solution description

The Maritime 5G solution provides precise, realtime vessel geolocation within the Port of Barcelona by integrating a 5G network, highresolution cameras, and advanced artificial intelligence algorithms.

Cameras installed across the port continuously stream live video, which the AI system analyses to pinpoint the exact position and shape of vessels, addressing limitations found in traditional RADAR and AIS systems. This robust combination ensures accurate and immediate vessel tracking, significantly enhancing port operational safety and efficiency.



#### **Benefits**

- Precise real-time tracking of vessel positions
- Reliable detection of small vessels, overcoming AIS limitations
- Reduced latency and immediate data availability through 5G connectivity
- Improved port safety and operational awareness
- Enhanced capacity to monitor multiple vessels simultaneously (over 25 at once)

Main beneficiaries:
Ports and Administration



Technology readiness level: 7 Implementation stage: *Pilot* 







## MARITIME 5G FOR INTELLIGENT VESSEL LOCATION

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### Would you like to know more? Take contact:



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