TECNOLOGIE ABILITANTI PER UN AMBIENTE PORTUALE INTELLIGENTE

TAPIN
Enabling Technologies

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PROJECT DURATION: JUNE 2024 – DECEMBER 2025.
KEYWORDS: SMART PORTS, REAL-TIME ENVIRONMENTAL MONITORING, AI AND MACHINE LEARNING.

PROJECT SUMMARY: The project aims at developing an integrated and forward-thinking system that harnesses smart technologies to enhance operations, safety, and environmental sustainability within busy port environments – whether commercial, industrial, or tourist.
By combining advanced computer vision techniques with intelligent data management, the system monitors and analyzes the movement of vehicles and people to identify bottlenecks, safety breaches, and potential risks. At the same time, it collects and processes large volumes of data from multiple sources – such as sensors measuring air quality, pollutants, particulate matter, acoustic comfort, and weather conditions – to provide a detailed overview of port activities, traffic flows, and environmental factors. The ultimate goal is to ensure a safer, more efficient, and healthier environment for both workers and visitors, keeping a strong focus on privacy and data security.
The developed system is tested in the port of Reggio Calabria, thanks to the support of the port authorities (Autorità di Sistema Portuale dello Stretto e Direzione Marittima di Reggio Calabria).

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