

SEAPORTS

Comply with regulations and minimize
impact on workers and communities

Challenges

Ensuring compliance with regulations

Real-time and continuous monitoring of emissions

Reducing gas, odor and noise emissions

Prevention of local complaints

Solution



Network of connected devices able to characterize in real time harmful gases, particles, odors and noise emissions

Creation of unique signatures for each ship by combining types and levels of gases, odors and particles

Impact monitoring of harmful emissions on locals and workers

Benefits



✓ Tracking of boats, entering and leaving the docks

Control of the extinction of engines at dock entry

✓ Comply with regulations thanks to real-time data collection

✓ Minimize the impact of port traffic on close residents and workers

Context

When entering harbors, boats need to comply with regulations related to air pollution and noise, which represent potential sources of nuisance for employees and locals

Challenge

Harbors face a double challenge: ensuring compliance with regulations (e.g. turning off engines when entering the port) and minimizing the direct impact on close neighborhoods due to air pollution (gases from chimneys, particles), odor emissions and noise. That's why, having access to continuous and real-time environmental data is required to determine which ships are complying or not with the regulations

Solution

A network of WT1 able to characterize in real-time compounds present in the air and to monitor the impact of emissions on the local population as well as the noise associated with the seaport's activity. Unique signatures are then created for each ship by combining types and levels of gases, odors and particles

Impact

By analyzing compounds in the air and creating these unique signatures, you ensure the traceability of boats entering and leaving harbors as well as the engines' extinction. It also facilitates dockers to effectively comply with regulations by using real-time data while minimizing the impact of port traffic on residents and workers



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