Port of Livorno – Transportation Case Story

Port of Livorno anchors safety with efficient operations steered by scalable, customizable video tech

The Port of Livorno is the largest seaport in the Mediterranean Sea, with annual traffic capacity of around 30 million tons of cargo. The port is an important employer, with more than 15,000 employees who provide services to more than 7,000 ships every year.

The vast harbor is divided into an Old Port and New Port, composed of four main basins. The Port of Livorno is capable of handling all kinds of vessels: crane or driven cargo, liquid or dry bulk, cruise ships or ferryboats. Dedicated terminals handle frozen foods, copper and non-ferrous metals, bentonite, grains, automobiles, natural gas, timber, cellulose, paper, sand, clay and coal.

The Northern Tyrrhenian Sea Port System Authority has been managing these activities with Milestone video management software since 2017.

Customer
Port of Livorno

Milestone products
XProtect® Corporate VMS
XProtect® Smart Wall

Integrations
License Plate Recognition LPR
container recognition
facial recognition
environmental sensors

Location
Livorno, Italy

Camera count
200 mixed brands
optical and thermal

Partner
n/a

CHALLENGE:
High volume and variety of people and goods

Modern port infrastructures are delicate and critical, always requiring extensive monitoring to ensure that all operations are carried out safely and with absolute efficiency. The Port of Livorno handles thousands of vessels every year. In such a dynamic, fluctuating environment, being able to constantly monitor the entry and exit points of the port is truly essential.

Synchronizing this flow of goods and people requires strict attention from the operators. This focus is significantly enhanced when they can remotely monitor every single moment of activity within the port - a fundamental function for both port security and the safety of people.

Fast response to climate events and pollution for clear sailing

"In recent years, we've witnessed the evolution of weather events, which bring debris into the ports through the river networks. The real-time monitoring system of watercourse inflows to the ports allows us to keep the basins clear, clean, and highly efficient at all times."

- Matteo Paroli, Secretary General, Northern Tyrrhenian Sea Port System Authority

SOLUTION:
Real-time video supports authorities in the ports

"Our ports are monitored 24/7 with the video surveillance. Nothing that passes through our gates goes unnoticed, benefiting both the end consumer and the overall efficiency of the goods transfer system. This also provides great support for the activities carried out by other authorities, particularly law enforcement and the Customs Agency."
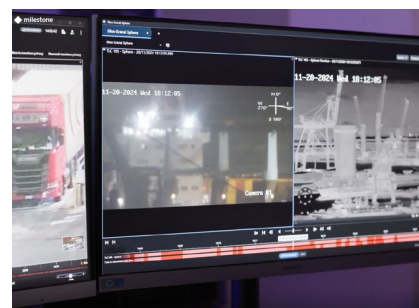- Matteo Paroli, Secretary General, Northern Tyrrhenian Sea Port System Authority

At the Port of Livorno, security is ensured by 200 network video cameras monitoring the water areas, docks, and sensitive zones. Both optical and thermal devices assist with this vital function.

The video data is managed by Milestone XProtect software, which has an open architecture design for integrating all the system components into one efficient, unified platform. Milestone's XProtect Smart Wall provides an efficient, centralized overview of the ports' activities.

"Any sources of pollution from hydrocarbons or other biological substances can be immediately detected using the thermal spectrum of our cameras. This not only enables a rapid response for removal but also helps us to trace the responsible party for the pollution source."

Tommaso Chiavistelli,
Security, Environment and Dredging Directorate, Northern Tyrrhenian Sea Port System Authority

OUTCOMES:
Physical security, environment monitoring, and cargo management coexist

When we started in 2017, we didn't know what our needs would be today, and looking ahead to the next ten years, we don't know what we will require. It is strategic for us that Milestone has always been by our side, allowing us to grow step by step, together."
- Tommaso Chiavistelli, Security, Environment, and Dredging Directorate at the Northern Tyrrhenian Sea Port System Authority

"In a complex system like a port, the needs for physical security, environmental monitoring, and cargo management coexist. We chose Milestone precisely because it does not tie us to a specific product ecosystem, which gives us the freedom to select the best technological solutions available in the market. We can quickly adapt to changes without having to modify the existing infrastructure."
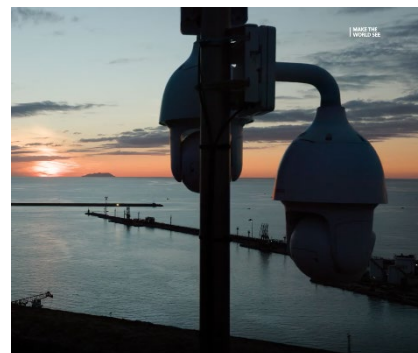- Dario Del Giovane, Security, Environment and Dredging Directorate for the Northern Tyrrhenian Sea Port System Authority

Securing the ports and video data by regulations

Regarding cybersecurity, data and infrastructure protection are ensured by high-security standards, such as multi-factor authentication and advanced encryption. This enables the ports to safeguard the sensitivity of their data, especially in light of new regulatory requirements.

"Milestone is an ideal partner, enabling us to integrate these technologies into our existing infrastructure. The VMS platform provides us with a solid foundation on which to build the future, ensuring security, flexibility, and continuous innovation."
- Dario Del Giovane, Security, Environment, and Dredging Directorate at the Northern Tyrrhenian Sea Port System Authority

"We are working to transform the port into an increasingly smart and secure hub, implementing new technologies based on artificial intelligence, such as automatic license plate and container recognition, facial recognition, and advanced environmental monitoring systems."

- Dario Del Giovane, Security, Environment, and Dredging Directorate at the Northern Tyrrhenian Sea Port System Authority

Recognize the challenges?

Do you also need to see what is happening on your premises, so you can respond in time?

Get in touch with us at milestonesys.com/book-a-demo/ and let's talk about what type of solution is right for you.