telegrafia®

Mass warning systems for ports

Vagaries of the weather

Leakage of harmful substances

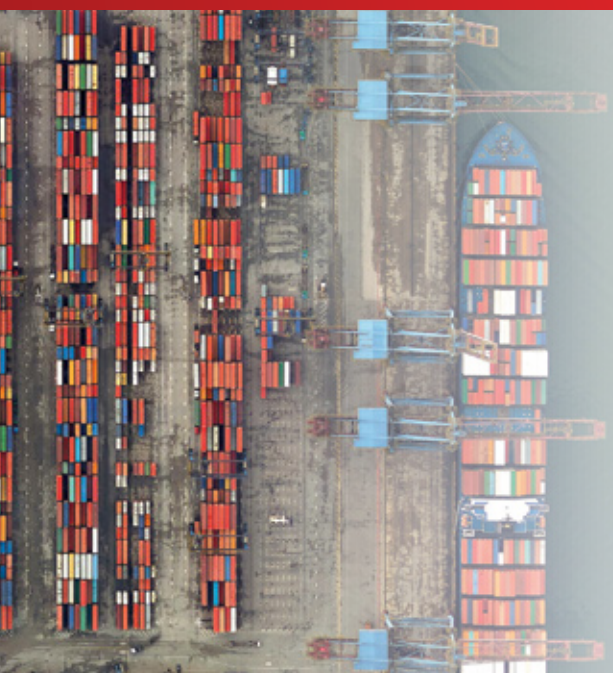
Fires and explosions

Terrorist attacks

Warning System
Medium

Acoustic Coverage
Exterior

Mayday Mayday Mayday!
The Tower Is Calling Telegrafia!



All major commercial ports are typical of **a high concentration of people**. This fact, when combined with many **process-related, technological** (leakage of harmful substances, chemical pollution, fires, and explosions), **natural** (storms, strong winds, tornadoes, or tsunamis), **and terrorist threats**, makes ports quite risky locations that require the use of state-of-the-art technology and reliable safety and security systems.

Description of the solution of a mass warning system in a port

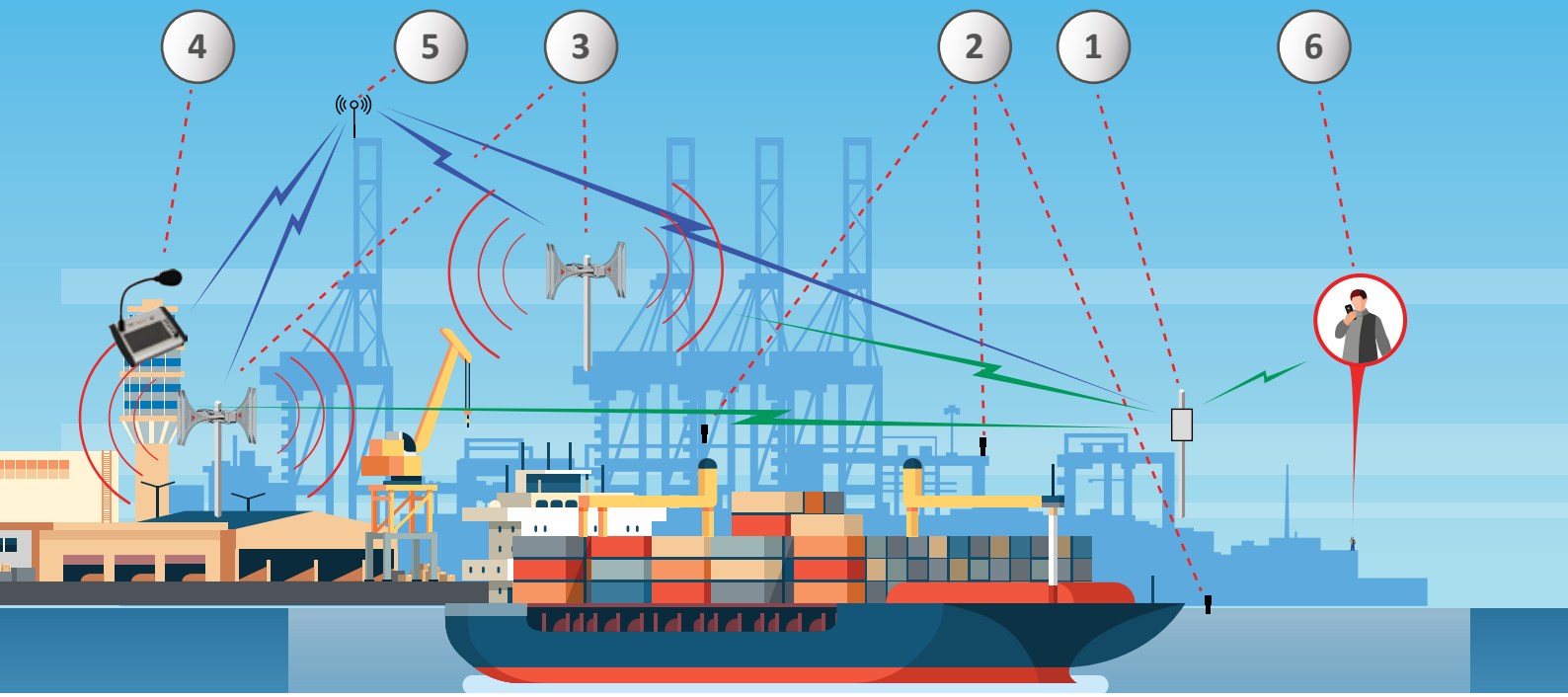
A **powerful mass warning and notification system** designed for ports and offered by the Telegrafia company usually consists of **one to ten sirens**, depending on the size of the port, and an autonomous a nd highly automated monitoring system. A comprehensive and intuitive control system is provided by the **Vektra® software applications (such as SCADA, Warning, and Notification)**.

- The unmanned **monitoring system** continuously monitors and evaluates various variables, such as wind speed or the presence of hazardous substances.
- The **acoustic warning system** covers the port and its surroundings with a warning signal and serves:
    - for mass public warning and evacuation in case of danger,
    - for reporting emergencies (accidents, fires, tsunamis, and earthquakes).
- The **notification system** promptly informs the responsible persons in the form of a voice or text message of the occurrence of an emergency. It saves valuable time for making the necessary decisions.

The port warning and notification system solution is designed to comply with the most stringent current standards set for its reliability and robustness, helping to meet all modern safety and security requirements of the 21st century.

Advantages of Telegrafia's solution

- Independent **coverage of the entire port area** with a powerful acoustic warning sound
- **Sound coverage** of the port and its surroundings **even in its noisy zones**
- **Live-voice announcements** directly from a microphone or an external source
- **Playback of pre-recorded audio messages** from the device digital memory or external sources (radio, telephone)
- **Automatic self-testing of the system** with no need for staff assistance
- Complete "**silent" functionality tests** of the sirens without spreading general panic in the port
- **Safe power supply** from maintenance-free batteries, supplemented with optional solar panels
- **Connection possibilities to third-party systems**



1 EMA Compact monitoring station

The station measures the monitored values continuously, or regularly at specific intervals, and evaluates the potential risks. If any threshold values are detected, it sends the values to the warning control centre, mobile phones, or directly activates electronic sirens or beacons.

2 Specialised sensors

These are used for monitoring various parameters (water levels, weather conditions, air pollutants, and others).

3 Electronic sirens

The electronic sirens cover a large area with an acoustic signal. They remain well-audible and intelligible even when reproducing the spoken word. Each siren can be activated individually or as part of a group and controlled locally or from the control centre.

4 The control centre

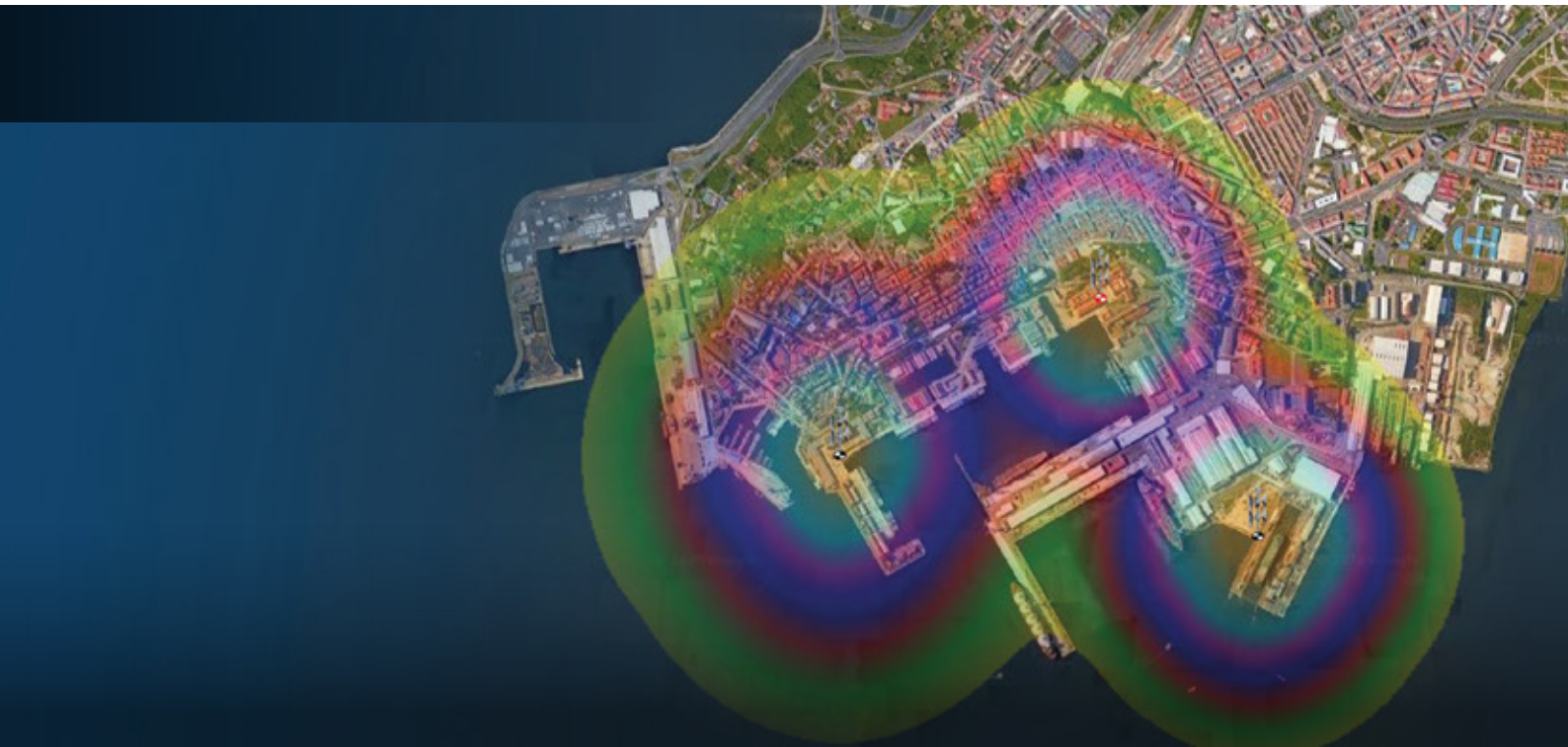
The control centre, equipped with the **OCP16 Control panel** or **Vektra®** software applications, automatically activates warning and notification in case of an emergency. The entire technology is **perfectly safe and fully backed up.**

5 Communications infrastructure

- It ensures communications between the control centre and other elements of the port warning system
- It allows the integration of the port early warning system into any superior warning system.

6 Notification of the responsible persons, who are:

- immediately informed of any emergency by telephone or SMS message,
- summoned to work and rescue operations.



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