Project

NanoMonitor is a three year EU Life+ project that runs from January 2016 to December 2018. It has a budget of about €1.1 million

Objectives

Development of an on-line information system consisting of two elements:

- A software application to support the acquisition, management and processing of data on the concentration of ENMs
- A new low cost monitoring station prototype to support the outdoor and indoor monitoring of airborne nano-pollutants.

Development of standard operating procedures to collect and analyse ENMs in complex industrial, urban and natural environments

Support the monitoring of REACH compliance and its impact on risk mitigation and prevention

Project Partners

ITENE

CEAM

the REACH CENTRE

AEON

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nanoMONITOR

Development of a real-time information and monitoring system to support the risk assessment of nanomaterials under REACH.

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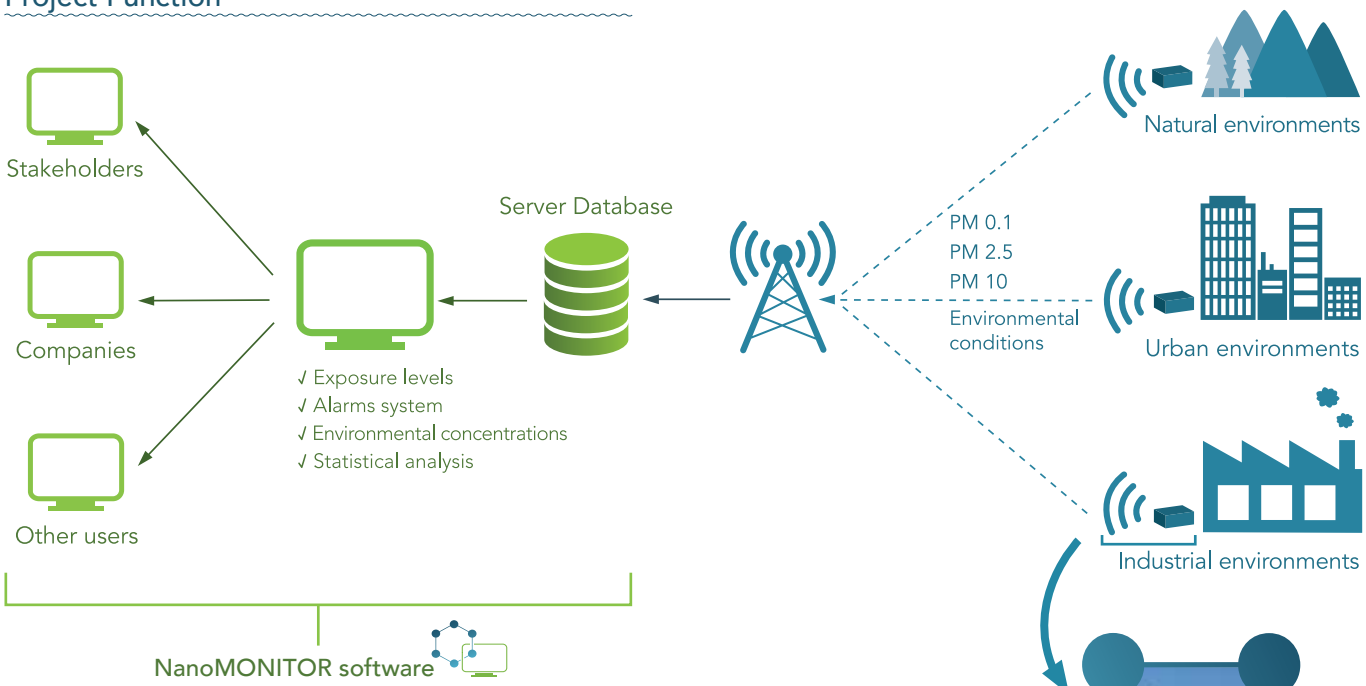
Project Function



Overview

Whilst a growing number of ENMs are already available on the market, there is still an on-going debate about their potential effects on human health and the environment.

Within the EU REACH Regulation, a chemical safety assessment report, including risk characterisation ratio (RCR), must be provided for any registered ENMs. NanoMonitor supports these requirements and the compliance with REACH concerning the occupational and environmental risk assessment process, chemical safety assessment process, control of the environmental release by manufacturers and downstream users and contributes to ensure a high level of protection of the environment and human health under REACH.

NanoMonitor adds to increased consumer acceptance of ENMs and nano-enabled products.

Approach

By developing a real-time information and monitoring system NanoMonitor supports the risk assessment of nanomaterials under REACH. This will help to improve the use of environmental monitoring data to support the implementation of REACH regulation and promote the protection of human health and the environment when dealing with engineered nanomaterials (ENMs).

Preparatory stage:

Selection of ENMs, information and data quality requirements according to REACH and geographical coverage, sampling locations and frequency.

Implementation stage:

Development of a real-time information and monitoring system including a web-based application and the design and implementation of an autonomous monitoring station prototype.

- 4 companies and 4 strategic location in the existing air quality monitoring network of the Valencian Community
- Satellite monitoring station to be used upon request by any interested stakeholder

Outcomes:

- Software application
- Database
- Monitoring station prototype
- Case studies
- Standardised protocols and specific guidance
- Webinars, workshops and informative material