nanoMONITOR

Newsletter – July 2016

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

www.lifenanomonitor.eu

The newly started European Commission LIFE project NanoMONITOR addresses the challenges of supporting the risk assessment of nanomaterials under REACH by development of a real-time information and monitoring system.

Despite the growing number of engineered nanomaterials (ENMs) already available on the market and in contract to their benefits the use, production, and disposal of ENMs raises concerns about their environmental impact.

Within this context, the overall aim of LIFE NanoMONITOR is 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 ENMs. Within the EU REACH Regulation, a chemical safety assessment report, including risk characterisation ratio (RCR), must be provided for any registered ENMs.

Next Events

09/04/2016

Nanosafety Cluster Meeting Stockholm

Stockholm, Sweden

Relevant News

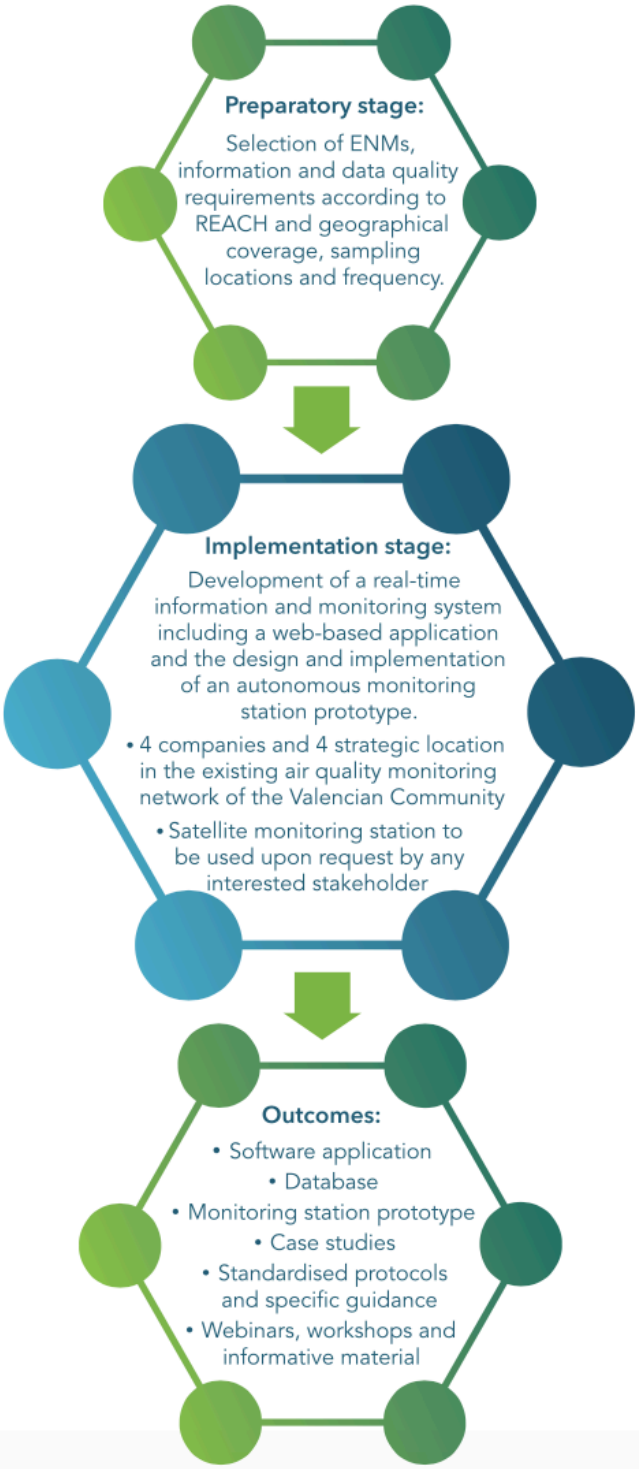
NanoMONITOR kickoff meeting was held on held on the 19th January 2016 in Valencia (Spain) on which participants discussed the first steps of the development of the information and monitoring system to support the risk assessment of ENMs.

The 2nd partners' meeting of the project took place on 14-15 June 2016 in Athens, Greece on which the participants discussed the progress so far, next steps and also presented the project to the external monitoring team.

This project is part funded by the European Commission Life+ with grant agreement LIFE14 ENV/ES/000662

In order to address these objectives, the project partners have developed a rigorous methodology encompassing the following aims:

- ✓ Develop a novel software application to support the acquisition, management and processing of data on the concentration of ENMs.
- ✓ Develop an on-line environmental monitoring database (EMD) to support the sharing of information.
- ✓ Design and develop a proven monitoring station prototype for continuous monitoring of particles below 100 nm in air (PM0.1).
- ✓ Design and develop standardized sampling and data analysis procedures to ensure the quality, comparability and reliability of the monitoring data used for risk assessment.
- ✓ Support the calculation of the predicted environmental concentration (PEC) of ENMs in the context of REACH.



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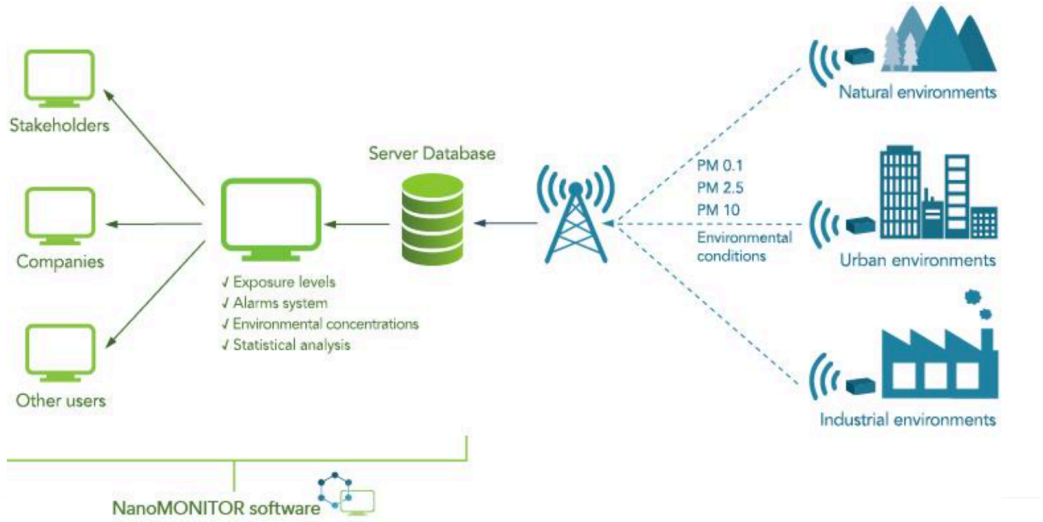
APPROACH

NanoMONITOR develops an innovative system to monitor the concentration of ENMs in indoor workplaces and the environment. The system is based on the development of an online data analysis tool for collecting and archiving data on the environmental concentration of ENMs, coupled with a newly developed prototype and low cost nano-pollution monitoring system able to continuously measure key airborne nano-pollutants.



EXPECTED RESULTS

1. **Develop standard operating procedures** (SOPs) to analyze ENMs in complex industrial, urban and natural environments
2. Develop an online information system consisting of two integrated elements:
   - ✓ **New low cost monitoring station prototype** for the measure of indoor and outdoor concentrations of ENMs
   - ✓ **Software application** to store, exchange and manage data on the concentration of ENMs.
3. Support the monitoring of REACH compliance and its impact on risk mitigation and prevention.

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TAKE A SURVEY ON RISK MANAGEMENT MEASURES

Take a survey on risk management measures and conditions of operations for handling engineered nanomaterials.

This short survey will support us to identify relevant engineered nanomaterials related to criteria such as exposure routes, release factors and the forms in which engineered nanomaterials are placed on the market.

Take our Survey >>

Project Partners:

ITENE (Packaging, Transport & Logistics Research Centre), Spain

AXON Enviro-Group Ltd., Greece

The Mediterranean Center for Environmental Studies (CEAM), Spain

The REACH Centre, UK

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