



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

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The first reporting period for NanoMONITOR project shows great advancement towards achieving its objectives.

ABOUT THE PROJECT

The 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. The project status was reviewed in May 2017 showing a great success towards achieving its objectives.

NANOMONITOR WEBPORTAL DEVELOPMENTS

Working versions of the NanoMONITOR Web Portal and the Administration Web console were launched and made publicly available at the beginning of the year. The NanoMONITOR Web Portal is an infrastructure, accessible over the Web, making available processed and/or raw data from the various data sources, including data transmitted by the network of monitoring stations

Next Events

24/10/2017

Safe Nanotechnology – Risk management, exposure and regulatory challenges

Lancaster, UK

Relevant News

Latest advances of the project will be presented during the high impact events

- 14th International Conference on Nanosciences and Nanotechnologies and the 7th NANOTECHNOLOGY EXPO" to be held on 3-7 July 2017 in Thessaloniki, Greece.
- 12th International Conference on the Environmental Effects of Nanoparticles and Nanomaterials (ICEENN 2017) to be held on 3-6 September in Birmingham, United Kingdom.



in operation or/and uploaded by the companies or researchers interested in providing measured data on the concentration of ENMs using our portal.

The demo version of the Web Portal has been presented and discussed during the consortium project meeting in Athens in October 2016 and during the 1st NanoMONITOR Stakeholders' Day, held on 4 April in Valencia, Spain. Based on the discussions and the feedback received from relevant stakeholders additional features will be added to the platform to ensure its user-friendliness and to meet its intended users' requirements:

- ✓ An additional "Risk" statistical module will be added as an extended part of the modelling elaboration.
- ✓ An offline manual data import functionality will be developed.
- ✓ Stations will have an additional unique value along with latitude and longitude, the altitude.
- ✓ In Home screen for public users, units of the PN values will be displayed.
- ✓ A help manual in English will be developed.
- ✓ The Web Portal will be enhanced to provide additional user data such as: visitors counter, visitors per country counter, usage statistics, feedback form.

NANOMINITOR MONITORING STATION DEVELOPMENTS

The NanoMONITOR monitoring station is currently being assembled. The external company RAMEN, Spanish SME dedicated to the design, development and supply of turnkey solutions and prototyping for Science Industry and Scientific developments for applications was selected to support the consortium in the development of the monitoring station.

The monitoring station components have been carefully selected by expertise staff from CEAM and ITENE to cover the functionalities defined in the preparatory actions after the consultation with stakeholders.



The first of five monitoring stations will be launched next September 2017, being installed in the Technological Park of Valencia located in Paterna (Valencia). This first station will be tested by members of CEAM and ITENE to ensure operability, and in particular, to guarantee the accuracy and robustness of the data measured by the station.

DISSEMINATION ACTIVITIES

The results of the project have been presented in three relevant events, including:

- NanOEH “8th International Symposium on Nanotechnology, Occupational and Environmental Health” conference held in Elsinore (Denmark) in June 2017.
- NanoAPP 2017 “3rd International Conference on Nanomaterials and applications” conference held in Bled (Slovenia) in June 2017.
- The project coordinator, Carlos Fito, presented the concept, objectives and expected results of the project during the final event of the PhotoCitytex project held at Quart de Poblet in Valencia, Spain in June 2017.



NETWORKING

Member of the NanoMONITOR consortium visited the Institute of Materials Science (ICMS) located in Seville on 22 and 23 June to measure the potential levels of exposure to nanomaterials, their aggregates and agglomerates (NOAA) during research and development activities.



UPCOMING EVENTS

NanoMONITOR is organizing its Second Stakeholders' Day: Safe Nanotechnology – Risk management, exposure and regulatory challenges in Lancaster, UK on 24 October 2017.

Workshop background: Exposure to both naturally occurring and anthropomorphic particulates affects everyone, with some exposures linked to serious health hazards in both humans and the environment. As the uses of ENMs increase in both volume and breadth, it is important to have the technology available to measure exposure to nanomaterials in the workplace and the environment. These will allow the identification and tracking of emerging risks, support the development of robust exposure modelling tools and allow users to prove compliance with regulatory obligations. It is the goal of the NanoMONITOR project to develop a robust sampling and analysing station that will allow the real-time measurement of nanomaterials. NanoMONITOR provides scientific based solutions to support the risk assessment of nanomaterials on a regulatory basis, including

critical issues such as environmental, occupational and consumer exposure to ENMs, environmental release and fate in the life cycle and product value chains, and human health impacts of ENMs.

The workshop will introduce the exposure and risks arising from exposure to particulates including nanomaterials. It will then discuss the current status of the NanoMONITOR project allowing delegates to have the opportunity to test and provide feed-back on the prototype and the data acquisition software. Finally, attendees will learn about the latest regulatory developments affecting nanomaterials in the EU and worldwide, including guidance the best tools available to meet these obligations.

Attendance to the workshop is **free of charge**. Due to space limitations registration will be on a first-come, first-served basis. Hurry up and save your seat [here!](#)

Safe Nanotechnology – Risk management, exposure and regulatory challenges

24 October 2017
Lancaster, UK



For more information about the workshop go please visit:

www.lifenanomonitor.eu/en/events/safe-nanotechnology-risk-management-exposure-and-regulatory-challenges/



Project Partners:

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

AXON Enviro-Group Ltd., Greece

The Mediterranean Center for Environmental Studies (CEAM),
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The REACH Centre, UK



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