nanoMONITOR

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

Objectives:

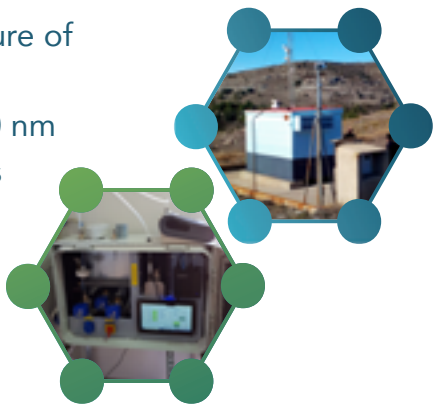
By developing a **real-time information and monitoring system** NanoMONITOR supports the risk assessment of nanomaterials under the REACH regulation with the aim of:

- improving the use of environmental monitoring data to support the implementation of REACH
- promoting the protection of human health and the environment when dealing with engineered nanomaterials (ENMS).

Results:

1. Standard operating procedures to collect and analyse ENMs in complex industrial, urban and natural environments.

2. New low cost monitoring station prototypes for the measure of indoor and outdoor concentrations of ENMs
   - detection of particles ranging in size from 10 to about 700 nm
   - geolocated real-time information on ENMs concentrations
   - integrated plug and play solution designed for long term sampling and monitoring ENMs concentration
   - remotely configurable settings, readings and transmission periods
   - minimum maintenance requirements.



3. A software application to store, exchange and manage data on the concentration of ENMs featuring:
   - multiple exporting data formats
   - real time multiparametric graphical information
   - access from smartphone and tablets
   - high resolution maps
   - easy data management option, including data storage, comparative analysis and modelling.

Project Partners

ITENE, CEAM, AEON, yordas Group

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