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

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## **Objectives:**

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

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

## **Expected Results:**

Preparatory stage:
Selection of ENMs,
formation and data quality
requirements according to

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



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



- Software application
   Database
- Monitoring station prototype
   Case studies
- Standardised protocols
- and specific guidance

   Webinars, workshops and informative material

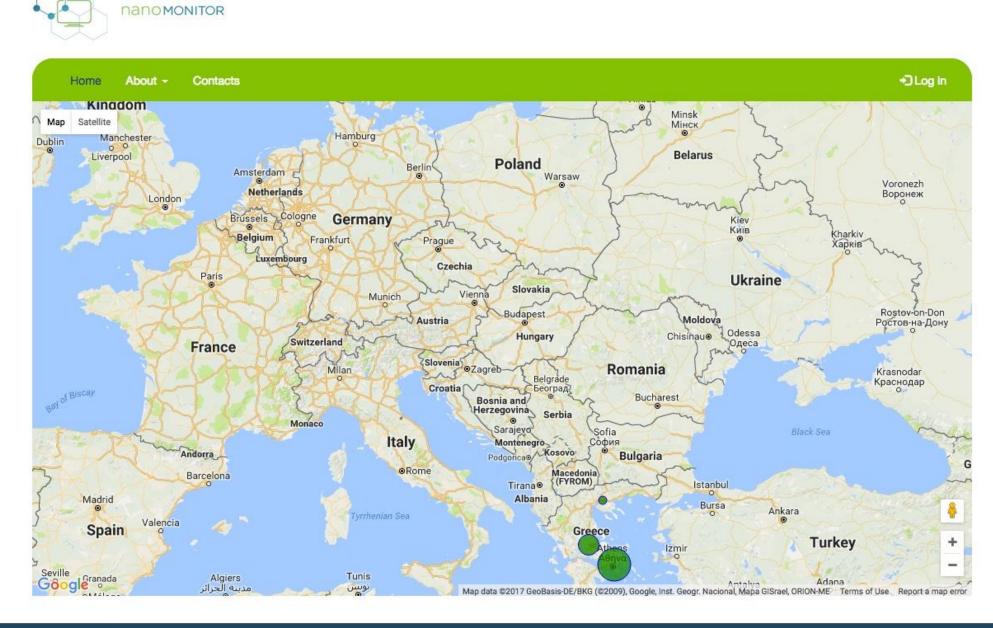
standard operating procedures to collect and analyze ENMs in complex industrial, urban and natural environments

new low cost moitoring station propototype 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 transmissions periods
- minimum maintenance requirements

a software application to store, exchange and manage data on the concentration of ENMs

- 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.

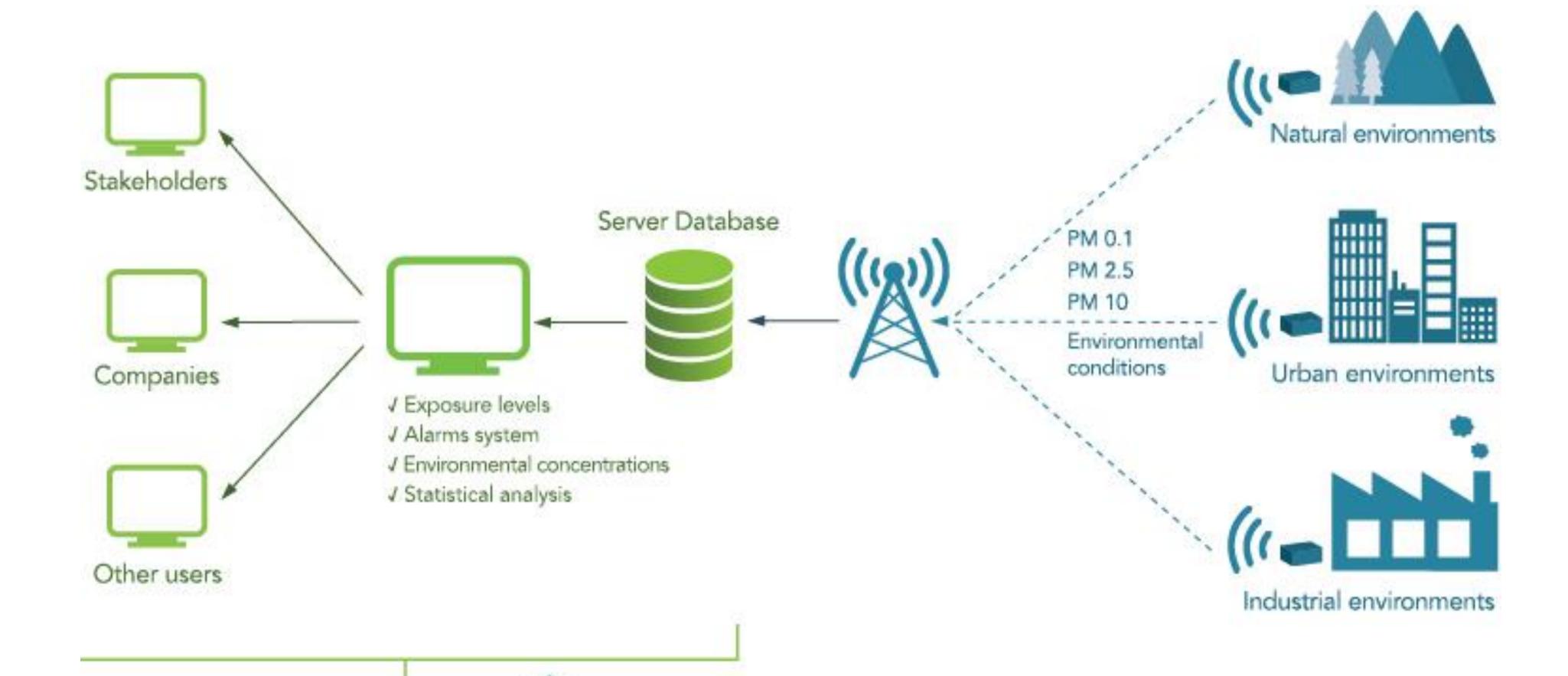


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- ITENE CEAM REACH CENTRE

Project results will be disseminated to a large community of SMEs, stakeholders and competent authorities at a regional, national and EU level.











NanoMONITOR software



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