

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

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nanoMONITOR

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:

1

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

2

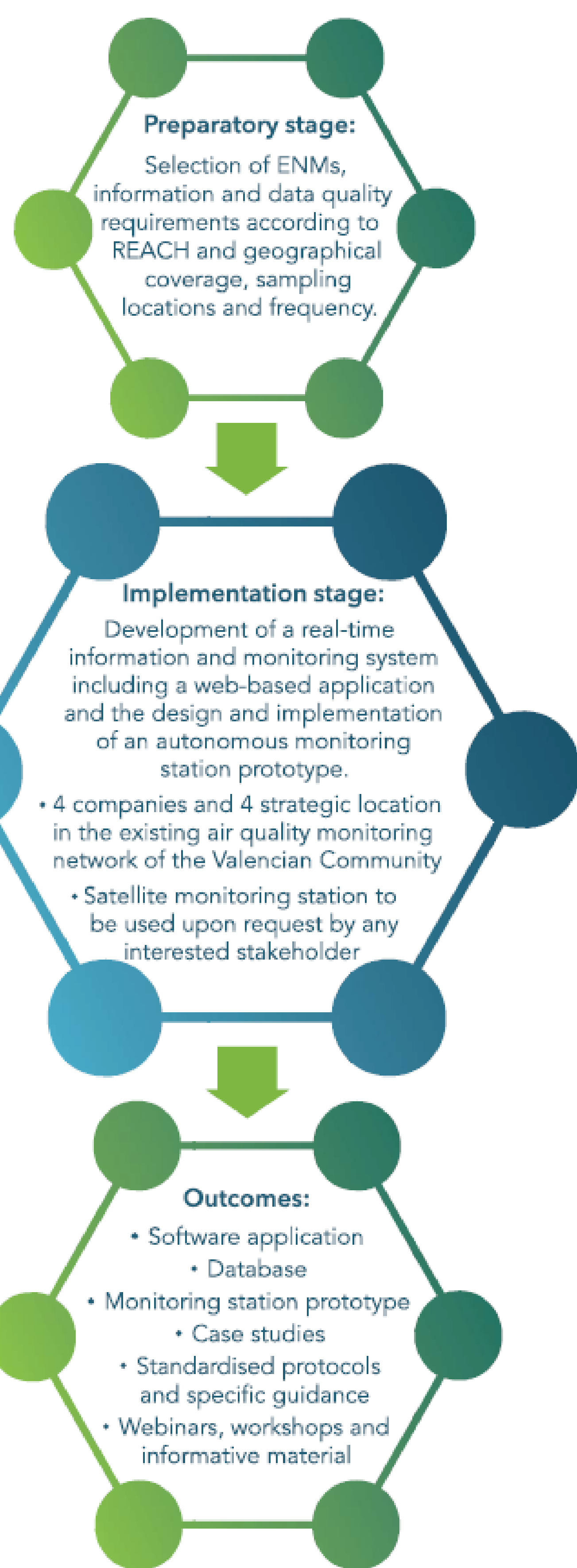
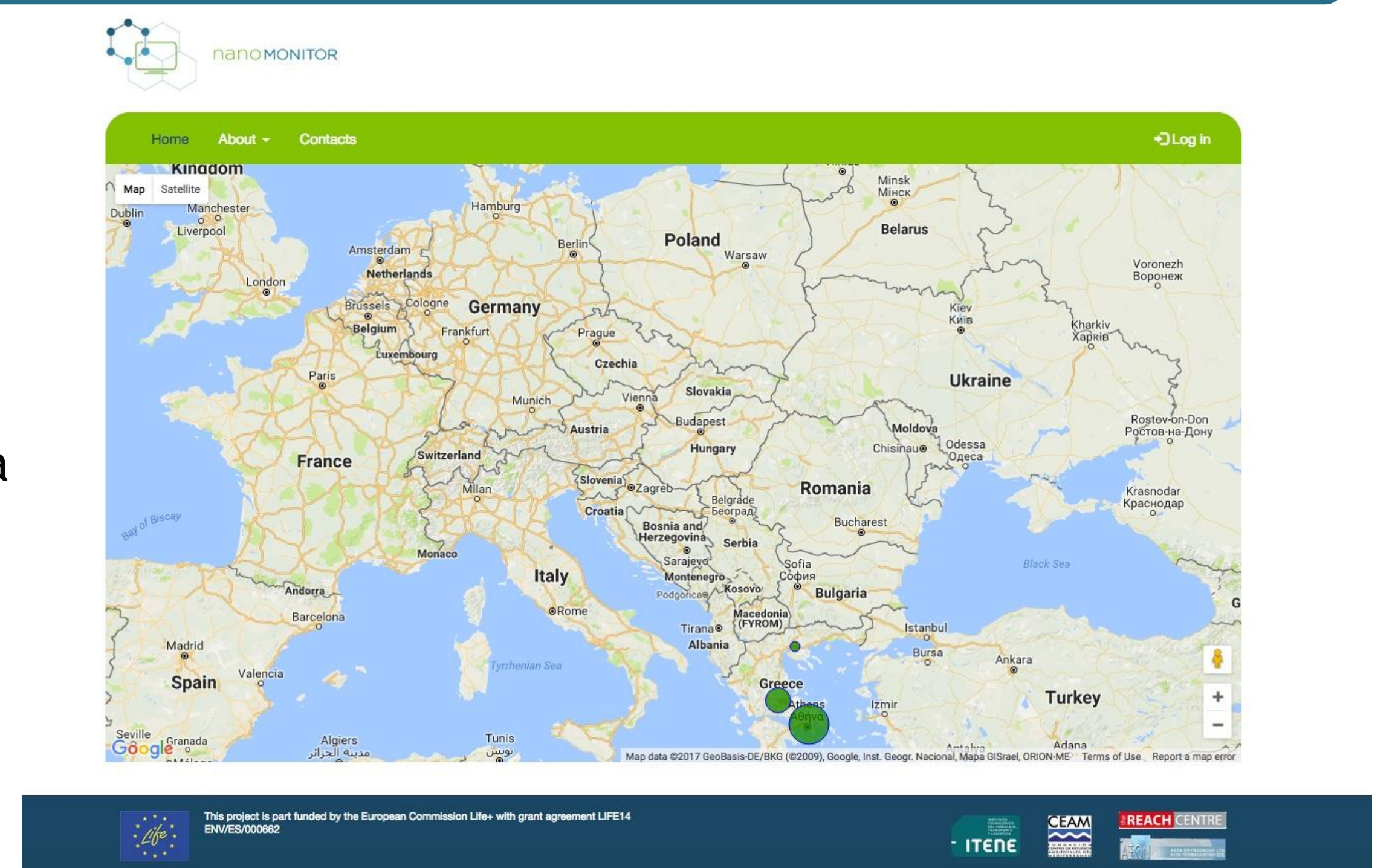
new low cost monitoring station prototype for the measure of indoor and outdoor concentrations of ENMs

- 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

3

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.



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

