

Integrated approach for exposure and health effects monitoring of engineered nanomaterials in workplaces and urban areas

[www.lifenanoexplore.eu](http://www.lifenanoexplore.eu)

## NanoExplore Has Reached Its End!

**NanoExplore: Integrated approach for exposure and health effects monitoring of engineered nanomaterials in workplaces and urban areas**

*We are happy to share with you the achievements of the NanoExplore Project*

### NanoExplore in a nutshell:

The Life NanoExplore project is working to develop and demonstrate the feasibility of an integrated approach to conduct biomonitoring studies, characterise exposure levels and elucidate possible health effects deriving from exposure to engineered nanomaterials (ENM) in indoor workplaces and urban areas.

### NanoExplore Further Achievements

Within four years of intensive work, the NanoExplore partners aimed at reaching the goal to minimise possible effects of ENMs on human health. This has resulted in the development of a number of scientific, educational, and innovation results. We believe these results will have a long-term impact. These include:

- **Integrated system for the assessment, monitoring and surveillance of the exposure and effects deriving from exposure to ENMs in indoor workplaces and urban areas,**

### NEXT EVENTS

25th October 2022

12:00 - 13:00 CEST

**NanoExplore webinar:  
Novelties that  
NanoExplore brings**

### RELEVANT NEWS

At NanoTechnology 2022 in Greece, Thessaloniki, Cathrin Cailliau from Yordas interviewed all present NanoExplore partners on their views on the ending project. These interviews are now being published as a series to show the different perspectives of the project members, what has been done in the project and its results.

- by setting up a **new health impact assessment model** based on the combination of
  - **a wireless sensor,**
  - **proven biomarkers**
  - **a harmonised protocol to conduct the biomonitoring studies and**
  - **a tailored designed software for data acquisition and management**
- **A well-defined list of Recommended Exposure Levels (REL)** for metal and metal oxide based ENMs and low solubility carbon based materials.
- **A valid set of biomarkers** reflecting oxidative stress, inflammation and the associate functional parameters **can be relevant in establishing preventive strategies.**
- A complete **guidance on the use of human biomonitoring and exposure data in indoor workplaces and the environment for REACH regulation implementation and epidemiological purposes.**
- **Recommendations for measures and policies to protect workers and population** from the health effects of airborne nanopollutants.
- **Human biomonitoring and wireless sensor networks** can become a particularly important tool for decision-makers.

## CONTACT US

### Project Coordination:

ALCON Consultant  
Engineers Ltd  
Athens, Greece  
Email: [ap@axonenviro.gr](mailto:ap@axonenviro.gr)

### Dissemination:

Yordas Group  
Forchheim, Germany  
Email:  
[j.friesl@yordasgroup.com](mailto:j.friesl@yordasgroup.com)



The **LIFE programme** of the EU turned 30! It's the EU's funding instrument for the environment & climate action. The nanoExplore project partners during the Consortium Meeting.

## Watch NanoExplore

### Project Videos

You can watch the NanoExplore project video that offers a compact overview of the project itself. Click [here](#) to watch the video on Youtube.

The final project video features the first-person experiences of the researchers involved in the project's different segments and stages. Cathrin Calliou from Yordas Group interviewed the project partners and received a deeper insight into the NanoExplore project's aims and accomplishments. The video is available on Youtube. Click [here](#) to watch it now.

NanoExplore project videos can also be found [here](#) on its website.

### E-Learning: Webinars, Workshops, Presentations

NanoExplore put together all the informational resources produced within the duration and scope of the project by the project researchers. The project website has an "E-learning" category via which the interested audience can access webinar, workshop and presentation recordings for future reference. You can reach all the recordings by clicking [here](#).

### Interview Series

At NanoTechnology 2022 in Thessaloniki, Greece, Cathrin Cailliau from Yordas Group interviewed all present NanoExplore partners on their views on the ending project. These interviews are published as a series to show the different perspectives of the project members, what has been done in the project, and its results.

The interviews are now available on NanoExplore Project's website. The series comprises seven interviews which are accessible on the NanoExplore website [here](#).

### Project Partners:

