

FAST FACTS

Duration:

42 Months

Completion Date:

February 2019

Total Funding:

€10 Million

Partners:

42 across 15+ countries

Objective:

Establish Safe by Design as a fundamental pillar in the development of nanomaterials or nano-enabled products

Outcomes:

- Nanomaterial grouping strategy
- Associated integrated testing strategy

Learn More:

NanoReg2.eu

NanoReg2 Project Update

NanoReg2 has received a six-month extension from the European Commission to allow it to bring the project to a successful conclusion. The extension will allow the project to complete its work on grouping and read-across and allows the efficient curation of the NanoReg2 database, which will be one of the project's lasting legacies and is currently the largest nanomaterial safety database in Europe. It will be available for use at the end of the project. The project will now finish on February 28th, 2019 and will be opening its final meeting on 27-28 February 2019 up to interested stakeholders to learn about the progress that the project has made, and results it has achieved.

The project has made great advances recently, which can be seen by the publications that are available on the project's website [HERE](#). A number of other publications have also been submitted and will be linked to the website when published and available.

To register your interest in attending the final meeting in February, email office@nanotechia.org and you will be notified when details are available.

NanoReg 2 Brings Together 120 Nanotechnology Experts in Paris to Advance Grouping and Read-Across

NanoReg2, in collaboration with GRACIOUS, another H2020 funded project, brought together 120 specialists from Europe, North America and Asia at the Organisation for Economic Co-operation and Development (OECD) in Paris on September 12-13. Experts from research, industry, regulation and policy worked together to improve how safety information can be more effectively obtained, supporting faster growth in nanomaterials development.



One of the main objectives of the NanoReg2 project is to look at the way that clustering nanomaterials with similar characteristics (Grouping) and predicting the behaviour of new nanomaterials within each group (Read Across) can be used to help address some issues with nanosafety testing. Many variations and forms of a single solid substance can exist, with differences in size, morphology and surface characteristics. Depending on the size, some variations have to be reported and regulated as nanomaterials. Financial and ethical considerations mean that safety testing of each variation for their potential adverse effects is virtually impossible. For these reasons, improved ways to obtain safety information are needed for a successful and sustainable nanomaterials sector.

The proposed solutions could lead to a reduction in testing within regulatory requirements without compromising safety standards. This allows efficient development of safe and novel nanomaterials, based on increased understanding of their behaviour and possible impact on humans and the environment.

The Paris workshop was an effective platform for multiple stakeholders to bring their expertise to the design of a science-based framework for effective Grouping and Read Across of nanomaterials. Both the NanoReg2 and GRACIOUS projects will finalise concepts and practical roadmaps to support producers, governments, regulatory agencies and standardisation bodies for safe and innovative nanomaterials in the coming period.

NanoReg2 Project Coordinator, Dr Emeric Frejafon said that the workshop “was an opportunity to create a global critical mass of opinion so we can support nanomaterial development and safety assessment worldwide.” He also expressed surprise to learn of the great strides made by his project.

The full agenda for the meeting and slides can be found [HERE](#).

Publication on Grouping and Read Across for Nanomaterials in EU Chemical Legislation

For approaches such as grouping and read-across to be useful to industry and accepted by regulators, they need to fit within chemical legislation. NanoReg2 has undertaken a comprehensive review of European Union (EU) legislation addressing the safety of chemical substances and the possibilities within each for applying grouping and read-across methods for the assessment of nanomaterials. As well as overarching legislation such as REACH and CLP, the review looked at sector-specific legislation such as that used in cosmetics, foods, plant protection and biocidal products.

The project’s review can be found in an open access article in *Nanotoxicology*, which brings together the work of multiple NanoReg2 partners and gives some conclusions to the applicability of grouping and read-across in chemicals legislation. The article concludes that there is an emerging consensus around the possibility of developing “criteria and conditions that allow the risk assessment of NMs based on a category approach rather than on a case-by-case basis.”

The article can be read online [HERE](#)

If you have any questions or comments at all, please contact us at ProjectOffice@NanoReg2.eu, or if you would like to sign up for our mailing list please visit our Website at NanoReg2.eu.

