

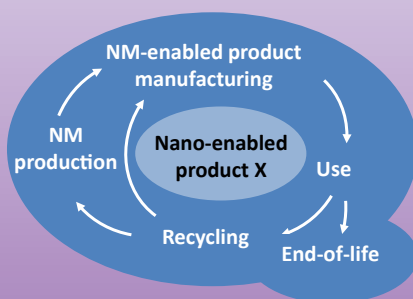
GUIDE*nano*

The project

GUIDEnano is a three and a half year project that started on November 2013, bringing together 30 partners from 10 EU countries.

Main goal

The main objective of GUIDEnano is to develop innovative methodologies to evaluate and manage human and environmental health risks of nano-enabled products, considering the whole product life cycle: synthesis of NM, manufacturing of NM-enabled products, use, and end-of-life phase (including recycling). These developments will be incorporated into an interactive web-based Guidance Tool, which will guide the NM-enabled product developers (mainly industry) into the design and application of the most appropriate risk assessment & mitigation strategy for a specific product.



Visit our website: www.guidenano.eu

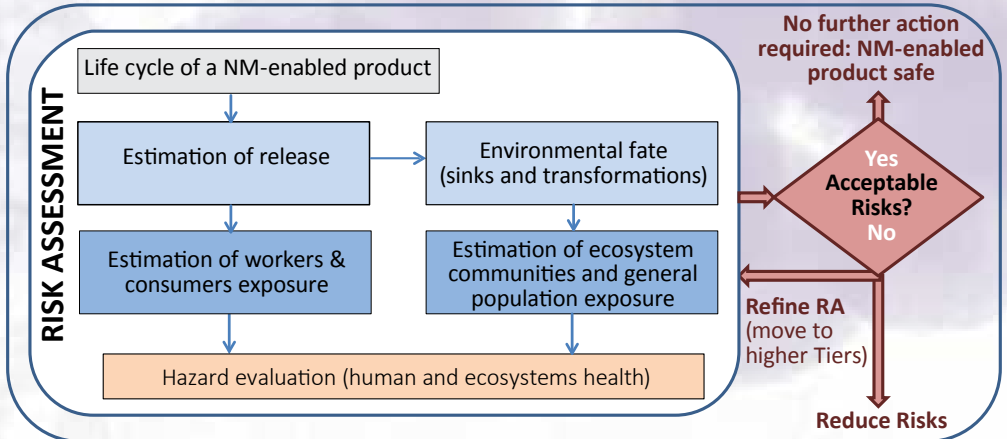


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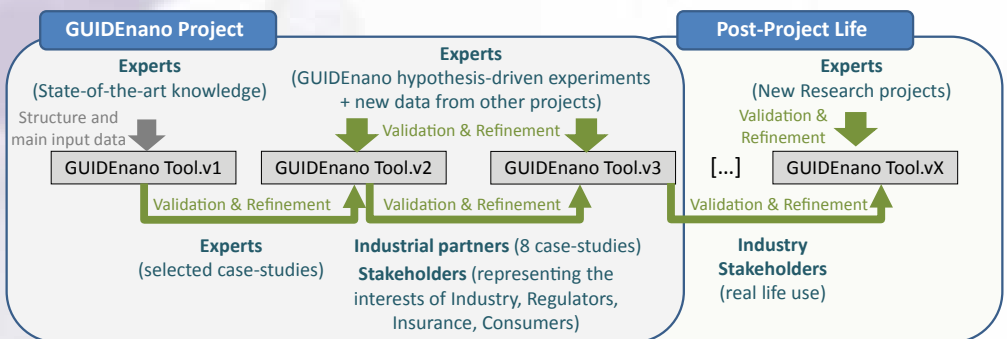


Specific goals of the project

1. To develop methodologies to evaluate the risks of a wide diversity of nano-enabled products on human and environmental health, throughout their life cycle.



2. To develop innovative solutions to reduce the identified risks. A wide range of risk mitigation strategies and guidance on the selection of the most appropriate measures for each scenario associated to an unacceptable risk will be provided.
3. To integrate the risk evaluation and mitigation strategies into the GUIDEnano Tool and to carry out an iterative process of performance testing, feedback and improvement steps to validate its suitability and applicability to real-case NM-enabled products, including a detailed plan for the hosting and maintenance of the GUIDEnano Tool after the life time of the project.



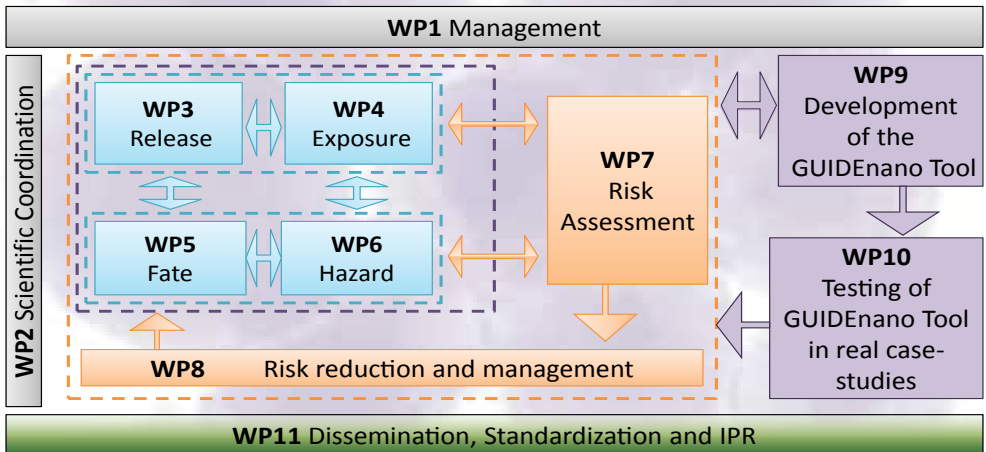
4. To efficiently communicate to consumers, regulators and insurance communities that, by following the GUIDEnano Tool, risks associated with an NM-enabled product have been adequately identified, evaluated and mitigated across the



whole of their life cycle. Thus, ensuring that workers, consumers and environmental health have been appropriately protected, and facilitating social acceptance, regulatory control, and insurance activities related to nanotechnologies.

Organization

GUIDEnano is structured into 11 work packages arranged by four main blocks: the Coordination block (WP1 and WP2), the Knowledge block subdivided into different technological building sub-blocks (WP3, WP4, WP5, WP6, WP7 and WP8) that will generate the scientific input to the GUIDEnano Tool, the Software Development and Demonstration block (WP9 and WP10) that will create the Tool itself and will validate it in real life case studies, and the Dissemination, Standardization, and IPR block (WP11).



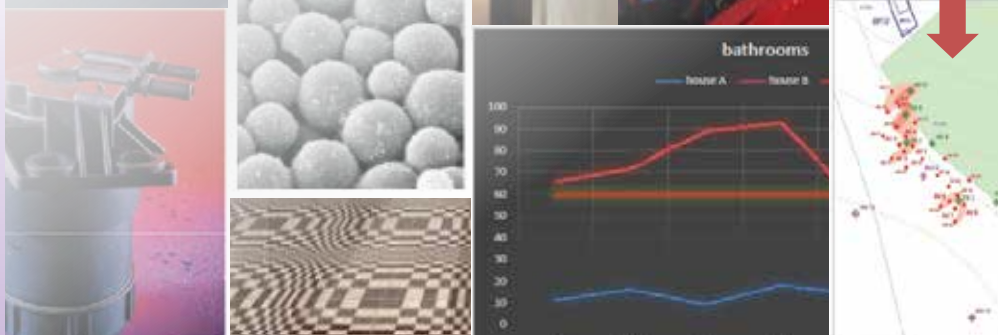
Impact

- GUIDEnano will provide a Tool to be used by industry with the aim to complement existing regulations in different frameworks.
- By using this Tool, industry will be able to evaluate and efficiently mitigate possible health risks for workers, consumers and the environment associated to the use of nanotechnologies.
- The report generated by the GUIDEnano Tool will be designed to ensure transparency of the process and facilitate communication and acceptance of the Tool outcome by regulatory agencies, occupational safety and health agents, insurance companies, and consumer protection associations.



Case studies

- Photocatalytic TiO₂ NP in hot bituminous mix
- Nanocellulose for food packaging
- Nanosilver for antibacterial textiles
- MWCNT for enhanced performance polymers in the automotive industry
- TiO₂ nanocoating for household products
- ZnO NP for antifouling paints
- Al₂O₃-SiO₂ NP for ceramic floor tiles with antislip coating
- FeO NP for soil remediation



The consortium

Universities & Research Centers



Industry



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