

EU-US – NSC - WG 5 - Risk

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Activities

- EU research projects working with Risk assessment and Intelligent Testing Strategies to various extend
- NanoSafety Cluster regular face-to-face meetings with involved projects (incl RISK)
- Risk meetings coordinated by MARINA
- Half yearly update on progress from the project



Objective of Risk Group (WG5) in NSC

- To generate overview/coordinate activities in the development of risk assessment approaches and related intelligent testing strategy (ITS) for nanomaterials which supports regulatory decision making.
- To facilitate development of an integrated approach where human and environmental assessments are interlinked and mutually supportive.



Starting point

• Wide variability of nanomaterials: impossible to conduct full testing and risk assessment of each material and application.

 However, safety has to be demonstrated before introducing new nanomaterials in consumer or industrial products and processes.



Current status

- Current risk assessment Physical chemical, exposure, hazard and risk
- Oomen, A. G. et al (2013) Concern-driven integrated ... of the NanoSafety Cluster Working Group 10. Nanotoxicology. DOI 10.3109/17435390.2013.802387.
- Nanosafety Cluster (2013) Nanosafety 2015-2025: A Strategic Research Agenda towards Safe and Sustainable Nanomaterial and Nanotechnology Innovations.
- ITS nano (2013) Research Prioritisation to deliver an intelligent testing strategy for the human and environmental safety of nanomaterials.



Basics blocks



MARINA

Conceptual

NanoSafety Cluster



Workshop report open for comments via NSC-website soon.



MARINA future work

- Conceptual work on grouping (ranking etc) of nanomaterials.
- Conceptual work on a risk assessment strategy (previous slide is part of ongoing work).
- Identification and evaluation of potential tools and methods that can be used in the risk assessment strategy.
- Integration of environmental and human health risk assessment strategy.



Integrating Research Priorities





NSC - Risk prediction tools





Grouping



NSC/Oomen et al 2013



Risk Implementation



ITS NANO



NSC - RISK Group procedures

- Teleconferences 3-4 times a year
- Face-to-face meetings at NSC
- Abstract from project in a 6 m report
- Exchange information with US-EU Format?