Risk Assessment

Workshop Report
• Scope
Sharing of knowledge and expertise to harmonize and synthesize research on methods and practices for analyzing risks for human health and the environment associated with exposure of ENM and nano-enabled products along the value chain.
Objectives

1. Coordinate with the other CoR’s
   - Ontologies and Databases CoR: on **terminology & resources** that
     - enable **inputs** from the Ecotoxicology CoR & Predictive Modelling CoR & the Exposure CoR
     - to be meaningfully **analyzed**
     - that finally **supports** the Risk Management & Control CoR

2. **Inventory** methods and tools available for **assessing and comparing risks**

3. **Match** tools with end-user **mission and decision needs**
   - use of appropriate risk definitions
   - value chain
   - risk assessment (and management) tools of appropriate **computational complexity**
4. Identify gaps among tools, data, stakeholder missions, and management need and communicate to the other CoR’s what is needed.

5. Compare risks associated with engineered nanoparticles with those presented by incidental and naturally occurring nanomaterials and evaluate associated uncertainty.

7. Recommend methods for calculating risks that allow for the ability to assess associated uncertainty as well as adapt and update risk estimates as new information becomes available or as stakeholder mission and decision needs change, and

9. Identify steps forward required for comparable risk calculations within a defined context or mission.
Actions so far:

- Extension of #participants (especially US-side)
- 2 Teleconferences (September/October 2012)
- Launching of taskgroup on Definitions

Achievements

- Final draft Scope & Objectives
- EU-US collaborations (Examples which could be fit into/linked to CoR)
  - Roadmap Human Health Effect Studies (JOEM paper)
  - Nano Risk Banding tools workshop (Amsterdam 01/10/2013)
Work plan

• Initiate focus groups to address
  – either cross-cutting issues,
  – specific objectives,
  – or themes, e.g. human health risk or human health benefit assessment, environmental risk assessment, or epidemiology.

• The output of the focus groups and their associated time lines might be different,
  – e.g. reviewing/ harmonization of methods and tools,
  – white papers, position papers,
  – or recommendations for research, etc.
  – Organization of satellite meeting
Main issues discussed:

1) "Benefit analysis" - conclusion: skip benefit from the title of the CoR

1) Include subgroups
   - "Benefit analysis"
     - "Product Cycle/ Fate Analysis/ Value Chain"
     - "Exposure Pathways/ Scenarios"
     - "Data needs"
     - "Data harmonization"
     - "Inventory tools"
     - "Human RA"/ "Environ. RA"

3) much effort focused on "Hazard Assessment, - much less on "exposure"
   - mainly work focuses on pristine NM/ simple NM
Next steps/ timeline:

• Get new participants involved: go to website (http://us-eu.org/) NOW
  in case of problems: communicate to Stacey (sstandridge@nnco.nano.gov)

• Questionaire (e.g. Doodle like) to define subgroups & assign members to subgroups NEXT FEW WEEKS
• Start the subgroups Jan 2013

• Link to other activities (e.g. OECD SG6) VIA NEXT YEAR
• Identify events (conferences, workshops):
  - link to this e.g. via satellite workshops
  - e.g. doodle in advance to check who will attend

• Identify project from EU & US side that can feed in content into our CoR