Emerging Technologies imply new ELSI and EHS questions

Suitability of the current regulatory framework? (REACH/CLP, product-specific legislation)

YES but specific requirements for nanomaterials:
- Definition of Nanomaterials 2011/696/EU
- Revision of REACH annexes for NMs
- Specific NMs requirements in Cosmetics, Food Safety, Biocides

Exploratory research: hazards, exposures, risk assessments

Regulatory Research: Validation, Adaptation or Development of test methods

Market Support Research

"Real Life" implementation
International Cooperation

• **Crucial** to address many Horizon 2020 objectives

• **Principle of general openness:** the programme will be the most open funding programme in the world

• **Cooperation with the United States is highest priority**

  but funding to US partners not automatic except if ...

  ✓ Provided for in the Work Programme (e.g. Health) or
  ✓ Deemed essential for the action/project or
  ✓ Provided for in a relevant bilateral S&T agreement or any other relevant arrangement

**Several successful cases of US participation in EU projects:** Nanommune, NeuroNano, Modern, NanoSolutions, NanoMile, ...
• **Project level cooperation:**
  - "International Consortia": independent projects sharing research agenda and having coordination mechanisms. Recent examples: NanoFASE, NanoREGII

• **Next opportunities: WP 2016-17 (in prep)**
  - Analytical techniques and tools in support of nanomaterial risk assessment
  - Promoting safe innovation through global consolidation and networking of nanosafety centres and strengthening the European nanosafety
  - Framework and strategies for nanomaterial characterisation, classification, grouping and read-across for risk analysis
  - Advanced and realistic models and assays for nanomaterial hazard assessment
• **Project level cooperation:**
  – "International Consortia": independent projects sharing research agenda and having coordination mechanisms. Recent examples: NanoFASE, NanoREGII

• **Program-level cooperation:**

*With government departments and funding agencies*

  – Joint call (joint evaluation and selection procedures to be agreed upon) – "single" or "twinned" projects
  – Coordinated/synchronized calls & ex-post cooperation
  – Joint calls through Era-Net or CSA projects:
    • SIINN 3rd call for research proposals with NSF, CPSC & NIEHS
    • PROSAFE