

## EC4SafeNano



# EC4SafeNano at glance

## CSA NMBP27-2016 EC4SafeNano

Dates : 1st Nov. 2016 to Oct. 2019

Budget : EU funds 2 M€

15 Partners

~60 Associated partners (21 countries)

1 Int. Adv. Board



Promote processes & tools to build harmonized expertise in RA & RM for the public & private sectors for safer development and commercialization of nanotechnologies

→ Gather stakeholder needs, knowledge and tool available

→ Define processes to develop harmonized services,

→ define a sustainable structure & demonstrate its efficiency on case studies

# EC4SafeNano, an expertise building & delivery structure

Knowing

- Needs from stakeholders → Demands

Gathering

- Available resources & facilities → Capabilities

Developing

- Fit & Gap Analyses
- Build processes for service harmonization

Providing

- Advice harmonized/certified services
- Access to **capabilities & infrastructures**
- **Feedback** on research needs for expertise

Promoting

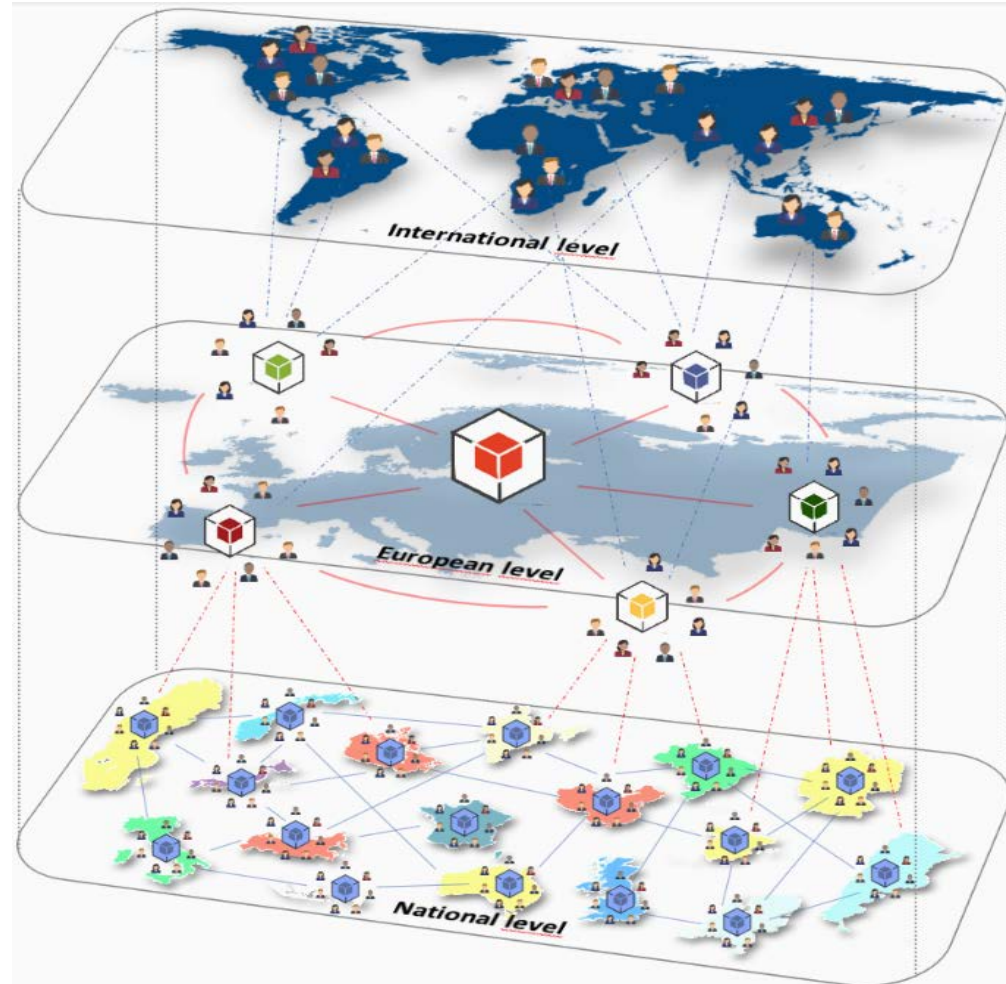
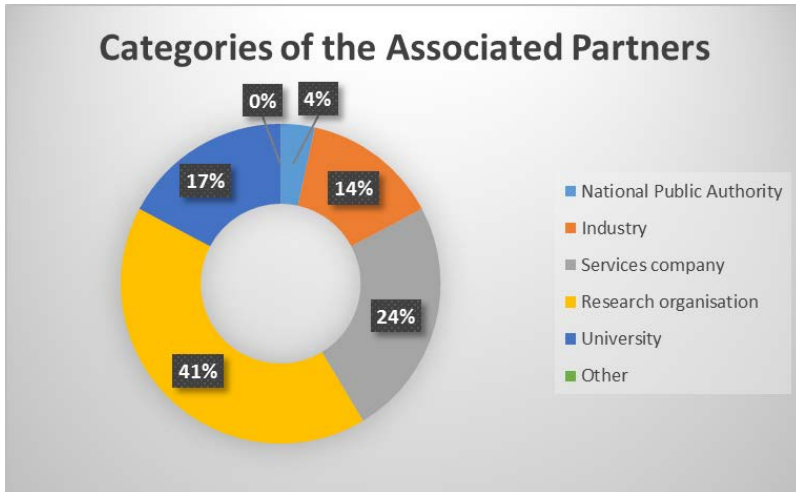
- **Capabilities and services** offered
- A sustainable structure

For:

Member States (MS), EC and EC Agencies  
Industry, safety providers, training org.,...  
Civil society (NGOs, groups of citizens)

# EC4SafeNano, a large Partnership

## 60 Worldwide Associated Partners ...



## 15 EU EC4SafeNano Partners the core Group



*MS National hubs  
Existing & new initiatives*

# Survey development – quite an effort !!!

## □ Online survey for 5 stakeholder groups:

- Member States
- EC and EC agencies
- Industry
- Society and NGOs
- Service providers
- *Research organisations & universities*
- *Other organisations*



□ Survey was checked by relevant stakeholders

□ Revision of the survey and launch for 6 months

# Survey results: Mains topics of interest & needs

---

*229 responses: 147 stakeholders with needs and 82 service providers.*

Topic of Interest :

- ❑ Human health issues most prominent while environment & ecosystem are less relevant
- ❑ MS/EC: Clear validated & standardised methods for assessment, access to databases, trainings, increase awareness
- ❑ Industry: more interested in solutions than quantification of the problem, protocols, trainings
- ❑ Civil Society wants transparency

Needs:

- ❑ Testing/measuring, training, protocols, reference values, guidelines, shared databases and standards > certification of testing/products, consultancy, models, software
- ❑ Concentration/characterisation, hazard assessment, exp.assessment workers, risk prevention (incl. SbD), efficacy PPE, compliance with regulation > other topics



# Identification & ranking → case studies

---

- List of real questions to test the functionality using case studies:
  - 1<sup>st</sup> list: already existing questions raised by partners
  - 2<sup>nd</sup> list: output of EC4SafeNano Survey on needs
  - 3<sup>rd</sup> list: output of NanoReg2 project (JRC)

**Prioritization** of “Questions” through a multi-stakeholders survey

**Case study 1 (383/475 points):** Is it possible to **classify engineered** nanomaterials according to their potential health effects (toxicity, bio distribution, accumulation) & which physic-chemical properties should be measured to make this judgement?

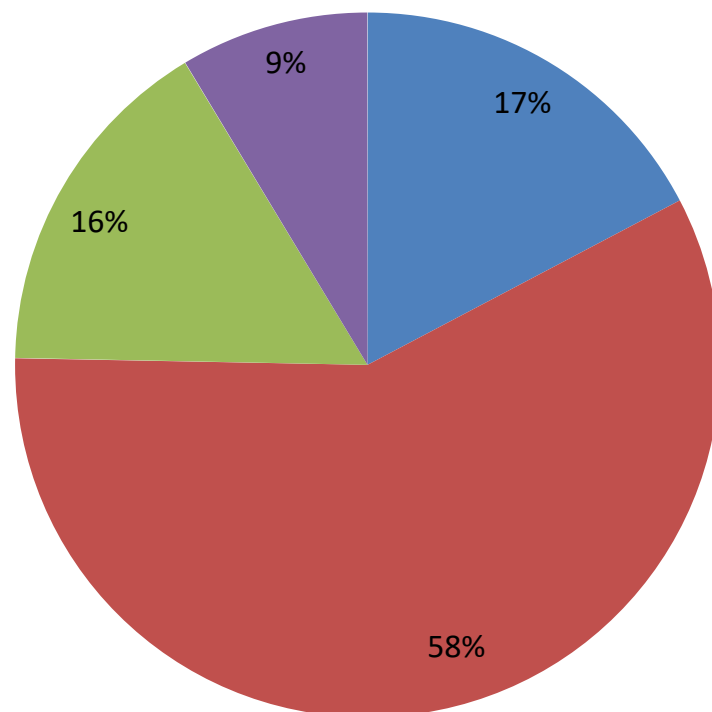
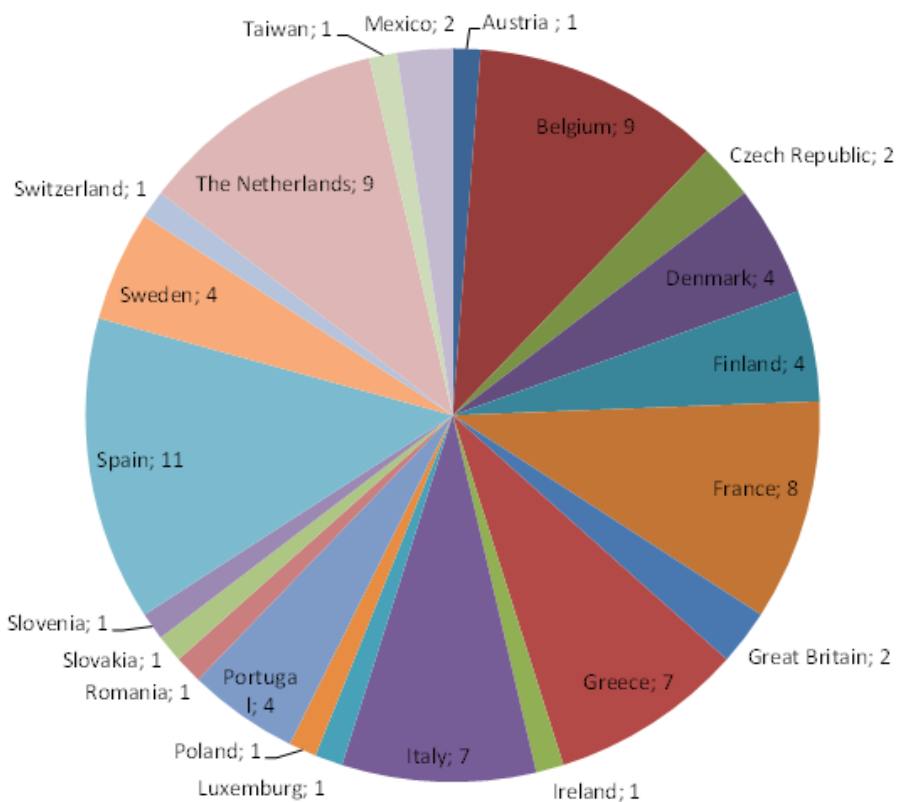
**Case study 2 (353/475 points):** How can the **surface chemistry** and reactivity of engineered nanoparticles be determined and how can one take into account the behavior and transformation in relevant media (workplace atmosphere, waste, water...) throughout their life cycle? (case study on e.g. TiO<sub>2</sub> or SiO<sub>2</sub>)

**Case study 3 (351/475 points):** Which methodology & tools could be promoted to enhance **information exchange** throughout the value chain (suppliers to end users) for traceability & labelling (referring to identification), but also for safety information (e.g. safety data sheets) & regulatory requirements.

# Results : Service providers identification

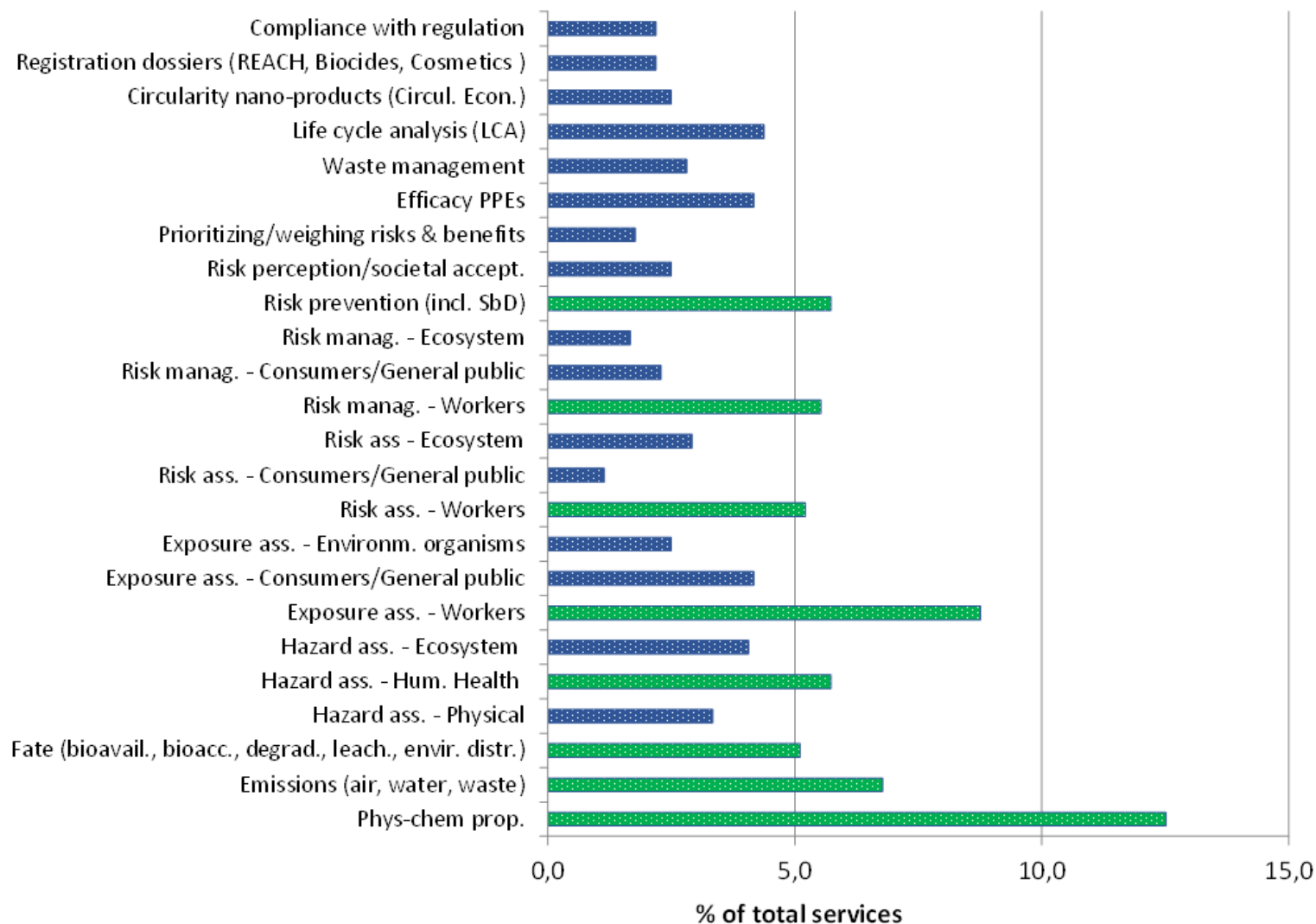
# service providers /country (total n = 82/22)

- University
- Research organisation
- Not specified (mainly private)
- Other - Public services or networks





# Results T 2.1: major domains of current services



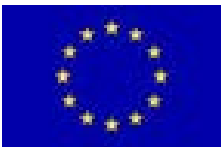
# Project Status, what should be the next step ?

---

- Launch the 3 Case studies
  - Call for interest, open to collaborations (SAFERA)
  - Schedule : done for mid 2019
  
- Fit and Gap Analyses build the Catalogue of Services
  - Drafts already done
  - Processes for harmonization and Certification engaged
  - Open workshop in 2018
  
- Build the Sustainable structure
  - Legal entity, activities, governance, business model : identified
  - Internal and external organization to be clarify
  - Open workshop during NANOSAFE 2018

# Thank you for your attention

---



The research leading to these results has received funding from the European Union's Horizon 2020 Research and Innovation Programme, under the Grant Agreement No 723623.

The views and opinions in this document are solely those of the authors and contributors, not those of the European Commission.