

# Nanotechnology Challenges in 2017 Vision and Mission

Webinar  
21 February 2017

# Webinar agenda

# NIA

Nanotechnology  
Industries Association



Introduction to  
the  
Nanotechnology  
Industries  
Association

Nanotechnology  
priorities in 2017

How the NIA  
supports  
Members

Get involved



# *NIA: the voice of nanotechnology industries*

NIA **supports the development of nanotech innovations** that improve the lives of consumers, preserve our environment and advance our world

- Support for development of a robust regulatory framework
- Business and scientific networking and promotion for Members
- Working with the EC to build the nanotechnology ecosystem

**Brussels  
Head Office**

Team in Belgium,  
UK, France,  
Netherlands,  
Sweden/Portugal

Skills in  
regulatory  
development,  
project delivery,  
advocacy and  
communications



# The NIA community – a few examples

## Large companies



## Small/mid-size companies



## Research institutes



## Specialist service providers



## National Associations



# Nanotechnology priorities in 2017



# Revision of European Commission 2011 Nanomaterial Definition Recommendation

- Identified issues
  - **Clarifications possible for several terms:** ‘particle’, ‘physical boundary’, ‘unbound state’, ‘constituent particle’, ‘external size’ and ‘aggregate’, ‘one or more external dimensions’ as well as the verb ‘containing’
  - How to identify particles in aggregates
  - Inconsistency in the 1-50 % flexibility
  - Confusion on the Volume Specific Surface Area (VSSA)
  - How to prove a material is not a nanomaterial
- Publication from EC expected shortly
- Public consultation (8 weeks)
- Accompanied by a guidance document



# Modification of REACH Annexes

- Regulatory definition (based on EC recommendation) to be inserted in Annex VI
- Term 'nanoform' to be included in REACH text
  - In one registration a substance can have several forms
  - Nanoform require information on:
    - Size/Shape/Surface modification
- ECHA currently revising/publishing four guidance documents applicable to nanomaterials

# *Nano-specific modifications of REACH Annexes*

## *– Proposed modifications (non-paper)*

- **Introduction of requirements** to provide information on nanoforms in Annexes I, III, VI-XII
  - For characterisation: Name, particle distribution, surface treatment, shape, morphology, surface area, analytical methods
  - Specify test conditions
  - Dispersion should be assessed
  - Cancel waiving of testing based on high solubility in water alone
  - Dustiness information



# Safe-by-Design

Built on a three pillar foundation



How can Safe by Design benefit you?

Reduce Time  
Required for R&D

More Cost-Effective  
Innovation

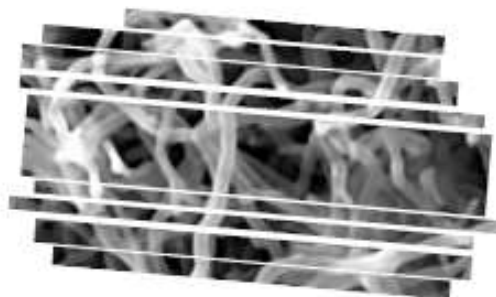
Faster to Market

Prepare for Future  
Regulatory Challenges

Safer Products

Better Consumer  
Acceptance

# Industrial Workshop on Safe-By-Design



24-25 April  
2017  
Bilbao

Organised by European  
Union Horizon 2020 Projects



NanoReg<sup>2</sup>



- Introduction to the **Safe-by-Design concepts** to a wider audience
- **Development of new relationships** between the Horizon 2020 projects involved in Safe-by-Design and industrial stakeholders
- **Bringing together industrial companies** who can benefit from the use of Safe-by-Design

Free of charge - [Register here](#)

# Public Communications - A serious matter



# Nanomaterial registers



## Norwegian Product Register

- Entry into force **2012**



## The French 'r-nano'

- Entry into force: **2013**



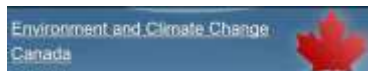
## The Danish 'nanoproduktregister'

- Entry into force: **2014**



## The Belgian Royal decree

- Entry into force: **2016**



## Canada Domestic Substances List

- Entry into force: **2016**



## USA TSCA Section 8(a)

- Entry into force: **2017?**



## Swedish Chemical Product Register

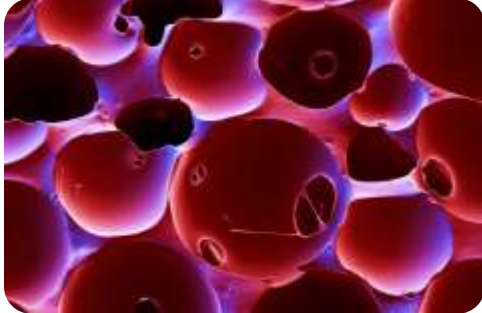
- Entry into force: **2019?**
- **ONGOING NIA CONSULTATION**



## EU Observatory on Nanomaterials

- **Announced in 2016**
- **To be developed**

# NIA Members Support: Regulatory and advocacy



- **Exclusive Information:** Restricted briefings, reports, consultations, discussions and opinion pieces
- National, European and global **monitoring**
- Support Members for **regulatory preparedness**
- **Regulatory Monitoring Database** tracks updates to nanotechnology regulations and policy worldwide

**Current:** ECHA and Sweden consultations

**Monitoring:** TiO<sub>2</sub> classification

**Pending regulation:** Medical devices

# NIA presence and Members representation

NIA represented in several important fora:

- European Commission CARACAL Competent Authority Subgroup on Nanomaterials (**CASG-nano**)
- European Chemicals Agency (ECHA) Nanomaterial Expert Group (**ECHA NMEG**)
- **OECD e.g. Working Party on Manufactured Nanomaterials (WPMN)**
- National and international advisory groups and standardisation committees (**ISO/TC 229** and **CEN/TC 352**)



# *Member networking and promotion*

- **Funding tracker** – Collaborative R&D funding to build partnerships across Members and sectors
- **Collaborative events** with target sectors – healthcare biotechnology (EuropaBio), chemicals (CEFIC), medical devices, food production
- **Focus on specific business development issues** e.g. IP, market access
- **Member promotion** – speakers, case studies, publications, webinars, conferences (ENF, BIO 2018)
- **Promotion of Industry Members** into EC projects as partners and specialists

# Building a nanotechnology ecosystem and community

- NIA participates in **key projects and actions** to support critical mass and alignment:
  - **Ecotoxicology testing**
  - **Regulatory support**
  - **Industry-developed SOPs**
  - **Data generation and sharing**
  - **Fully validated reference materials**
  - **Public perception and communication**
- Interactive relationship with EC
- Strong project community of industry, research and regulators
- Part of Nanosafety Cluster



NanoReg2



Example NIA – FP7 and  
Horizon 2020 projects





# How can you be involved?



- Join (of course!): be involved in all activities.
  - 15% discount for registrations from webinar attendees
- Follow our [LinkedIn](#) updates
- Sign up for our quarterly [non-member newsletter](#)
- Come to our [symposium](#) March 30 – Future Proofing innovation (free for members, €150 non-members)

***Thank you  
from the NIA team***

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