Enabling Responsible Innovations of Nanotechnologies: European Chemical Industry's Strategy on Nanomaterials and Nanotechnologies

DG SANCO Safety for Success Dialogue - 2 October 2008

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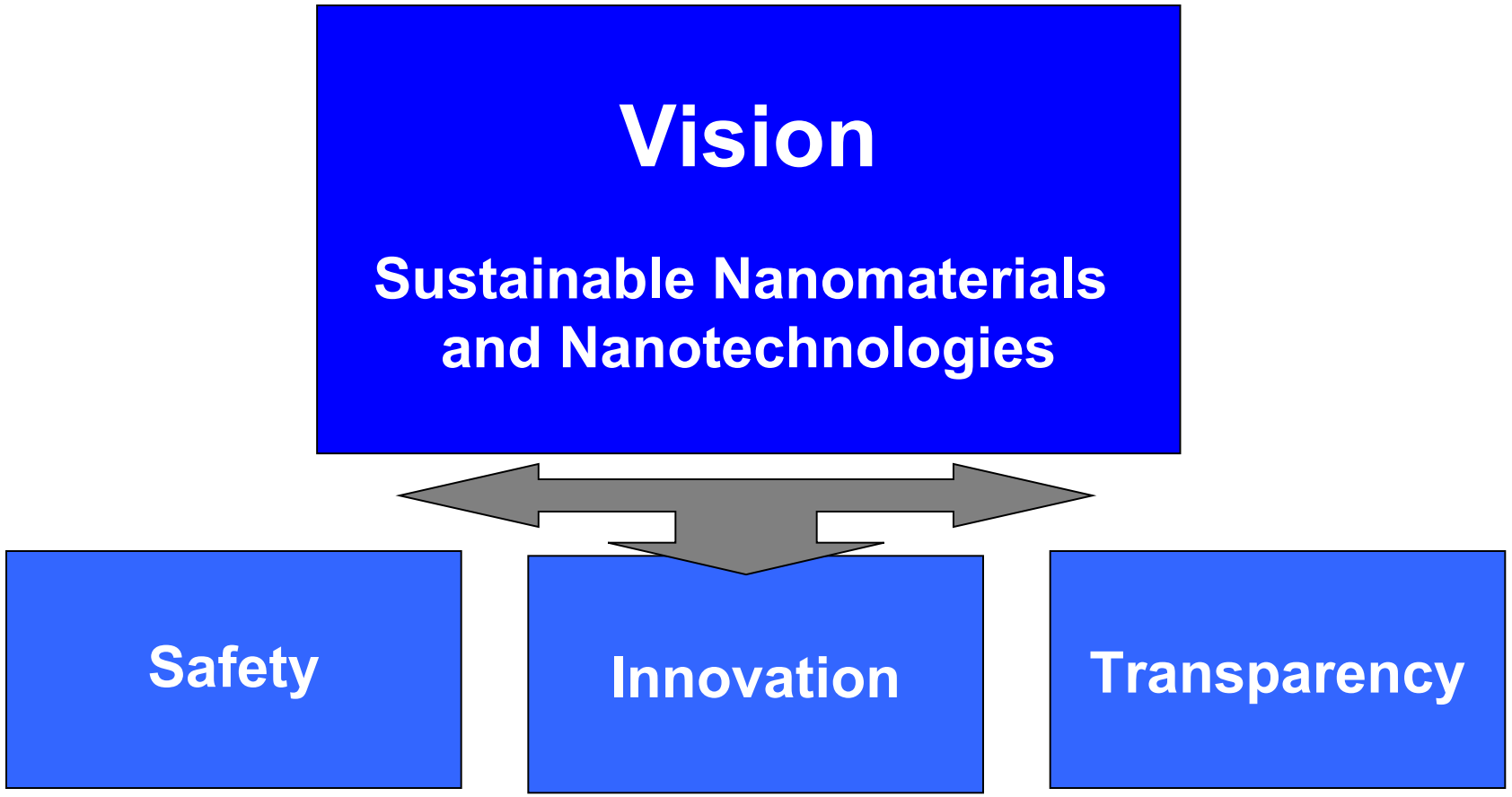
cefic

Chemical Industry view

- Cefic's Strategy on Nanomaterials and Nanotechnologies
- Substances in our focus
- Safety
- Some applications
- Leading in innovations - Possibilities
- Transparency – the key to success

Cefic's Strategy on Nanomaterials and Nanotechnologies



What do we want to achieve?

→ Technology leadership

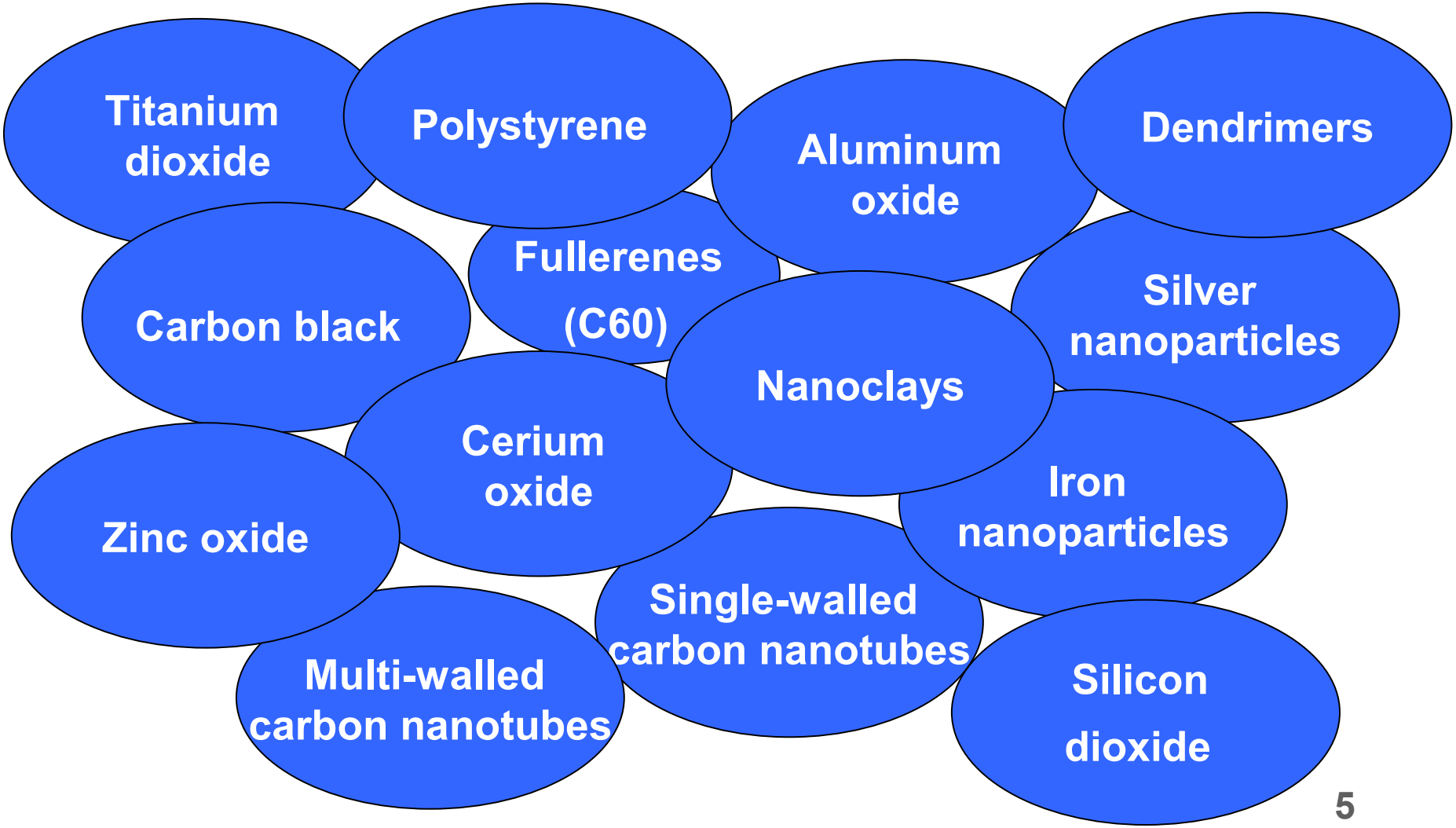
→ Harmonised global standards

→ Safety: workers, consumers, environment

→ Engagement: policy makers, regulators, stakeholders

→ Transparency

Substances in our focus – OECD Ref. Nano



Improving tools for risk assessment

Hazard Characterisation

Cefic Long-range Research Initiative
• Development of tiered testing strategies for nanomaterials

OECD Ref. Nano
• 14 reference nanomaterials will be tested for 59 endpoints

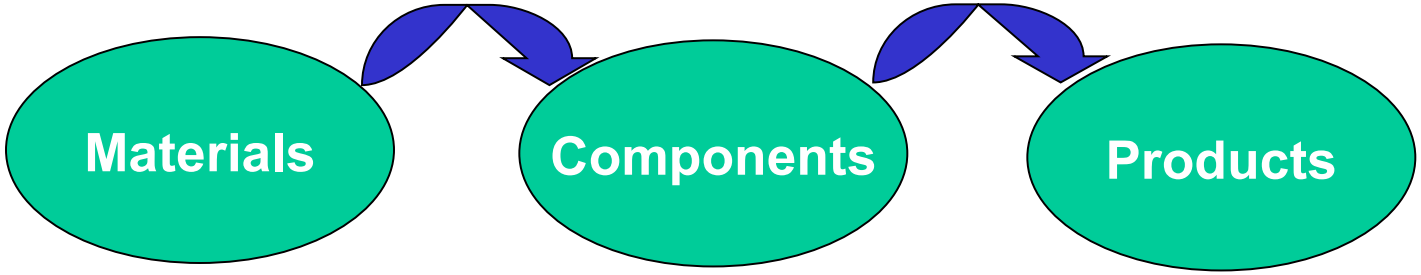
Exposure Assessment

NanoCare & TRACER

OECD
• International Workshop on Exposure and Mitigation

Cefic Long-range Research Initiative
• Environmental fate of nano-materials

Some applications



Anti-reflecting treatments of glass

Surface treatments

Paint Applications

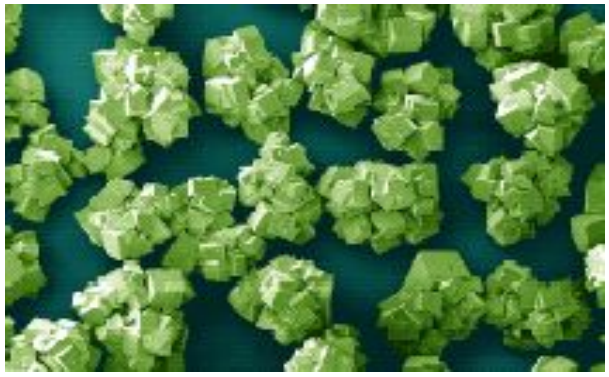
OLED Techniques

Improvement of fuel cells –ceramic membranes

Innovation – the possibilities

Environmental Technology

- **Solar cells**
- **Thermal insulation of houses**
- **Fuel cells**
- **Hydrogen storage**
- **LEDs, “cold light”**
- **Flexible und low energy displays**
- **Lower weight cars**
- **Wind mill rotors…**
  (polymer-NM-composites)



Surface enhancement / Coatings

- **Self cleaning surfaces**
- **Scratch resistant surfaces**
- **Technical textiles**
- **Water purification**

Transparency

"Close the gap between what industry communicates and what stakeholders want to know"

- **More information from companies (MSDS Nano)**
- **Proactive approach to regulatory working groups**
- **Engagement in national & international stakeholder events**
- **Initiatives on national level**
- **Cefic's Stakeholder Engagement Process** (June 2008)

Transparency
Cefic Stakeholder Engagement Process

June 2008 workshop result:

Find the right ways to share appropriate information to the right groups via the right mechanisms

Next Steps:

- **Consultations with Stakeholders (until end 2008)**
- **First Half 2009: small group discussions on pre-consulted themes with stakeholders**
- **Second Half 2009: 2nd Cefic workshop**