

Deployment of the Nanosafety Hub

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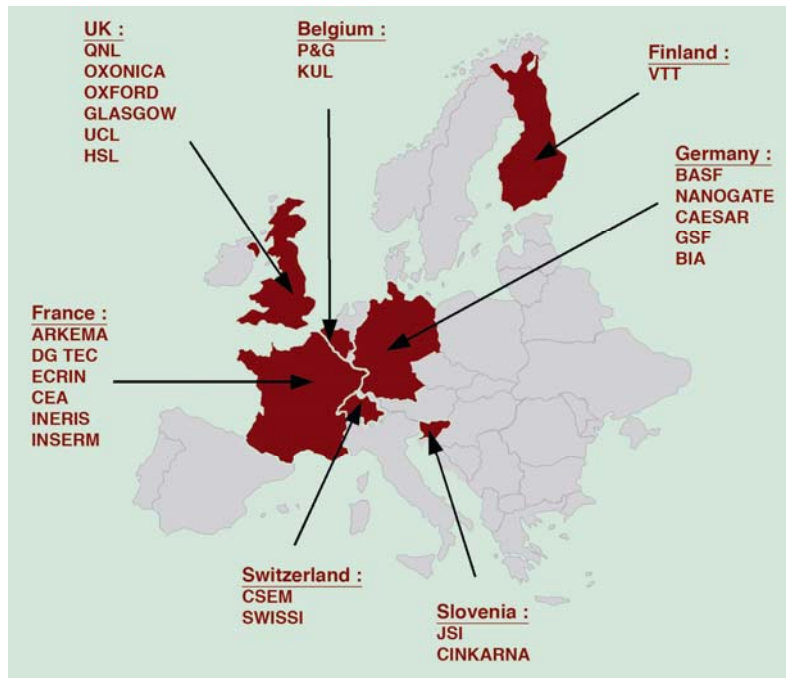
CEA – Advanced Materials Program



EUROPEAN INTEGRATED PROJECT OF THE 6th PCRD

Coordinator of the project: F. Schuster (CEA)

- 26 partners (industrials, academics, universities)



Safe production and use of nanomaterials

(2005 - 2009)

SP1 :
Detection and measuring techniques

SP2 :
Hazard assessment

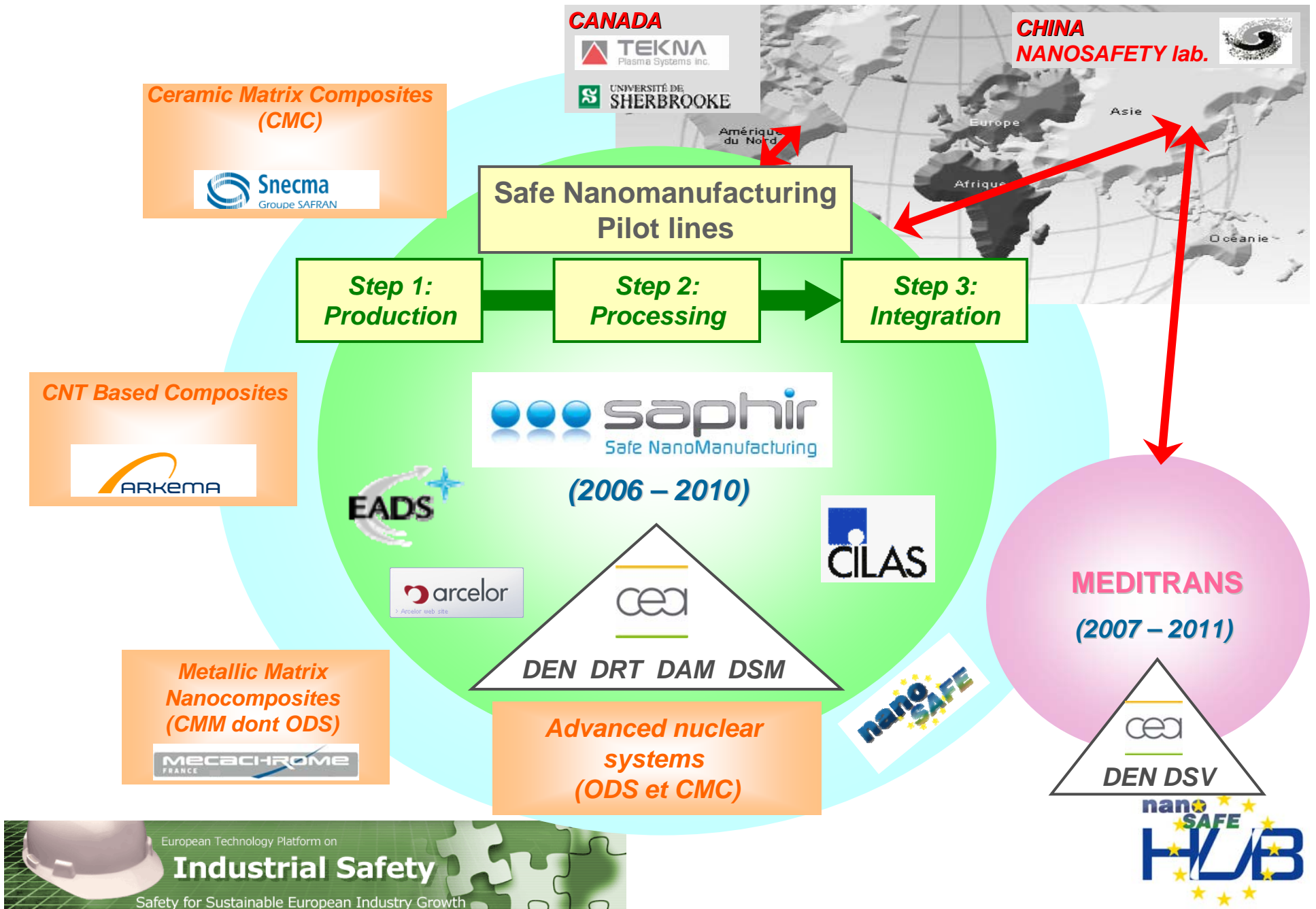
SP3 :
Development of secure industrial production systems and safe applications

SP4 :
Health, societal and environmental aspects

SP5 :
Project Management



A global approach on Safe Nanomanufacturing



Objectives of the Nanosafety Hub

- Sharing the knowledge in the field of nanosafety
- Proposing new projects through the ETPIS SRA
- Increasing contacts and cooperation among projects to avoid duplication of effort and more efficient use of resources



Objectives of the Nanosafety Hub

Development of advanced detection technologies

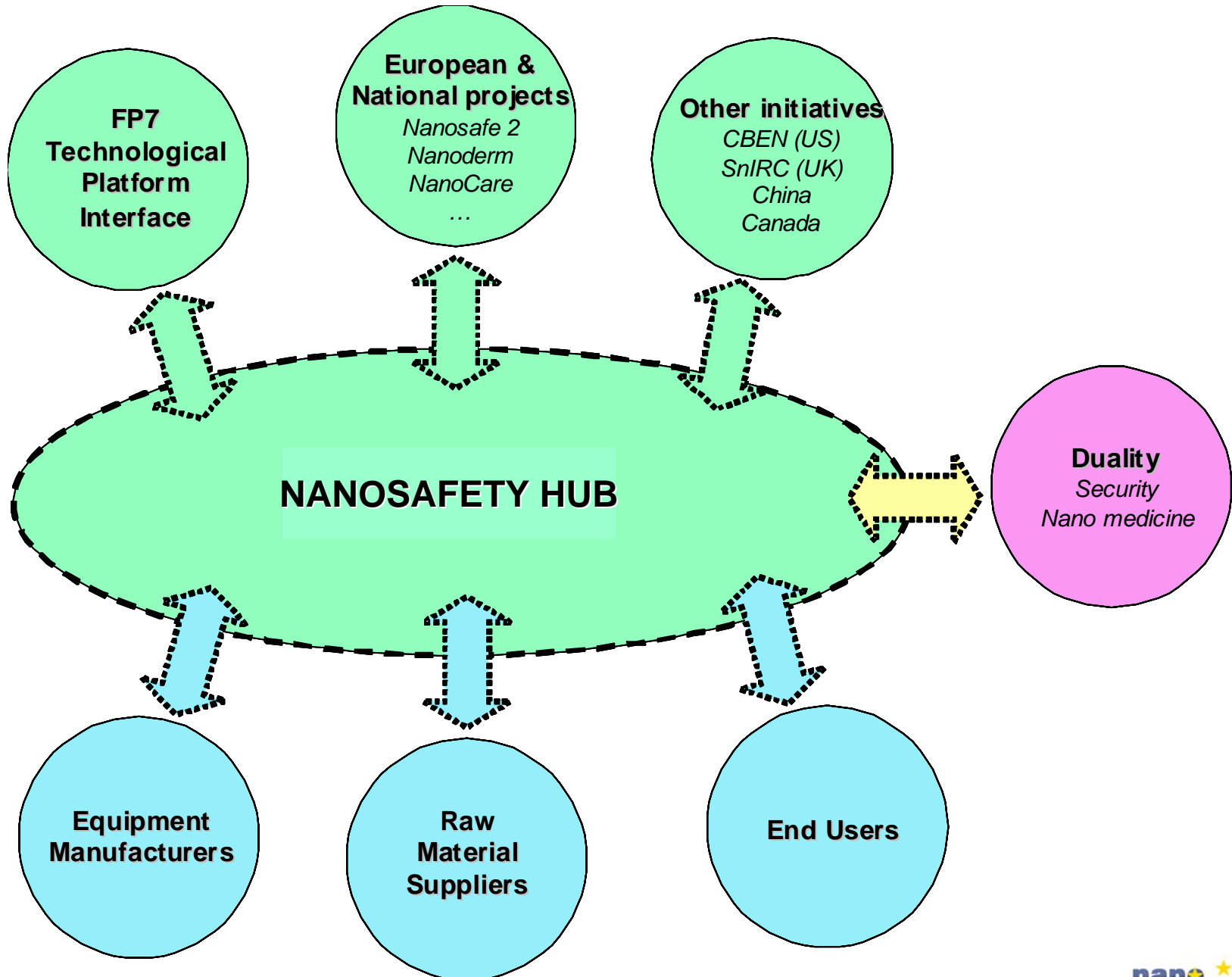
Development of secure industrial processes
Design of « safe factory for nano's »

Data collection at global level on
Health & Safety & Environmental aspects

Demonstration Platforms
for
Safe Nanomanufacturing

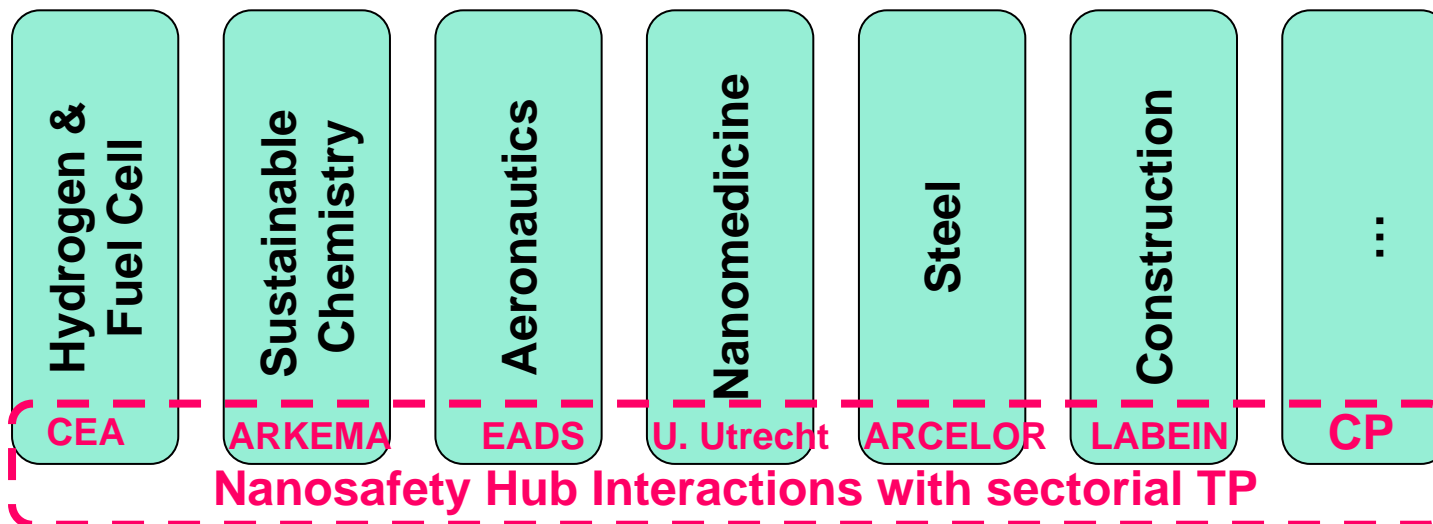
Virtual Lab
for
Nanosafety

Data base
Internet educational courses



Trans-platform cross fertilisation

- Collection of generic aspects for the development of safe processes through strong interactions with sectorial European Technology Platforms dealing with nanomanufacturing
- 1 contact point in each sectorial TP (CP)



ETPIS internal interactions

- The objective is to develop benefits through interaction with the other focus group of ETPIS
- Adaptation of generic tools for safety approach to safe nanomanufacturing (1 contact point in each focus group)



Amplification factor through national technology platforms mirror groups (ex: France with ECRIN)

The screenshot shows the website for 'Nanomatériaux & Sécurité'. The header includes navigation links: 'public | membres | plan du site | contactez-nous | À propos | Portail | Calendrier | Glossaire |' and a search bar with a 'Recherche' button. The main content area features a banner with the text: 'L'émergence de nouveaux procédés de synthèse et de nouveaux types de nanoparticules nécessite dès maintenant la mise en place de moyens et de structures spécifiques pour identifier puis lever les verrous technologiques tout en garantissant la santé et l'environnement de l'homme.' Below this is an article titled 'La prise en compte des risques liés aux nanoparticules', posted by Charikane Eric on 2005-09-05. The article description states: 'Le CEA vient de publier Clefs CEA n°52 (été 2005) intitulé "Le nanomonde : de la science aux applications". Dans leur article "La prise en compte des risques liés aux nanoparticules", Florence Rouillon et François Tardif (Direction de la recherche technologique - CEA Grenoble) y proposent une introduction aux questions actuelles concernant les nanoparticules et leur toxicité éventuelle sur l'homme et l'environnement.' To the right of the article is a sidebar with 'Upcoming events' listing a workshop on carbon nanotubes and nanosciences, a 'Menu' with 'messages récents' and 'nouvelles', and a 'Type de document' section listing 'agenda (2)', 'articles (1)', and 'brèves (1)'. The bottom of the page features two logos: 'European Technology Platform on Industrial Safety' and 'nanoSAFE HUB'.

Cooperation at global level

- The main vector of the cooperation will be the global players (Arkema, BASF, P&G, Degussa...)
- Other initiatives
 - *Cooperation with ICON Data Base (Rice Univ.)*
 - *Cooperation with Nano Quebec (Guide for good practice)*
 - *Nanosafety Lab (Univ of Beijing/China)*
 - *Industrial federations & associations*



Nanosafety Hub Priorities for 2007

- Organisation of an international workshop on detection technologies used for nanomaterials
- Organisation of an international workshop on Life Cycle management of nanomaterials