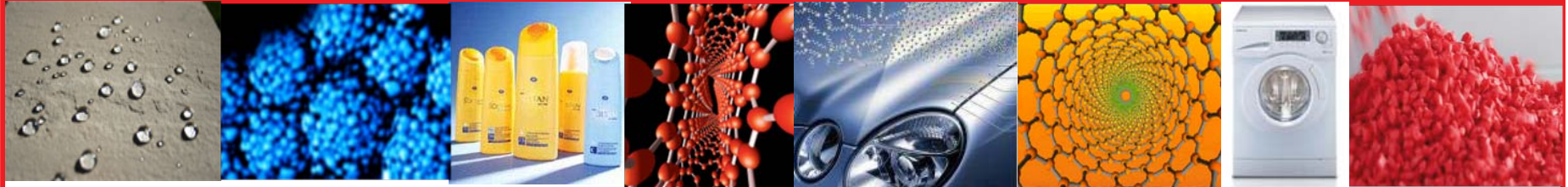


# NanoSEE

## Nanomaterials industry Status and Expected Evolution



# Content

## **Introduction**

- **Definitions : Nanotechnologies & Nanomaterials**
- **Nano-objects and nanocomposites : Production methods and technical challenges**

## **Functions granted by nanoparticles and CNT**

### **Nanoproducts**

- **Categories**
- **Geographical breakdown**
- **Types of nanomaterials used**
- **Examples**

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- **Business models and evolutions**
- **Market players : general overview**
- **Market data & industry trends**
- **Mapping of functions and applications field per type of nano objects**
- **Market estimation for Nanoparticles and CNT**
- **Market estimation per application field**
- **Nano-objects industry evolution**

### **Nano-objects description**

- **Nanoparticles**
- **Nanoclays:**
  - products, market players, main applications and market trends
  - Case studies : Nanocor, Southern Clay Products

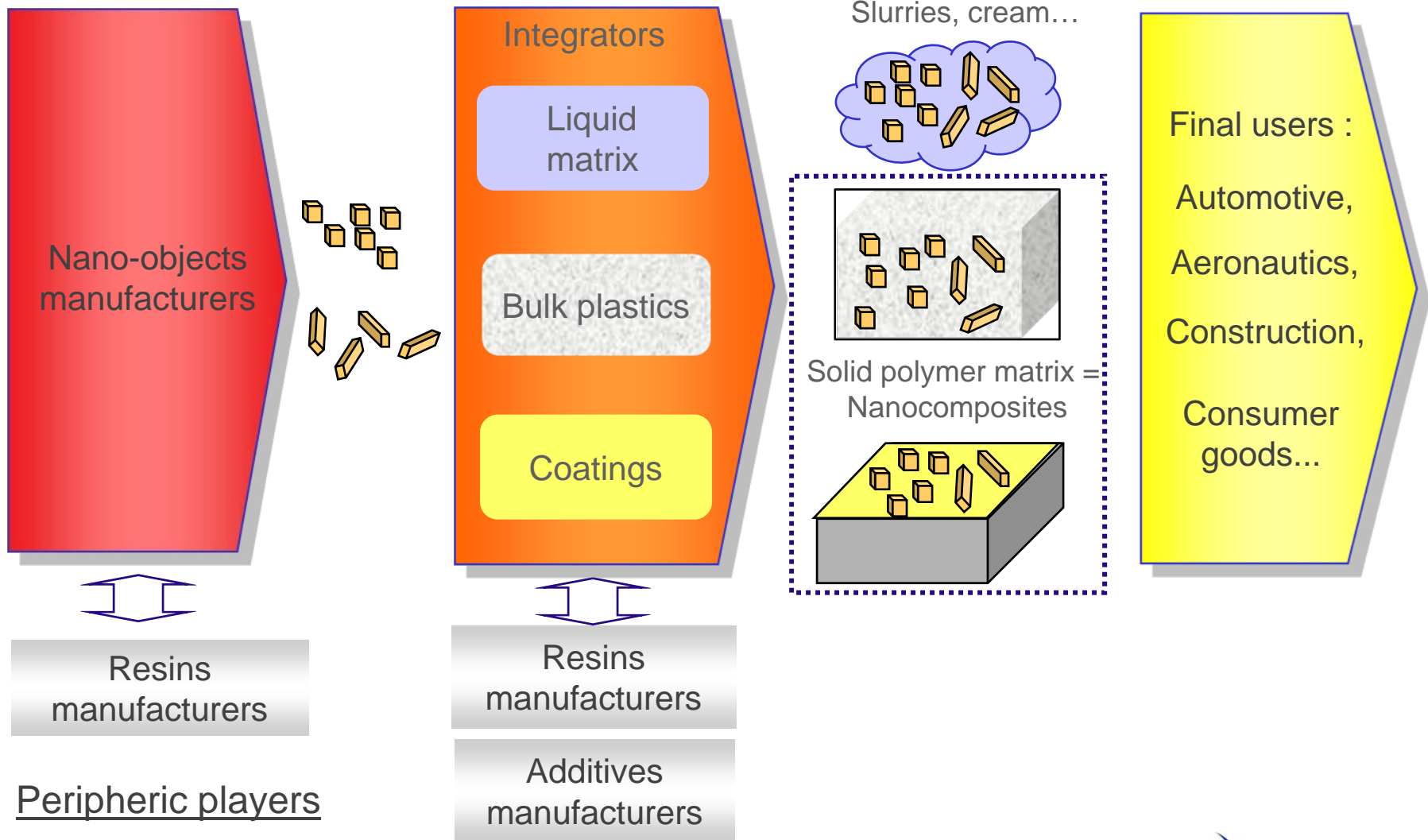
# Content

## **Nano-objects description (ctn'd)**

- **Nanoparticles**
- **Nanoclays:**
- **Colloidal silica:**
  - products, market players, main applications and market trends
  - Case studies : Nyacol, Eka Chemicals, Nanoresin
- **Other metal oxides nanoparticles:**
  - products, market players, main applications and market trends
  - Case studies : Nanophase, Evonik Degussa, Nanogate
- **Carbon Nanotubes (CNT)**
  - CNT producers, production capabilities, geographical breakdown
  - Products, main applications and market trends
  - Case studies : Arkema, Bayer Bayer Material Science, Hyperion, Unidym, Zyvex
- **Other nano-objects and their main applications**
  - fullerenes, quantum dots, nanocapsules, nanofibers, nanoporous.

## **Conclusions**

# Nano-objects and nanocomposites food chains



# Some example of nanotech products



Nanochemical Systems Holding  
Automotive SunScreen



Mercedes Clearcoat



Nano Care Technology Ltd  
Antibacterial kitchen ware



Smith & Nephew  
Acticoat wound dressing



Samsung "Silver Nano"  
Washing Machine



Nanogate Technologies GmbH  
Functional coatings



Nanodesu X Bowling Ball  
American Bowling Service Company



Babolat  
NS Tour tennis racket



Gap Inc  
Nanocare Stressfree Khakis



Boots, Oxonica Ltd  
Soltan® Facial Sun Defence  
Cream - Optisol®



Nanoprotect CS  
Nanotec Pty Ltd



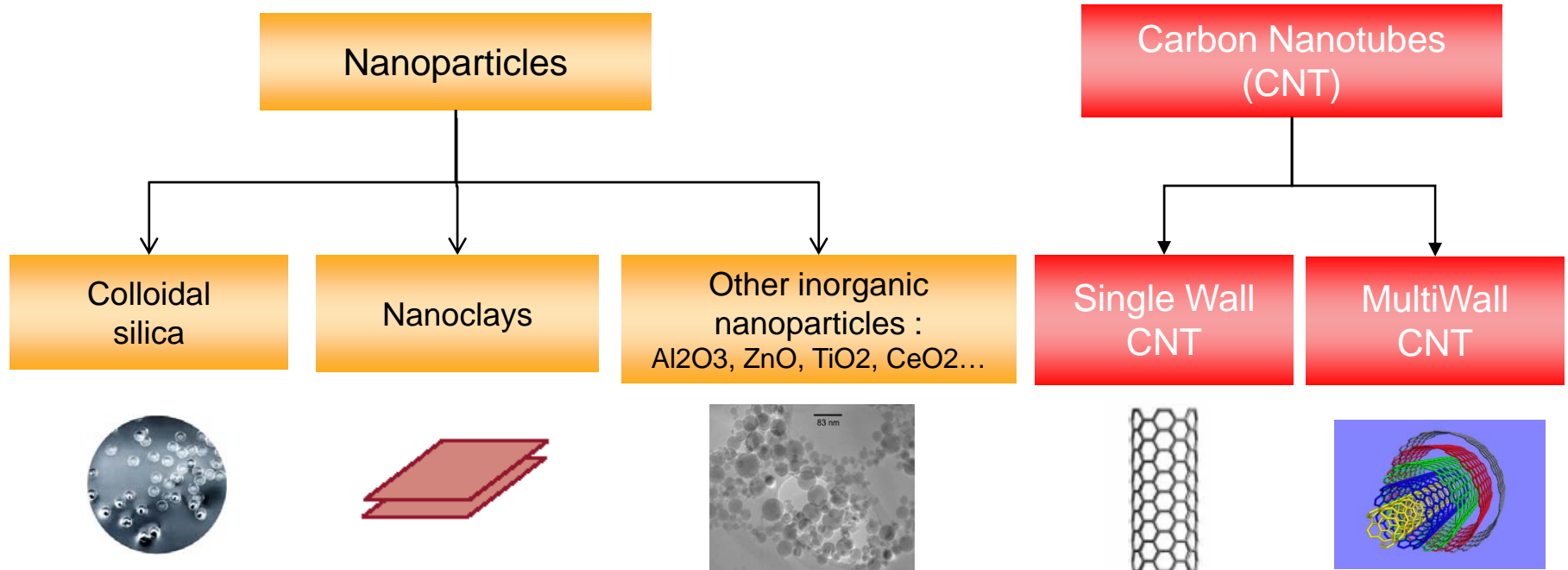
RF shielding paint  
NaturalNano Inc



Non-stick self-  
assembling  
nanofilms for  
glass bakeware  
NanoFilm Ltd

## 4. Nano-objects description

# Nano-objects categories



# Examples of Nanotubes producers

