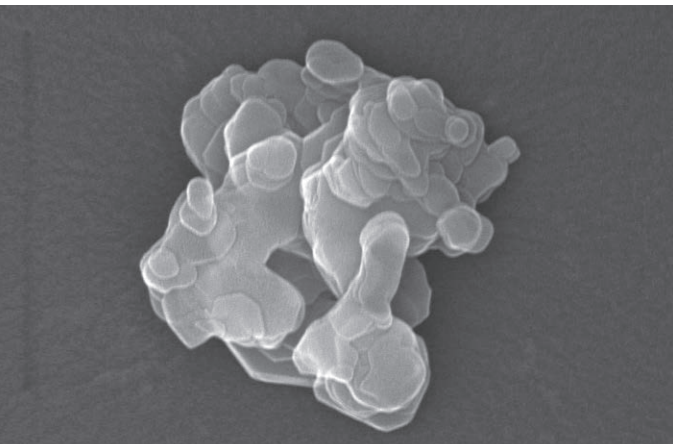
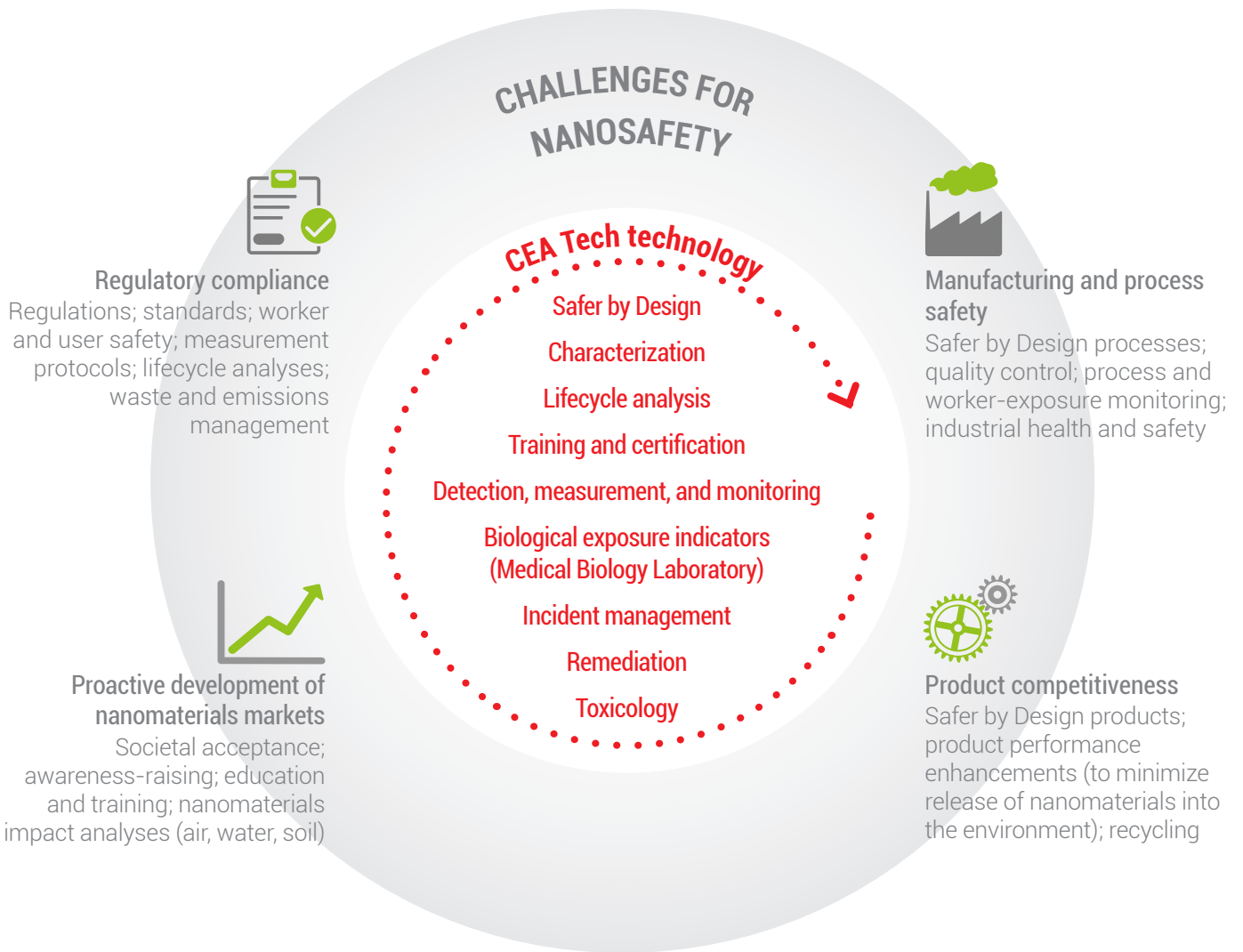




# CEA TECH SERVICES FOR NANOSAFETY

Technology for nanosafety challenges:



## CEA Tech can help the following businesses:

- Manufacturers of nanomaterials
- Companies that integrate nanomaterials in industries such as transportation, construction, chemicals, steel, microelectronics, aerospace, and others
- Waste collection, sorting, and treatment companies
- Environmental and health monitoring organizations

Here are some of the ways CEA Tech can support your development:



***Nanomaterials and Safer by Design processes***

Nanomaterials and Safer by Design; choice of powders vs. solutions; surface engineering; synthesis and supply of calibrated reference nanoparticles

***Characterization***

Characterization of substances (including in complex environments); regulatory compliance systems; process optimization; product quality control and monitoring; nano-object identification

***Workstation and environmental measurement***

Detection, identification, measurement, and monitoring; detection of air and water emissions

***Confinement assessment and optimization***

Worker protection; emissions control

***Lifecycle analysis and improved recycling***

Emission testing in real-life conditions; abrasion resistance; dissemination in the environment and traceability; end-of-life product recycling

***Toxicology and ecotoxicology***

Toxicological studies (advanced and for regulatory compliance)

***Testing for biological exposure and impact indicators***

Biological monitoring of potentially-exposed workers (Medical Biology Laboratory)

***Nanosafety consulting***

Analysis of existing safety systems in normal operating and incident conditions; assessment of personal and collective protective equipment and recommendations for use; risk assessments; employee and community education and outreach; regulatory compliance

***Continuing education via the CEA's nuclear engineering school***

Continuing professional development, inter-company training courses, and custom training courses including nanosafety awareness-raising; NanoCert certificate programs in partnership with INERIS for operators, prevention workers, incident-response workers, and emergency workers

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