

## Initial Approach of the ASINA Project to the Real World

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Anticipating Safety Issues at the  
Design Stage of NANO Product

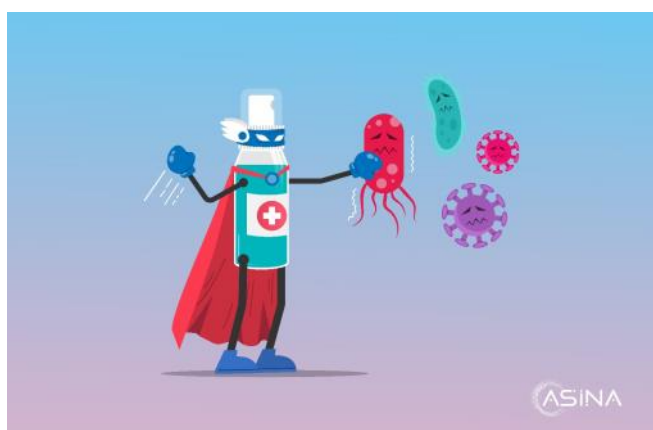
ASiNA's mission to use a bottom-up approach to the development of SbD products, thus ASiNA's first step has been the definition of real case studies from the two value chains (VC) of the project:

- VC1 Antimicrobial / depolluting coatings
- VC2 Nanostructured capsules delivering active phases in cosmetics

ASiNA companies have been asked to offer information about their needs, and problems encountered during the production of nano-enabled products. For VC1, three products have been identified: photocatalytic filters, photocatalytic illumination system and coated textiles, while for VC2, anti-aging and antimicrobial creams are the actual case studies.

For all these case studies, ASiNA partners are investigating technical functions as well as the existence of ranges of acceptability, such as safety; life fate of nanomaterials; their potential impacts on human and environmental health; performances; and in some cases the potential for nanomaterial regeneration (VC1); or in other cases their compatibility with other components within cosmetic formulations (VC2); life-cycle impacts and cost evaluations.

Furthermore, ASiNA is putting in place a platform of test beds and pilot plants available to ASiNA industrial and academic partners, to produce nanomaterials and nano-enabled products, matching safety and sustainability by design criteria. Core technologies available in ASiNA partners' facilities (spray coating, screen printing, dip coating and dip padding, spray freeze drying) will be adapted and dedicated to the production of ASiNA nano-enabled products (NEPs), providing the physical accessibility to life-cycle scenarios for optimisation trials, prior to the scale-up and validation within ASiNA pilot plants.



VC1 Antimicrobial / depolluting coatings



VC2 Nanostructured capsules delivering active phases in cosmetics

### About ASiNA

ASiNA has the ambition to promote consistent, applicable and scientifically sound Safe-by-Design nano-practices, considering all the of nano-enabled products design dimensions: functionality, production technologies, safety, environmental sustainability, cost effectiveness and regulatory requirements, in line with research responsible innovation policy.

**For more information:** <https://www.asina-project.eu/>

**See the latest ASiNA vacancy in our Jobs section**