The Industry Guidance Platform for the development of safe nanomaterials and nano-enabled products

An Industry Guidance Platform

SAbyNA aims to provide the industry with a user-friendly, customized and integrative Guidance Platform to support the development of safer nanomaterials and nano-enabled products.

The SAbyNA Guidance Platform will provide the criteria and guidance to support the selection and implementation of the Safe by Design strategies as early as possible in industrial innovation process.

Why SAbyNA?

Numerous organizations have produced guidance documents with the aim of improving risk management of nanomaterials and protecting health of workers, consumers and environment. Many types of nanoforms and uses exist and the human and environmental health risks may vary profoundly.

SAbyNA aims to improve the usability of existing databases, test methods, models, frameworks and tools and integrating them into an interactive and user-friendly web-based guidance.

DATABASES

eNanoMapper

NanoCommons
Nano-Knowledge Community

ACEnano

NIKC

perosh

And more

DOCUMENTS AND GUIDELINES

ECHA
EUROPEAN CHEMICALS AGENCY

World Health Organization

OECD

NIOSH

ISO

cen

European Commission

And more

METHODS, MODELS AND TOOLS

caLIBRAte
nano risk governance

NanoSolveIT

NANORIGO

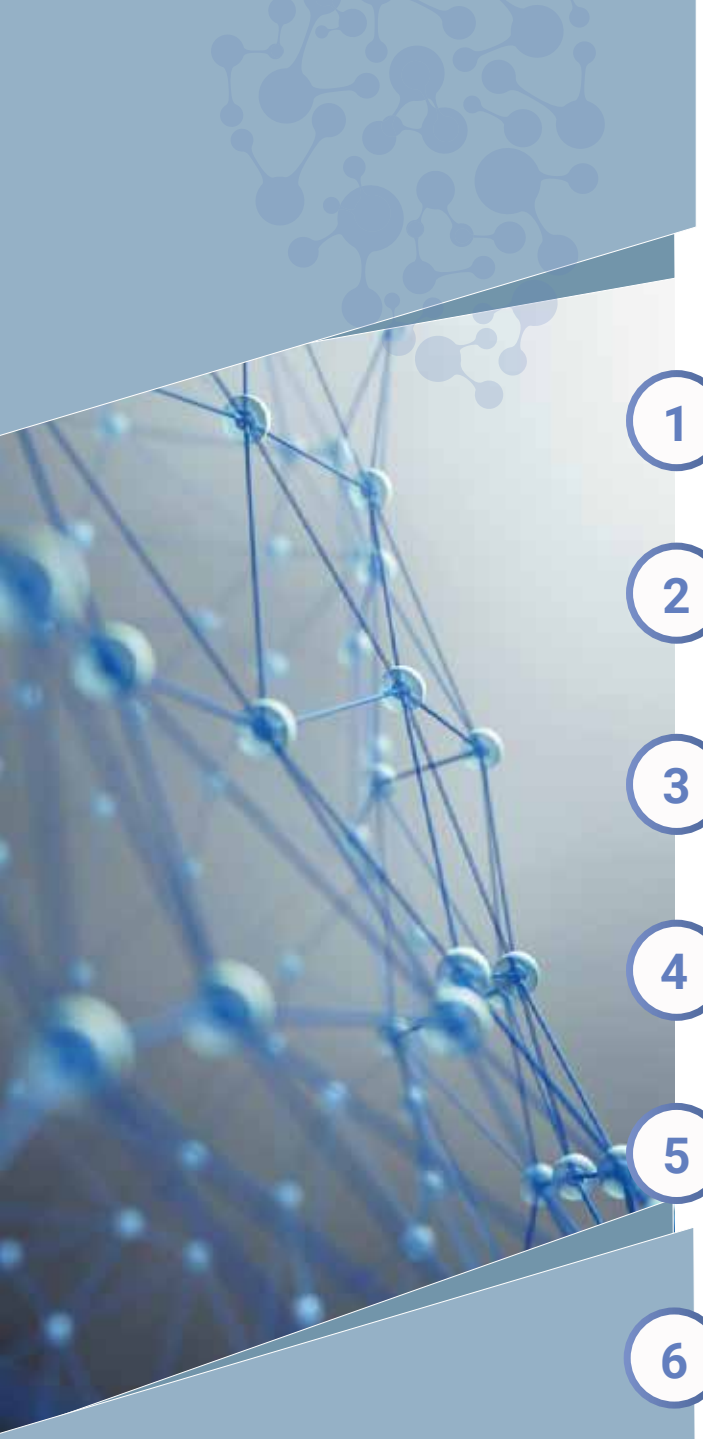
SUN

GUIDEnano

gracious

Gov4Nano
meeting the needs of nanotechnology

And more



SPECIFIC OBJECTIVES

1. Map and establish hierarchies of the most relevant existing resources that can support safe by design of nanotechnology.

2. Establish simple, robust and cost-effective human and environmental hazard, exposure, and risk assessment strategies.

3. Improve usability of existing tools for risk identification and risk assessment, with a special focus of GUIDEnano.

4. Propose safe by design strategies to eliminate or reduce risks at the design stage of industrial innovation process.

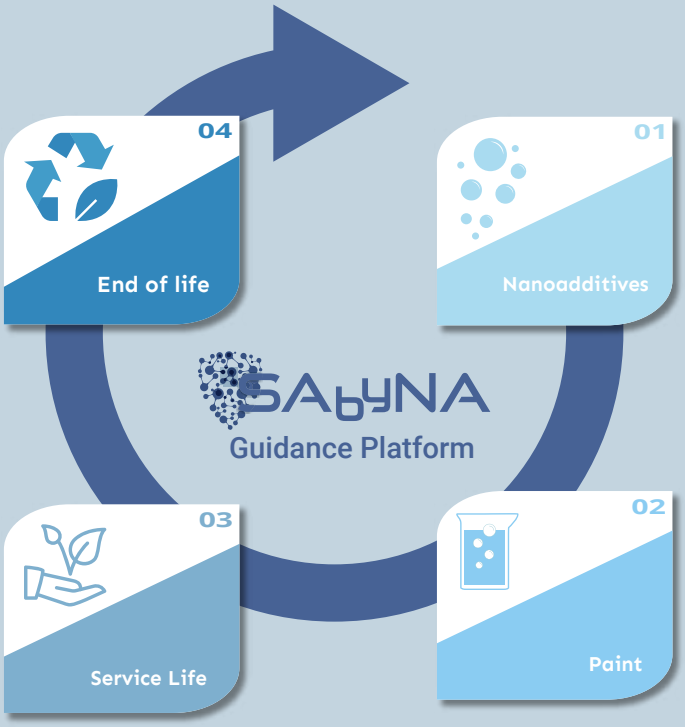
5. Develop the SAbyNA Guidance Platform integrating selected resources to propose safe by design strategies to maximize safety while maintaining product functionality.

6. Implement and validate the applicability of the SAbyNA guidance platform in 3D printing and paints sectors.

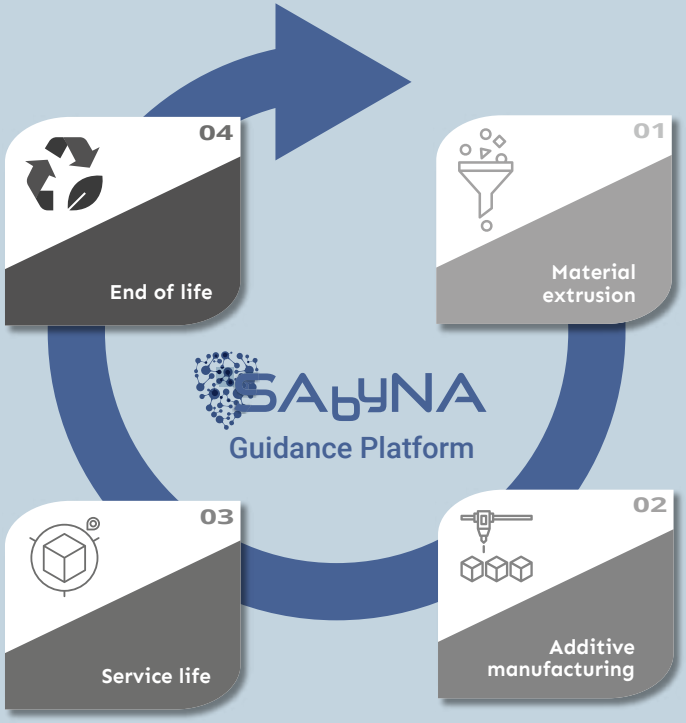
SECTOR-SPECIFIC CASE STUDIES

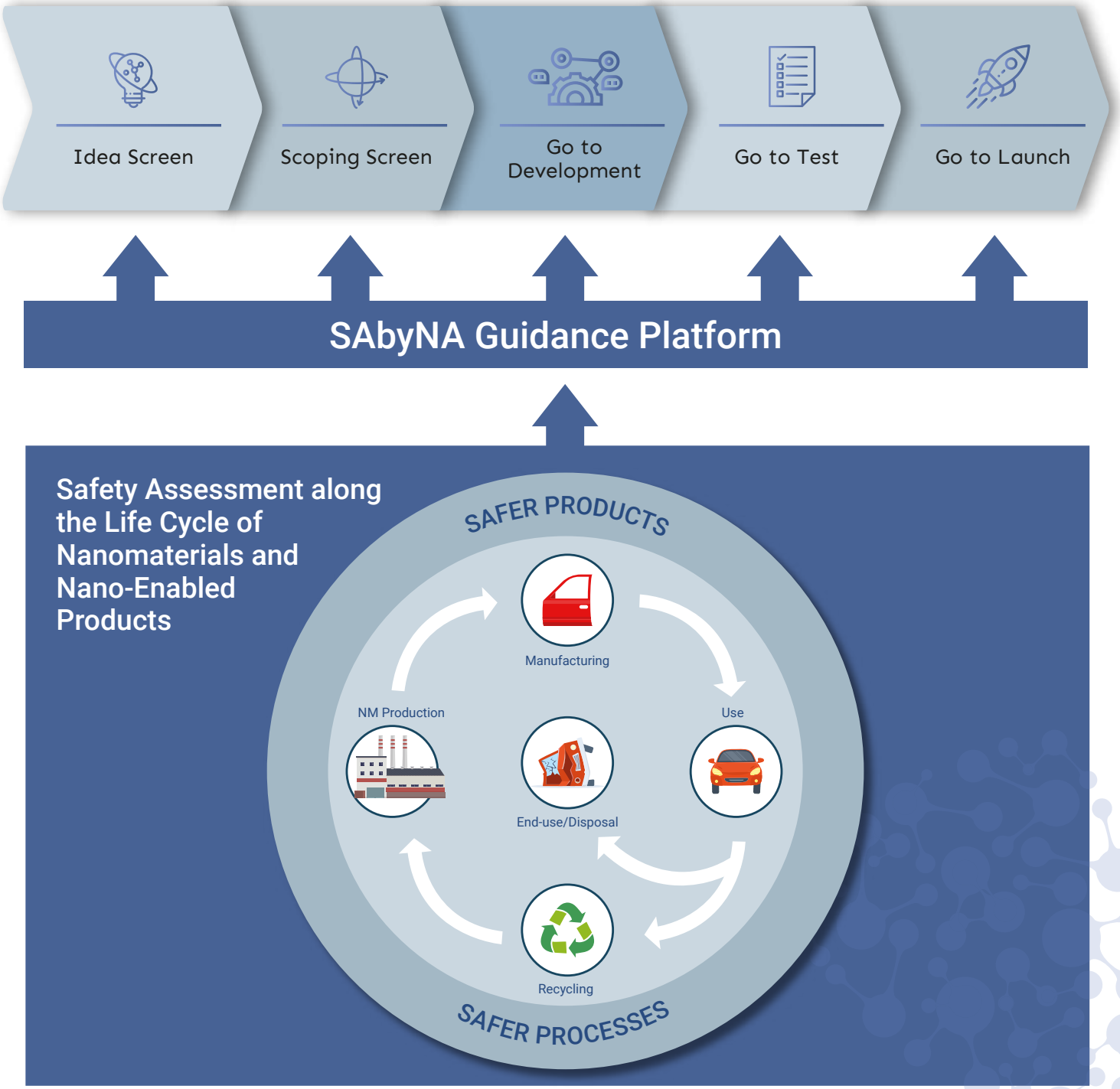
Demonstrating the applicability of the SAbyNA Guidance Platform in two main sectors for safety assessment along the product life-cycle

PAINT SECTOR



3D PRINTING SECTOR




Idea Screen
Scoping Screen
Go to Development
Go to Test
Go to Launch
SAbyNA Guidance Platform
Safety Assessment along the Life Cycle of Nanomaterials and Nano-Enabled Products
SAFER PRODUCTS
Manufacturing
Use
End-use/Disposal
Recycling
NM Production
SAFER PROCESSES

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