

SABYDOMA

A control system solution to Safety BY Design Of nanoMAterials

Main Goal of the Project

New methodology and technology to address the existing challenges of Safety-by-Design (SbD) as a control tool for the production of safe(r) nanomaterials, i.e., **addressing the SbD as a Control System Problem.**

Project Outcomes

Coupling rapid screening with online production to enable safe(r) nano-manufacture and advance materials.

New technology & modelling approaches and software for real world industrial applications: **Demonstrator for online production of safe(r) nano.**

Industrial Case Studies

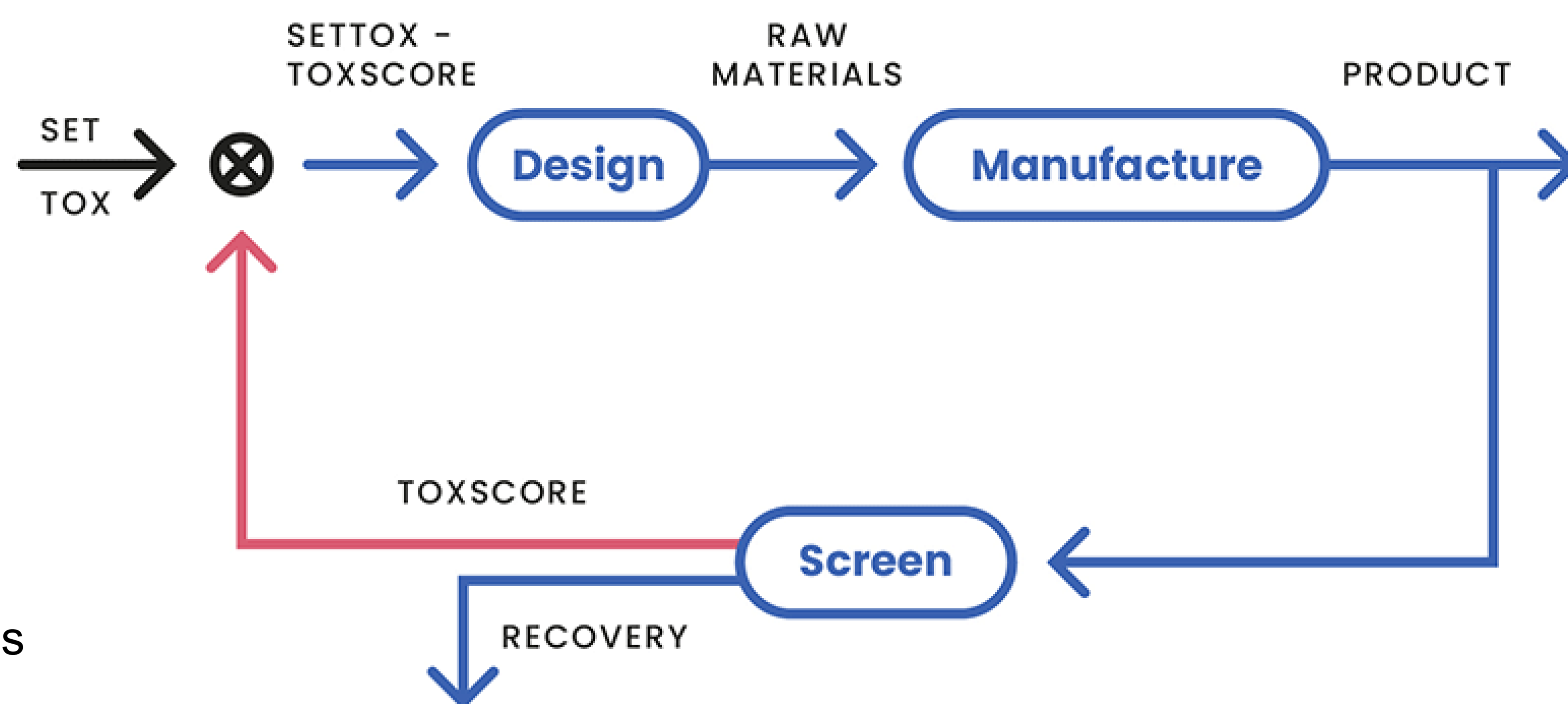
Case Study 1
Safe Ag (and CuO) NP colloids production

Case Study 3
Composite electroplating

Case Study 2
Coated dental implants

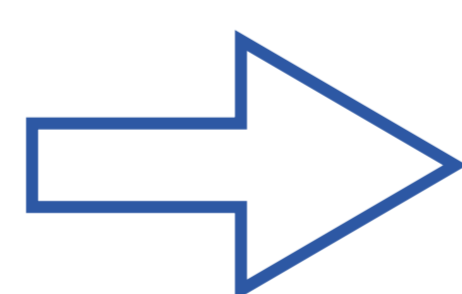
Case Study 4
Safe TiO2 production

SbD technologies developed within four industrial Case Studies involving the **production, use and function of engineered NM.**



Stakeholders

- Regulators
- Industry
- Researchers
- Public health
- Health providers
- Public utilities



Benefits

- Minimisation of manual handling
- Faster and more reliable procedures for safety of NM
- Bespoke manufacturing of NM
- Screening at point of production
- Less waste
- More recyclability
- “Plug & Play” technology
- Safe(r) products in the market



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