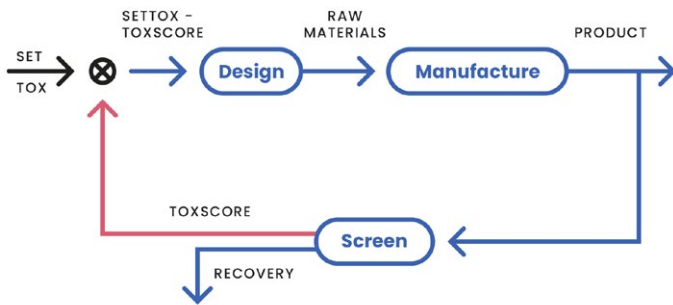


About SABYDOMA

The first ideas for the project were developed originally to solve issues of environmental pollution and climate change. SABYDOMA is based on the technology developed in the EU H2020 HISENTS project, which builds a high-throughput flow through platform for screening nanomaterials using multiple sensor elements; and, aims to develop a Lead Demonstrator which will be used for the flow-through production of safe nano.



The key to Safety-by-Design (SbD) is directly coupling screening to production.

Objectives

SABYDOMA's overarching aim is to develop the SbD paradigm from the highest level to the reductionist one, in order to implement faster, more effective and cost-effective protocols. It will do this by focusing on four technological processes where existing SbD platforms will be developed from TRL4 to TRL6 demonstrating their operation in the relevant industrial environment.

Project Summary

SABYDOMA addresses developments in the safety by design (SbD) paradigm by examining four industrial case studies in detail where the Technology Readiness Levels (TRLs) will advance from 4 to 6.

Each TRL activity progresses from being lab based at TRL4 to being industry based at TRL6. The TRL4 activity involves only innovation with regular industrial communication whereas the TRL6 activity involves industrially located activities with innovation communication.

One of the novel themes of this study is to use system control and optimisation theory including the Model Predictive Control philosophy to bind the whole subject of SbD from laboratory innovation to the industrial production line and from decision making processes to project governance.

Meet our Team

SABYDOMA's team consists of 15 EU and 4 international partners (Universities, Research centres, SMEs) distributed across 15 countries: Austria, Bulgaria, Cyprus, Finland, France, Germany, Greece, Norway, Portugal, Spain, UK, Ukraine; international countries: Australia, Hong Kong and the Republic of Korea.

All partners contribute actively to the project, ensuring the flow of ideas and projects results to the wider community.



To learn more visit: www.sabydoma.eu