INDTECH2018

Innovative industries for smart growth

29-31 October, 2018 Vienna, Austria

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PILLAR 2

Session 2.1

The role of research in supporting safe innovation in the nanotechnology industry

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University of Birmingham

30 October 2018





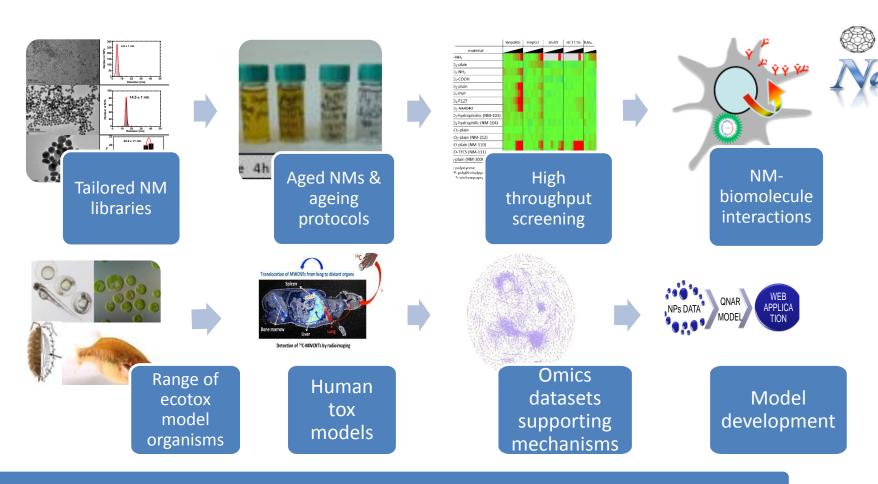






Examples from a past project

ENM mechanisms of interactions with living systems and the environment: a universal framework for safe nanotechnology



Large characterization & toxicity datasets

Examples from a current project

Analytical and Characterisation Excellence in nanomaterial risk assessment: A tiered approach – ACEnano



ACEnano

Tool box Buil ding

Tr aining cascade concept

Data war ehousE buil ding

Method Innovation __Training _ core cohort experts gathering
from other projects

Optimisation & benchmarking

Community training 3 EU locations Phase 2
Data management

Streamlining of workflow Guidance & Decision trees

Roll-out online on-demand training and proficiency tools

Phase 3

system & ontology

Data Warehouse & provisioning toolbox

Reliable key descriptors

Online SOPs & video protocols

Skilled/proficient endusers

Easy access to key relevant data

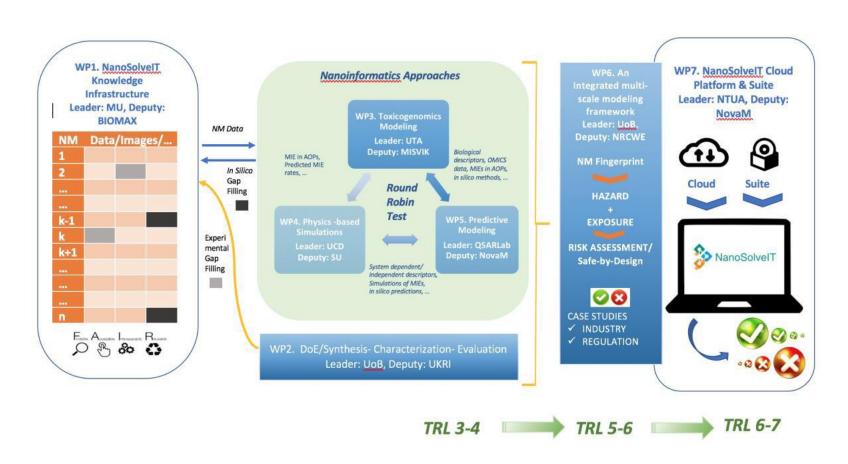
Efficient "fit for purpose" characterisation

Increased product confidence – including "on market" processes

Delivering analytical solutions for nanosafety

Examples from a future project

Innovative Nanoinformatics models and tools: towards a Solid, verified and Integrated Approach to Predictive (eco)Toxicology





Future nanoinformatics solutions



Thank you



= Federal Ministry

Republic of Austria

and Technology

Transport, Innovation



