caLIBRAte
nano risk governance

caLIBRAte
nano risk governance

USER TESTING SESSIONS ON ADVANCED MODELS FOR DECISION-MAKING AND RISK MANAGEMENT OF NANOMATERIALS

Summary of key features and application domains of the models

Nanosafer CB

Control banding nanotool

Stoffenmanager Nano

LICARA nanoscan

SimpleBox4Nano (SB4N)

Swiss Precautionary Matrix

GUIDEnano

SUNDs

INFORMATION AND REGISTRATION

HERE

USER TESTING SESSION: NANOSAFER CB AND CB NANOTOOL

Nano Safer Control Banding (**website**)**:** Occupational health and safety risks of nanomaterials. Output: control bands with associated risk management recommendations. Application domains include: powder handling, processes with time-dependent constant release rates (eg. leaks and fugitive sources), mechanical reduction, spray processes

Control Banding NanoTool (**website**): Occupational health and safety risks of nanomaterials in the R&D labs. Output: severity and probability risk matrix. Application domain: In principle anything that can result in airborne release and assessed by mistiness or dustiness.

Owner of the models: National Research Center for the Working Environment (NRCWE), DK

Type of user testing session and location: workshop, Denmark

Organizers: NRCWE and caLIBRAte project

Info, program updates and registration: see caLIBRAte website for details.

Key features and application domains of the models		Nanosafer CB	CB Nanotool
TARGET USERS	Researcher/Technician	✓	✓
	CEO/R&D Manager/Coordinator/Planner	✓	✓
	Workers and users representatives	✓	✓
	Safety Manager, Consultant	✓	✓
	Insurers	✓	✓
	Regulators, authorities, inspectors	✓	
	Focus on SMEs		
DOMAIN	Workers (R&D labs)		✓
	Workers (All)	✓	✓
	Users & Consumers		
	Environment		
	Waste/end-of-life		
	All Lifce Cycle		
OUTPUT	Human Risk Assessment	✓	✓
	Environmental Risk Assessment		
	Risk-Benefit / Social Impact Assessment		
	Risk Management	✓	
TYPE OF OUTPUT	Qualitative/predictive	✓	✓
	Semi-quantitative		
	Quantitative		

USER TESTING SESSION: STOFFENMANAGER NANO AND LICARA NANOSCAN

Stoffenmanager Nano (**website**)**:** Risk analysis focusing on occupational health. Output: control risk bands and mitigation measures

LICARA Nanoscan (**website**): Risk-benefit analysis (including economic, environmental and social opportunities) by comparing nano-enabled products with the conventional products over all life-cycles. Focus on SMEs

Owner of the models: TNO, NL

Type of user testing session: Webinar

Organizers: TNO, AIRI; NIA and caLIBRAte project

Info, program updates and registration: see caLIBRAte website for latest details.

Key features and application domains of the models		Stoffenmanager Nano	Licara Nanoscan
TARGET USERS	Researcher/Technician	✓	✓
	CEO/R&D Manager/Coordinator/Planner	✓	✓
	Workers and users representatives		✓
	Safety Manager, Consultant	✓	
	Insurers	✓	
	Regulators, authorities, inspectors		
	Focus on SMEs		✓
DOMAIN	Workers (R&D labs)		
	Workers (All)	✓	✓
	Users & Consumers		✓
	Environment		✓
	Waste/end-of-life		
	All Lifce Cycle		✓
OUTPUT	Human Risk Assessment	✓	✓
	Environmental Risk Assessment		✓
	Risk-Benefit / Social Impact Assessment		✓
	Risk Management	✓	
TYPE OF OUTPUT	Qualitative/predictive	✓	✓
	Semi-quantitative		
	Quantitative		

USER TESTING SESSION: SIMPLEBOX4NANO (SB4N)

SimpleBox4.0-Nano (SB4N) (**website**)**:** Environmental exposure assessment - Screening level. SB4N provides predicted environmental concentrations for different environmental media. SB4N is based on SimpleBox, which is embedded in EUSES, the Risk Assessment toolbox for use in REACH. As an LCA impact model. SB4N is used for calculating fate factors for substances and nanomaterials

Owner of the models: RIVM, NL

Type of user testing session: Webinar

Organizers: RIVM, AIRI; NIA and caLIBRAte project

Info, program updates and registration: see caLIBRAte website for latest details.

Key features and application domains of the models		SimpleBox4Nano (SB4N)
TARGET USERS	Researcher/Technician	✓
	CEO/R&D Manager/Coordinator/Planner	
	Workers and users representatives	
	Safety Manager, Consultant	✓
	Insurers	
	Regulators, authorities, inspectors	✓
	Focus on SMEs	
DOMAIN	Workers (R&D labs)	
	Workers (All)	
	Users & Consumers	
	Environment	✓
	Waste/end-of-life	✓
	All Lifce Cycle	✓
OUTPUT	Human Risk Assessment	
	Environmental Risk Assessment	✓
	Risk-Benefit / Social Impact Assessment	
	Risk Management	
TYPE OF OUTPUT	Qualitative/predictive	✓
	Semi-quantitative	
	Quantitative	✓

USER TESTING SESSION: SWISS PRECAUTIONARY MATRIX

Swiss Precautionary Matrix: Risk screening in an early stage-gate (**website**)

Owner of the models: Federal Office of Public Health (FOPH), CH

Type of user testing session: Webinar

Organizers: EMPA, FOPH, AIRI, NIA and caLIBRAte project

Info, program updates and registration: see caLIBRAte website for latest details.

Key features and application domains of the models		Swiss Precautionary Matrix
TARGET USERS	Researcher/Technician	✓
	CEO/R&D Manager/Coordinator/Planner	✓
	Workers and users representatives	
	Safety Manager, Consultant	✓
	Insurers	✓
	Regulators, authorities, inspectors	
	Focus on SMEs	✓
DOMAIN	Workers (R&D labs)	
	Workers (All)	✓
	Users & Consumers	✓
	Environment	✓
	Waste/end-of-life	✓
	All Lifce Cycle	
OUTPUT	Human Risk Assessment	✓
	Environmental Risk Assessment	✓
	Risk-Benefit / Social Impact Assessment	
	Risk Management	
TYPE OF OUTPUT	Qualitative/predictive	✓
	Semi-quantitative	
	Quantitative	

USER TESTING SESSION: GUIDENANO

GuideNano (**website**)**:** Assessment and mitigation of human and environmental health risks of nano-enabled products.

Owner of the models: LEITAT, ES

Type of user testing session: Webinar

Organizers: LEITAT, AIRI, NIA and caLIBRAte project

Info, program updates and registration: see caLIBRAte website for latest details.

Key features and application domains of the models		GuideNano
TARGET USERS	Researcher/Technician	✓
	CEO/R&D Manager/Coordinator/Planner	✓
	Workers and users representatives	✓
	Safety Manager, Consultant	✓
	Insurers	✓
	Regulators, authorities, inspectors	
	Focus on SMEs	
DOMAIN	Workers (R&D labs)	
	Workers (All)	✓
	Users & Consumers	✓
	Environment	✓
	Waste/end-of-life	
	All Lifce Cycle	✓
OUTPUT	Human Risk Assessment	✓
	Environmental Risk Assessment	✓
	Risk-Benefit / Social Impact Assessment	
	Risk Management	
TYPE OF OUTPUT	Qualitative/predictive	
	Semi-quantitative	✓
	Quantitative	✓

USER TESTING SESSION: SUNDs

SUNDs (**website**): Risk-benefit analysis along the life-cycle. Output: risk bands, quantitative Risk Assessment and Risk Management measures recommendations

Owner of the models: the SUN Project

Type of user testing session and location: Workshops (the Netherlands and Germany);

Organizers: Green Decision, University of Venice, AIRI, NIA and caLIBRAte project

Info, program updates and registration: see caLIBRAte website for latest details.

Key features and application domains of the models		SUNDs
TARGET USERS	Researcher/Technician	✓
	CEO/R&D Manager/Coordinator/Planner	✓
	Workers and users representatives	✓
	Safety Manager, Consultant	✓
	Insurers	✓
	Regulators, authorities, inspectors	✓
	Focus on SMEs	
DOMAIN	Workers (R&D labs)	
	Workers (All)	✓
	Users & Consumers	✓
	Environment	✓
	Waste/end-of-life	
	All Lifce Cycle	✓
OUTPUT	Human Risk Assessment	✓
	Environmental Risk Assessment	✓
	Risk-Benefit / Social Impact Assessment	✓
	Risk Management	✓
TYPE OF OUTPUT	Qualitative/predictive	✓
	Semi-quantitative	✓
	Quantitative	