

5th EU-ASIA DIALOGUE ON NANOSAFETY &
19th ASIA NANO FORUM SUMMIT (ANFoS2022)

5th EU-Asia Dialogue on Nanosafety

“International Network Initiative on Safe & Sustainable Nanotechnology (INISS-nano)”

Kuala Lumpur, 18 July 2022

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Concept paper



INISS-nano

"This concept paper shall prepare the ecosystem for global collaboration in selected fields of action (see pillars), enabling "collaboration without borders" within joint projects, joint funding initiatives, and any further way of cooperation."

Comments:

Interested colleagues are invited to connect with the coordinators of the initiative. Furthermore, any comments, contributions and remarks that are meant to support INISS-nano are highly welcome and shall be sent to the corresponding author before August 17th 2021 to be taken into account during the revision.

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Keynote 1

Collaboration Potential with the Leading EU-Initiative INISS
Prof. Dr. Flemming Casse, the Netherlands (pre-recorded)

Keynote 2

Infrastructures Across ASEAN to Support Nanosafety
(i) Dr. Pavadee Aungkavattana, Thailand
(ii) Mr. Mohd Helme Helan, Malaysia

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Breakup Session

Pillar 1. Harmonization

Moderator: Dr Steffi Friedrichs

Rapporteur: Ms. Farahin

Pillar 2. Support Industrial Understanding

Moderator: Prof. Dr. Patricia Farias

Rapporteur: Dr. Sharmiza

Pillar 3. Sharing/ Facilitate Sharing or Resources/ Infrastructure

Moderator: Dr Ali Marjovi

Rapporteur: Mr. Salifairuz

Pillar 4. Ethical and Societal Aspects

Moderator: Dr. Ineke Malsch

Rapporteur: Dr. Mohamad Nizam

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Pillar 1. Harmonization

Moderator: Dr. Steffi Friedrichs

Action	Short Term (until 2024)	Medium Term (2025 and beyond)
Pre-standardization	<ul style="list-style-type: none"> ▪ Support Regulatory Preparedness in Nanotechnology [Lead: tbd] ▪ Prioritizing and listing the needs of standards by crowd sourcing approaches [Lead: Hasan Pouypouy] ▪ Promote already available funding mechanisms [Lead: Georges Favre] 	<ul style="list-style-type: none"> ▪ Initiate collaboration with VAMAS [Lead: Georges Favre] ▪ Contribute to identify and prioritize the needs regarding OECD TG implementation documents [Lead: Miguel Banares, Georges Favre, Steffi Friedrichs] ▪ Establish a funded validation program to support the organization of inter-laboratory comparisons [Lead: Georges Favre]
Standardization	<ul style="list-style-type: none"> • Communicate on standardization programme [Lead: Hasan Pouypouy] • Outreaching international experts [Lead: tbd] 	<ul style="list-style-type: none"> • Internationally recognised Standardization Certificates to acknowledge standardization work [Lead: tbd] • Optimize resource allocation for standardization work [Lead: tbd] • Liaison of regional and international standardization organization [Lead: Hasan Pouypouy] • Joint development of standard in the field of: Characterization and measurement methods; Guidelines; Protocols [Lead: tbd]

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Pillar 1. Harmonization

Moderator: Dr. Steffi Friedrichs

Action	Short Term (until 2024)	Medium Term (2025 and beyond)
Nanometrology	<ul style="list-style-type: none"> Promote and facilitate inter-laboratories comparisons [Lead: Georges Favre] Implementation of European Metrology Network [Lead: Georges Favre] 	<ul style="list-style-type: none"> Collaborate with Regional Metrology Organizations [Lead: Georges Favre] Develop collaborative roadmap jointly with regional /international metrology institutes [Lead: Georges Favre, Steffi Friedrichs]
Regulation	<ul style="list-style-type: none"> Sharing and exchange of experiences and policies regarding nanosafety policy, regulations and laws [Lead: tbd] 	<ul style="list-style-type: none"> Organize joint meeting(s) in the field of regulation and laws [Lead: tbd] Promote harmonization approaches among regional/ international regulatory bodies [Lead: tbd]
Capacity building	<ul style="list-style-type: none"> Training workshops bilateral and multi-lateral [Lead: tbd] Knowledge/ data sharing and transfer [Lead: tbd] 	<ul style="list-style-type: none"> Tutorial packages [Lead: tbd] Summer and winter school [Lead: tbd]

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Pillar 1. Harmonization

Moderator: Dr. Steffi Friedrichs

- Currently, CN Committee not fully covered to international/national standard like ISO etc.
- Collaboration from all stakeholders from EU, Asian, Africa, America to emphasize and fully usage of the nanotechnology – workshop/participate in any activities related etc.
- Implementation- running the program, information sharing (specific standard/ scientific knowledge/scientific evidence)
 - >> somebody from the organization to take leadership.
- What are the real challenges ahead to implement the action plan 3- Sharing and exchange of experiences and policies?
 - Safety assessment to be harmonized through OECD Test Guideline documents. International effort to adapt nanomaterial/ nano-safety development
 - Funding issue
- The proposed INISS-nano could become a **permanent collaborative space** for the exchange of knowledge and ideas across borders and beyond the immediate regulatory requirements of a single jurisdiction
- Global Warming Issue: Don't think it's a bottleneck when regulator start to implement the nano safety policies.

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Pillar 2. Support Industrial Understanding Moderator: Prof. Dr. Patricia Farias

Issues	Response
Label on products – gaps in SDS, claims and heavily regulated products	Engagement with regulators Share situation in other countries
Sustainability - waste generated	Availability of treatment technology(ies)

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Pillar 3. Sharing/ Facilitate Sharing or Resources/ Infrastructure

Moderator: Dr Ali Marjovi

Action	Short Term (until 2024)	Medium Term (2025 and beyond)
Community-based platform	Study on the current situation of nanosafety-related facility network – database, facilities, stakeholder analysis & foresight [Lead: Ali Marjovi & Steffi Friedrichs]	Implementation – information sharing, training, capacity building, standardization, evaluation, PT [Lead: tbd]
	UFN in Japan & RMNK Malaysia	Implementation phase II - online system for exchange of services (laboratory test, certification etc) and facilitation for joint research activities [Lead: tbd]
	Prioritization of approaches – gaps, integration & interphase [Lead: Thomas Exner]	
	Conceptual design of platform – IT requirements, business model, governance, architectural design [Lead: Steffi Friedrichs]	

- Hold virtual workshops/conferences to listen to stakeholders and potential users
- Design and conduct a survey among stakeholders followed by mapping/ analysis

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Pillar 4. Ethical and Societal Aspects

Moderator: Dr. Ineke Malsch

Action	Short Term (until 2024)	Medium Term (2025 and beyond)
Capacity building in developing countries	Establish working relations with nanosafety specialists at UNITAR, SAICM, WHO, ILO and in developing countries. [Lead: tbc] Engage other organizations.	Agree on long term international capacity building program with EU and national funding commitments. [Lead: tbc] Accreditation and recognized as competent.
Harmonized nano-regulation	Review article [Lead: Ineke Malsch] Complement Pillar 1	Global summit [Lead: tbc] Coordination with Pillar 1 (SSbD)
Nano-communication	Organize program during Nanosafety Cluster events. [Lead: Giancarlo Franzese] Build on successful UNESCO bioethics training school.	Establish an Erasmus-mundus master course [Lead: Giancarlo Franzese] Use EU and Asian science communication experience.
International dialogue on responsible nano research and innovation	Test selected tools stimulating ethical and responsible nanotechnology on cases highlighting international value conflicts [Lead: Ineke Malsch] Engage experts from other countries.	Develop and promote “ethical-by-design” concept and tools [Lead: tbc] Engage with various stakeholders & Involve developing countries.

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THANK YOU