



INNOVATION IS THE KEY.  
SUSTAINABILITY LEADS THE WAY.

## International network- initiative

12<sup>th</sup> web-meeting, Apr 7<sup>th</sup>, 2026.

Alexander Pogany, Andreas Falk



## International network-initiative

# Agenda

- ✓ Welcome and general update [Alexander Pogany/BMIMI, Andreas Falk/BNN]
- ✓ Update on progress of actions in the pillars [pillar leaders/action leaders]
- ✓ Update on the UNESCO UNITWIN “**WiseNanoWorld**” – application [Fernand Doridot/ICAM]
- ✓ Update on publications, Session at STS-conference [Luis Mauricio Ortiz-Galvez/EMPA, Ineke Malsch/MI]
- ✓ Outlook on the 1<sup>st</sup> EU–Asia–BRICS Dialogue on Nanotechnology and Advanced Materials [Patricia Farias/UFPE]
- ✓ Group photo (all)
- ✓ next activities and any other business [Andreas Falk/BNN]



# Welcome and general update

Despite the challenges around the globe, we are following our principle of “**science without borders**” and hope, that PEACE will return as soon as possible!!

We hope, that **scientific cooperation will be a building block** for a **peaceful coexistence**.

Physical meeting – format and location?



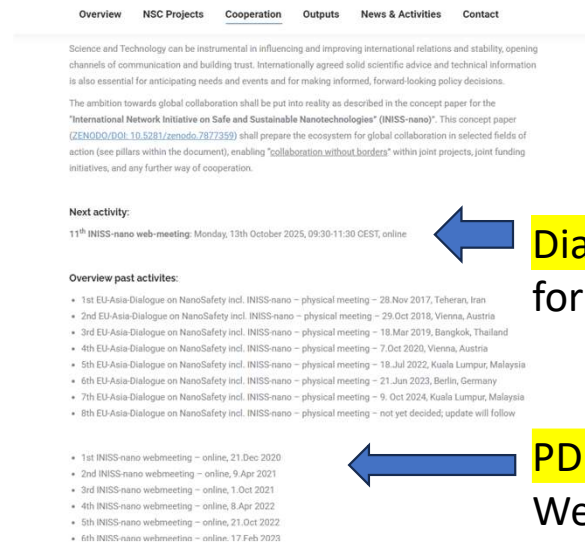


# Welcome and general update

## General Update:

- ✓ Connection with IRISS
  - ✓ Become member of [NSC-Community](#) (listed under “ongoing projects”)
  - ✓ Eligible for joining the **NSC-space** on IRISS-digital platform

## ✓ Internationalisation in NSC → INISS



← **Dial-in** information for next meetings

← **PDFs** from Webmeetings

7/Apr/2026; INISS-nano; 12th virtual meeting  
FALK Andreas, BNN



# PILLARS-action plan progress reports

Pillar 1 – Harmonisation

Pillar 2 - Support Industrial Understanding

Pillar 3 - Sharing/Facilitate Sharing of Resources/Infrastructures

Pillar 4 - International collaboration on ethical and societal aspects of nanotechnology



# Pillar 1

✓ Presentation by Sharmin Kharrazi / Jörg Radnik



## INISS-Nano Pillar 2



International Network Initiative on  
**Safe & Sustainable Nanotechnology**

- Circular Economy, Nano-Safety and Advanced Materials
- Towards Integrated Industrial Pathways across the EU, Asia and Mercosur

- **Patricia Farias**

[patricia.mafarias@ufpe.br](mailto:patricia.mafarias@ufpe.br)

## Pillar 2

- **Reliability of Building a Shared Industrial Agenda for Circular Economy, Nano-Safety and Advanced Materials**

**Aligning EU, Asia, and Mercosur institutions around safe by design, circular advanced materials turns nano-safety and shared data into a common pathway for sustainable industrial cooperation.**

## Regional Complementarity

### EU

Policy and regulatory leadership  
Circularity, traceability and product requirements  
Sustainability-driven industrial frameworks

### Asia

Manufacturing scale and deployment capacity  
Industrial acceleration and process integration  
Technology implementation potential

### Mercosur

Strategic materials and diversification  
Industrial transition opportunities  
Emerging sustainable innovation ecosystems

# A strategic framework for industrial cooperation, knowledge exchange and circular innovation

**Regional needs**

**FAIR principles**

**INISS-Nano as focal point (?)**

## Operating Model



## Brazil and BRICS Strategic Positioning

### Brazil

Bridge between Mercosur, Europe,  
Asia and the Global South  
Alignment with neo-industrialization  
and green transition  
Strong potential in strategic materials  
and innovation diplomacy

### BRICS

Industrial modernization and  
resilience  
Strategic materials and technological  
sovereignty  
Multilateral cooperation on  
sustainable innovation

## **Safe, circular and innovation-oriented advanced materials**

strategic basis for stronger industrial cooperation across regions.

**Thank you**

## Pillar 2

- ✓ CEN-352 AHG (Adhoc-Group): Lead: Gottlieb Lindner (support Jörg Radnik)
  - ✓ Update of the scope – broadening towards Advanced Materials is envisaged
  - ✓ Discussion on several terms are ongoing; AdMa – working description (OECD), definition work (ISO)
- ✓ ISO-TC229 – JWG1 – Terminology
  - ✓ “Advanced Materials”-definition is part of the Committee Draft for Consultation  
→ ISO/CD TS 19255 'Nanotechnologies — Vocabulary — Innovations in materials and technologies: advanced materials'
  - ✓ Consultation open till 15<sup>th</sup> May 2026.
  - ✓ Next meeting of ISO-TC229: Sydney, 18<sup>th</sup> – 22<sup>nd</sup> May 2026.



## Pillar 3

- ✓ Presentation by Jörg Radnik / Hassan Pouypouy
- ✓ 5<sup>th</sup> NMNS-conference – outlook
- ✓ Update webinar → „**Harmonisation and standardisation challenges ahead**“
- ✓ Looking back at AdMa/XPS-webinar

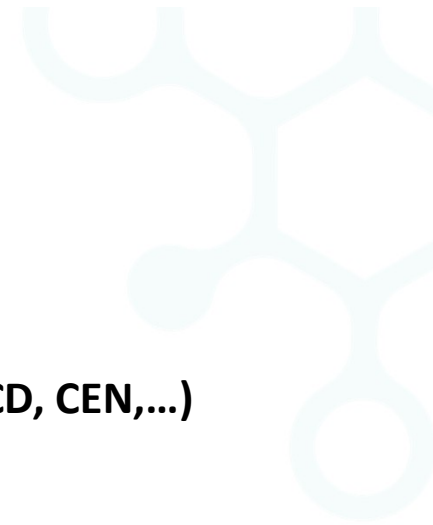


## Virtual Workshop

**Proposed Title: Nanosafety Standardization and Challenges ahead  
Feb. 2026**

The exact Date, Participants, speakers,  
and lecture topics will be announced via INISS-Nano soon





## Proposed topics for Workshop:

- **International and regional standardization activities in nanotechnology (ISO,OECD, CEN,...)**
- **Characterization of Nanomaterials**
- **Detection and Measurement Challenges**
- **Lack of standardized protocols for nanosafety**
- **Exposure Pathways and Environmental Impact of nanomaterials**
- **Regulatory and Standardization Gaps**
- **Global harmonization of nanosafety regulations.**

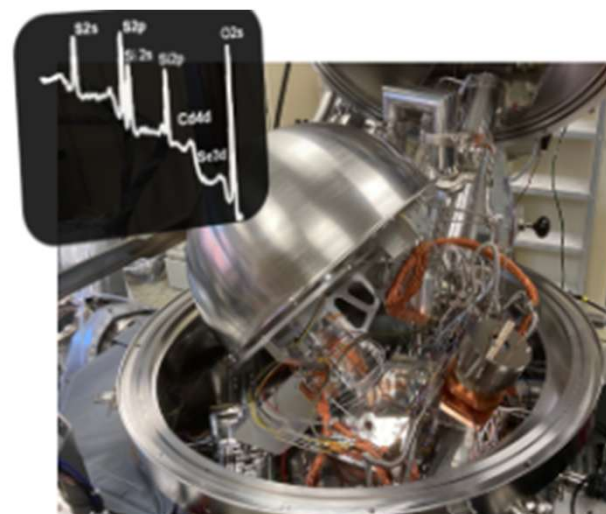


# Makes Measurements Matter: Reliable Data in X-ray Photoelectron Spectroscopy

Advanced Materials Webinar  
on 6 November 2025  
14:30 h – 16:00 h CET

Registration:

[XPS Webinar](#)





## Pillar 4

- ✓ Presentation by Ineke Malsch / Fernand Doridot / Luis Mauricio Ortiz-Galvez
  - ERASMUS-plus Innovation Alliance (Ineke) – submitted NANOSAFE
  - STS-Conference Graz 2026 (Ineke) – session update
  - Publication update (Mau)
  - COST Action INNATES (Fernand)
  - UNESCO WiseNanoWorld (Fernand)



**Malsch**  
**Techno**  
**Valuation**



# International collaboration on ethical and societal aspects of nanotechnology

Dr. Ineke Malsch

EthicSchool/Malsch TechnoValuation

INISS nano meeting 07-04-2026

**Malsch**  
**Techno**  
**Valuation**

INISS –nano pillar 4  
07-04-2026



**International collaboration in nanosafety-specific ethical issues:**

- Address global health and safety inequalities,
- Prevent use of developing countries as testing grounds of nano-enabled products,
- Implications for nanotechnology exporters of differences in legal regimes,
- Quality in public communication about nanotechnologies,
- Legal aspects and international collaboration in responsible nanotechnology research,
- Understanding balancing general rules with specific modifications to local settings.

**Malsch**  
**Techno**  
**Valuation**

INISS –nano pillar 4 – 07-04-2026



**Action 1: capacity building for nanosafety in developing countries**

		Update
In 2023: Establish working relations with nanosafety specialists in developing countries.	Started discussions with Latin American experts on nanosafety and ethical & societal aspects of nanotechnology, engaging UNITAR, webinar Guillermo Foladori (ReLANS, Latin America), 9-10-2023	Integrated in COST INNATES proposal > Fernand Doridot
2025+: Agree on long term international capacity building programme with EU and national funding commitments?	ICCM5 (Bonn, 25-29 September 2023) adopted resolution Resolution V/5: Emerging policy issues and issues of concern > <b>nano remains an issue of concern</b> until the next session of the conference	Integrated in COST INNATES proposal > Fernand Doridot

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INISS –nano pillar 4 – 07-04-2026



**Action 4: international dialogue on responsible nano R&I - Explore value conflicts in international nano-collaboration:**

**Emerging issue related to research security - open science dilemma:**

recent developments in export control of dual use knowledge and research security regulations may interfere with international research collaboration in nanosafety – No progress

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INISS –nano pillar 4 – 07-04-2026



**Action 2 – merged with harmonization work in pillar 1**

**Action 3 – science communication > broadened in COST INNATES &**

**UNITWIN network proposals**

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**Valuation**

INISS –SSbD training network  
07-04-2026



Proposal for a **Global training network Safe and Sustainable by Design – nano**

Submitted to Erasmus+, coordinated by Olga Guerrero (CSIC)

# Malsch Techno Valuation

INISS –SSbD training network  
07-04-2026



Activities since 13-10-2025:

- Article resubmitted responding to peer review, pending typesetting: MALSCH I, Willighagen E, Sánchez Burmester CF and Mody C. Ethical Impact Assessment of Sharing Nanosafety Data [version 1; peer review: 1 approved, 1 not approved]. Open Res Europe 2024, 4:237 (<https://doi.org/10.12688/openreseurope.18345.1>)
- Luis Mauricio Ortiz Galvez: lead author of journal article – **Update Mau?**
- Andreas Falk, Fernand Doridot, Carlos Gomez & I: session leaders @ STS-Graz 2026, 4-6 May 2026

# Malsch Techno Valuation

INISS –SSbD training network  
07-04-2026



Session 34 @ STS Graz 2026: **Identifying gaps in social and ethical foresight methodology for nano-enabled advanced technologies**, 5 May 2026, 4:00-6:00 pm

Chairs: Ineke Malsch, Carlos E. Gómez-Camacho, Fernand Doridot, Andreas Falk

## Papers:

- Negotiating “Good Chemicals” through Safe and Sustainable by Design, Jesse De Pagter, Centre for Social Innovation, Austria
- Societal Impact of the unique Advanced Materials ecosystem, Andreas Falk, Johanna Scheper, BNN, Austria
- Engaging young researchers in Ethical Impact Assessment of nanomedicine, Ineke Malsch, Malsch TechnoValuation, The Netherlands
- From Social Indicators to Decision-Making: Overcoming the Integration Gap through MCDA and Monetization in Safe and Sustainable by Design (SsbD), Carlos E. Gómez-Camacho, Roland Hischier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
- From Safe and Sustainable by Design to Safe, Sustainable and Responsible by Design: Bridging Sustainability and Ethics in the Governance of Nanotechnologies, Fernand Doridot, ICAM of Lille, France



## Pillar 4

- ✓ Presentation by Ineke Malsch / Fernand Doridot / Luis Mauricio Ortiz-Galvez
- ERASMUS-plus Innovation Alliance (Ineke)
- STS-Conference Graz 2026 (Ineke)
- **Publication update (Mau)**
- COST Action INNATES (Fernand)
- UNESCO WiseNanoWorld (Fernand)



## Mapping of the requirements for a Pan-European training partnership on Safe and Sustainable nano- and advanced materials innovation

Luis Mauricio Ortiz-Galvez<sup>a</sup>, Ineke Malsch<sup>b</sup>, Susanne Resch<sup>c</sup>, Andreas Falk<sup>c</sup>, Sophie M Briffa<sup>d</sup>, Ciro Salcines<sup>e</sup>, Thomas Exner<sup>f</sup>, Sean Kelly<sup>g</sup>, Effie Marcoulaki<sup>h</sup>, and Martin Himly<sup>i</sup>

<sup>a</sup> EMPA, Technology & Society Laboratory, St. Gallen, Switzerland; <sup>b</sup> Ineke Malsch Technovaluation, Utrecht, Netherlands; <sup>c</sup> BioNanoNet Forschungsgesellschaft, Graz, Austria; <sup>d</sup> Faculty of Engineering, University of Malta, Malta; <sup>e</sup> Health and Safety, Universidad de Cantabria, Spain; <sup>f</sup> Seven Past Nine, Schopfheim, Germany; <sup>g</sup> Nanotechnology Industries Association, Brussels, Belgium; <sup>h</sup> NCSR Demokritos, Athens, Greece; <sup>i</sup> Paracelsus Medical University Salzburg, Dept. Biosciences & Medical Biology, Austria

Update?

### On-going work:

- Description of the methods (modify)
- Future steps: add COST-Action proposal (I need a paragraph to connect)
- Conclusions (and suggestions?)
- Citations and references (according to the journal)
  - Journal (Open Access)?  
German-American journal of technology assessment

7/Apr/2026; INISS-nano; 12th virtual meeting  
FALK Andreas, BNN





## Pillar 4

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- UNESCO WiseNanoWorld (Fernand)



# WiseNanoWorld Initiative

**WiseNanoWorld Project: “Sustainable Nanotechnologies for the UN Sustainable Development Goals”**

**Ambition to create a worldwide UNESCO UNITWIN thematic network around Safe, Sustainable and Responsible Nanotechnologies applied to Sustainability-focused applications and to the SDGs.**

**Four pillars of the proposal: Networking/Training/Research/Civil Society**

(For information on UNESCO UNITWIN, see <https://www.unesco.org/en/unitwin>.)



# Next Steps for the COST and UNESCO applications

- **Reply for the COST Proposal : June 2026. If accepted, start of the Project in October 2026.**
- **UNESCO proposal submission in January 2027. (Success at COST would be a great added value for the UNESCO project).**
- **To date: we have partners on every continent for the UNESCO project.**



## International network-initiative

# Any other business

### Events

- ✓ [FAME-Ecosys Event – Sweden](#), 14 April 2026, Lund, Sweden
- ✓ [STS-Graz 2026](#), 4-6 May 2026, Graz, Austria.
- ✓ [SETAC Europe 2026 – 36th Annual Meeting](#), 17-21.May 2026, Maastricht, The Netherlands.
- ✓ [OECD-WPMN 2026](#), 22-26.June 2026, Paris, France.
- ✓ [Nanotexnology 2026](#), 4.-11.July 2026, Thessaloniki, Greece.
- ✓ [EUROTOX 2026 – Conference](#), 13-16.Sept. 2026, Vienna, Austria.
- ✓ [13<sup>th</sup> INISS-nano web-meeting](#), **12.Oct. 2026, 13:00-15:00 CEST**, ONLINE.
- ✓ [10<sup>th</sup> InterNanoPoland](#), 14.-15.Oct 2026, Katowice, Poland.
- ✓ [5<sup>th</sup> NMNS-Conference](#), November 2026, Teheran, Iran. (tbc)
- ✓ [SSbD26-Conference](#), 9-11.Nov. 2026, Stockholm, Sweden
- ✓ [FAME-Ecosys Event - Austria](#), 17.Nov. 2026, Graz, Austria
- ✓ [3<sup>rd</sup> International Nanotechnology Olympiad \(INO\)](#), 12.-18.Dec. 2026, Taiwan



## International network-initiative

# Any other business

### Events

- ✓ [Erwin Schrödinger Symposium](#), 22.-27.Feb.2027, Mauterndorf, Austria. (tbc)
- ✓ **OECD-WPMN 2027**, 21.-25.June 2027, Paris, France. (tbc)
- ✓ **ANTHOS'27 & SSbD27-Conference**, 8.-10.Nov. 2027, Grenoble, France. (tbc)
- ✓ **1<sup>st</sup> EU–Asia–BRICS Dialogue on Nanotechnology and Advanced Materials**, 2027, Brazil.  
(tbc)



## International network-initiative

# Next steps

- ✓ Waiting for COST-Action “INNATES” decision (lead: Fernand Doridot)
- ✓ Waiting for ERASMUS-plus “NANOSAFE” decision
- ✓ Preparation of UNESCO-“WiseNanoWorld” (lead: Fernand Doridot) – ongoing
- ✓ Re-submission of publication (lead: Luis Mauricio Ortiz-Galvez) – ongoing
- ✓ Planning of 1<sup>st</sup> EU–Asia–BRICS Dialogue on Nanotechnology and Advanced Materials (lead: Patricia Farias) – postponed
- ✓ Implementation of actions: Action leaders – please take action.
  
- ✓ Please book your calendars...
  - **13<sup>th</sup> INISS-nano web-meeting: 12<sup>th</sup> October 2026, 13:00-15:00 CEST, ONLINE**



# Group photo, Apr. 7<sup>th</sup>, 2026



International Network Initiative on  
Safe & Sustainable Nanotechnology





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## Acknowledgements:



Thank  
you!

