

NERIS:

**The European Platform on Preparedness for Nuclear and
Radiological Emergency Response and Recovery**

SRA and synergy with STAR-ALLIANCE

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President of NERIS

STAR Final Dissemination Event

Aix en Provence, 9-11 June 2015

- Created in 2010
 - Financial support from the European Commission to structure the Platform
 - Adoption of legal statutes in May, 15, 2012 in Glasgow
 - Legal registration under the French Law: August, 28, 2012
 - Self-sustainable since 2014
- ***28 supporting organizations***
 - ***55 members***
 - ***25 countries***

- **Improving the effectiveness** of current European, national and local approaches for preparedness
- **Promoting more coherent approaches**
- **Identifying gaps** and needs for further developments
- **Addressing new and emerging challenges** in the field of preparedness
- **Maintaining and improving know-how** and technical expertise in preparedness among all interested stakeholders in Europe

- Thierry Schneider (CEPN) - President
- Florian Gering (BfS) - Vice President
- Frank Hardeman (SCK-CEN) – President R&D Committee
- Deborah Oughton (UMB) - Secretary
- Wolfgang Raskob (KIT) - Treasurer
- Joël Bardelay (IRSN)
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- Gilles Hériard Dubreuil (Mutadis)
- Christophe Murith (FOPH)

**Updated version of NERIS SRA on April 8, 2014
Discussion during the NERIS Workshop 2015**

Three research areas have been identified with 7 topics:

- 1. New challenges in atmospheric and aquatic modeling**
- 2. New challenges for better dose assessments and decision support based on improved knowledge**
- 3. New challenges in stakeholder involvement and local preparedness and communication strategies**

- **Key Topic 1: Atmospheric dispersion modelling**
 - To make more reliable and precise forecasts on atmospheric dispersion of radioactive materials in different environments:
 - *Urban, confined spaces*
 - *Models for non-conventional emissions*
 - *Simulation of (very) long-duration releases to air*
 - ...
- **Key Topic 2: Aquatic dispersion modelling**
 - To improve forecasts on aquatic dispersion of radioactive materials in different environments
 - *Urban hydrology systems*
 - *Coastal waters*

- **Key Topic 3: Improvement of existing Decision Support System**
 - To obtain a better analysis of the radiological situation (source-term, scenarios, etc.),
 - To support the decision-making processes during emergency and recovery phases
- **Key Topic 4: Data mining, information gathering and providing information to stakeholders and mass media**
 - To foster the information exchange between all interested stakeholder
 - To provide means for a more transparent decision-making process
- **Key Topic 5: Improvement of the decision-making processes**
 - Better structured processes at national, regional and local levels
 - Improvement of the efficiency of protective strategies

- **key Topic 6: Stakeholder engagement and dialogue**
 - To improve the acceptability and social robustness of emergency response, ensuring that stakeholders are involved in decisions impacting their lives
- **Key Topic 7: Use of social media & networking**
 - To better understand the ways in which social media and other media are used in the flow of information and communication

- *Two topics to be addressed within the 2nd OPERRA Call*
- *Common projects within COMET*
- *Proposal to reinforce the cooperation:*
 - *To derive, from the scientific research in radioecology, approaches and models operationally applicable in Decision Support Systems*
 - *To share the lessons from the management of the consequences of the Fukushima accident in Japan*

- *Operationally applicable in Decision Support Systems:*
 - *Applicable to most regions in Europe,*
 - *Cover the most important (in terms of ingestion doses) food chain pathways,*
 - *Easy to run, and do not require sophisticated background knowledge*
 - *Deliver results in a way that this can be used within existing DSS*

- *To share the lessons from the management of the consequences of the Fukushima accident in Japan*
 - *Decontamination actions and efficiency,*
 - *Waste management,*
 - *Food contamination,*
 - *Individual exposure (shielding factors, habits,...)*
 - *Conditions and means for the return of populations,*
 - *...*

Thank you for your
attention

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