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

Statutes of the NERIS Platform

- **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)
- Tatiana Duranova (VUJE)
- Eduardo Gallego (UPM)
- Gilles Hériard Dubreuil (Mutadis)
- Christophe Murith (FOPH)

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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,*

  - *…*

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Thank you for your attention

www.eu-neris.net