Assembling priorities: input from WP2 to WP3

CONCERT Kick-off meeting
WP3 / Task 3.1.1
Sisko Salomaa
European Strategy for Radiation Protection Research

CONCERT EJP

Umbrella structure for radiation protection research in Europe
- Co-funding action
- Joint programming
- Open research calls
- Integrative activities

MELODI
ALLIANCE
NERIS
EURADOS

*Medicine? Medical SRA in OPERRA*
WP2: Integration and SRA development of radiation protection research

Task 2.1 - Development of Strategic Research Agenda, roadmap and priorities for research on low dose risk (MELODI)

Task 2.2 - Development of Strategic Research Agenda, roadmap and priorities for research on radioecology (ALLIANCE)

Task 2.3 - Development of Strategic Research Agenda, roadmap and priorities for research on emergency preparedness and response (NERIS)

Task 2.4 - Development of Strategic Research Agenda, roadmap and priorities for research on dosimetry (EURADOS)

Task 2.5 - Development of Strategic Research Agenda, roadmap and priorities for research with the medical scientific community

Task 2.6 - Creating Strategic Research Agenda on social sciences and safety culture in radiation protection

Task 2.7 - Research and innovation supporting the implementation of the revised European Basic Safety Standards
Step 1: Priorities by platforms (WP2)

• The four European research platforms (MELODI, ALLIANCE, NERIS, EURADOS) will maintain and update their Strategic Research Agendas (SRA), respectively, in a coordinated manner and prepare annual statements on current research needs, priorities and road maps for joint programming (WP3).

• The platforms prepare roadmaps with a long-term view and identify research priorities with a shorter term perspective in their respective areas and explore joint interests for multidisciplinary and synergistic research.

-> D2.1: Annual SRA Statements from MELODI, ALLIANCE, NERIS and EURADOS: Due by month 2 (July 2015).
Step 2: Additional input (WP2)

- The platform activities also make use of the existing expertise in Europe regarding **medical use of ionizing radiation**, with the aim to include radiation protection relevant topics in the SRA of MELODI and EURADOS.

- Input from social sciences and humanities: Ethics and justification; risk communication and risk perception; safety culture.

- **Joint roadmapping workshop of the platform SRA WG’s (BfS).**

-> D2.2 – Joint research needs and priorities addressing radiation protection research relevant for medical use of radiation and communication/risk perception in radiation protection field: Due by month 5 (October 2015)
Step 3: Joint priorities (WP3)

- In Task 3.1, the platforms will feed in their SRAs, priorities and roadmaps in joint discussions to integrate these SRA for the purpose of joint priority setting.
- MS14: Workshop results: joint priority list and general conditions for call 1: Due by month 8 (January 2016).
- D3.1: First Annual Joint Priority List: Due by month 9 (February 2016)
CONCERT WP3: TOPICS flow chart

Input from:

- SRA Priorities from RP associations (WP2)
- Medical SRA (WP2)
- Integrative activities for calls (WP6, WP7)
- National input (POM)
- Stakeholders input (WP5)
- 1st call: BSS working group (WP2)
- 2nd call: Social sciences and humanities (WP2)

Selection by RP associations (SRA) (October 2015)

Condensed list + call conditions

Open consultation eg. at Stakeholder session of MELODI workshop 11/11/2015, website, web based survey

Approval by MB

Submission to WP4
RICOMET 2015: How to create Strategic Research Agenda on social sciences and safety culture in radiation protection?

There was suggestion to create a SRA for social sciences and humanities and then incorporate context dependent aspects into the research agendas of the four platforms (and medical RP research). Review existing SRAs and add what is missing.

Umbrella structure for radiation protection research in Europe
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The calls could be structured so that social science aspects are integrated in projects. Multidisciplinary research is encouraged.

MELODI  
ALLIANCE  
NERIS  
EURADOS

Social sciences and humanities  
RTD supporting BSS implementation

Medicine? Medical SRA in OPERRA
The System of Protection is based on science AND values (-> ethics!)

- **Shape of dose response**
  - Linear non-threshold
  - Dose rate

- **Radiation Protection System**
  - Dose limits
  - Constraints
  - Optimisation
  - Dose as surrogate for risk
  - Additivity
  - Cancer and hereditary effects

- **Internal emitters**
  - Biokinetic models
  - Dosimetric models

- **Tissue sensitivities** $\omega_T$
  - Tissue weighting factors

- **Radiation quality** $\omega_R$
  - Radiation weighting factors

- **Individual sensitivities**
  - Genetics
  - Age
  - Gender
  - Lifestyle
  - Other exposures

- **Non-cancer effects**
  - Circulatory diseases
  - Cognitive functions
  - Lens opacities
SRA for safe and secure societies...?

Risk assessment

Tools and methods

Risk management

Health

Environment

Emergencies

Knowledge-based risk communication and dialogue

Technological and societal innovations enabling participation

Sustainable practices and services improving safety, security and wellbeing

Ethically sustainable guides, recommendations, orders

Graded approach in RP

Best practices and reliable methods for supervision

RICOMET 2015: Consider various risks: disease risk, ethical risk, risks from RP countermeasures, psychological risk