


The stakeholder involvement process for the elaboration of the CONCERT Joint Roadmap

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Exposure CONTEXT and scenarios help to identify research

Radiation protection in various exposure scenarios	Sources giving rise to exposure of humans and the environment (under planned, existing or emergency exposure situations)			
	Anthropogenic sources of ionising radiation			Natural sources
n° 4 Contexts → 7 Scenarios ↓	Human activities related to medical therapy and diagnosis using radionuclides and ionising radiation	Human activities related to nuclear applications and applications of ionising radiation not related to medical applications	Human activities using natural resources containing naturally occurring radionuclides (NORM/TENORM)	Natural background radiation: telluric and cosmogenic, and natural events leading to radionuclide emissions


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The Joint Roadmap for radiation protection research will be...

- A long term (+20y) research plan based on
 - the needs taking into account real exposure of man & environment
 - in contrast to the research challenge-based approach of SRAs
- Accompanied by individual roadmaps + SRAs
- Including a time-scale (+ resources?)
- Balanced according to the needs (→impact)
- Hopefully accompanied by a funded long term call-planning system


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Why do we need a joint roadmap for radiation protection research?

- To identify the common research needs (and accompanying resources) over a longer time
- To enable planning of research over a longer time, agreed upon by POMs/LTPs, platforms, national representatives + EC
- **Taking into account end-users' needs**
- Final goal: to engage the EC to an agreed joint roadmap, supported by national representatives, accompanied by appropriate funding (with a long-term call planning (cfr EURAMET))

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Roadmap state of the art

- Draft roadmap: http://www.concert-h2020.eu/-/media/Files/Concert/News/Lists/Deliverables/Attachments/47_D23_CONCERT_D3_4_First-Joint-Roadmap_04012018_approved.pdf
- Starting from exposure contexts + scenarios
- a 1st set of Joint Research Challenges is proposed

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Stakeholder involvement up till now:

- Radiation protection research platforms (MELODI, EURADOS, NERIS, ALLIANCE and EURAMED) as well as SSH experts
- Programme Owners and Programme Managers (1st round)


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Input also needed from « end users » and « sponsors »

- This meeting aims at discussing the process on **how to involve parties interested in the outcome of the research**, as to take into account their needs and as such **increase impact**


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Discussion topic for the stakeholder meeting

- Stakeholder mapping + engagement?
- Once SH are identified, how to ask:
 - Which scenarios of interest to whom?
 - Which challenges?

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Scenario groups as basis to define specific scenarios of interest on national levels

1. Patients exposure regarding medical applications of X-rays, electron or particle radiation including the use of radiopharmaceuticals
2. Exposure of the general public and the environment as a consequence of industrial applications of ionising radiation and the use of NORM in normal operation conditions
3. Exposure of workers in normal operation conditions
4. Exposure of the general public and the environment with regard to legacy
5. Exposure of the public and the environment to the natural radiation environment
6. Exposure of the general public, workers and the environment following a major nuclear or radiological accident or incident including long term consequences
7. Radiation protection of the public, workers and environment as a consequence of a malevolent nuclear or radiological act including long term consequences


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Joint Research Challenges list as basis for discussion on national levels


- A. Understanding radiation related human health effects
- B. Improving the concept of effective dose and other quantities
- C. Studying the biological and ecological effects on biota
- D. Optimized radiation protection in medical applications of ionising radiation
- E. Improving radiation protection for workers
- F. Integration and optimization of environmental exposure assessment for ionising radiation and other stressors
- G. Optimizing emergency and recovery preparedness and response
- H. Enhanced integration of radiation protection science with society

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Thank you for your
input!

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