

PARTICIPATION IN RADIOLOGICAL PROTECTION

COMPARING AND CONTRASTING THREE EXPOSURE CONTEXTS

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Swiss Confederation







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Federal Department of Home Affairs DHA













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NEA Workshop on Stakeholder Involvement in Nuclear Decision Making

Summary Report

public confidence, not least because citizens expect to voice their concerns and preferences, and to be able to influence decisions of significance to the environment and to community well-being. Stakeholder involvement is not only about what decision is made. It is also about achieving decisions that visibly and transparently reflect stakeholder concerns and input.





Areas of Research to Support the System of Radiological Protection

- Effects of protracted exposures and low dose rates
- Mechanisms of low-dose effects and dose-response models that take account of then
- Organ-specific, and age and sex differences in, sensitivity to cancer induction
- The role of genetic differences in determining individual sensitivity
- Effects other than cancer and genetic effects and their contribution to detriment
- Relating exposures, doses, and effects on population viability for non-human biota
- Reliability of dose assessments
- Dosimetry and protection methods in medicine
- Ethical and social dimensions of the system of radiological protection

Mechanisms for interaction with stakeholders



Several international organization Resources actions to support 10 proposed # RPOP Home > International Safety Standards > Publications

World Health Organia The International Conference or

The aims of the Bonn Call-for-Action are to a) strengthen the radiation protection of p workers overall; b) attain the highest benefit with the least possible risk to all patient appropriate use of ionizing radiation in medicine; c) aid the full integration of radiation health care systems; di help improve the benefit/risk-dialogue with patients and the enhance the safety and quality of radiological procedures in medicine.







How do we engage?
Who engages?
What is engagement for?
Who benefits and why? Who doesn't?
Why engage?
When engage?
What is the role of radiation protection culture?

. . .

ENGAGE: H2020 CONCERT on "ENhancinG stAkeholder participation in the GovernancE of radiological risks"

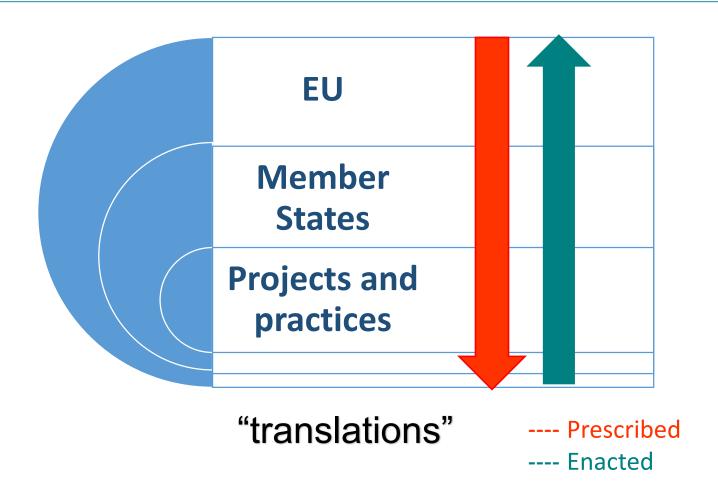
November 2017 - November 2019







Levels of analysis









Specificities of exposure situations



MEDICAL EXPOSURE



EMERGENCY & RECOVERY PREP. & RESPONSE

- Justification of exposure
- Risk / benefits of exposure
- Risk characteristics
- Exposure characteristics
- Main stakeholders concerned by the situation
- Influence of different actors on radiation protection
- Objectives of stakeholder engagement processes



INDOOR RADON





What we talk about when we talk about .. stakeholder engagement

EU Legal framework for radiation protection for EP&R

- In general, no precise definitions
 - · Who defines?
- Mainly instrumental motivations, e.g. "establish living conditions that can be considered as normal".
- Involvement mostly as provision of information
 - Few exceptions: e.g. existing exposure situations, involvement "as appropriate"

Aarhus convention: broader frame for public participation

International guidance and discourse (e.g. IAEA, OECD) for EP&R

- Stakeholders / interested parties: those who "feel impacted", have an interest, support or not the process, involved or not, have an influence...
- Broader motivations: e.g. normative considerations, "better, more acceptable choices from the environmental, economic and technical points of view"
- Various levels of involvement depending on context: information, communication, dialogue, coexpertise...







National case studies



3 exposure contexts



Mapping formal and informal participation

(EP&R in BE)

Participation practices & RP culture



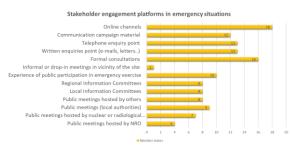
Round tables, experiments, workshops, interviews

Cross-national analysis

eghezee.be



Radon websites in 8 EU Member States



Survey in EU countries (EP&R)





Engaging, but how?



Within the radiation protection community

- shared recognition of the importance of stakeholder engagement,
- joint acknowledgment that no stakeholder can be willfully excluded, but..
- shared unease or uncertainty about how to organize engagement





Engaging, but how?



- →Often linked to awareness raising and communication
- → Gradual institutional shift from public deficit to dialogue
- → Practices often uncorrelated with prescriptions
- → Minimal requirements placed on stakeholder engagement in regulations





Broadening the scope of 'participation' (new actors, new forms)

- Integration of radiation protection in broader frameworks
 - Radon:
 - indoor air quality
 - energy performance
 - National Environmental Health Action Plan
 - EP&R:
 - multi-hazard approaches
 - Medical:
 - patient-centred healthcare
 - radiological risk as part of professional medical skill and decision-making processes







Broadening the scope of 'participation' (new actors, new forms)

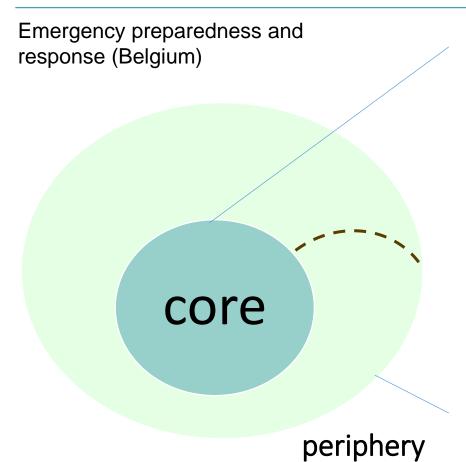
- Engagement and disengagement
 - (Potential) role of professional associations & other collectives
 - Articulation of different risk governance levels
 - Radon: national (risk assessment), regional (resources) and local (mitigation)
 - Medical: health care system (radiation protection policy) and patient (individual care)
 - EP&R: preparedness and recovery; emergency and post-accident
 - Actors previously not been considered (e.g. building professionals, GP's, local communities, parents, nurses, care givers, patients committees, etc.)
 - Non-existing networks, e.g. relay actors at local level for radon
 - Non-participating actors
 - Disengagement







Broadening the scope of 'participation' (new actors, new forms)



Formal processes, actors, institutions:

information campaign by federal authorities, actions by NGO's, research projects, questions in parliament

Informal processes, actors:

citizen monitoring network, private business in the field of nuclear safety



Kelder wordt schuilkelder voor 'maar' €15.000: "Niet te veel voor verschil tussen leven en dood"







Transversal and specific issues

- Transversal issues, such as:
 - Resources, mechanisms for engagement
 - Bottom-up vs. top-down initiation of participation
 - Radiation protection culture(s)
- Specific issues, such as:
 - EP&R
 - Formal vs. informal engagement;
 - Consensus vs. dissensus, dialogue vs. debate, communication vs. participation
 - Continuity and reflexive learning
 - Radon
 - Evaluation of action plans
 - Transversality
 - Medical
 - Individual (informed consent) vs. systemic approach
 - Supportive role of professional and patient associations







ENGAGE final workshop



Enhancing stakeholder participation in the governance of radiological risks for improved radiation protection and informed decision making

DATE & PLACE: 11-13 SEPTEMBER 2019, Bratislava, Slovak Republic

www.engage-concert.eu

- Conditions for meaningful participation and commitment of institutional and noninstitutional stakeholders
- Broadening the scope of 'participation' in radiation protection
- · Alignment of different decision levels: local, regional, national and international
- Bridging risk assessment, risk management and risk communication approaches and stakeholders
- Informed decision-making (role of communication, access to information, informed consent)
- Ethical aspects
- Radiation protection culture







What next for ENGAGE(MENT)?