

TOOLS AND APPROACHES

... for Improved Communication of Uncertainty in Emergency Situations

Literature Review

Systematic search of literature and online resources of tools, approaches and instruments of how uncertainties in the event of a nuclear emergency are communicated. In total 80 tools are found and summarised in a database.

Criteria

Communication tools are checked against these criteria:

- Addresses uncertainty
- Covers radiation protection
- Effectiveness: (a) with respect to exposure of information (b) with respect to understanding (c) with respect to behavioural changes (d) with respect to societal impacts
- Efficiency
- Communicative quality (information, dialogue, participation)
- Resilience
- Social acceptance and trust
- Ethical acceptability, including fairness and social equity
- Political and legal feasibility
- Clarity and comprehensibility of the message

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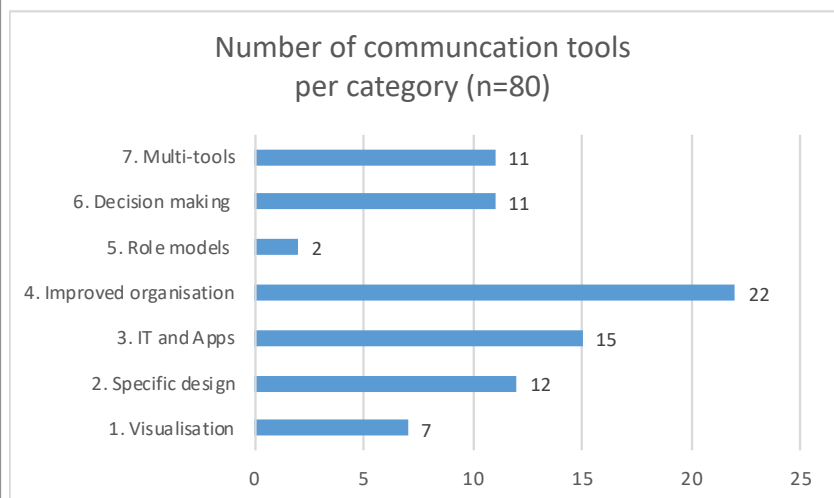
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Categories of Tools

For a nearer characterisation the communication tools are divided into 7 categories.



Conclusion

The tools vary significantly, ranging from sophisticated online and app solutions, approaches of behavioural change through role models, improved organisation (externally and internally) and decision making solely by experts & authorities in the field of radiation protection.

Promising areas for further investigation are especially the IT and applications for cases of emergency and multi-tools for a broader usage by various target groups.