

CONFIDENCE: COping with uNcertainties For Improved modelling and DEcision making in Nuclear emergenCiEs

The H2020 CONFIDENCE Project (2017-2019) aims to close existing gaps in several areas of emergency management and long-term rehabilitation. It concentrates on the early and transition phases of an emergency, but considers also longer-term decisions during these phases. The project brings together expertise from Social Sciences and Humanities and Radiation Protection.



Image of the first meeting of the Spanish stakeholder panel

The work-programme of CONFIDENCE aims to understand, reduce and cope with the uncertainty of meteorological and radiological data in the case of a nuclear accident, and their further propagation, in decision support systems, including atmospheric dispersion, dose estimation, food chain modelling and countermeasure simulations models. **The social, ethical and communication considerations related to uncertainties are crucial** in the project activities, to gain a more comprehensive picture of the radiological situation and improve decision making under uncertainties. Different decision making principles and methods are investigated, ranging from formal decision aiding techniques to simulation based approaches. These are demonstrated and tested in **stakeholder workshops**, applying the simulation tools developed within CONFIDENCE. A comprehensive education and training programme is fully linked with the research activities.

Cisot participation is focused in:

- WP4. Engage national stakeholders to improve the preparedness and response during the transition phase of a nuclear accident, with the aim of identifying and reducing the uncertainties in the subsequent management of the long-term exposure situation, to include the requirements from the new European Basic Safety Standards.
- WP5. Identify social and ethical issues related to uncertainty management in emergency and post-accident situations and clarify how stakeholders at the various levels deal with uncertainty in their decision making processes.

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Publications

Turcanu, C.; Perko, T.; Van Ourheusden, M.; Oughton, D.; Zeleznik, N.; Baudé, S.; Beninghaus, L. and Sala, R. (2017). Theoretical background for WP5 research: Social, ethical and communication aspects of uncertainty management. Confidence report for EJP-CONCERT.