



Which uncertainties



- 'Uncertainty' is interpreted differently by different people and disciplines
- It can include *stochastic uncertainties* (i.e. physical randomness), *epistemological uncertainties* (lack of scientific knowledge), ambiguities (ill-defined meaning), value uncertainties (when the required endpoint is ill-defined), *judgemental uncertainties* (e.g. setting of parameter values in codes), computational uncertainties (i.e. inaccurate calculations), *modelling errors* (i.e. however good the model is, it will not fit the real world perfectly)
- We should also address **social and ethical uncertainties**, in the analysis of risk and in decision making

This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 662287



14.06.2018

Uncertainties in CONFIDENCE



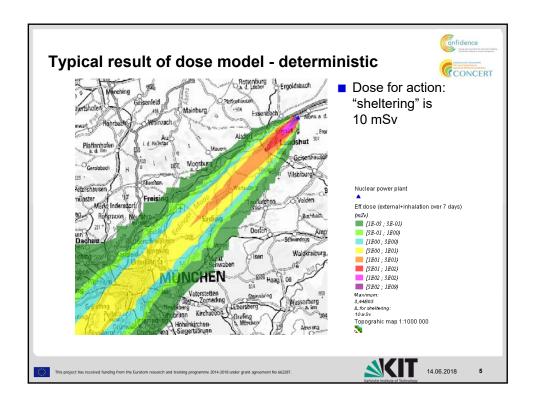
- The following lists all work packages of CONFIDENCE
 - WP1: Pre- and release phases
 - WP2: Improve the common operational picture
 - WP3: Improve radioecological models
 - WP4 Transition to long term recovery
 - WP5: Stakeholder, social and ethical aspects
 - WP6: Facilitate decision making
 - WP7: Education and training
- Uncertainties in the early phase mainly due to weather and source term
- Uncertainties in the transition phase are more difficult to grasp; societal and ethical issues may be more important
- Uncertainties in the later phase might even be more dominated by other factors than uncertainties of radiological modelling and monitoring

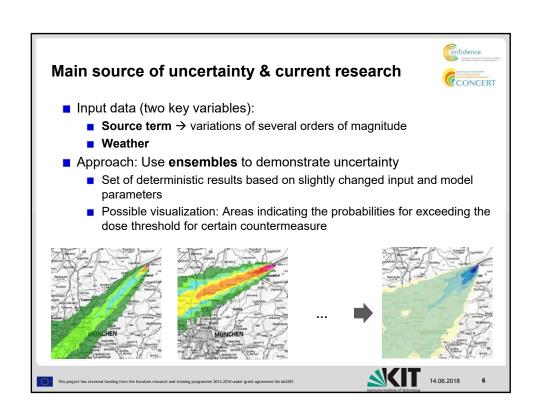
This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 66228



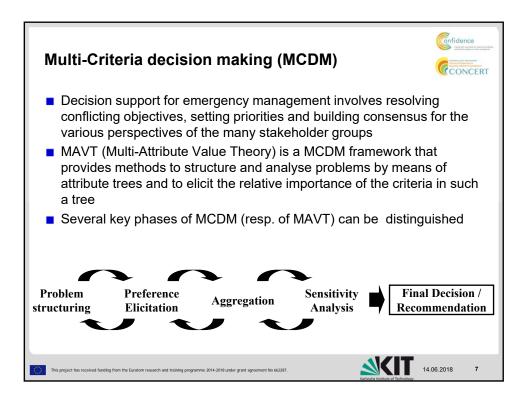
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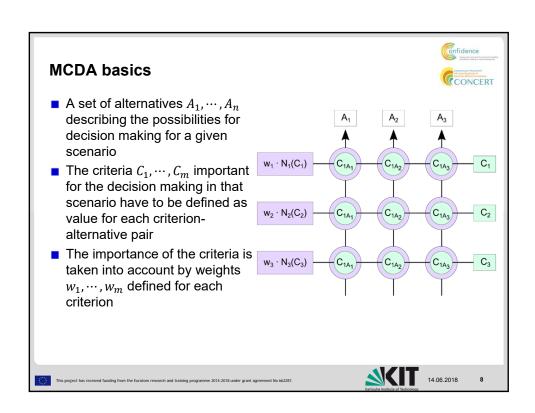














MCDA uncertainties Criterion and weights can be defined as single values: deterministic approach How to deal with uncertainties Applying a distribution Providing boundary conditions (e.g. 5% and 95%) Proposed realisation Providing direct results from ensemble calculations for attributes Providing a distribution for the weights

