EMRAS – Theme 2
Remediation of Sites with Radioactive Residues

Urban Remediation Working Group

5-9 November 2007

Vienna

Status
of the Working Group report

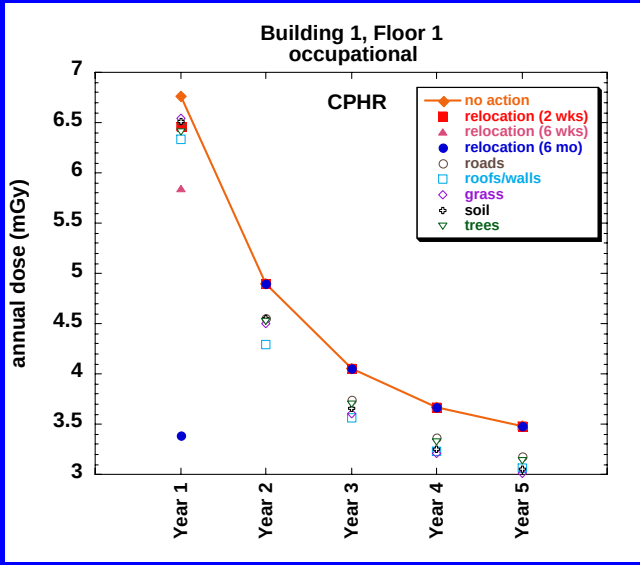
- Draft version is largely complete
- Discussion of major sections at this meeting
  - Results of modelling exercises
  - Conclusions and recommendations
- Finalization of report after this meeting

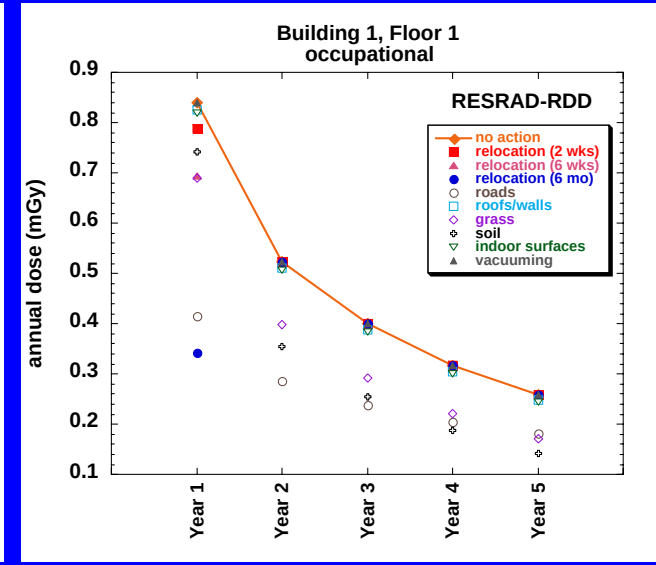
Significance of the report

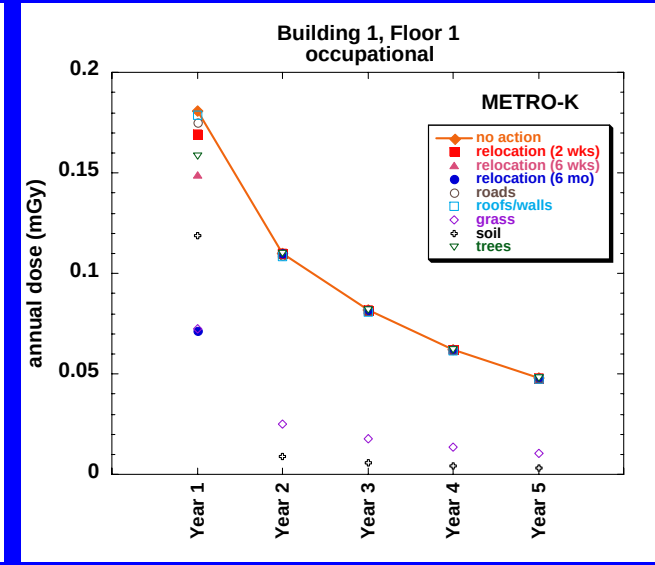
- Descriptions and discussions of various models and modeling approaches
  - Bibliographic survey
  - Descriptions of models used in these exercises, with parameter information
- Examples of model performance for two specific situations
- Discussion of model performance
- Scenario descriptions and data sets available for further modeling

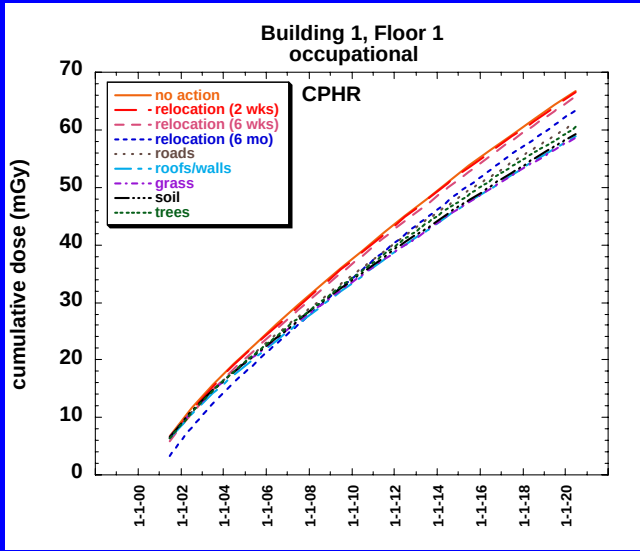
Example of results

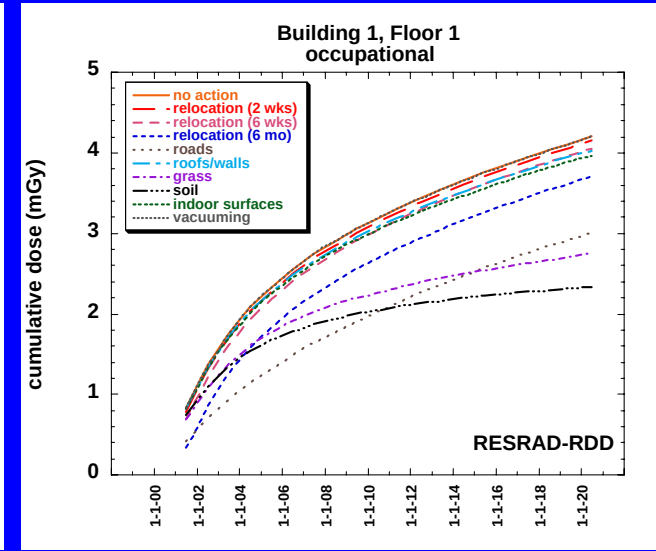
Annual and cumulative doses occupational exposure, with effects of countermeasures

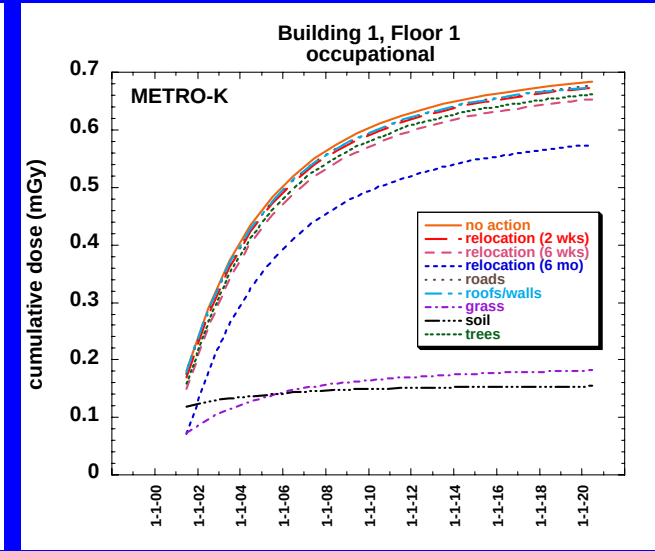












Explanations for differences

- Interpretation of the starting information
- Model structure
  - Surfaces and processes included
  - Assumptions
- Selection of parameter values

Status of urban modelling

- The conceptual model is the greatest source of uncertainty
- Many possible situations and combinations that can be assessed
- Very location-specific
- More information is needed for many parameters

More work to be done

- Recommendations for future modelling exercises
  - Atmospheric dispersion modelling in an urban situation
  - Long-term contaminant transport
  - Effects of countermeasures
  - Needs of decision makers
- Parameter information to obtain if possible
- Practical considerations for assessing and remediating a contaminated urban area
  - Kinds of information to have in advance
  - Kinds of information to obtain in case of an event
  - Kinds of information to be produced by the models

Thank you

- Borislava Batandjieva, IAEA Scientific Secretariat
- Members of the Urban Remediation Working Group