EMRAS - Theme 2
Remediation of Sites with Radioactive Residues

Urban Remediation Working Group

8-11 November 2004

Vienna

Objective of the Working Group

Testing and improving the prediction of dose rates and doses to humans for urban areas contaminated with dispersed radionuclides

Specific Objectives

- **Prediction of changes in radionuclide concentrations or dose rates as a function of location and time**
- **Identification of the most important pathways for human exposure**
- **Prediction of the reduction in radionuclide concentrations or dose rates expected to result from specific countermeasures or remediation efforts**

Progress of Working Group

- Meetings in September 2003, April 2004
- Selection of initial modelling scenario
- Development of scenario description
- Distribution of draft scenario description

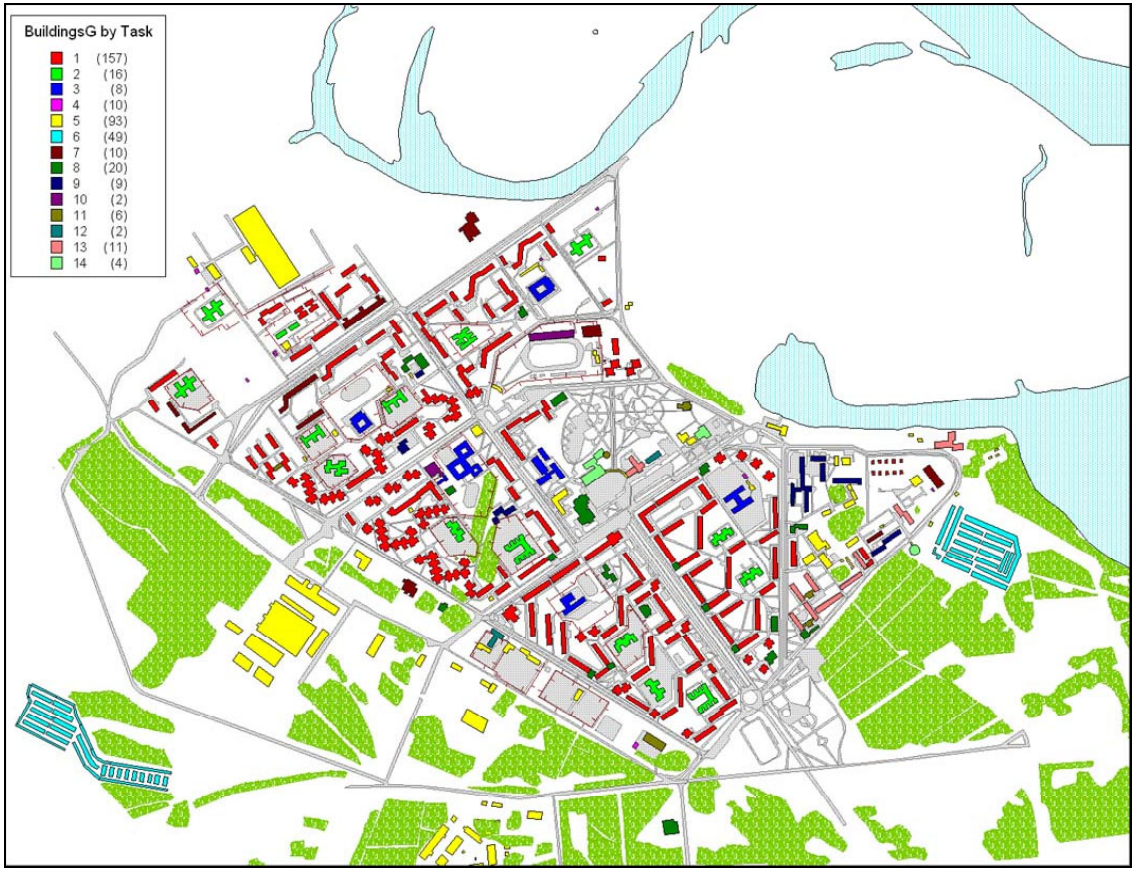
Initial modelling scenario:
Chernobyl fallout in three Ukrainian towns

- **Pripyat**
  - **Evacuated soon after accident, uninhabited since then**
- **Polesskoe**
  - **Remained inhabited after accident**
- **Slavutych**
  - **Built after accident on contaminated ground**

Scenario Description

- Background information
- Contaminant situation at defined locations and times
- Countermeasures, remedial efforts, restrictions, etc.
- List of endpoints to be modelled
  - Dose rates at specified times and locations in each town

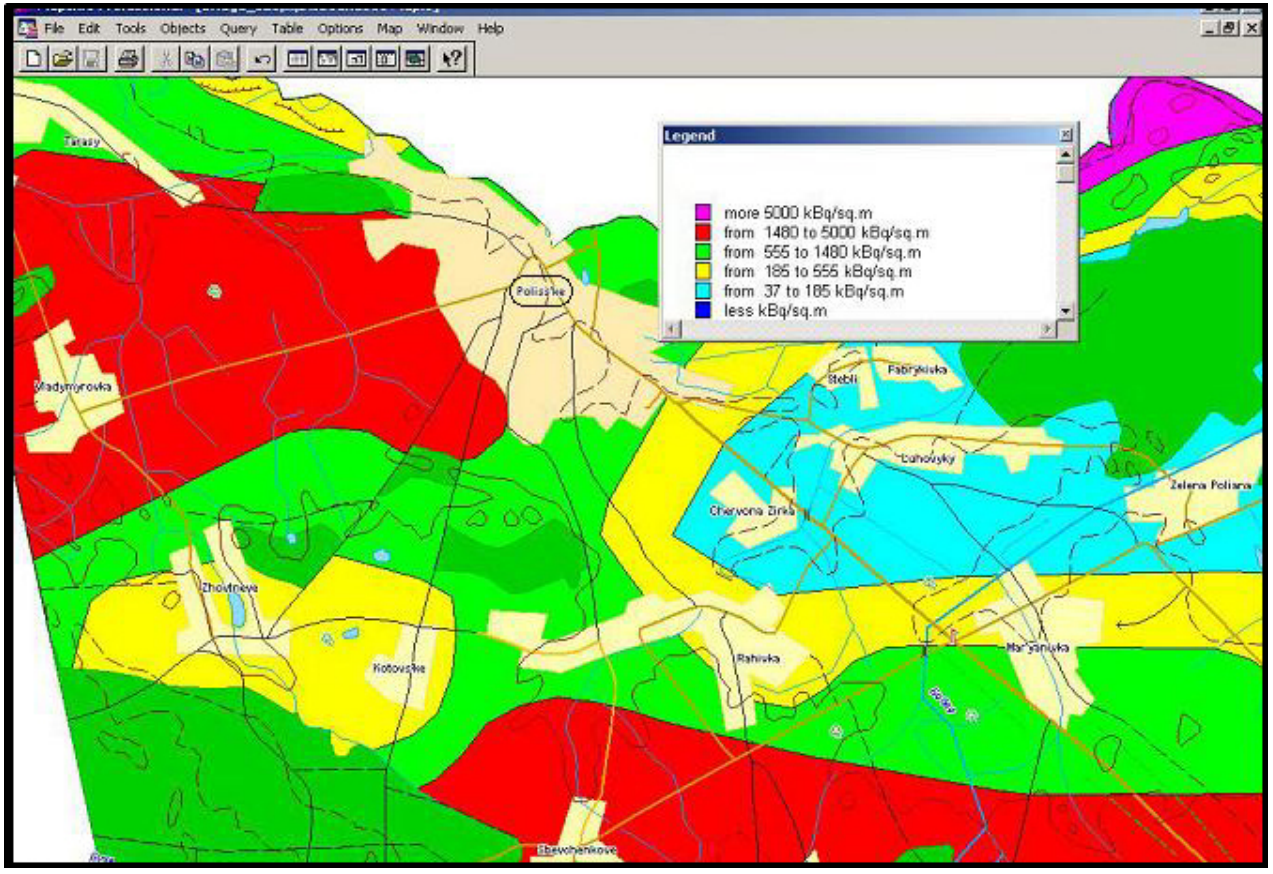
Geographical Information



Vegetation types

Building types

Radiological information



Plans for Current Meeting

- **Discussion of scenario description**
- **Development of timetable for modelling exercise**
- **Discussion of models and modelling approaches**
- **Discussion of additional Working Group activities**