

# EMRAS & the Future: Where do we go from here? The NORM Working Group



# **FUTURE WORKPLAN**

- **Completion of existing work**
- **Applications of modelling**
- **More interaction with other working groups**
- **Integration of model output with other Agency safety assessment tools**

# Completion of existing work

- Testing of scenarios (real & hypothetical)
- Testing and comparison with additional models not yet used
- Preparation of guidance on selection and application of models and the choice of appropriate input data for models
- Methods of disseminating modelling results
  - Scientific and technical publications
  - Stakeholder communications

# Applications of modelling

- Case studies (real or hypothetical)
  - New projects
    - Expansion of uranium mining industry
      - Modelling
        - Prediction
        - Assessment
  - Existing operations
  - Legacy sites and buildings
  - Other

# Applications of modelling - 1

Case studies: new projects (e.g. uranium facilities)

- environmental impact of proposed operation – different options - planning
- dose assessments to workers and public – different options
- emergency situations
- waste and residue management options
- decommissioning
- remediation options

# Applications of modelling - 2

## Case studies: existing operations

- environmental impact assessment
- dose assessments to workers and public – different options
- emergency situations
- waste and residue management options
  - use, disposal, storage
- decommissioning
- remediation options

# Applications of modelling - 3

Case studies: legacy sites and buildings

- environmental impact assessment
- dose assessments to workers and public –  
different options - dose reconstruction
  - undisturbed site
  - disturbed site
- emergency situations - mud slide, dam collapse
- comparison of remediation options - planning

# Applications of modelling - 4

## Case studies: further considerations

- Options for use of residues
- Study of scenarios requiring media-specific models, multiple sites, and/or multiple models
- Comparison of waste disposal options
- Probabilistic calculations



# Integration into Agency plans

- Evaluate options for the integration of model output with other Agency safety assessment tools such as SAFRAN currently being prepared in the Waste & Environmental Safety Section
- This is intended to extend the range of capabilities in the Agency Safety Tool Kit