Everyone is exposed to ionising radiation via natural background sources. Medical and industrial uses of radiation can add to these exposures. For the public natural background sources dominate and medical sources are usually the greatest artificial source. It is important therefore to understand the risks to health that radiation poses at all levels but especially at the low levels which predominate and where direct evidence of health effects is not available. Understanding the risk at low doses is important for the further development of the protection system.

How robust is the system of radiation protection and risk assessment?

The current system of radiation protection makes judgements in several important areas: the four blue boxes indicate judgements that fall directly within the system of protection against the low dose radiation effects as recommended by ICRP, whereas the boxes on the right identify issues that are, at present, included only to a minor degree.

Aim of DoReMi

- To promote sustainable integration of low dose radiation risk research in Europe.
- To act as an operational tool to develop the MELODI platform (Multidisciplinary European Low Dose Initiative) that was established in 2010 to sustain this research area.
- To address the key policy questions identified by the HLEG (High Level and Expert Group) Report on Low Dose Risk Research by coordinated interdisciplinary research, education and dissemination activities.

DoReMi Work package structure

- WP1 Network coordination
  Sisko Salomaa, STUK

  WP3 Education and Training
  UNIPV

  WP4 Infrastructures
  CEA

  WP5 Shape of Dose Response
  HPA

  WP6 Individual sensitivities
  HMGU

  WP7 Non-cancer Effects
  IRSN

- WP2 Structuring MELODI
  IRSN

DoReMi consortium:

1. Radiation and Nuclear Safety Authority, STUK, Finland
2. Institut de Radioprotection et de Sûreté Nucléaire, IRSN, France
3. Helmholtz Zentrum München, HMGU, Germany
4. Commissariat à l’Energie Atomique, CEA, France
5. Health Protection Agency, HPA, United Kingdom
6. University of Pavia, UNIPV, Italy
7. Istituto Superiore di Sanità, ISS, Italy
8. Belgian Nuclear Research Centre, SCK-CEN, Belgium
9. Bundesamt für Strahlenschutz, BfS, Germany
10. University of Stockholm, SU, Sweden
11. Centre for Research in Environmental Epidemiology, CREAL, Spain
12. Institut Curie, IC, France