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China and Europe**

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Title: Set of E-R functions for health outcomes agreed; Well-being measured defined
and agreed

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This deliverable introduces the first set of exposure-response (E-R) functions for agreed health outcomes for estimation of health and well-being impacts of GHG policies.

This document is related to a series of tables (see the associated excel file) with agreed health and well-being endpoints for which E-R functions were available or to be identified:

- 1) E-Rs functions for Health outcomes
- 2) E-Rs functions for Wellbeing outcomes.

The tables are a development of the work developed in DEL 6.1

The complete list of E-Rs functions was developed in one file with two separate worksheets, one for Exposure-Response Health Endpoints and one for Well-being. The excel worksheet was uploaded in Opasnet.

Available Exposure-Response functions

A general warning is to consider that the relevance and validity of available Exposure-Response functions depends on the study design, policy question and local setting. Many data are available from previous European projects: INTARESE, HEIMTSA, CAFE, EnVIE, URBIS and TRANSFORM. Other projects, such as HRAPIE, REVIHAAP or TRANSPHORM are in progress and new updated E/R are expected to be published during 2013. It is possible that some E-Rs in the accompanying tables, particular those for air pollution, may be revised in the light of this ongoing work.

Well-being

The quantitative assessment of well-being effects is difficult but some studies have produced interesting results. The wellbeing form produced in this deliverable is based on the “Health outcomes” approach. In particular, for the proposed indicators estimated change in direction of the effect of a change for the selected indicator are provided. In few words, there are quantitative effects measurements, when available. This is a very important challenge and WP6 partners are open to discuss questions and options. The University of Exeter is also working on the conceptualization of wellbeing in the URGENCE context and a document is expected to be circulated in June 2013.

Comment on the data structure

A datasheet was built to specify the Exposure-Response information and functions available. The working table was produced based on the results of the INTARESE project.

Fields include:

- Risk factor
- Health effect
- Exposure metric
- Odds Ratio
- Relative Risk
- Source of CRF
- Total Population Background Rate of Disease (per year)
- Unexposed Population Background Rate of Disease (per year)
- Age Group
- Population
- Impact Function.

An additional worksheet includes all relevant references.