

C) Data sets available:

Name	Description	Comment
Country_Totals_LAU-UN_2000	Country totals of the basic dataset for 2000.	For countries where no census data on LAU level 2 was available, UN data are taken (see part A of this Annex).
Country_Totals_UN_future	Country totals for the years 2010, 2020, 2030, 2050. Source: UN data	For 2020, 2030 and 2050 three variants are given: low (l), medium (m) and high (h). <i>The medium variant should be used for estimating health effects.</i>
Age_group_fractions_LAU-UN_2000_country_level	Age group fractions on a country level for 2000 (based on the basic dataset).	For countries where no census data on LAU level 2 was available, UN data are taken for deriving the age group fractions (see part A of this Annex).
Age_group_fractions_UN_future_country_level	Age group fractions on a country level for the years 2010, 2020, 2030 and 2050 (based on UN data).	For 2020, 2030 and 2050 age group fractions for three variants are given: low (l), medium (m) and high (h). <i>Age group fractions of the medium variant should be used for estimating health effects.</i>
Age_group_totals_country_level	Age group totals on a country level for 2000 (based on the fractions given in table <i>Age_group_fractions_LAU-UN_2000_country_level</i> and the country totals given in table <i>CountryTotals_LAU-UN_2000</i>) and for 2010, 2020, 2030 and 2050 (based on the fractions given in table <i>Age_group_fractions_UN_future_country_level</i> and the country totals given in table <i>CountryTotals_UN_future</i>).	
Emep_grid_LAU-UN_all_groups_2000	Population by Emep 50 km x 50 km grid cell, for 2000, for all age groups.	

Emep_grid_UN_all_groups_future	Population by Emep 50 km x 50 km grid cell, for the years 2010, 2020, 2030 and 2050, for all age groups and all variants.	
Emep_grid_LAU-UN_all_groups_2000_with_countries	Same as Emep_grid_LAU-UN_all_groups_2000 but including information on countries.	One grid cell occurs several times if it lies in different countries.
Emep_grid_UN_all_groups_future_with_countries	Same as Emep_grid_UN_all_groups_future but including information on countries.	One grid cell occurs several times if it lies in different countries.
Pop_UrbRur_EMEP50	Urban and rural population on the Emep 50 km x 50 km grid; also fractions of both	Prepared by Danielle Vinneau (IC); documentation will follow later
CountryID	CountryID, Country name and comments	
EmepID	Indexing for Emep 50 km x 50 km grid cells	Different indexing: Emep50_i_j is just concatenating Emep50i and Emep50j. EmepID is calculated via $(j-1)*132+i$ It is suggested to use Emep50_i_j as most partners are working with this index.
Intersection_country_Emep_grid_fraction	Intersection file for Country – Emep grid. Two columns: Area_Incl_Sea: means that the intersection is done by area-weighting; Area_Incl_Land: is the same BUT it includes that people are not living in the sea: so for cells lying at the sea the are is still 100% although maybe only 80% are land and 20% are sea → useful for allocating population data!	

Data sets have mainly been derived by **Alexandra Kuhn (USTUTT)** and partly by **Danielle Vinneau (IC)** (Emep_grid_urban_rural), partly based on data sets provided by **Danielle Vinneau (IC)**, with the help of **Aileen Yang (NILU)** and **Joachim Roos (USTUTT)**.