**Grant Number**: EP/T030100/1

**Sponsor:**

**Project title**: A Systems Approach to Air Pollution (ASAP) East Africa

The following files have been archived:

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| ARTICLE-ANNUAL-DICE-EDGAR\_REP\_SSA-D01\_v3\_REPOS | Emission inventory in netcdf format providing anthropogenic emissions combined from the original emission inventory EDGARv.4.3.2 (https://doi.org/10.5194/essd-2018-31) and DICE-Africa (https://doi.org/10.1021/acs.est.6b02602). The emissions are relative to the year 2013.  The inventory has been interpolated over population density relative to year 2017 by the emission pre-processor of the chemistry-transport model CHIMERE v2017r4 (https://www.lmd.polytechnique.fr/chimere/).  The inventory has been used as input for the creation of the anthropogenic emissions used in the context of the A Systems Approach to Air Pollution (ASAP) East Africa project to simulate the PM2.5 levels over the cities of Addis Ababa (Ethiopia), Kampala (Uganda) and Nairobi (Kenya) using the chemistry-transport model CHIMERE v2017r4.  The files are divided by pollutant and by sector and provide annual totals in tonnes/year. The spatial resolution of the emissions is the original of the two individual emission inventories: 0.1 × 0.1° (≈ 10 × 10km).  The combination of the two original emission inventories has been done following the methodology suggested by the authors of DICE-Africa.  The individual files inside the zip folder can be opened in a Unix environment using NCO operators (<http://nco.sourceforge.net/>) or using a graphical software in windows or mac such as ArcGIS (<https://www.arcgis.com/index.html>). |

**Publications**: Evaluation of WRF-CHIMERE coupled models for the simulation of PM2.5 in large East African urban conurbations