

Quantitative implementation of IPCC SSP Scenarios

The marker implementations of SSPs have been more or less completed by September 2016, based on the collective efforts of the climate research community. While the detailed outcomes of implementations on energy use and supply, land-use, emissions, climate change and policy-costs are not yet for public use, the time series data on population, GDP (under PPP), and urbanization share are open for the public (<https://tntcat.iiasa.ac.at/SspDb/dsd?Action=htmlpage&page=about>). For each SSP, a single population and urbanization scenario was developed by IIASA and the National Center for Atmospheric Research (NCAR). Scenarios on population include total population and population by sex, age cohort (5-years), and level of education for the world and for 5 and 32 macro regions, respectively, over the period of 2010-2100 in five-year time steps.

The GDP projections, over the period of 2010-2100 in five-year time steps, are based on harmonized assumptions for the interpretation of the SSP storylines in terms of the main drivers of economic growth. Three alternative interpretations of the SSPs by the teams from the OECD, IIASA and the Potsdam Institute for Climate Impact Research (PIK) are included in this dataset.

These population and GDP scenarios will provide the (exogenous) bases for MEDEAS' System-Dynamic (SD) models, Input-Output (IO) models and the integration of SD and IO models at global, EU, and case-study country levels