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Scenarios of the IPCC's Special Report on Emissions Scenarios (SRES)¹⁶

A1. The A1 storyline and scenario family describes a future world of very rapid economic growth, global population that peaks in mid-century and declines thereafter and the rapid introduction of new and more efficient technologies. Major underlying themes are convergence among regions, capacity building and increased cultural and social interactions, with a substantial reduction in regional differences in *per capita* income. The A1 scenario family develops into three groups that describe alternative directions of technological change in the energy system. The three A1 groups are distinguished by their technological emphasis: fossil intensive (A1FI), non-fossil energy sources (A1T), or a balance across all sources (A1B) (where balanced is defined as not relying too heavily on one particular energy source, on the assumption that similar improvement rates apply to all energy supply and end use technologies).

A2. The A2 storyline and scenario family describes a very heterogeneous world. The underlying theme is self-reliance and preservation of local identities. Fertility patterns across regions converge very slowly, which results in continuously increasing population. Economic development is primarily regionally oriented and *per capita* economic growth and technological change more fragmented and slower than other storylines.

B1. The B1 storyline and scenario family describes a convergent world with the same global population, that peaks in mid-century and declines thereafter, as in the A1 storyline, but with rapid change in economic structures towards a service and information economy, with reductions in material intensity and the introduction of clean and resource efficient technologies. The emphasis is on global solutions to economic, social and environmental sustainability, including improved equity, but without additional climate initiatives.

B2. The B2 storyline and scenario family describes a world in which the emphasis is on local solutions to economic, social and environmental sustainability. It is a world with continuously increasing global population, at a rate lower than A2, intermediate levels of economic development and less rapid and more diverse technological change than in the B1 and A1 storylines. While the scenario is also oriented towards environmental protection and social equity, it focuses on local and regional levels.

An illustrative scenario was chosen for each of the six scenario groups A1B, A1FI, A1T, A2, B1 and B2. All should be considered equally sound.

The SRES scenarios do not include additional climate initiatives, which means that no scenarios are included that explicitly assume implementation of the United Nations Framework Convention on Climate Change or the emissions targets of the Kyoto Protocol.

¹⁶ Source: M.L. Parry *et al.* (2007).

IFPRI IMPACT Model¹⁷

IFPRI's International Model for Policy Analysis of Agricultural Commodities and Trade (IMPACT) is a partial equilibrium agricultural model for crop and livestock commodities, including cereals, soybeans, roots and tubers, meats, milk, eggs, oilseeds, oilcakes/meals, sugar/sweeteners and fruits and vegetables. It is specified as a set of 115 country and regional sub-models, within each of which supply, demand and prices for agricultural commodities are determined. The model links the various countries and regions through international trade using a series of linear and non-linear equations to approximate the underlying production and demand functions. The current starting year is 2000 and the baseline incorporates FAOSTAT data on commodity, income and population; projections from the World Bank and the United Nations; a system of supply and demand elasticities from literature reviews and expert estimates; and rates for malnutrition from the UN Standing Committee on Nutrition and the World Health Organization. World agricultural commodity prices are determined annually at levels that clear international markets. Growth in crop production in each country is determined by crop and input prices, the rate of productivity growth, investment in irrigation and water availability. Demand is a function of prices, income and population growth.

¹⁷ Additional information about the model and its formulation can be found in Rosegrant *et al.* (2001) and documentation posted at [HTTP://WWW.IFPRI.ORG/THEMES/IMPACT.HTM](http://www.ifpri.org/themes/impact.htm).