

IPCC SRES Development Scenario I A1 World (Tiger World)

A future world of very **rapid economic growth**, **low population growth** and **rapid introduction of new and more efficient technology**.

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.

IPCC SRES Development Scenario II A2 World (Cultural Pluralism) A very heterogeneous world.

The underlying theme is <u>self-reliance and</u> <u>preservation of local identities</u>.

Fertility patterns across regions converge very slowly, resulting in <u>high population growth</u>. Economic development is primarily <u>regionally-oriented</u>, and per capita economic growth and technological change are more fragmented and slow compared to other storylines.

IPCC SRES Development Scenario III B1 World (New Sustainability Paradigm)

A convergent world with rapid change in economic structures toward a **service and information economy, reduction in material intensity** and the introduction of clean and resource-efficient technologies.

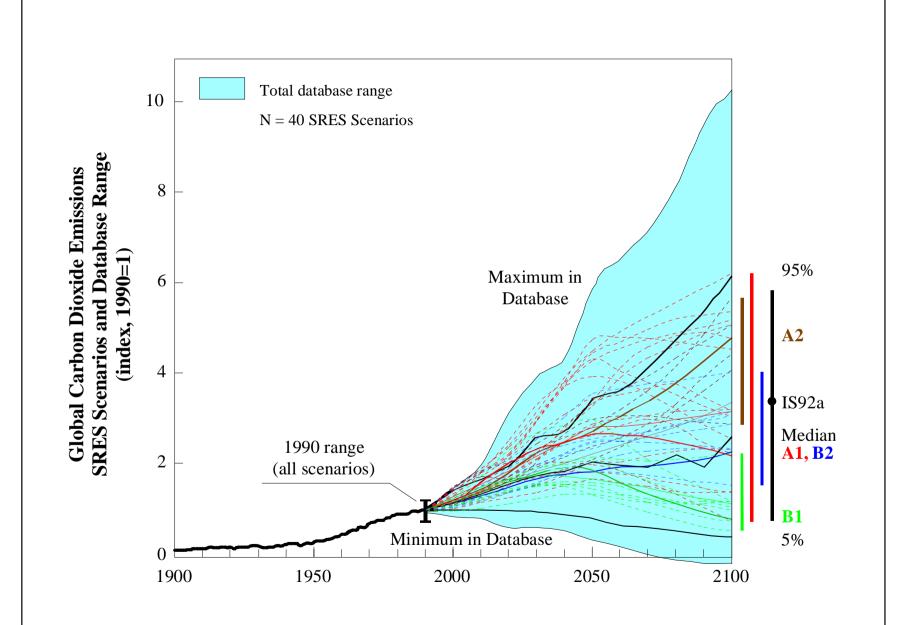
The emphasis is on <u>global solutions</u> to economic, social and environmental sustainability, including through improved equity, but without additional climate initiatives.

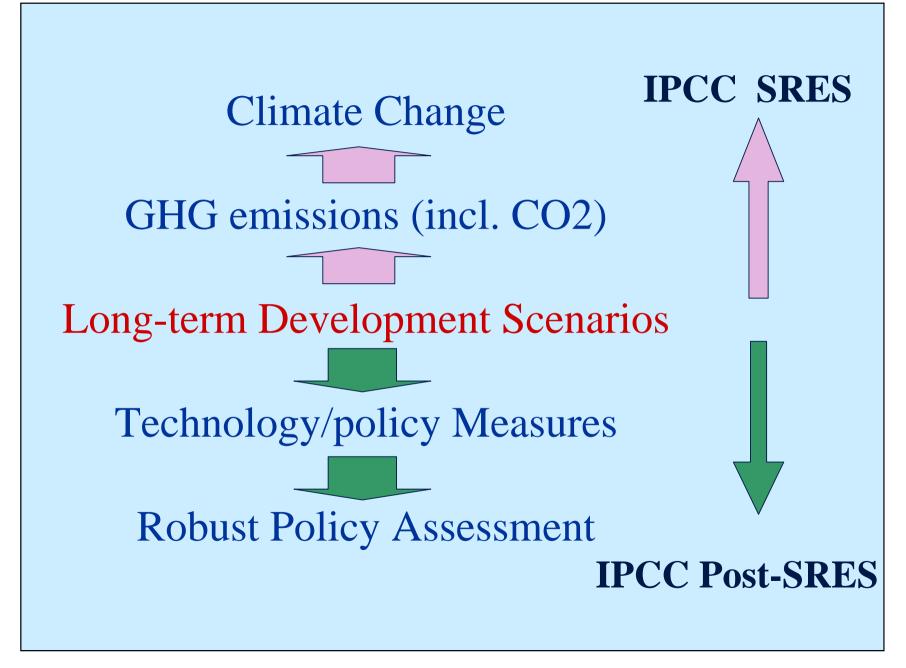
IPCC SRES Development Scenario IV B2 World (Mixed Green Bag)

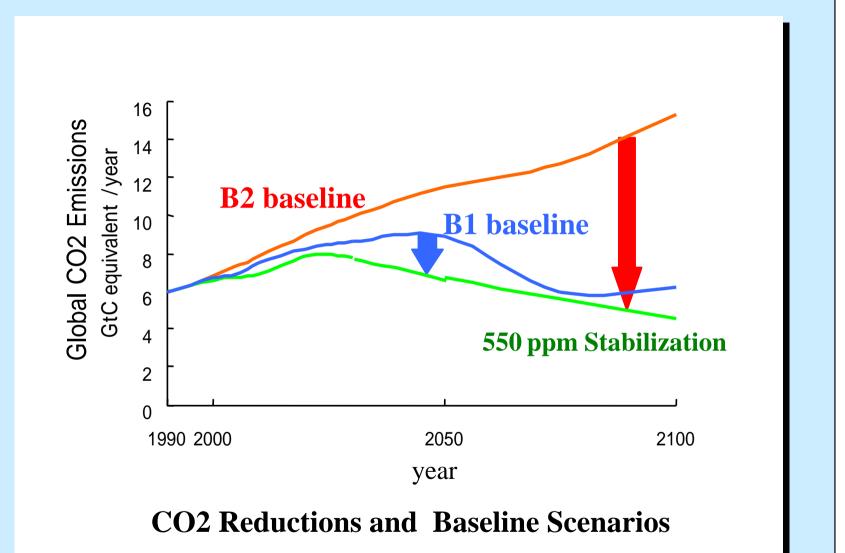
A world in which the emphasis is on <u>local</u> solutions to economic, social, and <u>environmental sustainability</u>.

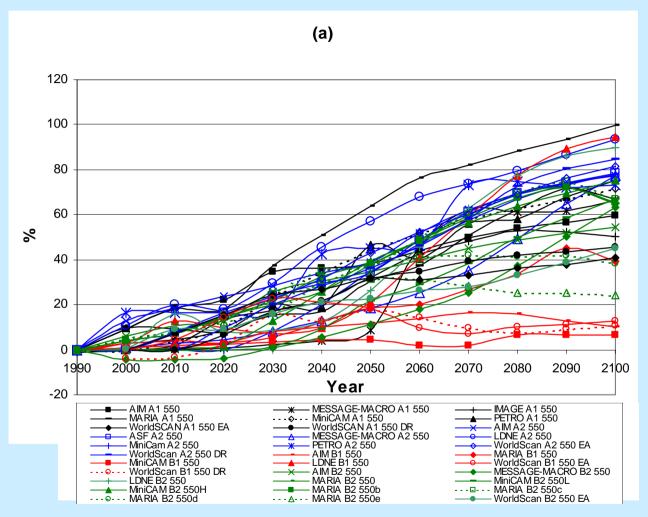
It is a world with less rapid, and more diverse technological change, but with a strong emphasis on community initiative and social innovation to find local and regional solutions.

While policies are also oriented towards **environmental protection and social equity**, they are focused on local and regional levels.









CO2 Emission reductions for all 550 ppm Stabilization: (a) Global

Several Findings from SRES and Post-SRES Project I (preliminary)

(1) SRES and Post-SRES analyses showed <u>the wide</u> <u>range of future development</u> path, which require <u>different technology/policy measures</u> and differentiate the cost of mitigation to stabilize global climate.

(2) In order to respond to the uncertainties, it is necessary to introduce more sophisticated assessment for climatic policy design.

Several Findings from SRES and Post-SRES Project II (preliminary)

(3) Reviewed scenario analyses showed that <u>energy efficiency</u> <u>improvements and afforestation</u> are <u>robust</u> enough to result in output for the different world views. The introduction of <u>low-carbon energy</u> is also robust, especially <u>biomass energy</u> introduction over the next one hundred years as well as <u>natural gas introduction</u> in the first half of the 21st century.

(4) If the <u>high-emission future worlds</u> were selected, either <u>nuclear or carbon sequestration</u> would increase their role in climatic stabilization. Solar energy and carbon sequestration could be recognized as an insurance in the latter half of the century for climatic stabilization.

Several Findings from SRES and Post-SRES Project III (preliminary)

(5) The scenario reviews strongly suggested the necessity of considering <u>equity issues between North and South</u>. Most of the mitigation scenarios clarified that, without GHG reduction in developing countries, it would be impossible in any future world to stabilize concentration at less than 550 ppmv.

(6) Some scenarios also warned the <u>strong pressures on next</u> <u>generations</u> to reduce GHG emissions. In the case of selecting the high-emission future world, much more severe measures have to be introduced during the years 2000 to 2020 in order to avoid a drastic increase in the burden on the next generation.

Several Findings from SRES and Post-SRES Project IV (preliminary)

(7) Very important conclusion emerging from recent scenario analyses is that it could be most effective to very significantly reduce GHG emissions through integration of climatic policies with general socio-economic policies, which are not customarily as climate policies at all. This in turn suggests that <u>more attention needs to</u> be paid to the linkage between climate policy and sustainable development policy.

