

Session IX Low Carbon Society toward 2050 Project

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Overall of Low Carbon Society toward 2050 Project

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Japanese climate policy scenarios toward 2050

Background:

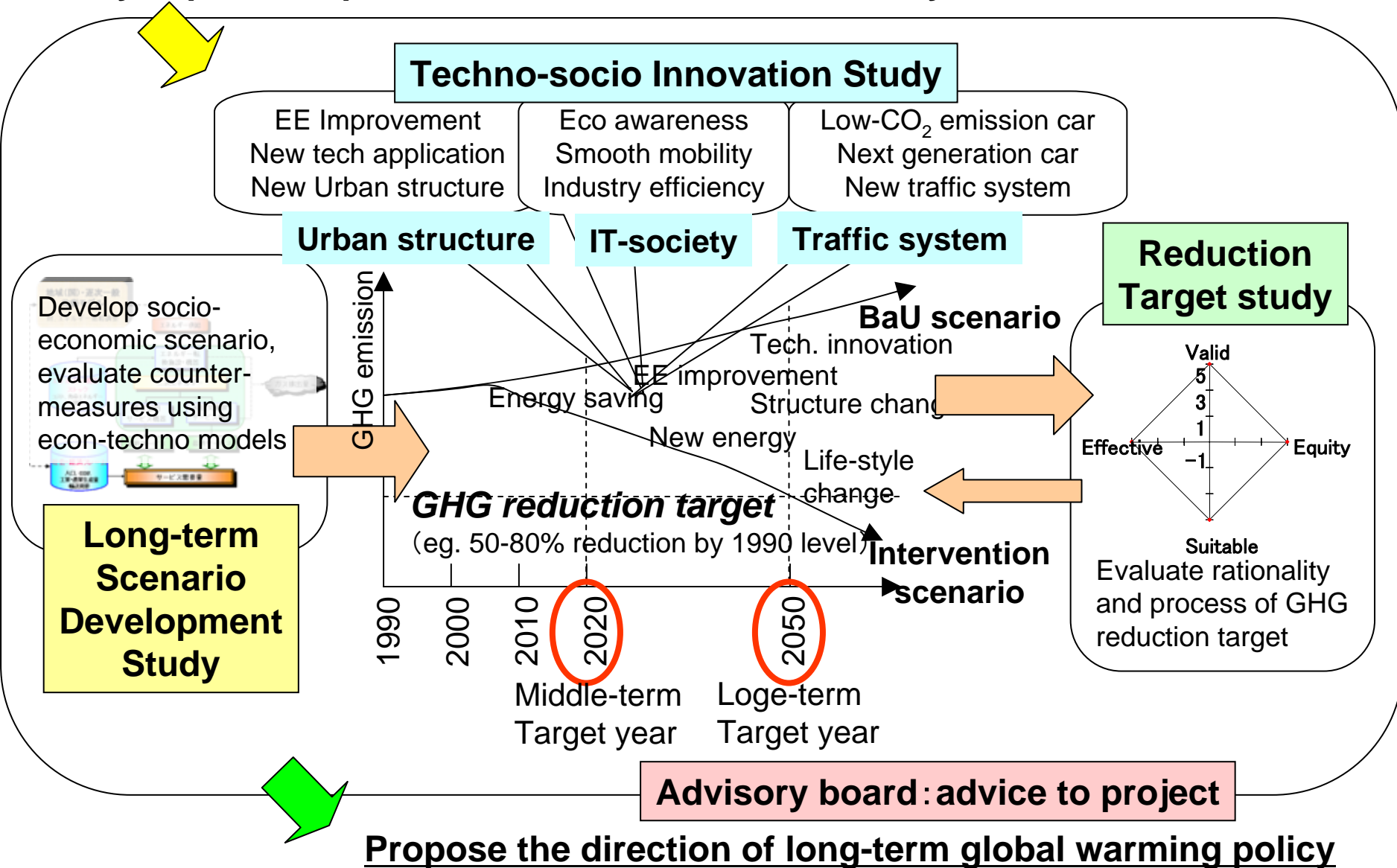
- UK, Germany, France, Sweden,,,,,: Long term climate strategies, reducing GHGs drastically toward 2050. Are those the paths we should follow?
- In UNFCCC and Japan: Beyond Kyoto Issue started. Quantitative base required.

Goal:

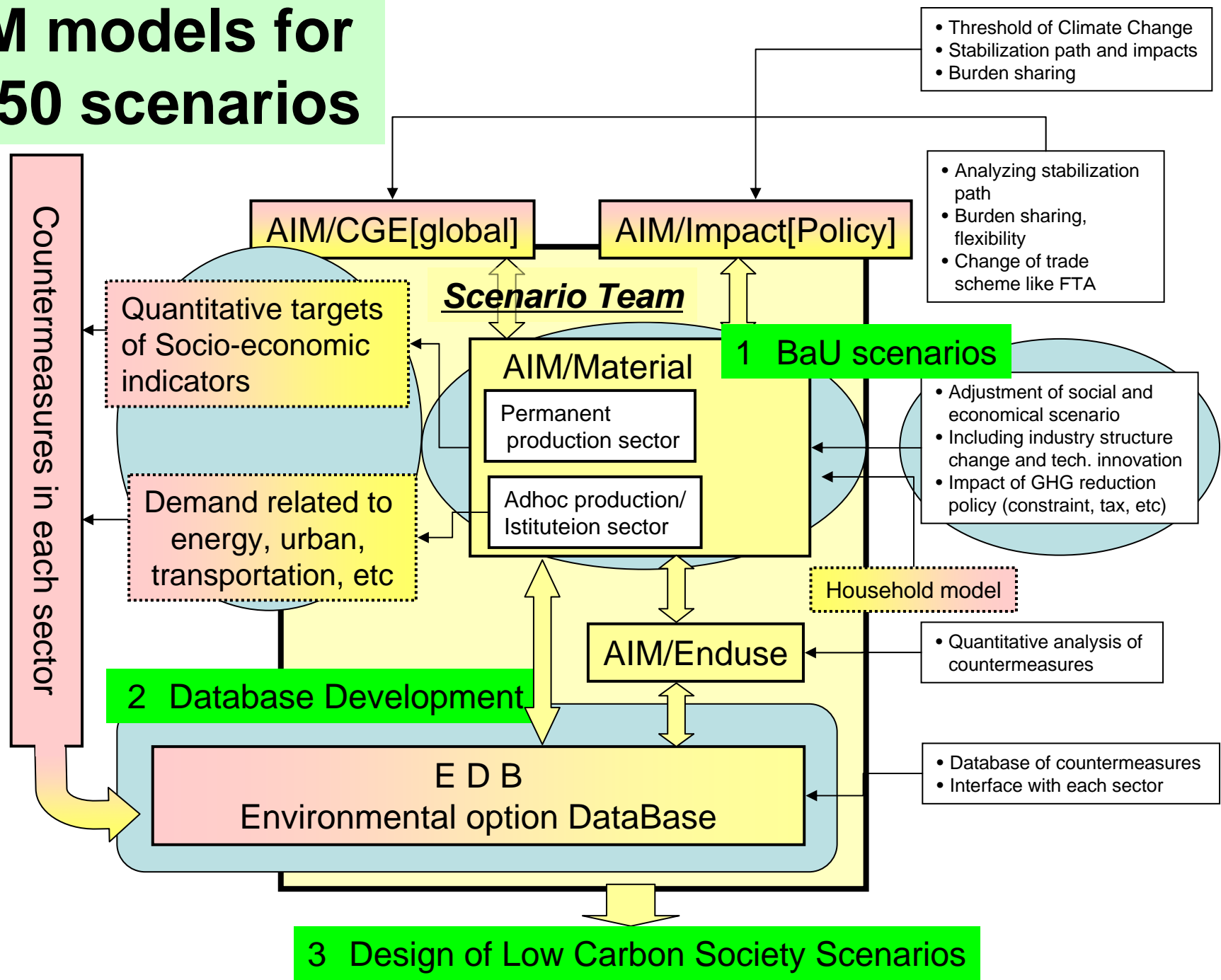
- To explore the possible paths to low carbon society in Japan toward 2050.
- Major output: GHG emission scenarios
- Various related research works.
 - How should we set policy target? (stabilization target, international burden sharing, sustainable development,,)
 - What technological and societal changes need to be introduced and how? (Options, Policy and Measures)
 - What implications these scenarios pose to future Japanese economy and society? (Evaluation of policies)

Japanese climate policy scenarios toward 2050

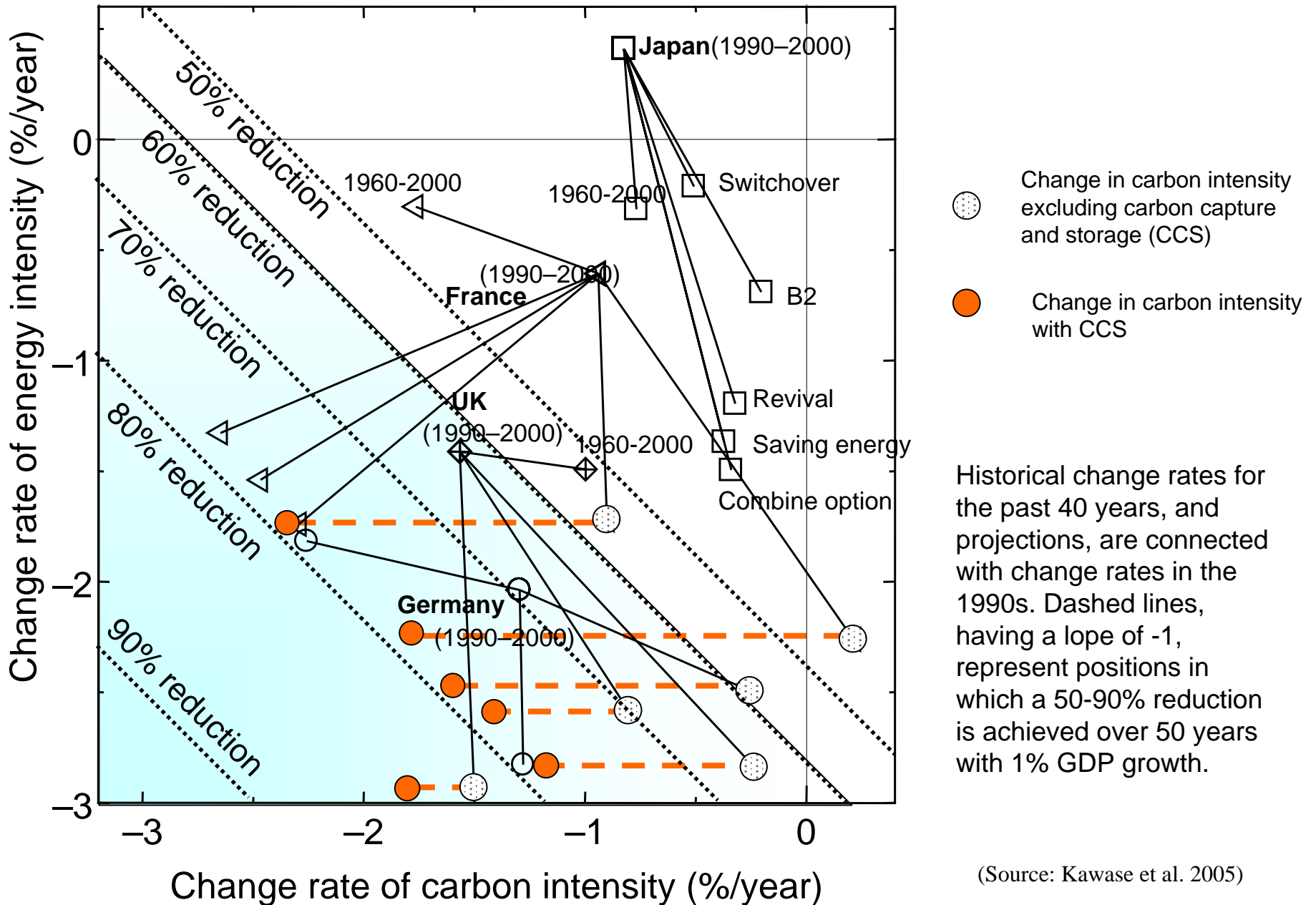
Study Japanese options toward climate sustainability



AIM models for 2050 scenarios



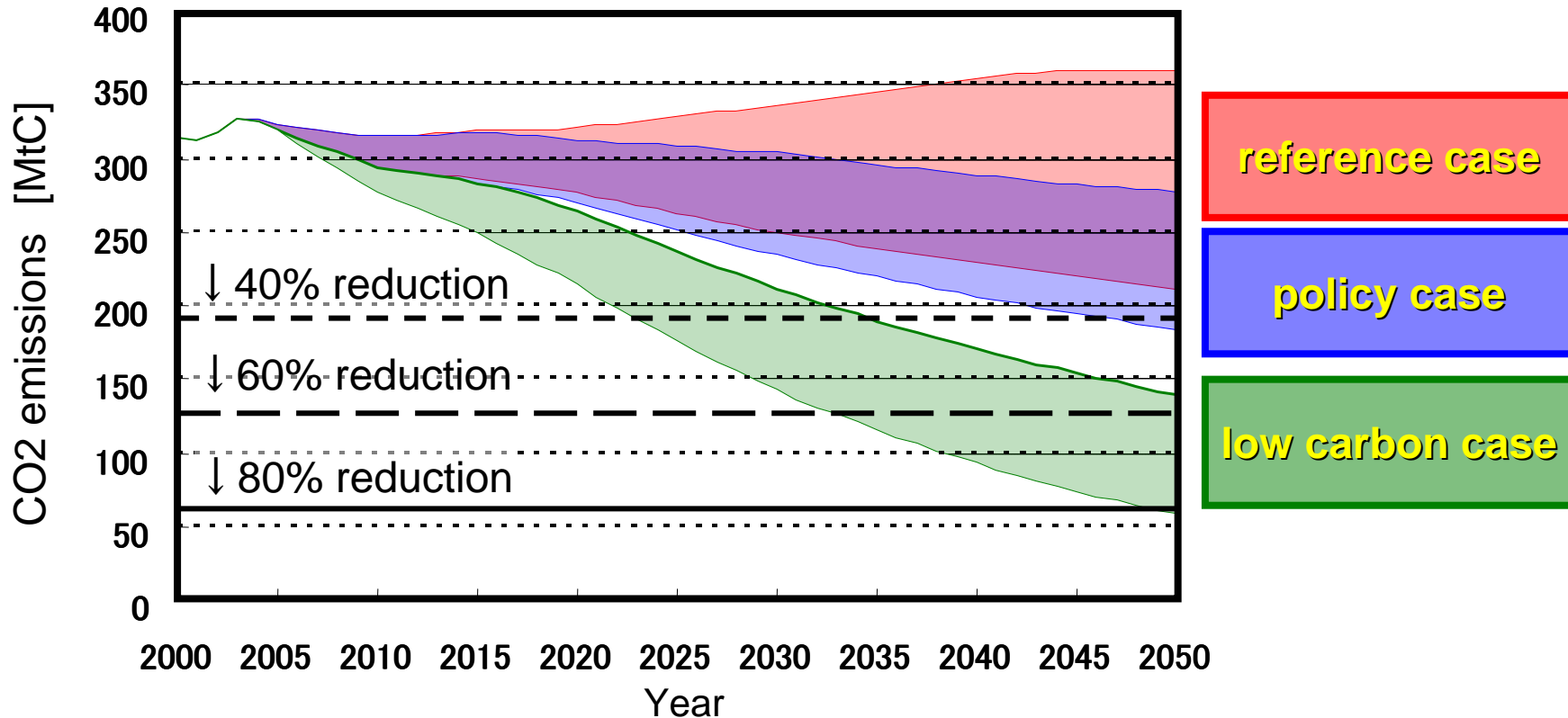
Change rates of energy/carbon intensity



(Source: Kawase et al. 2005)

Path toward Low Carbon Society

Masui:AIM20005



Energy Saving devices
Energy Supply change

Urban System Change
Industry Structure Change
Information Technology
Renewable energy
Consumption Behavior