

# **Needs and Effectiveness of LCS Research Collaboration in Asia**

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**4 July 2011**

**Symposium on Low Carbon Asia  
Research Projects**



# Needs of LCS Research

- Long term global goal
- Global collective mitigation efforts
- Full considerations of different circumstances of countries

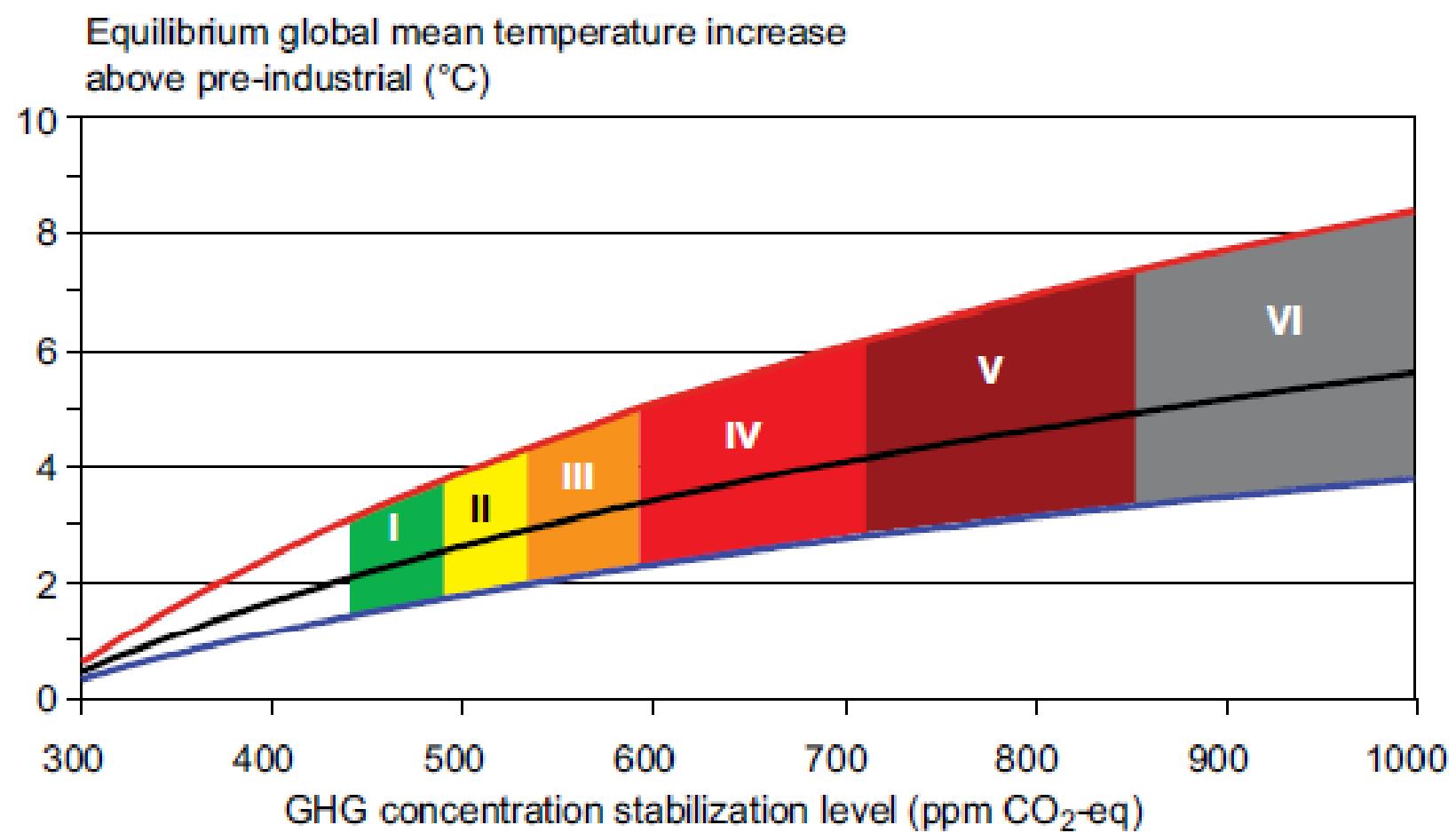


# Needs of LCS Research

- Transformation of our society
- Low carbon development: low energy intensity (Energy/GDP) and low carbon intensity (CO<sub>2</sub>/Energy)

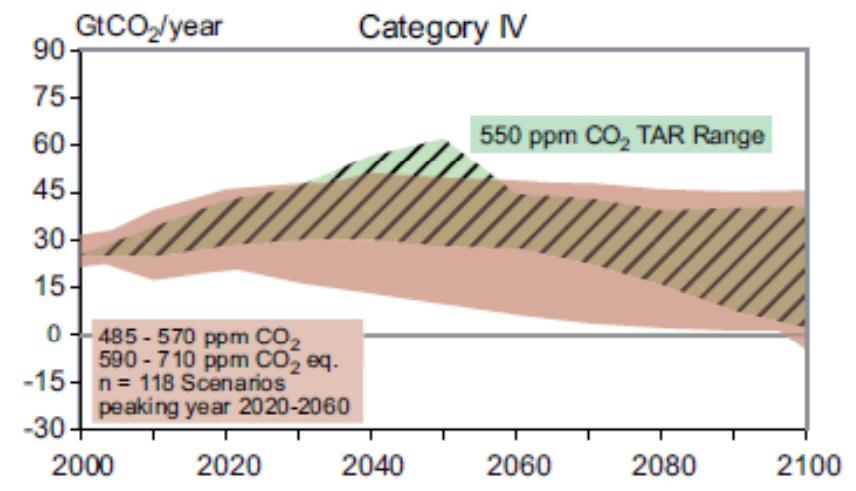
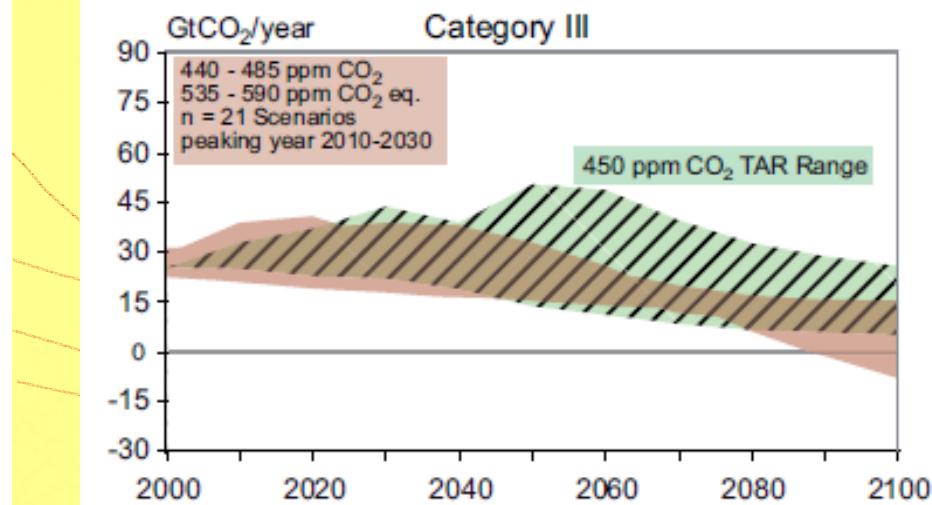
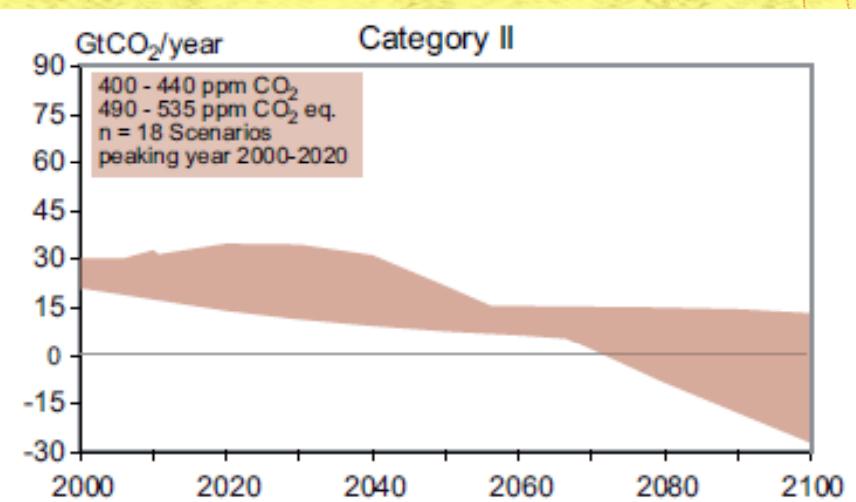
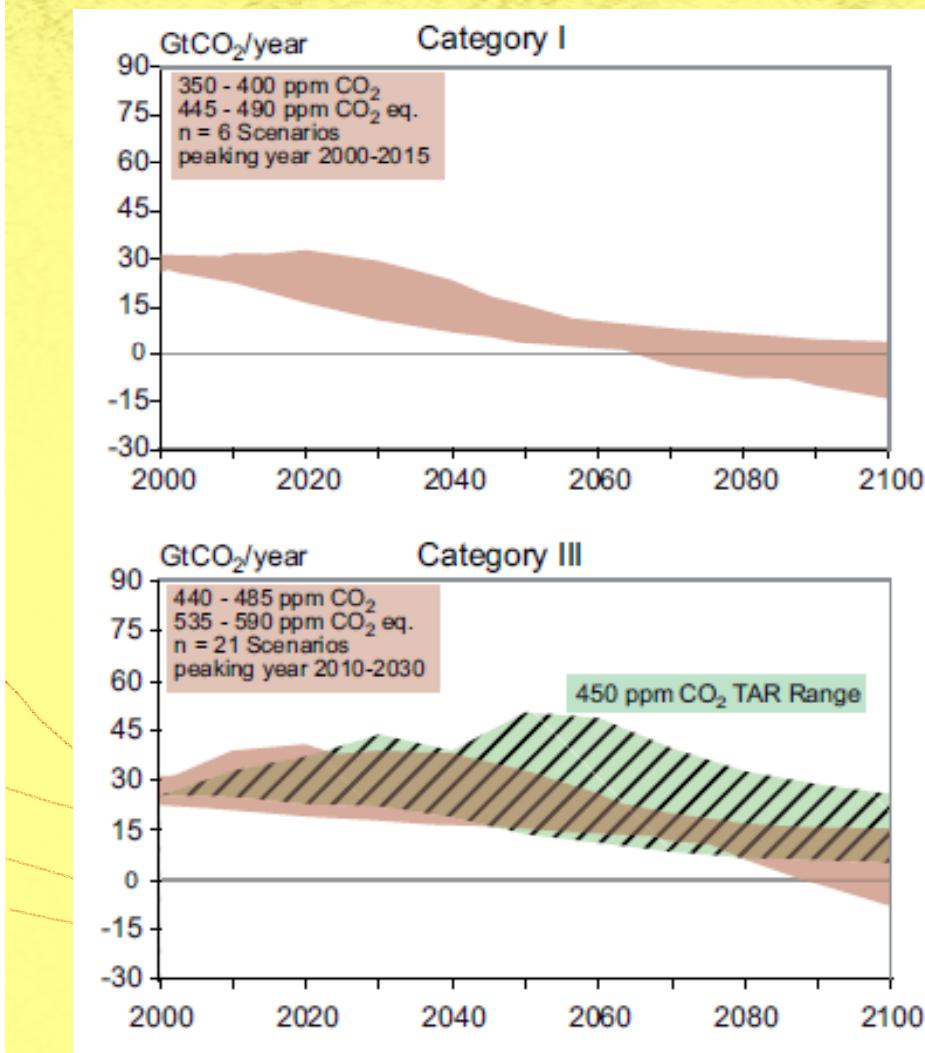
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## Stabilization scenarios and 2 °C



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## Emissions pathways of stabilization scenarios



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## Characteristics of stabilization scenarios

**Table SPM.5:** Characteristics of post-TAR stabilization scenarios [Table TS 2, 3.10<sup>a)</sup>]

# Our Common Question

- How can a country develop Low Carbon Society?
  - ▶ meeting long term goal
  - ▶ identifying emission pathways
  - ▶ transforming our society into new one

# Problems and Solutions

- How can we see LCS in 2050 and thereafter?
  - Scenarios with underlying integrated models, portfolio of technologies, land use change, country specific drivers, etc.



# Problems and Solutions

- How can we transform our society to LCS?
- Inter- and multi-disciplinary research for providing technology roadmap, drivers of behavior change, and policy actions roadmap



# Problems and Solutions

- How can we synthesize diverse expertise collectively?
  - Engineering, Economy, Social Science, Natural Science, etc.
- Networking of knowledge and expertise



# **Networking can provide proper answers to our common questions**

- LCSR-Net, launched in 2009 under G8 EMM initiatives, is mobilizing north-north cooperation and facilitating north-south and south-south cooperation

# Conclusions

- International network of researchers in countries will provide solutions for LCS: Country-base LCS Scenario, transition in society, roadmaps
- What are effective ways to promote LCS Research collaboration in Asia?