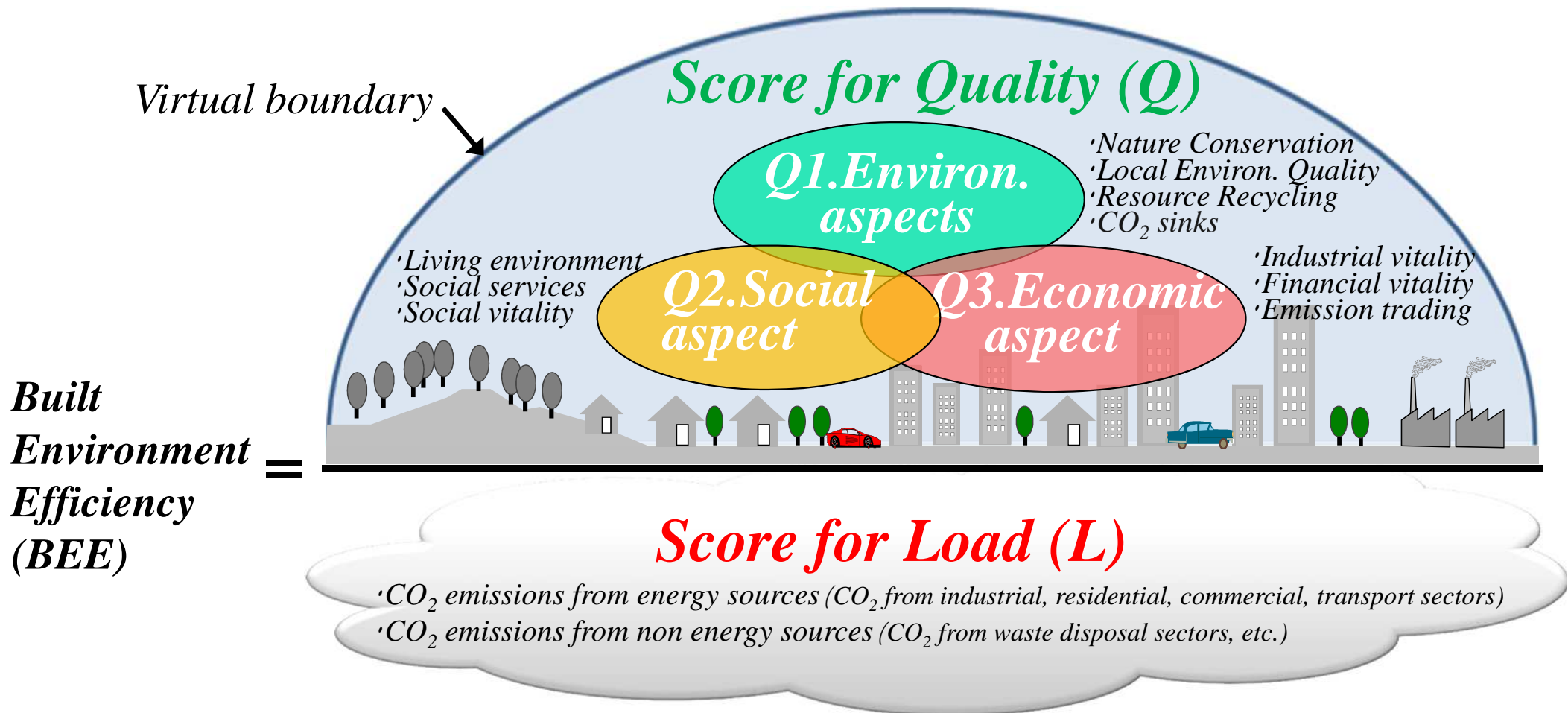


Assessment of Eco Model City based on CASBEE-City Integrating Environmental, Social and Economic Value

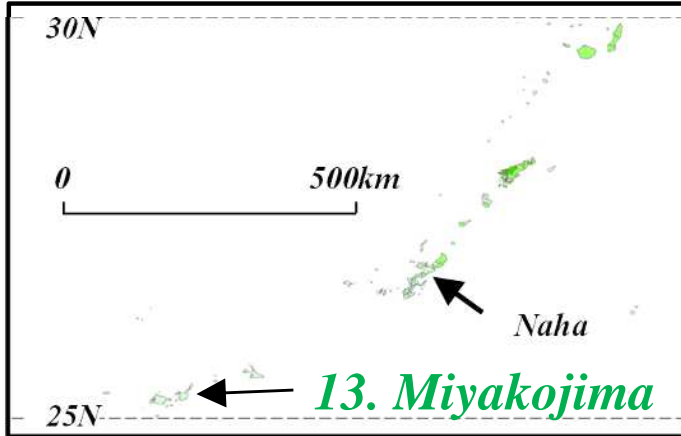
Toshiharu IKAGA, Dr. Eng.

Professor, Dept. of System Design Engineering, Keio University

Secretary General, R & D Committee on CASBEE



Built Environment efficiency ($BEE=Q/L$) in 2010

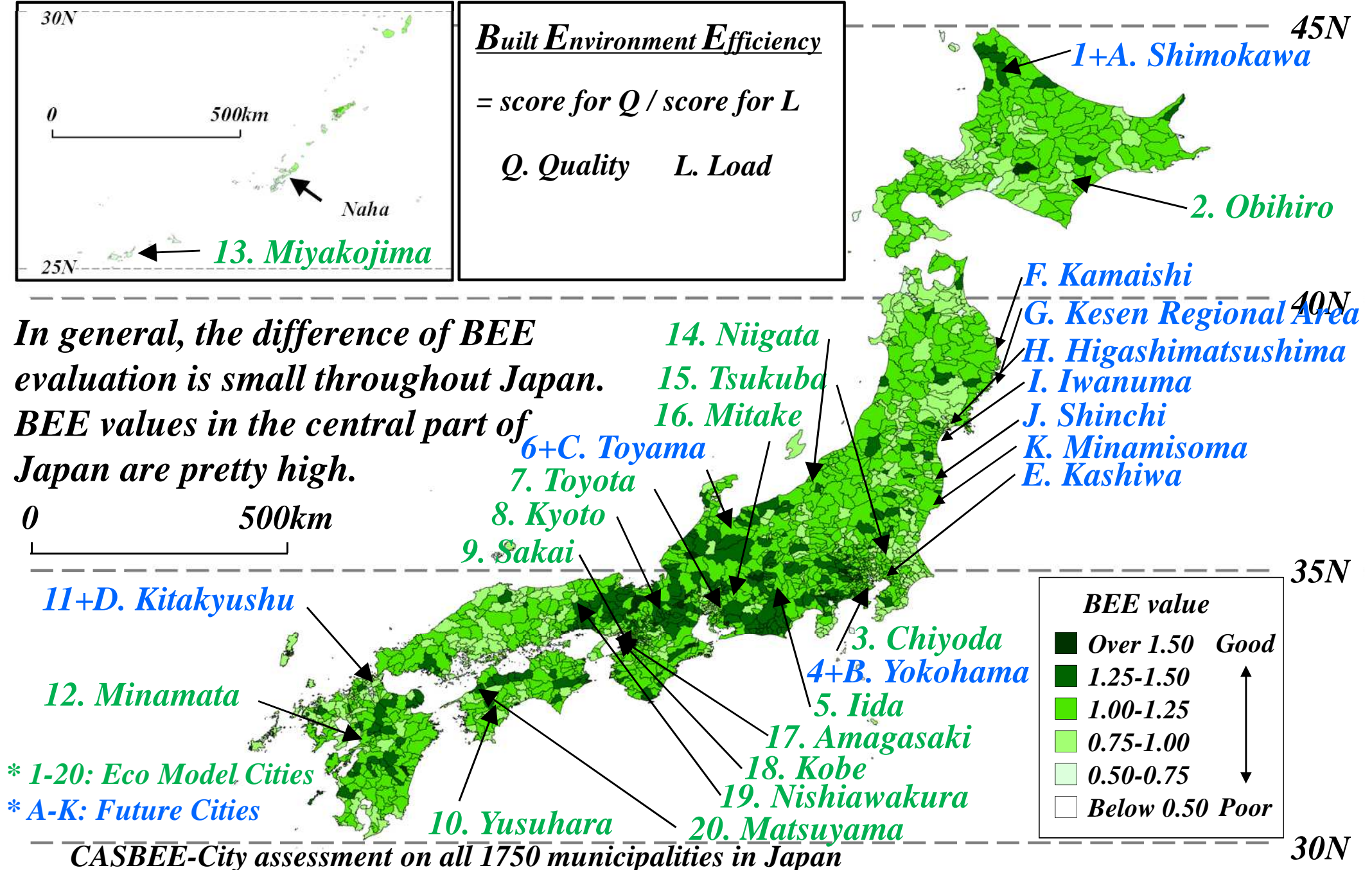


Built Environment Efficiency

= score for Q / score for L

Q. Quality L. Load

In general, the difference of BEE evaluation is small throughout Japan. BEE values in the central part of Japan are pretty high.



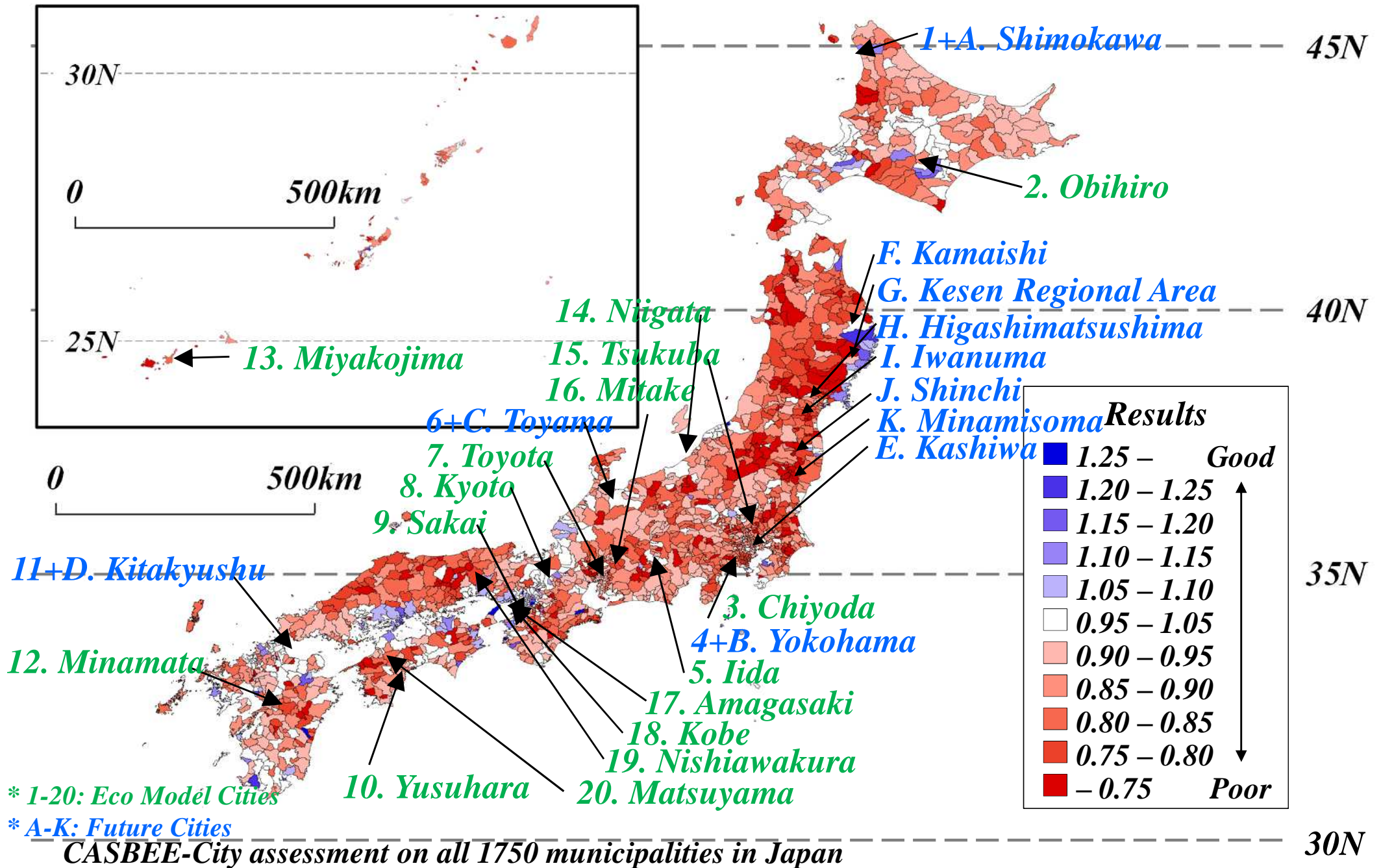
* 1-20: Eco Model Cities

* A-K: Future Cities

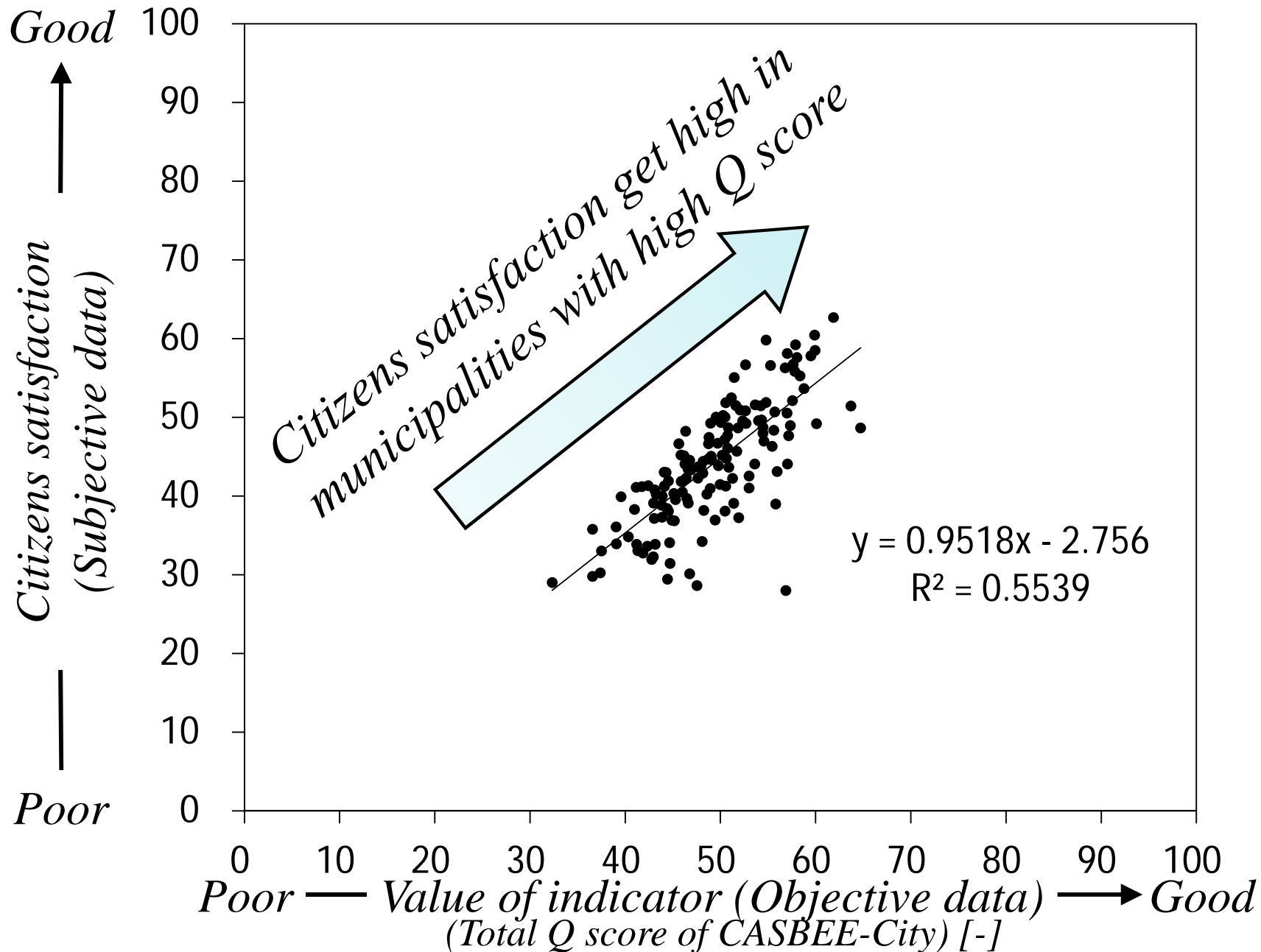
CASBEE-City assessment on all 1750 municipalities in Japan



BEE Change from 1990 to 2010

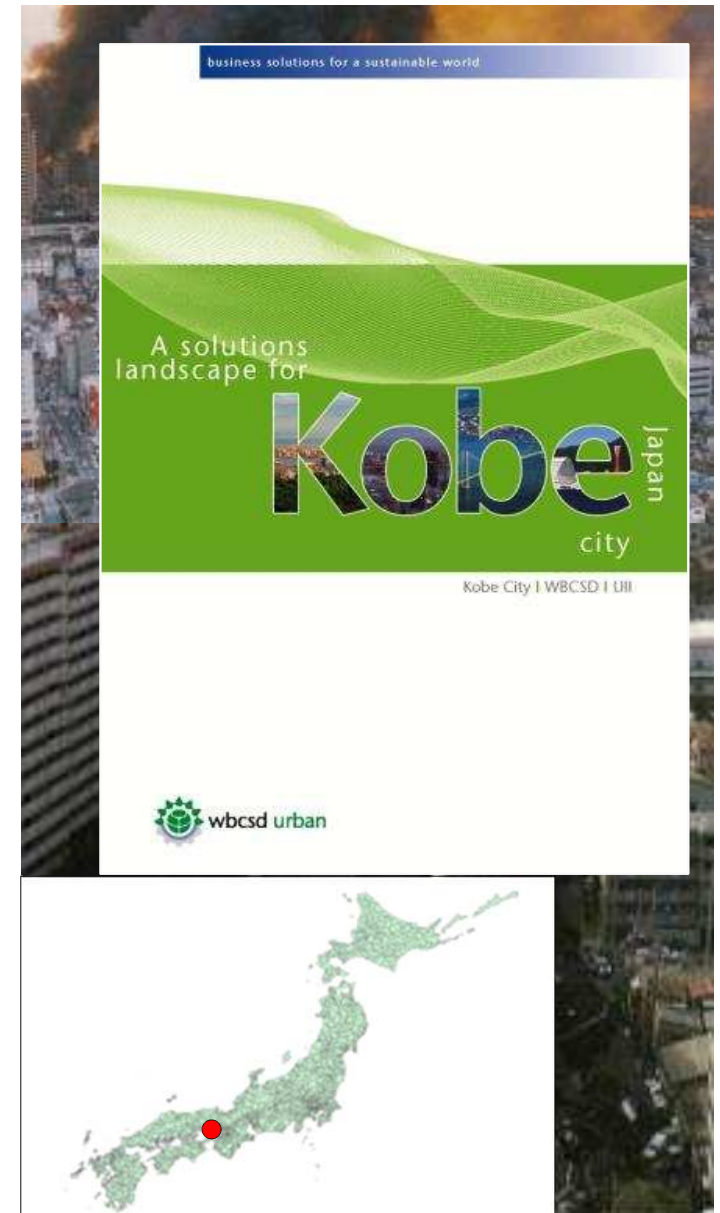
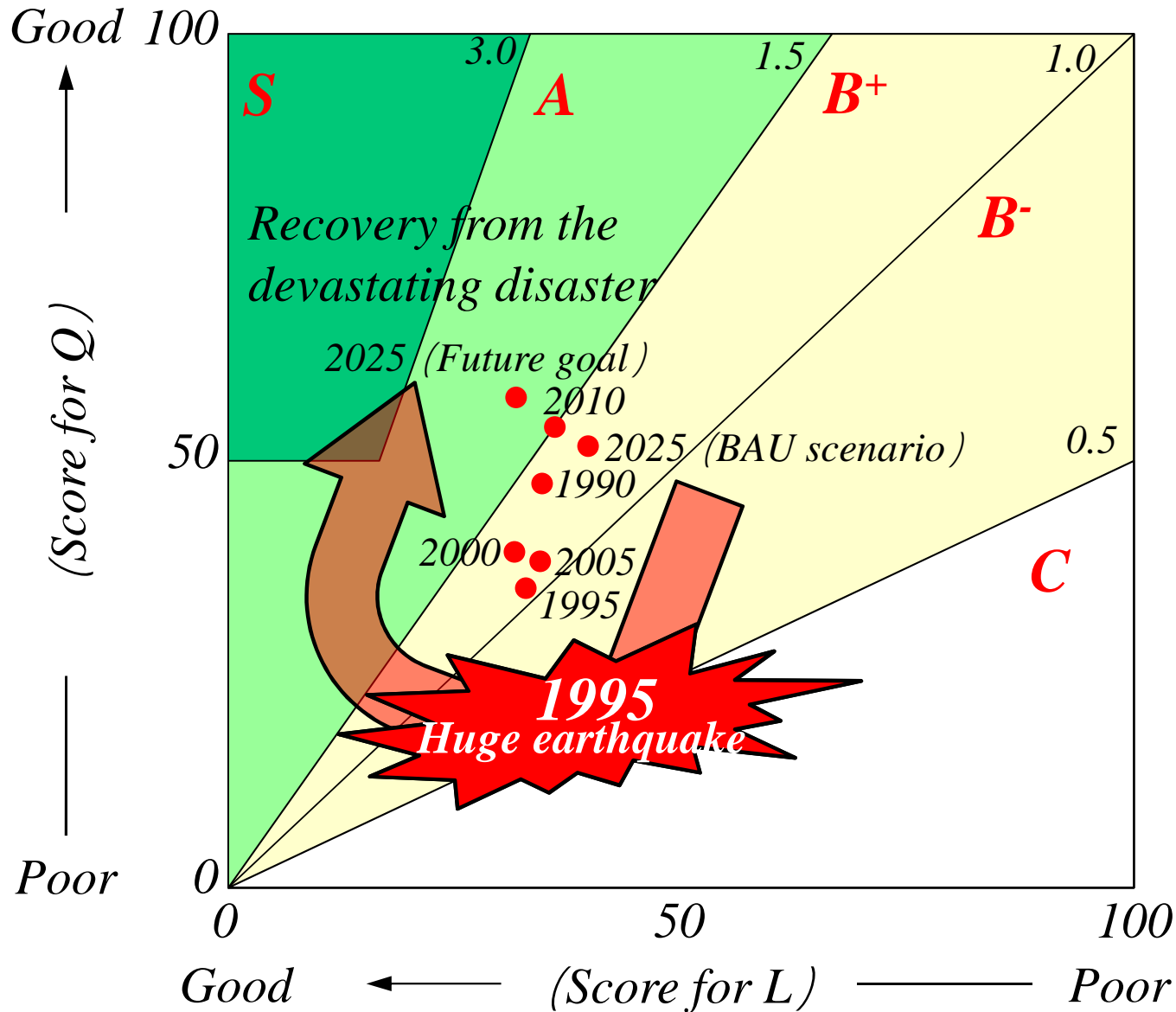


Validation of Total Quality Score by Questionnaire Survey on Citizens' Satisfaction



CASBEE Assessment on Kobe from 1990 to 2025

by Urban Infrastructure Initiative, World Business Council for Sustainable Development



<http://www.wbcd.org/uiikobereport.aspx>

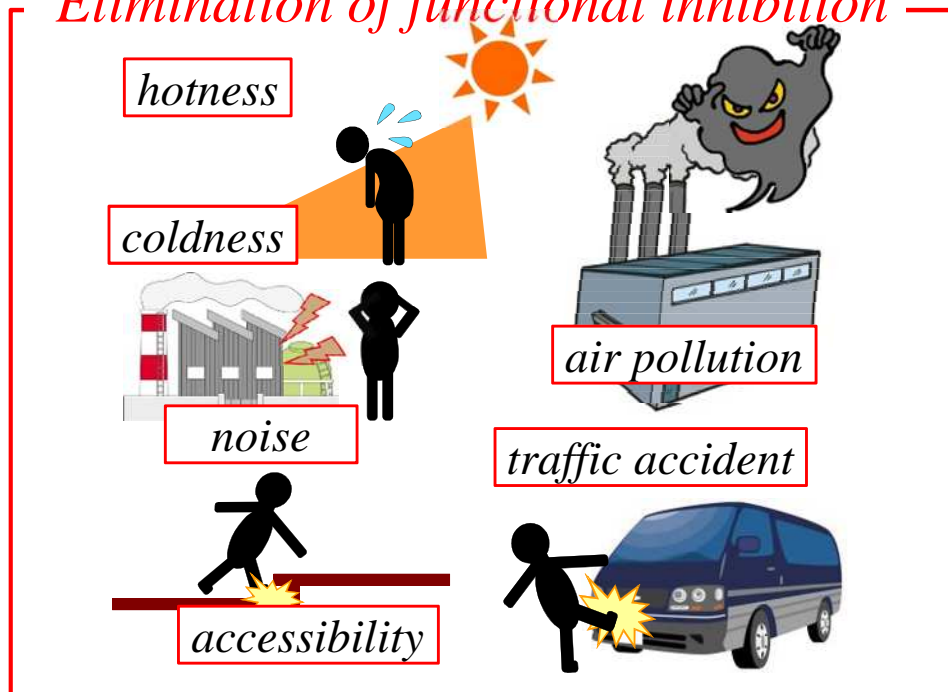


CASBEE Community Health Checklist

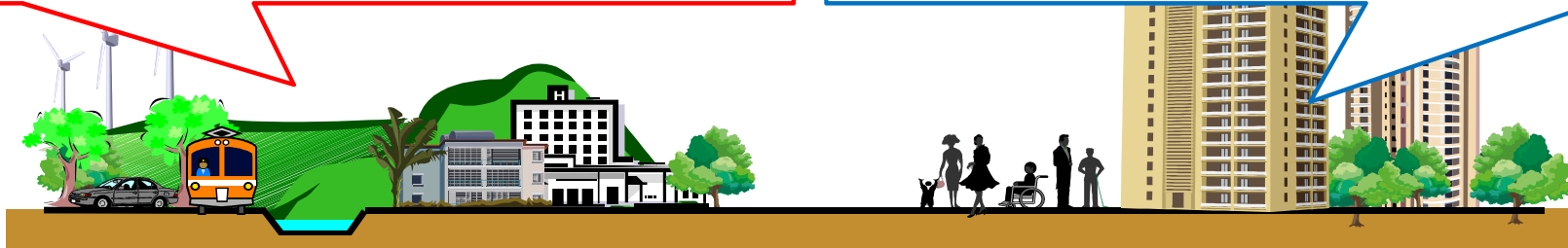
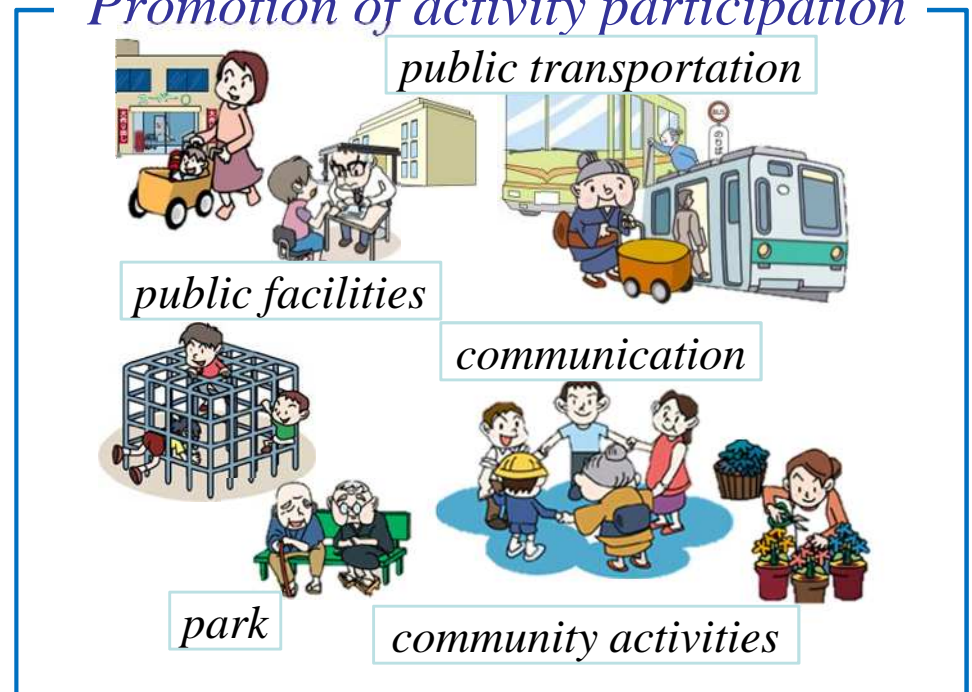
Residents look back on their daily life and check the current condition of their community



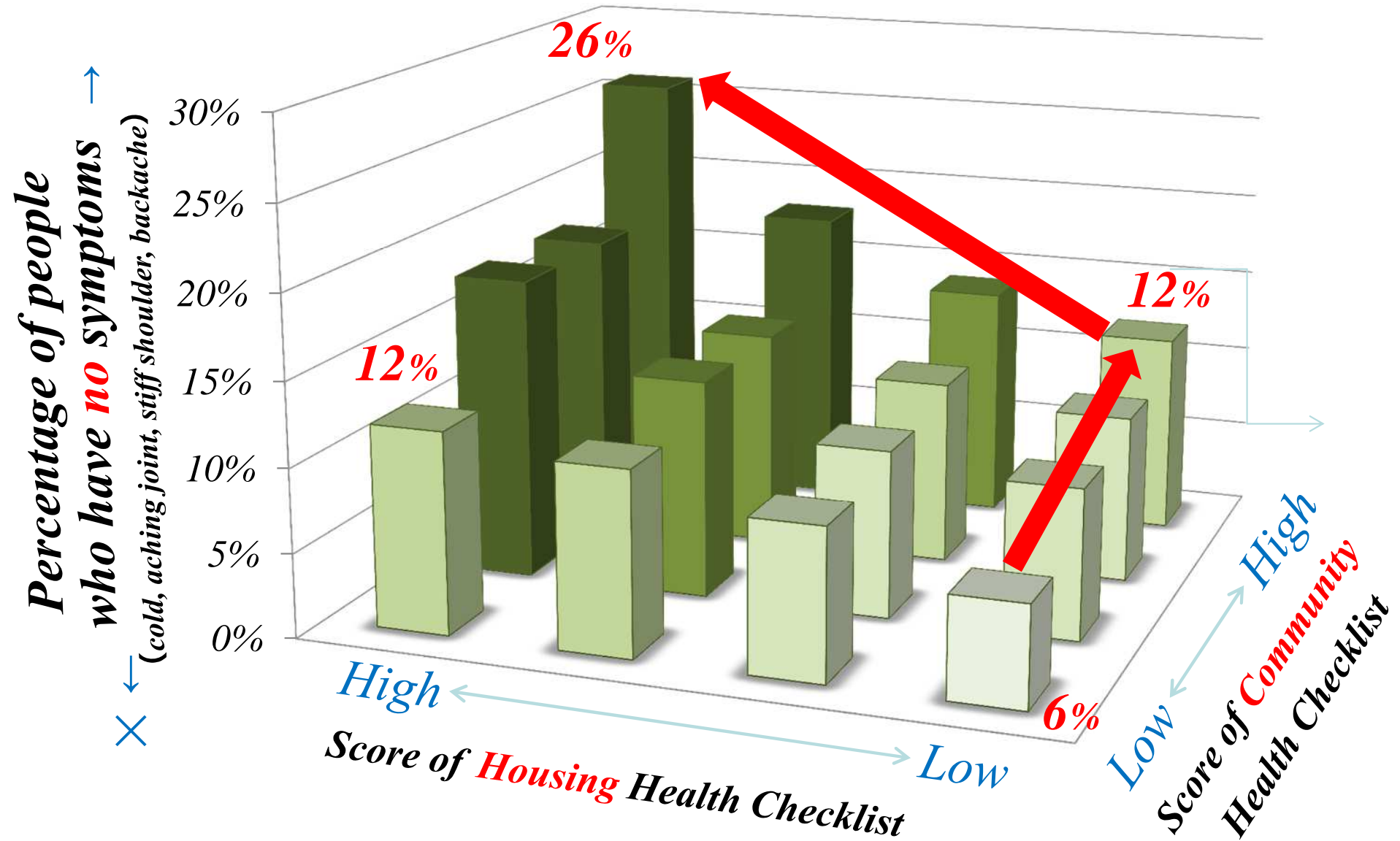
Elimination of functional inhibition



Promotion of activity participation



Relationship between Housing, Community and Symptom



Based on Questionnaire Survey on 10,496 people living in 148 cities in Japan (Ikaga Lab., 2012)

Thank you for your kind attention

We would like to extend our sincere gratitude for the great cooperation of the member of committee for the development of an environmental performance assessment tools for cities

Bibliography :

- 1) *Shuzo Murakami; Shun Kawakubo; Yasushi Asami; Toshiharu Ikaga; Nobuhaya Yamaguchi, Shinichi Kaburagi (2011) “Development of a comprehensive city assessment tool: CASBEE-City”, Building Research & Information, 39(3), 195-210.
<http://www.tandfonline.com/doi/abs/10.1080/09613218.2011.563920>*
- 2) *Shun Kawakubo, Toshiharu Ikaga, Shuzo Murakami, Yasushi Asami: Nationwide Assessment of City Performance Based on Environmental Efficiency, International Journal of Sustainable Building Technology and Urban Development, Vol.2, No.4, pp.293-301, 2011.12
<http://www.tandfonline.com/doi/pdf/10.5390/SUSB.2011.2.4.293>*
- 3) *Shun Kawakubo: Nationwide Sustainability Assessment of Whole Municipalities in Japan Using Public Statistical Information, Doctoral dissertation (Keio University), 2013.3*

