

What is Business Engineering?

Business engineering is a scientific field develops methodologies for visualizing business systems from multiple viewpoints, and that evaluates decisions in various activities in business.



- Flextime system
- Joint Research with government and enterprises
- Quantitative Approach
- International Lab. (Foreign student: 43%)

BE LAB. MEMBERS

Faculty



Professor
Nakano



Professor
Greene



Associate Professor
Minato

Number of Student

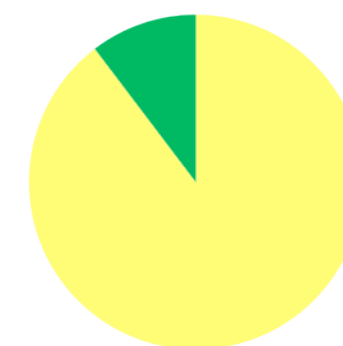
All: 15
Master: 11
Doctor: 4
Male: 11
(International student 7名)
Female: 4

Seminar

◆ Japanese
Every Thursday
19:00~@C3N09
◆ English
Every Thursday
16:30~@C3N09

BElab

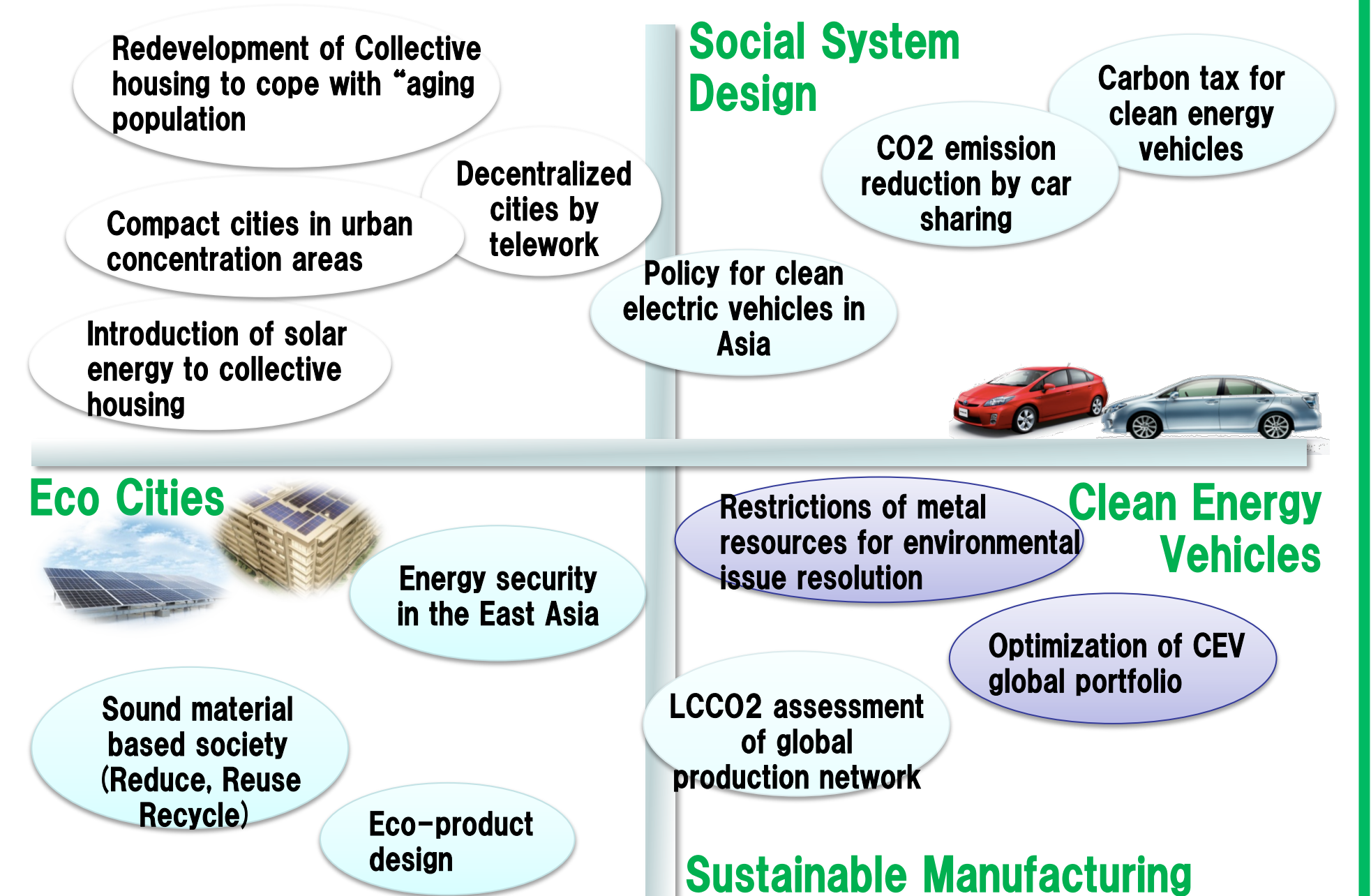
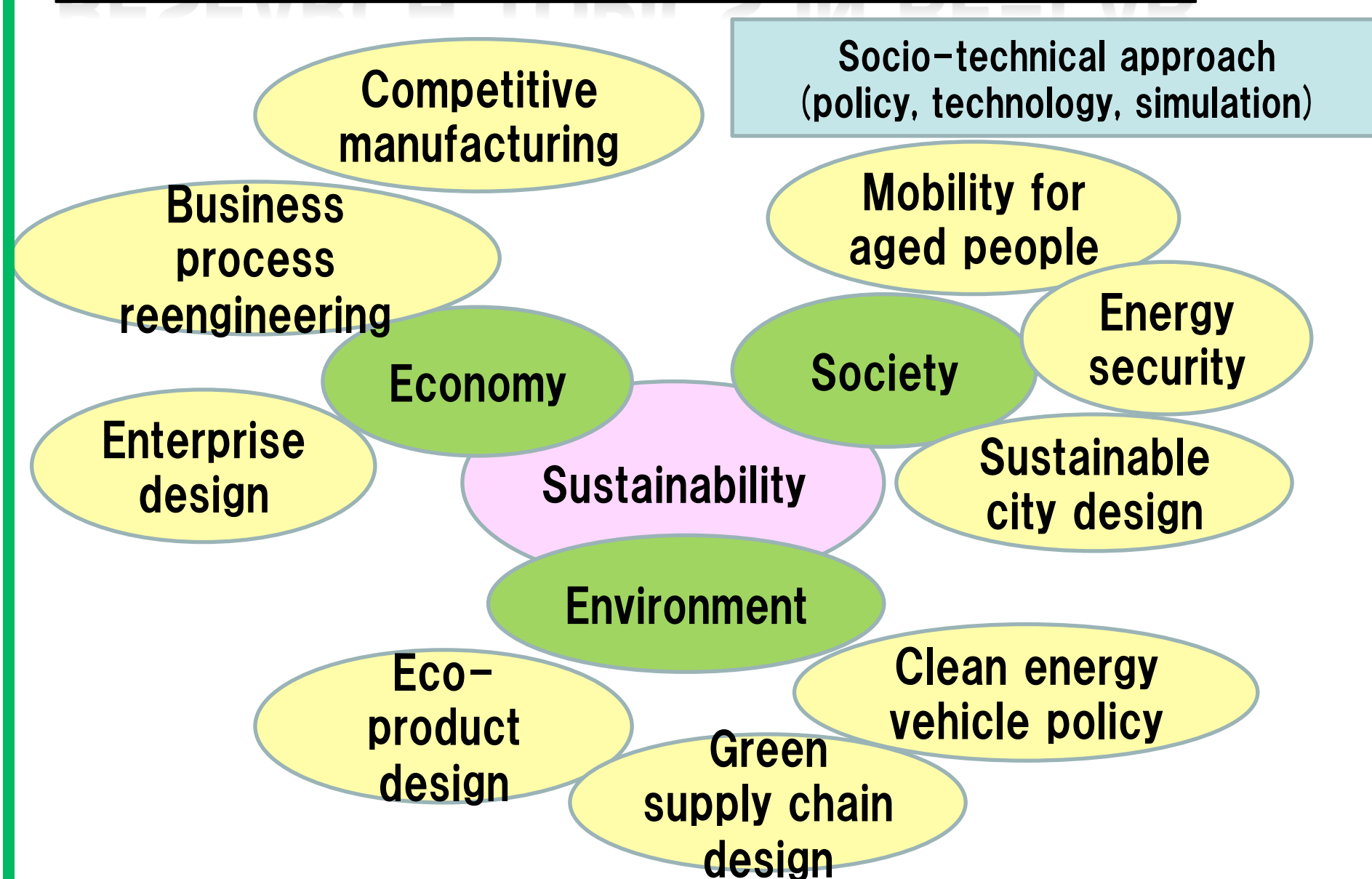
SDM



Japanese
International student



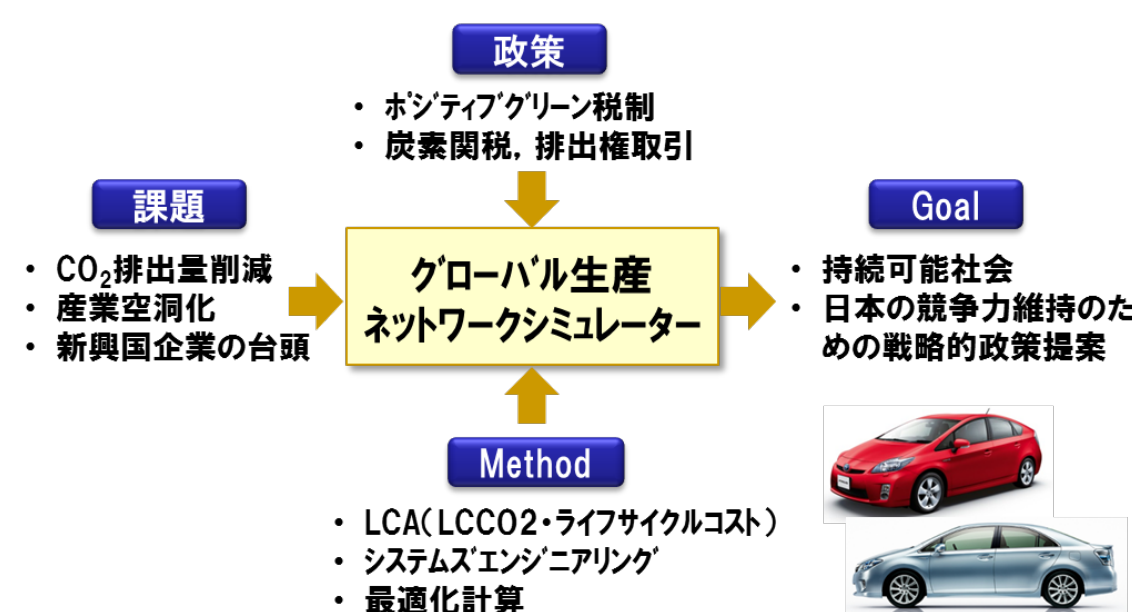
RESEARCH TOPICS IN BE-LAB



RESEARCH PROJECT

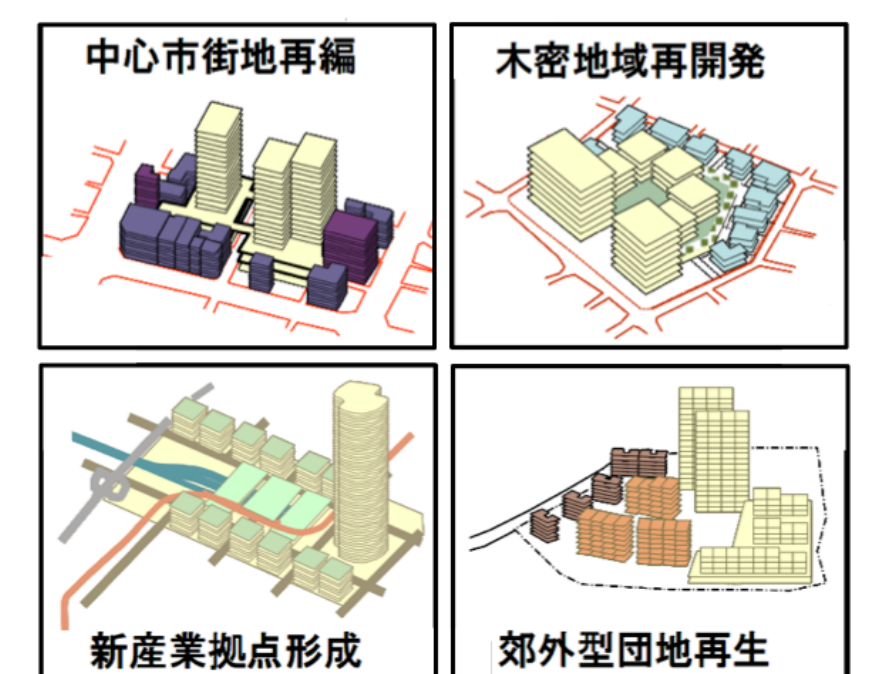
Global Supply Chain

Building a complex system of global production and supply In the manufacturing industry as robust one, considering the risk of energy, natural resources, such as disaster.



Advanced City Design

Seeking the way of a sustainable advanced city, and verifying environmental, economy and sociality by quantitative approach.

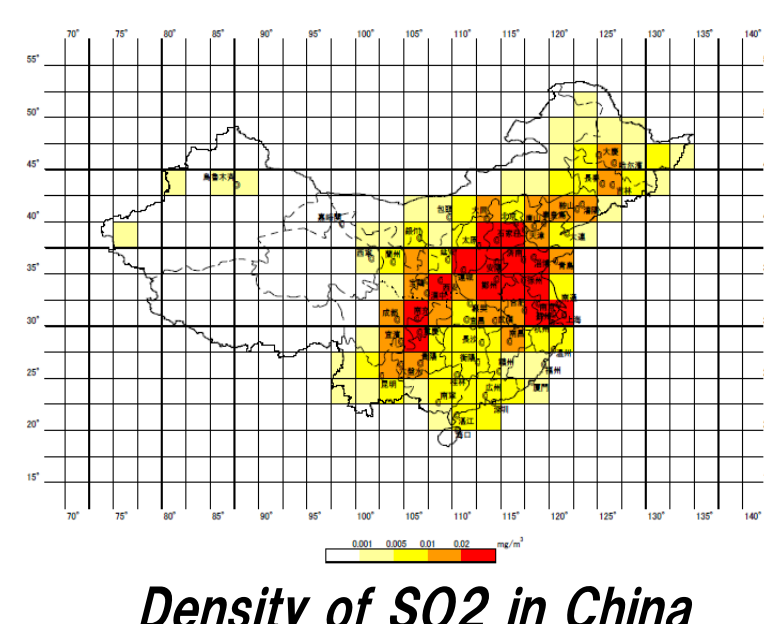


Problem of urban model in development

[Theme of Research]
Multi-Agent Modeling of Residential Redevelopment for a Crowded Region of Wooden Dwellings (Atsushi Yoshinaga)

Environmental Policy Design

Capturing the environmental issued related to human life with a focus on CO2 emissions by the multifaceted and comprehensive, visualizing and designing by various schemes



Density of SO2 in China

[Theme of Research]

The issue of Effect Evaluation on Chinese Air Pollution Problem and Technology Transfer from Japan to China (Huang Xinru)

Marketing Model Design

We have a research network with national and international companies and universities. Based on the analysis of consumer behavior, we propose an optimal business model and social systems.

新車販売台数 x_{jk} を設計変数とし、 k 年の CEV システムコスト f_k を設定

$$\min f_k(x_{jk}) = \sum_j \sum_k [S_{jk}(x_{jk})A_j]F_{jk}E_{jk} + \sum_j x_{jk}V_{jk} + \sum_j \frac{x_{jk}T_j}{I_j}$$

平均走行距離 エネルギー価格 新車販売台数 CEV台数とインフラ数の比
保有台数 燃費 車両価格 車両コスト インフラコスト

Portfolio Optimization Model

[Theme of Research]
Portfolio Optimization for Clean Energy Vehicles in Japan (Yosuke Arimori)

