



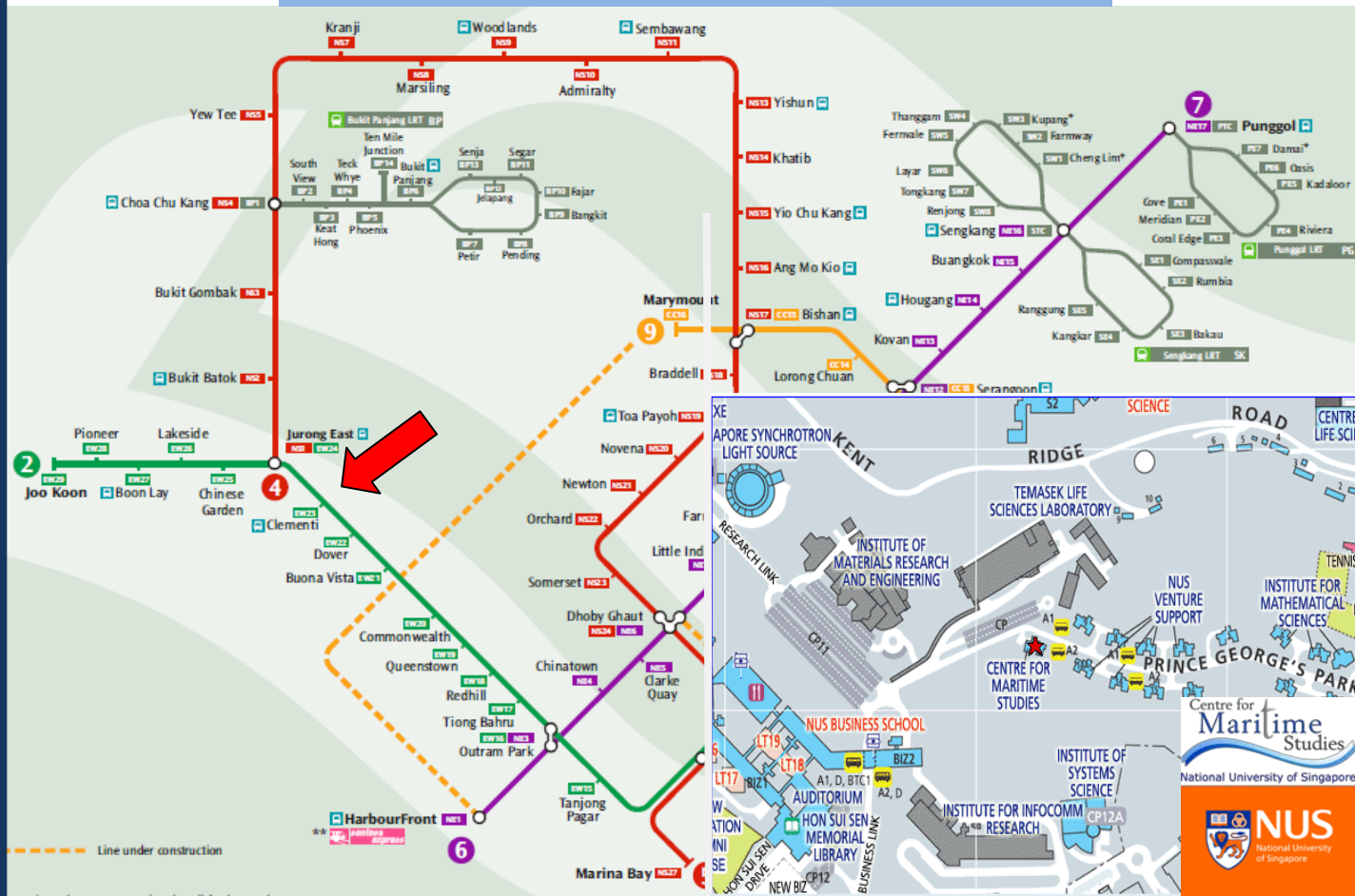
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**GCOE Kyoto University  
CMS National University of Singapore  
Transport Logistics Joint Research Centre  
(GCOE Overseas Base Singapore)**





# GCOE Kyoto University - CMS National University of Singapore Transport Logistics Joint Research Centre



## Overseas Base Directors



**Eiichi Taniguchi**

Human security issues have become more important in transport and logistics areas, since there are increasing concerns about risks caused by natural and man-made hazards as well as traffic safety and health problems. To tackle these complicated problems in mega-cities, we started the international collaborative research in the Transport Logistics Joint Research Centre between The Centre for Maritime Studies at National University of Singapore and GCOE program at Kyoto University. It provides a framework for higher education for graduate students and advanced research opportunities on transport and logistics related to human security engineering. Promoting new dimension of planning, management and governance of transport and logistics in urban areas is expected along with the research activities in Joint Research Centre.



**Fwa Tien Fang**

Collaboration between the Kyoto University city-logistics research group led by Professor Eiichi Taniguchi and our transport-logistics research group at the Centre for Maritime Studies of the National University of Singapore has been going on since the early 2000s. It is a natural development for the two groups to formalize the research collaboration through the establishment of an overseas research base in Singapore under the Human Security Engineering GCOE program. Besides strengthening the link between the two active research groups to achieve a higher level of interaction, the arrangement offers an effective vehicle for the collaborative research effort to benefit a much larger group of young researchers and graduate students in the two universities. We have accomplished much after the first year of operation through three research workshops and a short course. We look forward to an even more fruitful research collaboration program in the years to come.

## GCOE HSE Overseas Base Singapore

The GCOE-CMS Joint Research Center (JRC) is a collaboration between the GCOE program of the Kyoto University and the Center for Maritime Studies of the National University of Singapore. This collaboration establishes the overseas base of the Human Security Engineering GCOE program in Singapore. The JRC aims mainly at the development of research and exchange of knowledge. The necessary infrastructure is provided in both institutions ensuring space, software, equipments, and support staff.

At Kyoto University, the GCOE Center, located at the Katsura Campus, offers space and support for the JRC activities, while the Center for Maritime Studies, located at the Kent Ridge Campus of NUS offers the counterpart space in Singapore. Professors, post-doctoral research fellows and doctoral students from both institutions are involved in the activities organized by JRC.



# Kyoto University Global Center for Education and Research on Human Security Engineering for Asian Megacities



## Collaborative Research and Exchange of Knowledge

The JRC develops research focusing on transportation and logistics themes, such as logistics systems to recover from natural disasters, routing and scheduling of hazardous material transportation, security issues in transportation, traffic safety in transportation logistics, location of logistics facilities considering their risk to the population, defensive maritime covering in South Asia, and other typical logistics issues like vehicle routing and scheduling problems, always from the perspective of human security.

The exchange of experience, ideas, and research progress is ensured by regular workshops held alternately in Kyoto and Singapore. These workshops are a valuable opportunity for discussions on technical issues as well as best practices, bringing together the knowledge of the participants in different areas of urban transports and logistics.

## Textbook “Urban Transport and Logistics for Human Security”

The JRC is responsible for the preparation of a text-book entitled Urban Transport and Logistics for Human Security, a reference in the formation of human resources with a strong technical background on the relation between transportation logistics and human security.

The textbook presents comprehensive knowledge on urban transport and logistics systems with a special focus on Human Security in Asia. The book covers the design of freight networks and its reliability, the logistical distribution planning (facility location, vehicle routing and scheduling), logistical issues directly related to Human Security (transport of hazardous materials and logistics in case of natural disasters). Also covered by this book are urban transport issues such as the mixed traffic in Asian cities, traffic safety, and the application of ICT and ITS.

## Short-Course in Urban Transport and Logistics for Human Security

The objective of the GCOE-CMS Short-Course in Urban Transport and Logistics is to transfer comprehensive knowledge on the planning, designing, operating, and maintaining urban logistics systems and other urban transport systems, from the point of view of Human Security. The program of the short-course is based on the planned content of the textbook, which is used as didactic material, ensuring the improvement of the textbook..

On the personal side, the students have a truly international experience during the short-course, attending classes given by instructor from different countries.

