



Exchange study in the University of Melbourne - AOTULE Graduate Student Research Exchange-



THE UNIVERSITY OF
MELBOURNE

Dept. of International Development Engineering
Hanaoka Lab.

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Outline

1. Introduction
2. Details of AOTULE Program
3. Overview of The University of Melbourne and Department I joined
4. Academic activities during exchange period
5. What I got from this experience



Introduction

- **Period...**

From 13th October in 2014 to 10th January in 2015

- **University...**

The University of Melbourne, Australia



- **Supervisor...**

Professor Russell. G. Thompson... whose research topics are City Logistics, Disaster Management and Health and Transport

- **Objective...**

- To put me in unfamiliar environment
 - Get new perspectives by communicating with students and people from various kinds of backgrounds
- To progress my research
- To know differences between me and students in the University of Melbourne
 - How do they plan to utilize their knowledge acquired from the university?
 - How do they progress their research??
 - What is the future plan?

AOTULE program

- **What is AOTULE?**

A league of 13 premiere engineering universities in the Asia-Oceania region. This aims to promote inter-university cooperation through joint programs including student exchange.

- **Advantages of this program...**

- Exchange period is quite flexible
- Sufficient scholarship is given from this program
- Can focus on research and it is not required to take courses during exchange period

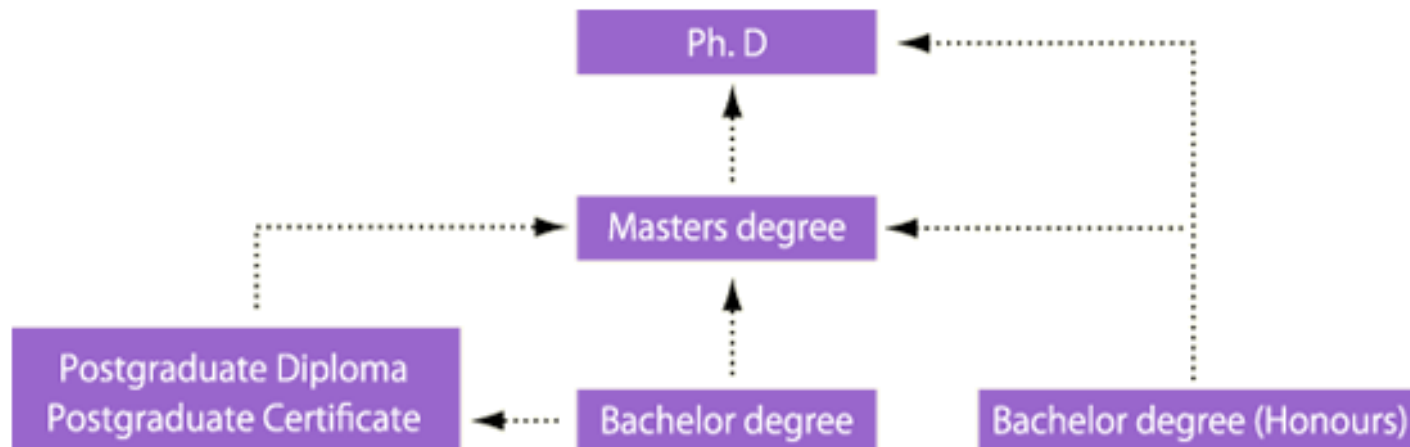
Overview of The University

- **Ranking...**

No.33 in the world and No.1 in Australia. (Our university is No.68 in the world, QS world university ranking 2014/15)

- **Learning and teaching**

22 discipline-specific faculties and graduate schools, over 47,000 students and 6,500 staff members. The ratio of international students is around 30%.



Overview of the Department I joined in

- **Department of Infrastructure Engineering...**

This department constitutes of three research fields such as Civil engineering, Environmental engineering and Geomatics



- **The differences from our university...**

- A research is progressed by a team which constitutes several Master students and PH.D students.
- Professors allocate projects to students under their supervision
- There are some lectures delivered by Ph.D students to all students and researchers in Dept. of IE for two or three times a week.

Academic activities

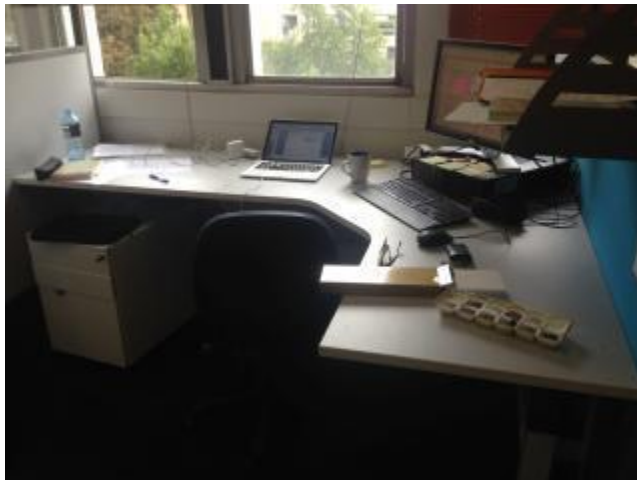
- **Discussion with my supervisor**

Had a meeting with my supervisor in university of Melbourne two or three times a month.

- Made a report of my research progress and discuss how the research should be modified
- Asked other experts for other advices and feedbacks

- **Attend conference and workshops about urban freight transport**

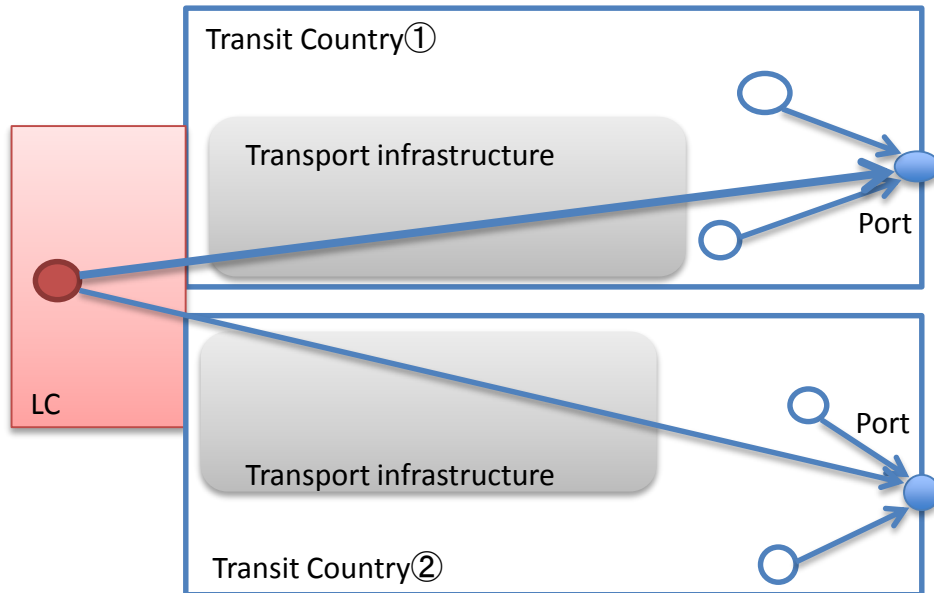
attend a conference where experts share their knowledge and research progress about urban freight transport



Research

- Research Topic...

Development of schemes for landlocked countries to improve performance of transport infrastructure across national border in East Africa



Research Framework

Figure out current schemes

➤ Stakeholder analysis



Design model to simulate each stakeholder's reaction

➤ Multi-Agent based model



Design the scheme

What I got from this experience

what I got from academic activities

- Difference of recognition about getting into a doctoral course
- Importance of recognizing research as “project”. Objectives to obtain unique results should be achieved within determined period of time.

what I got from daily life in Melbourne

- Realization of my biased common knowledge
What I think is common knowledge might not be common.
- Difficulty in integrating various cultures...
Each national group has each national territory such as China town, Vietnam town and Afghanistan town
- My ignorance of countries' historical backgrounds including Japan
Get curiosity about them and feel necessity to learn them



Thank you for your kind attention!