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Approach to People and Data

## Challenges and Opportunities of Double Degree Master Program: Case Study in Thailand

Bc. Ek Sreykhouch

Ing. Petra Chaloupková, Ph.D.

Faculty of Tropical AgriScience, Czech University of Life Science Prague

#### Introduction

- Agriculture shares 8.12% of GDP (WB 2020).
- Employment in agriculture is 32.14% (FAO 2020).
- Qualified labor shortage in agriculture is an issue in Thailand.
- 74 universities offer programs in agriculture or related sciences (Traimongkolkul & Tanpichai 2005).
- Different mode of transnational education delivery: Double Degree programmes, Franchising and validation, Articulation and credit transfer, Distance learning, Credit transfer, Branch campuses, and English-medium programmes at Thai universities (British Council 2018).
- Limitations: decrease of student enrolment, increase student dropout, lack of professional resource persons, and a weak linkage between universities and Ministry of Agriculture (Hnin W. 2016).

#### Case study: PISAI Project



- The PISAI Project is co-funded by the ERASMUS + Programme of the European Union and successfully launched.
- The project involved 4 agricultural universities in Thailand and provided a double degree programme at the master's degree level.
  - > Module 1: Value Chain Management at Chiang Mai University
  - Module 2: Environment/Ecosystem in Sustainable Agricultural Production at Khon Kaen University
  - Module 3: Challenge and Opportunity in Sustainable Agricultural Production at Kasetsart University
  - > Module 4: Internship

## **4 Thai Agricultural Universities**



#### Kasetsart University Khon Kaen University established in 1943 established in 1967 4 campuses (main campus in Bangkok) located in Northeast Thailand Prince Songkla University Chiang Mai University established in 1967 established in 1960 situated in southern Thailand located in the Lanna region

#### Objectives



**Objective 1** 

To analyse the opportunities and challenges of the DDMP To identify which skills and competencies were improved during the DDMP

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**Objective 2** 



#### **Objective 3**

To investigate the aspects influencing future employability of the students

## Conceptual Framework (Model of Theory of Change)



### **Methodology: Data collection**





<u>Research tools</u>: Online questionnaire (Google form), Personal experience (Student in Module 3), Member of PISA1 Quality Assurance Board



Sample Selection: Non-random (Purposive), PISA1 project's stakeholders



Participants: Students, Project staffs, Agricultural companies

Sampla Types	Thai Universities					EU Universities			International Organizations		Tatal	
Sample Types	KU	CMU	PSU	KKU	CZU	SupAgro	UCPH	UHEL	IRD	Agrinatura	TOLAI	
DDMP (Thai) Students	3	6	7	5	-	-	-	-	-	-	21-	88%
International Students	2	-	2	1	7	3	-	2	-	-	17 🔶	52%
Project staffs Agricultural	4	5	17	4	2	1	1	1	1	1	37 →	629
companies/farmers											14 🔶	419
Total	9	11	26	10	9	4	1	3	1	1	89	

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## Methodology: Data analysis



### **Opportunities of Students in DDMP**

Opportunities	DDMP students		International students		Project staff	
	Count	Rank	Count	Rank	Count	Rank
Skills & Competencies Development	8	1	2	3	22	
Good Contents and Practical Experience	-	-	10		-	-
Good Curriculum Design	7	2	-	-	8	2
Network Building	5	3	7	2	6	3-4
Good Educational background	2	4	-	-	6	3-4
Job Opportunity	1	5-6	-	-	2	5
Financial support	1	5-6	-	-	1	6

### Challenges of Students in DDMP

Challenges	DDMP s	tudents	Intern stuc	ational dents	Project staff		
	Count	Rank	Count	Rank	Count	Rank	
Language	10	1	9		12	2-3	
A tight schedule	6	2	-	-	16	1	
Difficult curriculum	5	3	2	3	12	2-3	
Conflicting regulations	4	4	-	-	6	4	
Financial problems	1	5	-	-	2	5	
Cultural differences	-	-	4	2	-	-	

#### **Skills and Competencies Developments**

	Students	Staff	Employers	_
	Mean (SD)	Mean (SD)	Mean (SD)	F value
Decision making	3.90 (0.70)	4.08 (0.72)	3.86 (0.77)	0.67
Capacity to learn	4.05 (0.59)	4.14 (0.48)	4.21 (0.80)	0.35
Capacity to adapt to new situations	4.14 (0.57)ª	4.54 (0.51)ª	4.14 (0.77)	4.18*
Capacity for generating new ideas	3.85 (0.62)	4.08 (0.55)	4.00 (0.78)	0.55
Capacity for applying knowledge in practice	3.81 (0.51)ª	4.08 (0.43)ª	4.36 (0.74)	4.61*
Capacity for analysis and synthesis	3.81 (0.60)	3.86 (0.63)	4.21 (0.80)	182
Capacity for critical and self-critical thinking	3.81 (0.68)	3.81 (0.70)	4.07 (0.83)	0.74
Interaction with other people and cultures	4.33 (0.66)	4.59 (0.55)ª	4.07 (0.83)ª	3.61*
Responsibility	4.43 (0.60)	4.41 (0.69)	4.43 (0.76)	0.01
Ability to make your way through	4.14 (0.65)	4.22 (0.67)	4.07 (0.83)	0.23
Self-confidence	3. <b>48 (0</b> .93)ª	4.16 (0.65)ª	3.71 (0.75)	5.95**
Ability in problem solving	3.86 (0.57)	4.16 (0.55)	4.21 (0.73)	2.22
Research skills	3.81 (0.75)	3.95 (0.62)	4.07 (0.73)	0.65
Language skills	4.00 (0.77)	4.08 (0.64)	3.79 (0.80)	0.87
Computer skills	3.62 (0.86)	3.68 (0.82)	3.86 (0.86)	0.36
Time management	4.00 (0.95)	3.97 (0.76)	4.29 (0.73)	0.79
Capacity to work in team	4.29 (0.64)	4.35 (0.63)	4.21 (0.70)	0.24
Planning and organization	4.10 (0.70)	4.03 (0.60)	4.00 (0.78)	0.10
Oral and written communication	3.86 (0.85)	3.95 (0.57)	3.93 (0.73)	0.11
Technical knowhow	4.00 (0.63)	3.68 (0.75)	4.07 (0.83)	213

Note: Rate between 1-5:

1– Very low,

2 - Low

3 – Moderate

4 – High

5 – Very high

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#### DDMP Students' Satisfaction On DDMP



#### International Students' Satisfaction on the Module



### Project Staff's Satisfaction with PISAI Project



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### Perception of Future Career Opportunity

As a DDMP graduate, I will be more potential compared to students studying in regular study program during job recruitment.

1 think that 1 will be able to find a satisfied job after graduating from DDMP.



#### DDMP Students Perceived on Their Future Career Opportunity



### Discussion: Comparison DDMP with other Programmes

#### Opportunities:

- DDMP students: improved skills and competences, experienced multicultural and innovative curriculum design, and built networks.
- Study abroad and travel, enhance language and job-related skills, university reputation, and alternative to existing programmes, (Culver et al. 2012),
- Get two degree at shorter duration, less workload, and less financial burden (Knight, 2011)

Challenges:

- <u>DDMP students</u>: Language, tight schedule, difficult curriculum, and administrative issues.
- Languages, different culture, excessive workload and time constraints, academic issues (two enrolment procedures, two thesis in two languages, two supervisors, and two thesis defences), ensuring funding (Knight 2011 & Culver 2012).

#### Discussion: Comparison DDMP with other Programmes

#### Skills and competencies:

- <u>DDMP students</u>: The ability to interaction with other people and cultures, capacity to work in team, capacity to adapt to new situations, and ability to make your way through.
- DD in two different countries made student gained academic skills: critically thinking, effective communication, problem solving, leadership, ability to adapt to new situations (Culver et al. 2011), and confidence (Sherrill 2000), responsibility, decision making, and independence (Chaloupkova et al. 2015).

#### Employability:

- DDMP students: 62% of DDMP students believed that they will be able find a satisfied job and 52% of them had confident to be more potential than students in single program.
- 96% of DD alumni felt that the dual-degree program had helped them to obtain their current position and 87% of them were personally satisfied with their job (Culver et al. 2012).

## **Recommendations and Limitations**



#### Recommendations:

- > Language programme and administrative support should be provided to students.
- > Engage students in some courses or activities that can boost self-confidence and independent.
- > Curriculum between home and host university should be complement to each other.
- > Double degree should be well advertised and promoted among employers about their value.

#### Limitations:

- Participants were all stakeholders involved in PISAI project and aware of double degree, especially agricultural companies or farmers.
- The DDMP students have not yet completed their study or fresh graduate, so it was hard to evaluate the impact of the program on the employability.

## Conclusions

- DDMP within the PISA1 project is very special because its unique way of collaboration between four Thai agricultural universities in cooperation with EU universities.
- DDMP students could gain many skills and competencies though the program; however, there were also several challenges students faced: language, time, workload, administrative issue.
- DDMP had numerous strengths and will brings many opportunities for students, especially their future career path.
- The study provides interesting insights and recommendations for future projects and implementation of similar activities at other universities.

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# Thank you for

## your attention!