



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

Dr. Belinda Changkajonsakdi
Vice President of BDI Group





Outline

1. Introduction : BDI Group Values Personnel Development
 2. The Implementation of Thai-Taiwan Technical Expertise Exchange Model and its Feasibility : Case Study of BDI Group
 3. The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education
 4. Conclusion
- 



Labor Gap or Shortage of Qualified Technical and Skilled Workers

- » Although about 35% of Thai students are enrolled in vocational institutions, Thailand faces a chronic shortage of qualified technical vocational workers across all industries, especially in automotive, information communication and technology (ICT) and tourism sectors. ([The Nation, 2016](#)).
- » Several reasons include:
 - Rapid aging of Thailand's population structure
 - Cultural bias against the field
 - Low quality local education
 - Low proficiency in foreign languages, notably English
 - Curricula and labor market demand mismatch
 - Lagging productivity investments



張聚麟 先生

Mr. Suthum Changkajonsakdi
(February 2001 – 2008)

Time	Important Events
17 th January, 1978	Established Bangkok Diecasting and Injection (BDI) Co., Ltd. with the capital of 4 million Baht and 30 employees, focusing on various industrial parts including motorcycle and automobile spare parts, machinery parts, and delicate products of electronic parts. The company mainly cooperates with Honda, Yamaha, Kawasaki, Suzuki and other automotive corporates.
1986	Cooperation with KOITO.
1990	Received Technical Support from YANAGAWA SEIKI in raising the die-casting production technology capability.
October 1991	Established BDI Alloy Enterprise (BAE) Co., Ltd. with 40 employees and had its registered capital of 30 million Baht. BAE boasts its pride on color coating technology for aluminum work and capability to handle manufactures effectively. The company mainly cooperates with Honda, Yamaha, Kawasaki, Suzuki and other automotive corporates.
2001	Cooperation with TAKAGI SEIKO and raises plastic molding technology and automotive parts production
June 2001	Established Thai-Taiwan (BDI) Technological College (T-TECH) with majors in machinery, automotive parts production, electrical power, business computer, accounting, and marketing.
March 2007	Mr. Suthum Changkajonsakdi passed away due to liver cancer, and thus T-TECH had closed for one year
June 2008	T-TECH starts recruiting students again, and resulted in about 500 students enrollment.
June 2014	T-TECH changed into a full cooperative education system and opens up for vocational students.

Time	Important Events
June 2017	T-TECH opens up programs for Higher Vocational Diploma and allow students to intern in various Taiwanese-funded companies in Thailand in order to foster outstanding technicians and talented human resources
July – August 2017	The 1 st Taiwan and King Mongkut University Internship Program (TKIP) started with welcoming 4 students from universities in Taiwan to intern in BDI
Feb. –July 2018	2 students from the Department of Information Management, Providence University intern at T-TECH and supported the VILchamp (Vocational Innovative Learning Champion) online learning program.
July – August 2018	2 students from the Department of Teaching Chinese as a Second Language, Ming Chuan University intern at T-TECH and help developed a set of Chinese teaching materials
July – August 2018	The 2 nd Taiwan and King Mongkut University Internship Program (TKIP) welcoming 6 students from various Taiwanese universities to intern in BAE
September 2018 – January 2019	3 students from the Global Foreign Language Education Program, Providence University intern at T-TECH and supported English teaching and created English teaching materials
July – August 2019	Cooperates with National Taiwan University Higher Education Sprout Project and have 7 students from Taiwan to intern in BDI and 6 more students from other Taiwanese universities under the 3 rd Taiwan and King Mongkut University Internship Program (TKIP) to intern in BAE
2017 – 2019	Total of 47 students from Rajamangala University of Technology Lanna intern in BDI, BAE, and T-TECH.

BDI : Thai -Taiwan Technical Expertise Exchange Model

8

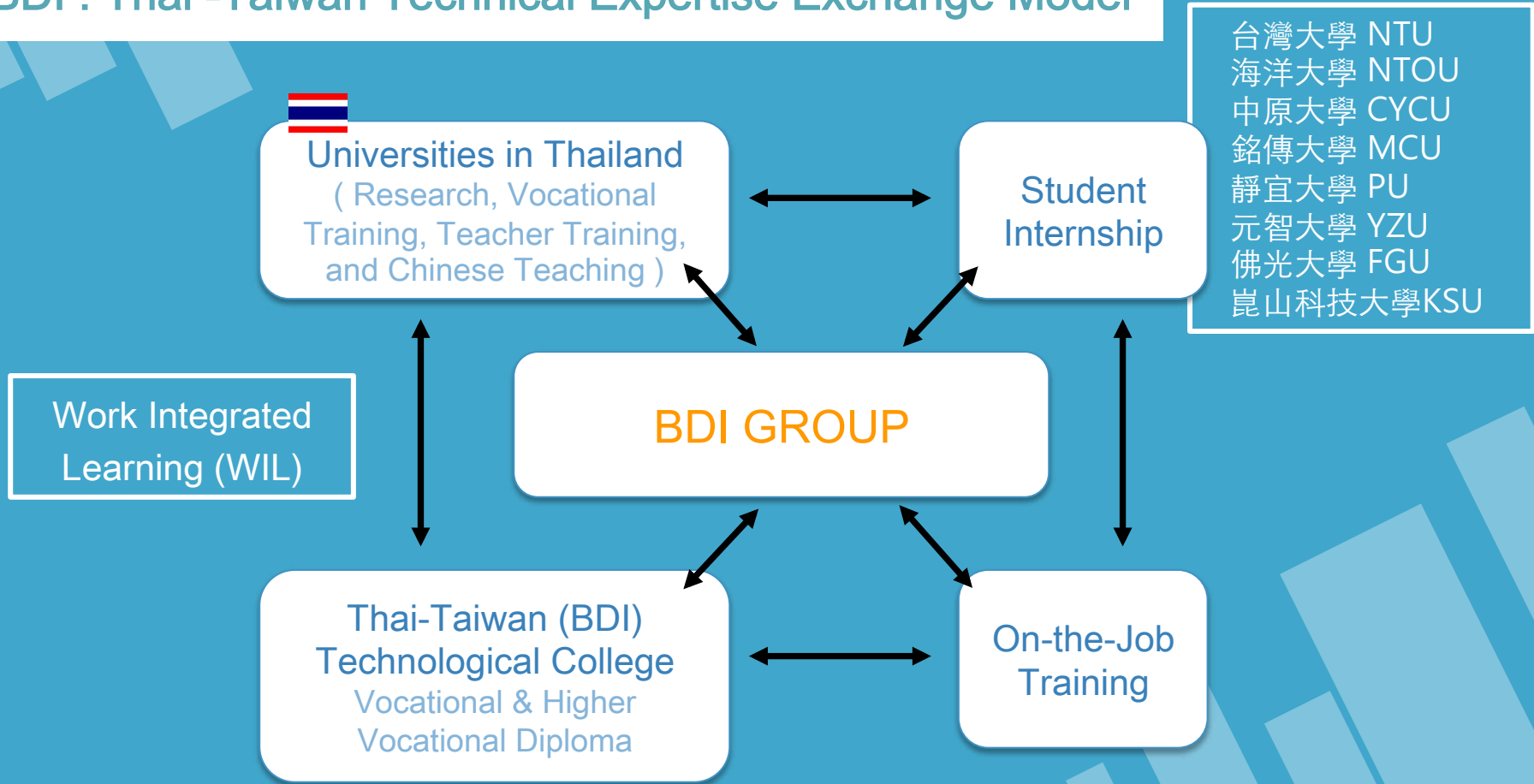


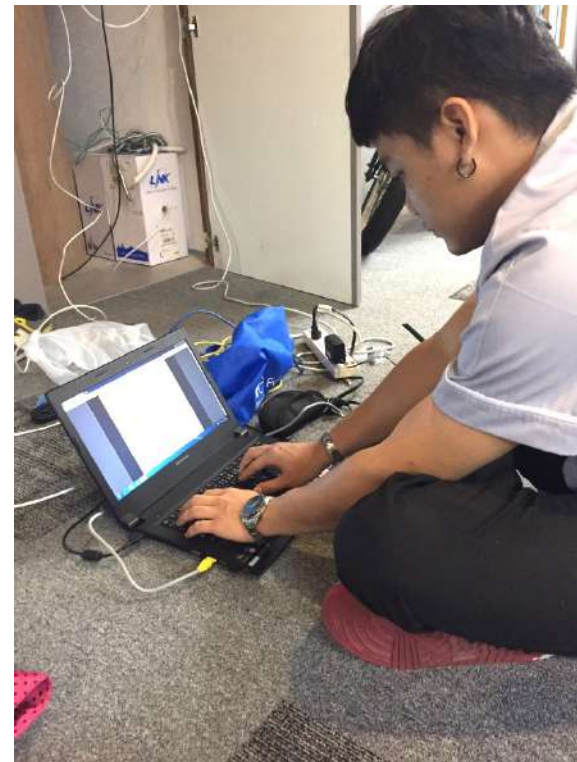
Figure 1. T-TECH Industry-Academy Work Integrated Learning (WIL) Model

The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

1. Topic-Based Industry-Academia Research (Problem-Solving)

» Example 1 :

AUG 2017 – TKIP student helps BDI with webpage design and rewrite programs on the website to provide users with more features.



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education



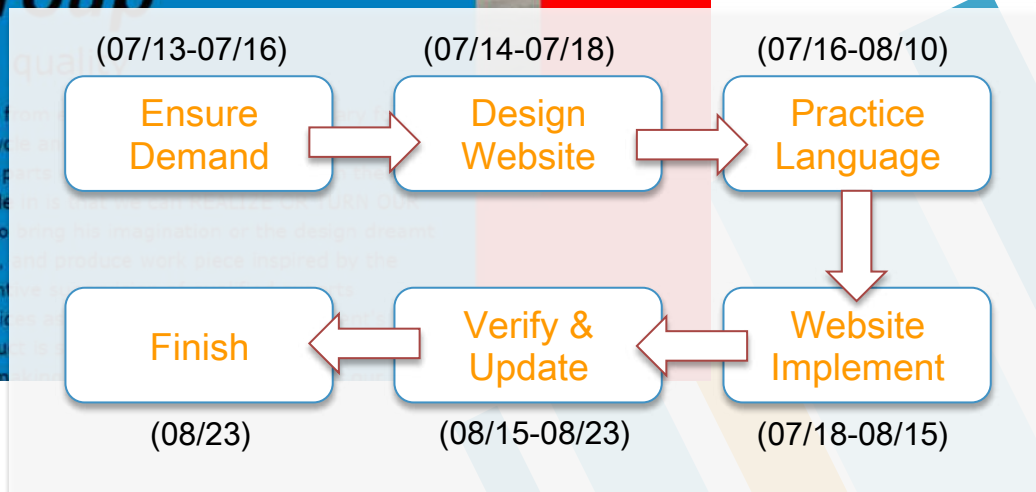
B.D.I.
Find Everything You Need

BDI GROUP

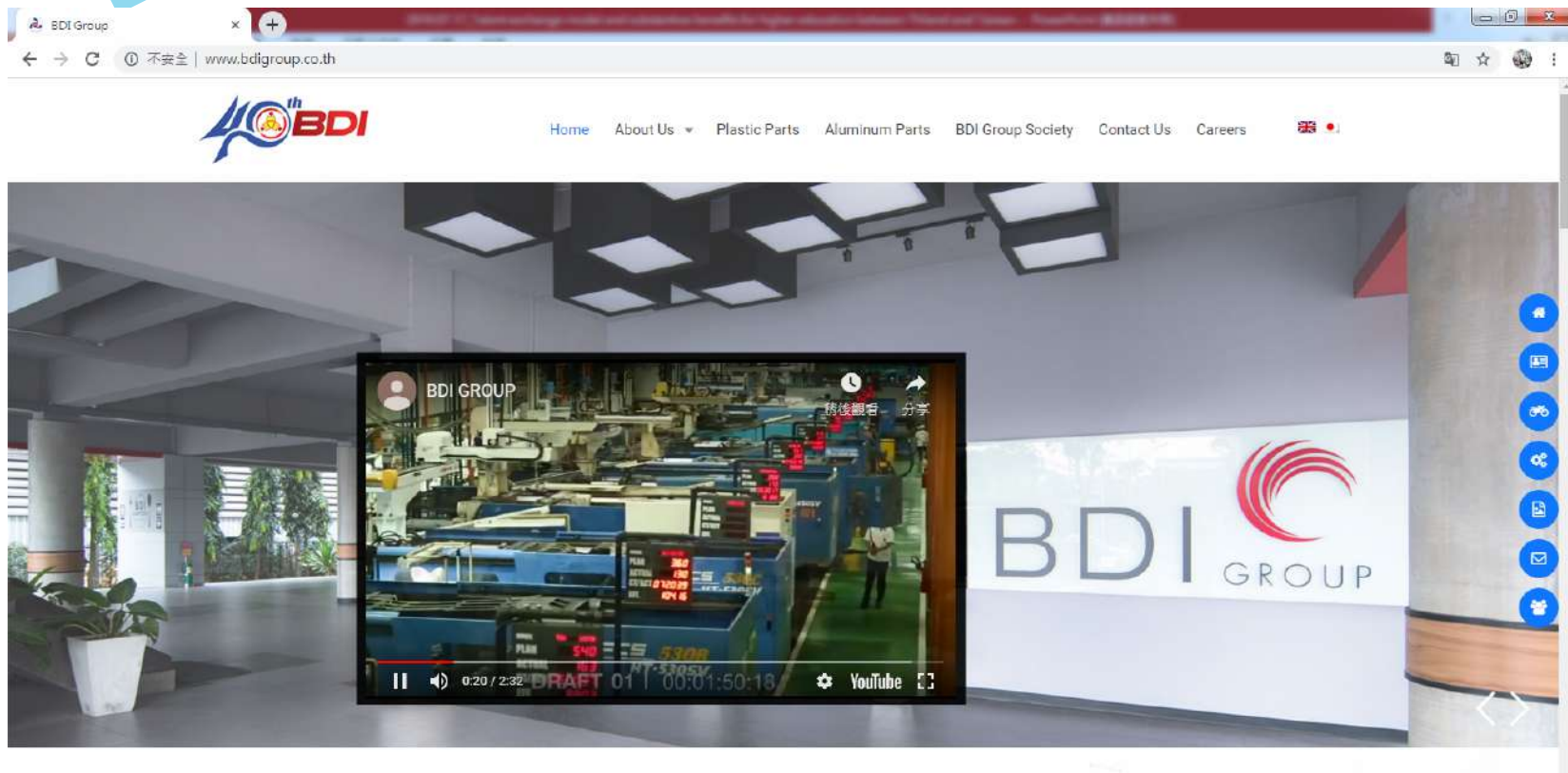
Home Products Facility Process Customer About Us Contact Us Phone: (662)337-3078-84

B.D.I. Group
Committed to quality

B.D.I. manufactures a wide array of products ranging from (daily life) to various industrial parts including motorcycle parts, and complex and delicate products of electronic parts individually almost limit free. What we take great pride in is turning our CLIENT'S DREAM INTO REALITY. A client only needs to bring his imagination or the design dream to us then we do the rest of design, build the mold, and produce work piece inspired by the client with care and attention in all stages under attentive specialized specifically on such portion to provide advice and decision-making that the best, quality, standard products as well as help with the the client's decision-making.



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

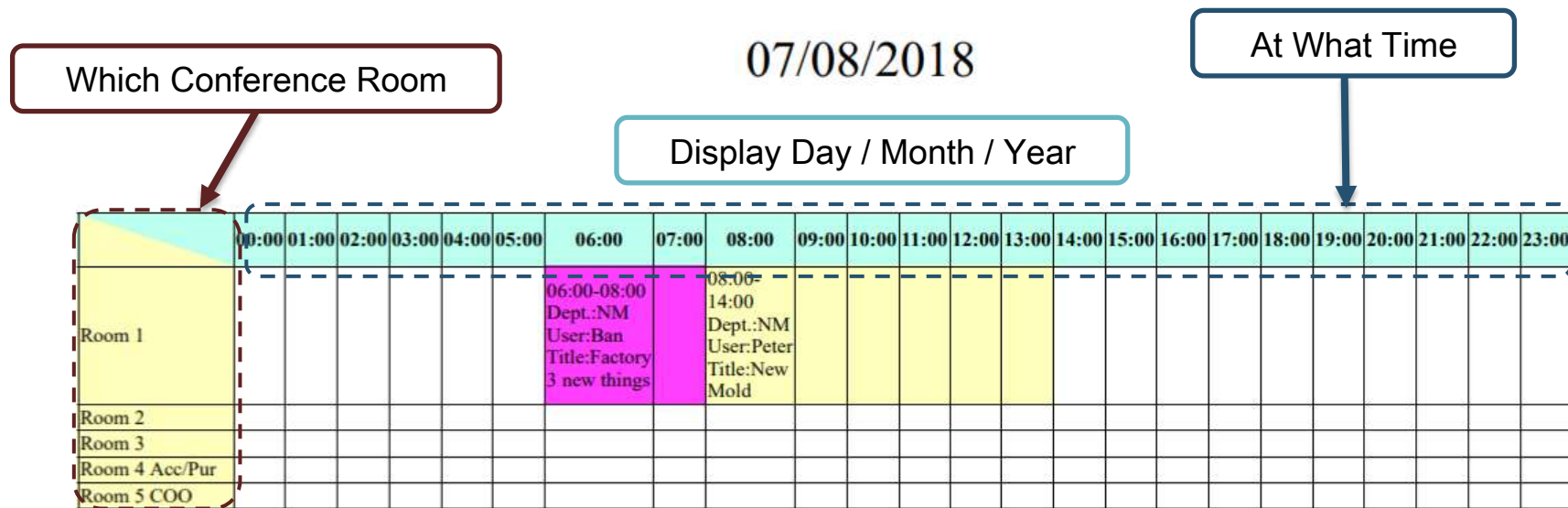


1. Topic-Based Industry-Academia Research (Problem-Solving)

» Example 2 :

AUG 2018 – TKIP student analyzed the office operational system in BAE and initialized a **Conference Room Reservation Project** to serve the office demand for a planner or a scheduling program for conference room usage.

The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education



Demo-Timeline

The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

Conference room reservation application

Date : 2018-08-07

Auto Fill in DATE

Conference Start Time :

06:00

Auto Fill in TIME

Conference End Time :

08:00

Auto Fill in ROOM

Conference Room : Conference Room 1

Title : Factory 3 new things

Conference Dept. : NM

User Name : Ban

Applicant of Dept. : IT

Applicant Name : Far

Must Fill in Title,
Username, Filler by who

Update

Delete

Cancel

Detailed Information

The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

August 2018

today

<

>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
29	30	31	1	2	3	4
5	6	7	8	9	10	11
	Room1 : 12:00-13:00	Room1 : 08:00-14:00 Room2 : 06:00-07:00	Room1 : 07:00-08:00 Room1 : 08:00-09:00 Room2 : 06:00-07:00 Room2 : 07:00-10:00 Room2 : 11:00-13:00 Room2 : 13:00-16:00 Room2 : 16:00-17:00 Room3 : 08:00-11:00 Room3 : 11:00-12:00 Room3 : 13:00-15:00 Room3 : 16:00-18:00 Room4 : 10:00-14:00 Room5 : 10:00-14:00 Room5 : 17:00-18:00	Room3 : 05:00-07:13 Room3 : 07:00-11:00 Room3 : 11:00-12:00 Room3 : 12:00-13:00 Room3 : 13:00-15:00 Room3 : 15:00-16:00 Room3 : 16:00-23:00		
12	13	14	15	16	17	18
	Room1 : 09:00-13:00	Room5 : 10:00-14:00	Room1 : 13:00-14:00	Room1 : 14:00-18:00		

New Event Added

Add New Event

The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

2. Opportunities for Work Experiences in Foreign Culture



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

2. Opportunities for Work Experiences in Foreign Culture

泰國 🇹🇼 泰國台灣 (BDI) 科技學院
 暹羅代天宮 李智偉博士率領的來自台灣五所大學
 熱烈 (台北科大、銘傳大學、正修科大、聯
 歡迎 🌸 合科大、屏東科大) 的學生於今日吉時
 蒞臨本宮參訪交流在泰廟務文化並上香
 參拜祈福！



(Aug.04, 2018)

由本宮張進忠專員全程接待並介紹本宮是由台灣南鯤鯓代天府母廟分靈來泰國已有41年的廟史。



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

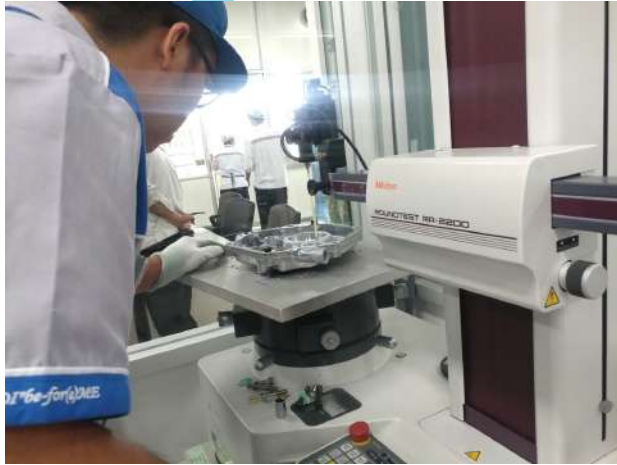
3. Global Technical Expertise Exchanges (Innovation)

» Example 3 :

AUG 2018 – TKIP student who intern at BAE created a jig to improve the CMM measuring efficiency, whereby it helps reduce time and manpower needed in the process.



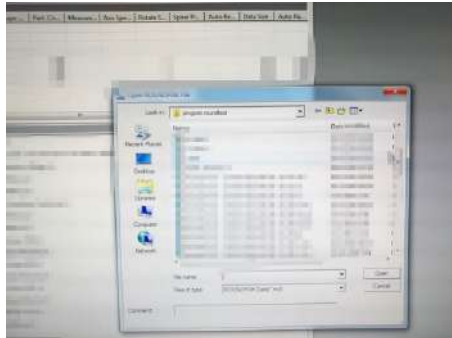
The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education



3. Global Technical Expertise Exchanges (Innovation)

» Example 4 :

AUG 2018 – TKIP student see the lack of solid procedures in operating the roundness tester and therefore help raises efficiency by utilizing the Lab View software to create a Standard Operating Procedure (SOP) Program.



The Substantial Benefits of Thai-Taiwan Technical Expertise Exchange Model towards Higher Education

4. International Mindset & Future Outstanding Talents



Conclusion :

十年樹木、百年樹人
人才培育、永續發展

“It takes ten years to grow a tree, but hundred years to bring up a generation of good men.”

‘Talent Cultivation’ is a hard work that requires patient effort and sustainable developments.

