

# **CENTRALIZED INSTITUTION APPROACH:**

## **THE TAIWAN CASE**



Center for Educational Research & Evaluation,  
National Taiwan Normal University

Presenter: Dr. Shu-Chen Chiang

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# TAIWAN EXPERIENCE : TIPED

- A brief of Center for Educational Research and Evaluation (CERE)
- Introduction of Taiwan Integrated Postsecondary Education Database (TIPED)

# ABOUT CERE

- The consolidation of two centers in 2008:  
Center for Educational Research &  
Center for Research on Educational Evaluation and Development
- Designated as Center for Educational Research  
and Evaluation in 2009
- One of the 5 university-level R&D centers at  
NTNU



# RESEARCH SCOPE





# PROJECTS RECEIVED :

## THE CASE OF EDUCATION DATABASE GROUP

- ◉ Distribution of college graduates (Ministry of Education) 2008-2012
- ◉ The construct of TIPED (MOE) 2009-2012
- ◉ The longitudinal data set for teacher education (MOE) 2009-2011
- ◉ Upper secondary integrated database (MOE) 2010-2011
- ◉ Research on awareness risk of online questionnaire and its response rate (National Science Council) 2011-2012
- ◉ Taiwanese and Mandarin scholarship (MOE) 2008-2010
- ◉ Premier research on childhood development database (National Science Council) 2010-2013
- ◉ School evaluation on K-9 system of new Taipei City (New Taipei government) 2012

# TAIWAN INTEGRATED POSTSECONDARY EDUCATION DATABASE (TIPED)

## History:

- Initiated by Dr. Samuel, S. Peng in 2002
- Beginning in 2008, Dr. Li-Yun Wang takes the leadership and implements TIPED on a national scale



# TIPED-CON'T

( ☆ : completed ; ★ : in process ; \_\_\_ : with teacher education )

year subject	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Faculty			☆					☆			
Freshmen		☆		☆			☆	☆	☆	☆	★
Junior		☆		☆			<u>☆</u>	<u>☆</u>	<u>☆</u>	<u>☆</u>	<u>★</u>
Graduate				☆	☆	☆	☆	☆	☆	<u>☆</u>	<u>★</u>
One year after	☆			☆	☆	<u>☆</u>	<u>☆</u>	<u>☆</u>	<u>☆</u>	<u>☆</u>	<u>★</u>
Three years after				<u>☆</u>							



# COMPONENTS OF TYPED

Note: Numbers referring to those surveyed— 1 (freshmen), 3 (junior), 4(graduate), +1(one year after graduation), +3 (three years after graduation)

Input	Opportunity	Effort	Outcome
<u>Ability</u> eg. Competence (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)	<u>Curriculum &amp; Instruction</u> (1 ∙ 3 ∙ 4)	<u>Time Allocation</u> (1 ∙ 3)	<u>Academic</u> (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)
<u>Family&amp; Neighborhood</u> (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)	<u>Teachers&amp; Peers</u> (1 ∙ 3)	<u>Study Plan</u> (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)	<u>Psychological and Behavioral Outcome</u> (1 ∙ 3 ∙ 4 ∙ +3)
<u>Disposition</u> eg. Attitudes towards education & work (1 ∙ +1 ∙ +3)	<u>Conditions of life</u> (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)	<u>Learning behavior</u> (1 ∙ 3)	<u>Career/Employability</u> (4 ∙ +1 ∙ +3)
<u>Prior Experiences</u> (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)	<u>School Infrastructure</u> (1 ∙ 3)	<u>Participation</u> (1 ∙ 3 ∙ 4)	<u>Satisfaction with college Education</u> (1 ∙ 3 ∙ 4 ∙ +1 ∙ +3)



# WHAT WE HAVE LEARNED ...

## Challenges & Our Solutions:

- Uncertain budget vs. personnel issue <-  
gradually stabilize the budget
- Changeable survey periods vs. questionnaires <-  
sustain survey periods

# WHAT WE HAVE LEARNED ... CON'T

- Poor school-based records <- educate/ assist institutions at the school level
- Frequent changes of staff <- disseminate via workshops
- Varying cooperation from schools <- promote continuously



THANK YOU!

