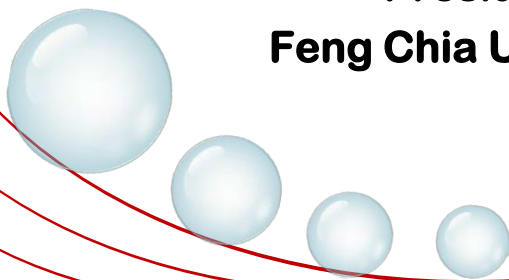


2018 Japan-Taiwan University President's Forum

*Session 2-2 「Enhancement of Industry-University Collaboration
Research Projects for Universities in Japan and Taiwan」*

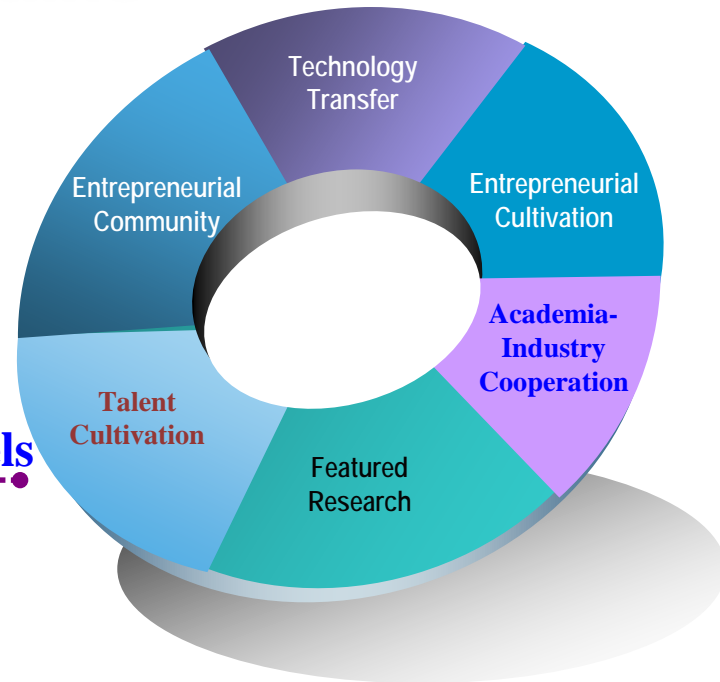
Academics-Industrials-Innovates Integrated Education in Feng Chia University

Prof. Bing Jean Lee
President
Feng Chia University



Outline

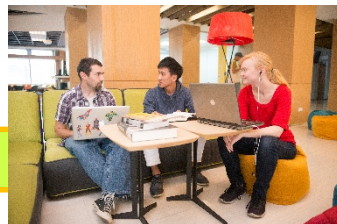
- 1 Vision and Focuses
- 2 Strategy and Plans
- 3 Successful Working Models
- 4 Summary



Two Issues Worthy of Reflection



- In the era of information booming, any knowledge may be obtained from website. What is the reason that a university can not be replaced ?
- When the university is not the only source of knowledge innovation and cultural interpretation, and industry commences its own R&D, what is the new mission and role of the university?



New Mission of FCU

Cutting-edge Research

+

Practical Industrial Apps



Mutual Promotion Academy & Industry

Join the GAP between
Academy & Industry



Our Vision
at FCU

New Role of University

Cultivate Students needed
for Industry Innovative
Transformation

Resources & Funding

Educational Resources
Research Funding

Our Focuses at FCU



- 
- Constructing solid university education and hands-on knowledge.
 - Creating mechanism and platform for industry-academia collaboration.
 - Establishing benchmark and models for industry-academia-innovation success.



Our Organization



Our Strategy

1. **Maxim of FCU \leftrightarrow “Solid education is the key to competitiveness”**
 - FCU links with industry development together to construct a tied collaboration relationship.
 - FCU cultivates students and professionals the talents needed for academic and industrial growth along with essential technologies demanded for future upgrades.
2. **FCU assists in the development of professional individuals as well as derivative firms** for prospective technological commercialization and incubation services.
3. **FCU forges pioneering education curriculum programs and skillful entrepreneurial team** to incubate derivative business.

Our Plans

Scheme 1: Diversified Teaching Programs & Diversified Instructor's Cultivation



Diversified Teaching Programs

Diversified teaching programs focused on both multi-disciplinary cooperation and practical industrial applications.

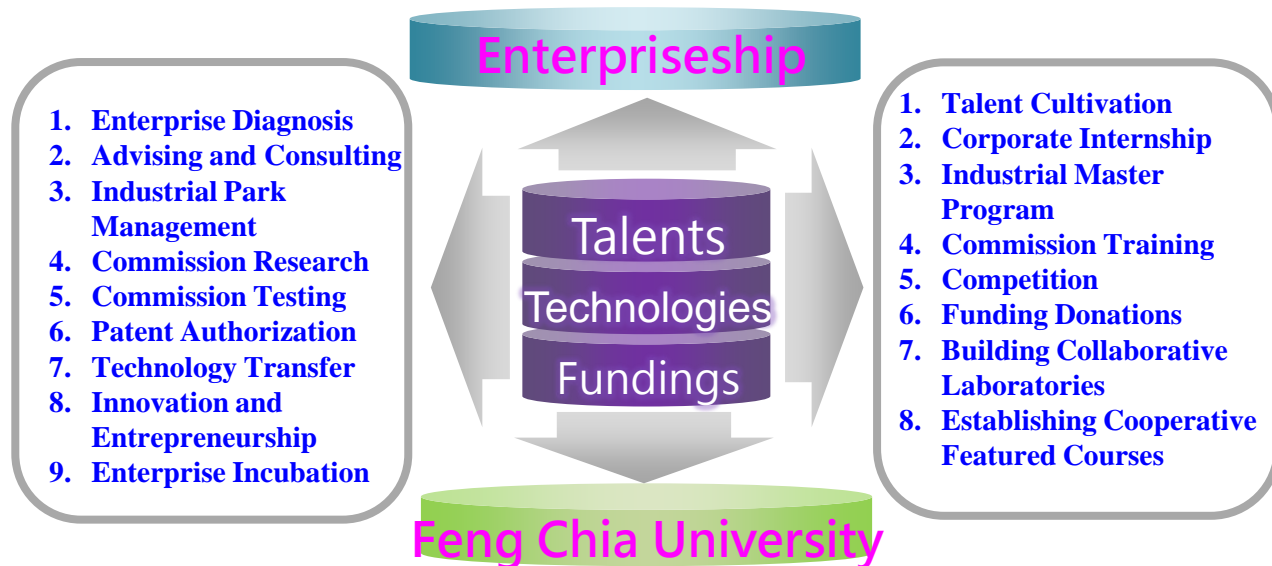


Diversified Instructor's Cultivation

Diversified platforms to aid instructors developing multilayer promotion in teaching assistance and various research, and promotion guides including academic research, applied research, and teaching associated research.

Our Plans

Scheme 2 : Valuing Industry, Operation for Industry



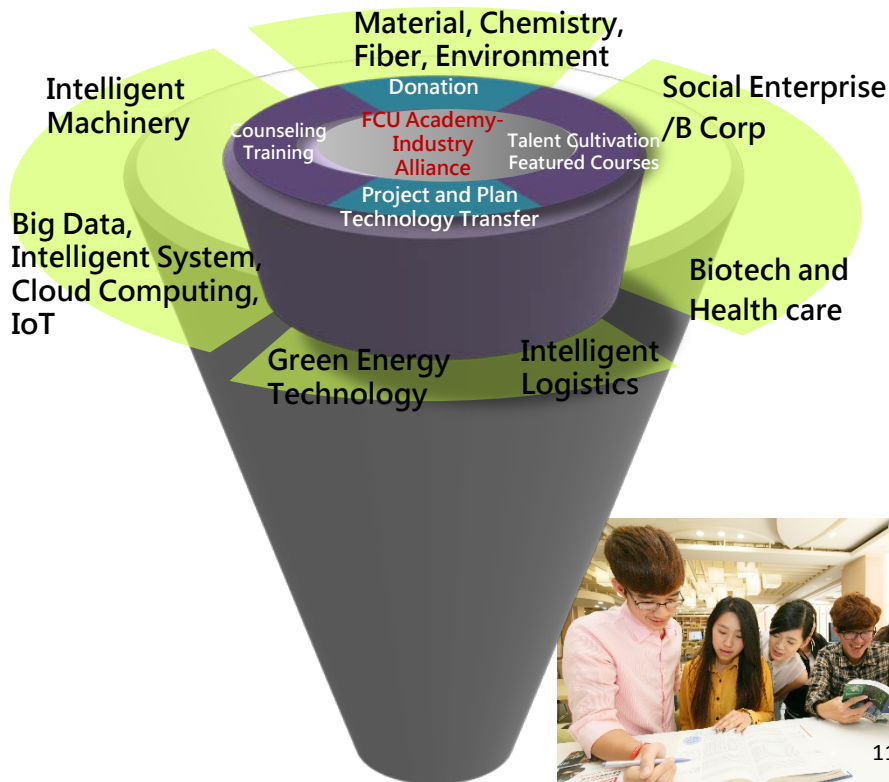
Scheme 3 : Pooling Resources and Focusing Research

Our Plans

- **Focus on 7 fields:**

1. Material, Chemistry, Fiber, Environment
2. Intelligent Machinery
3. Big Data, Intelligent System, Cloud Computing, IoT
4. Green Energy Technology
5. Intelligent Logistics
6. Biotech and Health Care
7. Social Enterprise/B Corp

- **Promoted 480 industry-academia alliances (by September 2016)**



Richly Cultivating Industry-Academia Alliance



Our Plans

Scheme 4 : Constructing Joint R&D Environment

- Facilitating enterprises and research organizations to collaborate with FCU in order to set up “Joint Laboratory of Focal Industry” or “Research Center”
- **Examples**
 - College of Engineering :
Taiwan Textile Research Institute
Merry Electronics Co., Ltd.
 - College of Science :
Jabil Green Point Corp.
Get Green Energy Corp.
Global UNION Industrial Corp.
 - College of Information and Electrical Engineering :
Gain How Printing Co., Ltd.



Taiwan Textile
Research Institute



Merry Electronics Co., Ltd.
Electroacoustic Laboratory



Gain How Printing Co., Ltd.
G-Print Creative Center



Jabil Green Point
Plasma Laboratory

Our Plans

Scheme 5 : Industry-Integrated-Teaching

- **D-SCHOOL**

Cooperate with enterprises via import of industrial issues and practical cases in cultivating talents

- **Graduates' curriculum vitae**

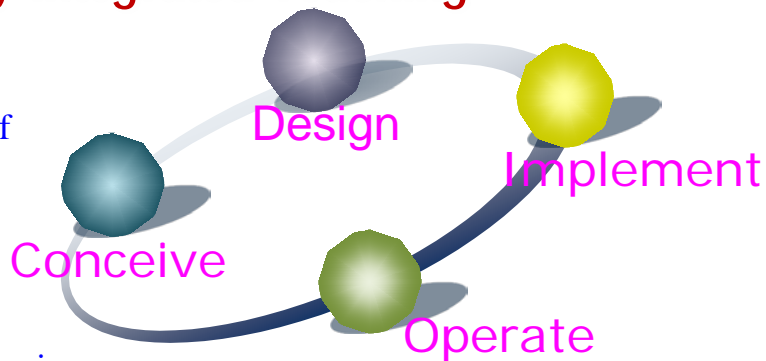
100% graduates with practical topic experiences

70% graduates faced and thought about industrial issues

25% graduates enrolled with internship

10% graduates provided solution for actual industrial problem

- Our master programs accepts both Practical Thesis and Academic Dissertation



CDIO Teaching Mode



Our Plans

Scheme 6 : Campus Entrepreneurship & Innovation

- InnoMaker Community opened on April 2015 providing students a hub to work together.
- Smart Home showroom opened on September 2016 integrating industrial-academia collaboration resource, for example, co-design and co-work with Studio A (Apple Premium Reseller) and In Sky Hotel to create a Smart Home showroom.



Providing an Attractive and Liberal Study Environment

- for diverse study and personalized learning in order to furnish an innovative learning model to practice teaming and team work.
- for students to have a diverse and flexible study environment.
- for students to interact with each other.



Providing learning model and space for future university



Deliver coordination aesthetics for people get along

Create diverse study and multiple function application



Teachers and students have pleasure to interact and learn to each other



SUCCESSFUL WORKING MODELS



Model 1 : Collaborated with Footwear Industry

1. Collaborated with industry communities of footwear so that a group of associated firms' advanced education can be arranged for future developing.
2. With common goals on education and research collaboration, the program can thus be structured for special talents cultivation to meet the requirements.
3. In this collaboration, FCU and industry established a mutual consensus to result in a better understanding and insight into enterprises' R&D demand and a positive strengthen of diversified models for industry-academia collaboration.



Collaboration Model

Taiwan Footwear Education Foundation and Feng Chia University

Special Talents Cultivation

R&D

Joint R&D Laboratory or Center

Donation

- Several millions each year for featured courses and student internship.

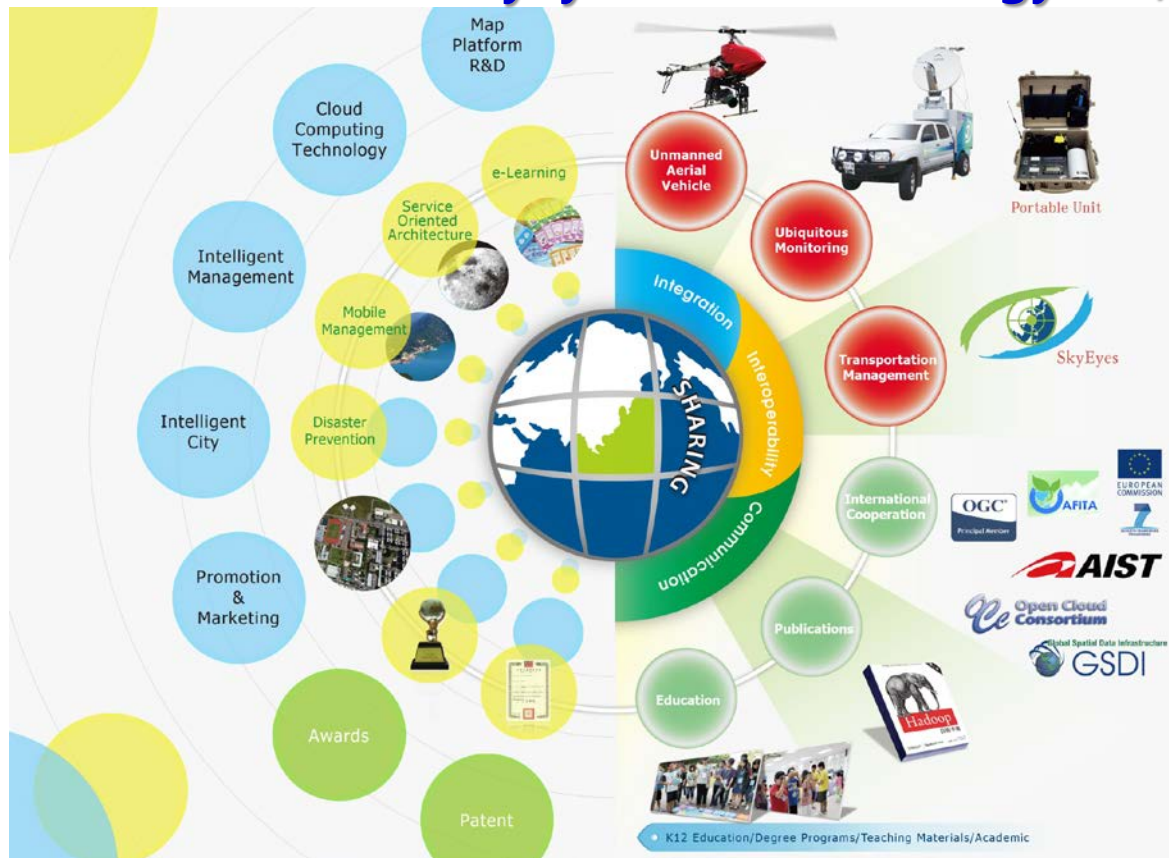
Cultivation Scene

Training Courses



Factory visits & Internship

Model 2 : Industry-Academia Cooperation derivative firm: SkyEyes GPS Technology Co., Ltd



Model 2 : Industry-Academia Cooperation derivative firm: SkyEyes GPS Technology Co., Ltd

- SkyEyes GPS Technology Co. was originated from FCU's GIS center, counseled by FCU's incubation center in 2008, served as R&D and marketing of fleet management products.
- FCU's GIS center and SkyEyes Co. are in joining collaboration to develop a transport management system for best precision and efficiency.
- This model integrates the government promotion opportunity, university technology transfer, and industry collaborate research. It is a successful example of triple success in cooperation of industry, government, and university.



Summary



Academics-Industrials-Innovates
Integrated Education Leads to All Win



Industry: Recruitment
Early Exposure to Recruit
Talented Persons

University: Student Cultivation
Cultivate Students for Industry
Innovative Transformation



Student: Career planning
Comprehensively Understand their
Future Career Direction



Thank you for your attention

