Challenges in Industry Linkages for Higher Education Institutions

Research & Service Headquarter Chih-Han Chang





Outline



- University-Industry Collaboration @NCKU
- Challenges
- Intellectual Property
- Entrepreneurship & Startup
- GLORIA (& Oversea Center)



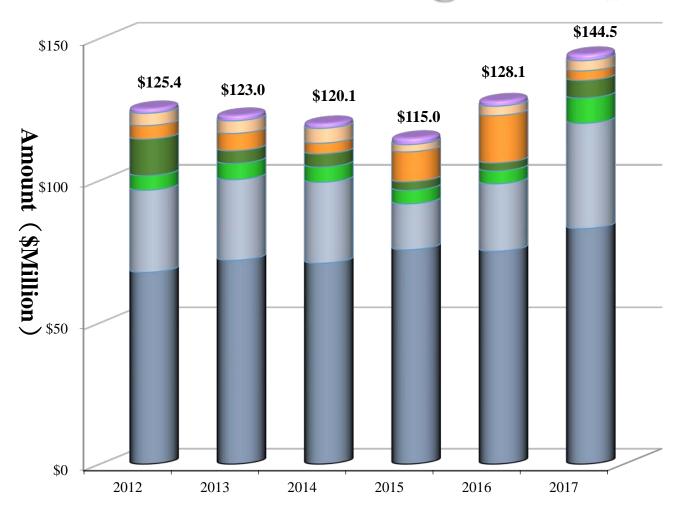


UIC @NCKU





R&D Funding Sources







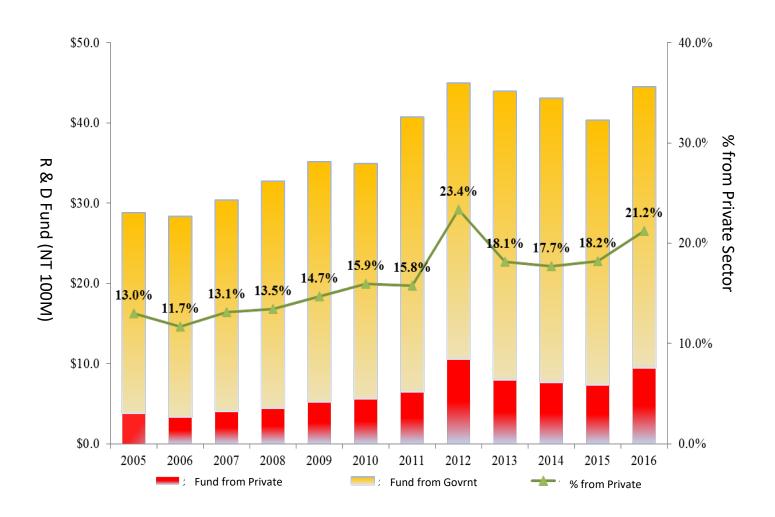
2019 THE Ranking



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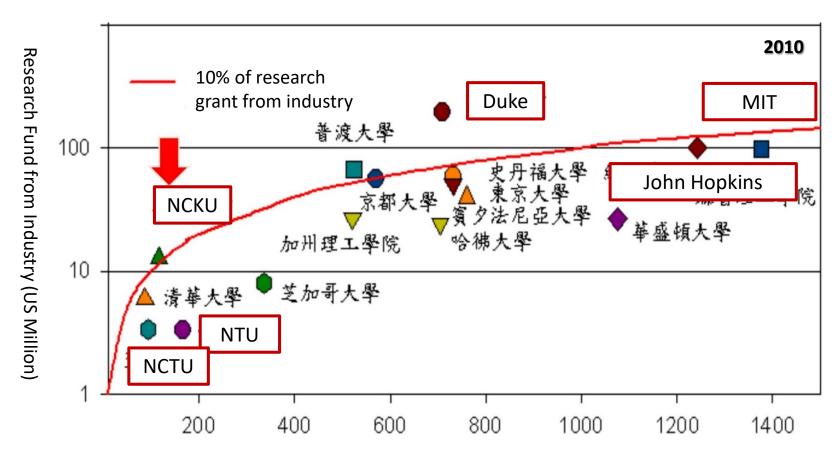


R & D Fund (10~20% from Industry)



World Scale

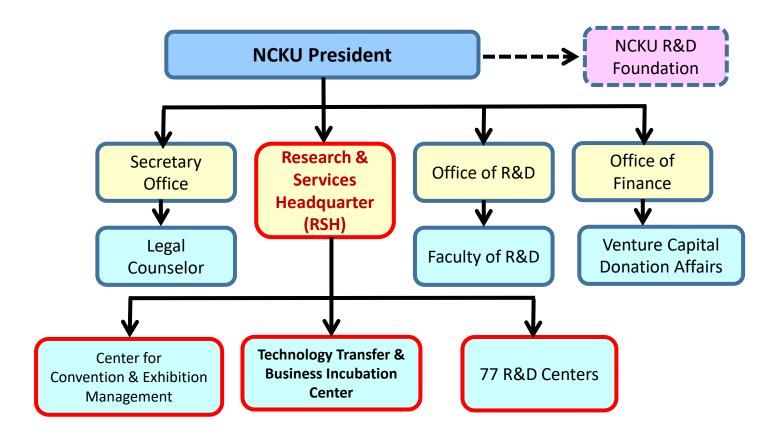




Total Research Fund (US Million)



Organization for University-Industry Collaboration

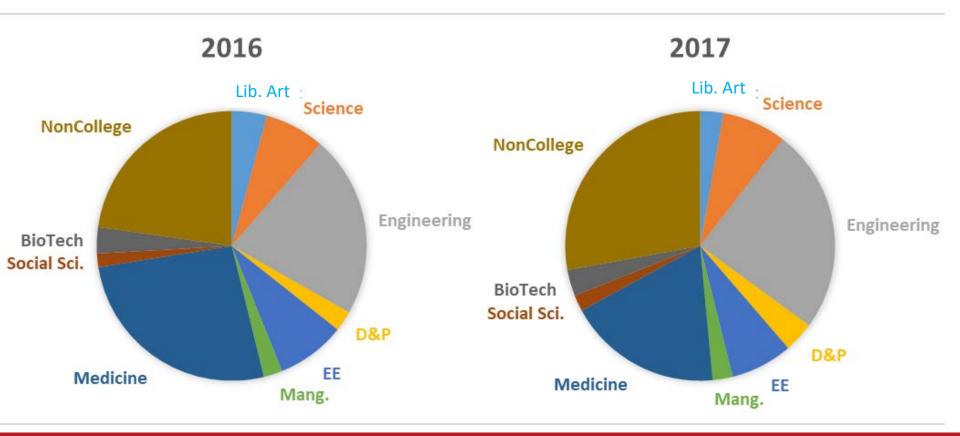


Research & Service Headquarter (RSH)

- Established in 1996 (first in Taiwan)
- Self-funded without school budget
- Currently with 79 self-funded research/service centers
- All centers are formed with cross-disciplinary researchers
- RSH provides a flexible system in recruiting, salary and management.



Research Fund by College







Lesson Learned All professional domains are capable of UIC.

Challenges in UIC



- Triple-Helix coordination
 - Government role: When to encourage and when to regulate (conflict of interest)
 - University aim: Big shot or SM business
 - Industry Expectation: Payless with immediate payback
- Mindset of Researchers
 - UIC is not research. It is the translation of the research.
- Rapid growing in technology push the model shifting in TT&UIC (Startup)
- Needs to incubate paragon successor in TT&UIC
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Observations



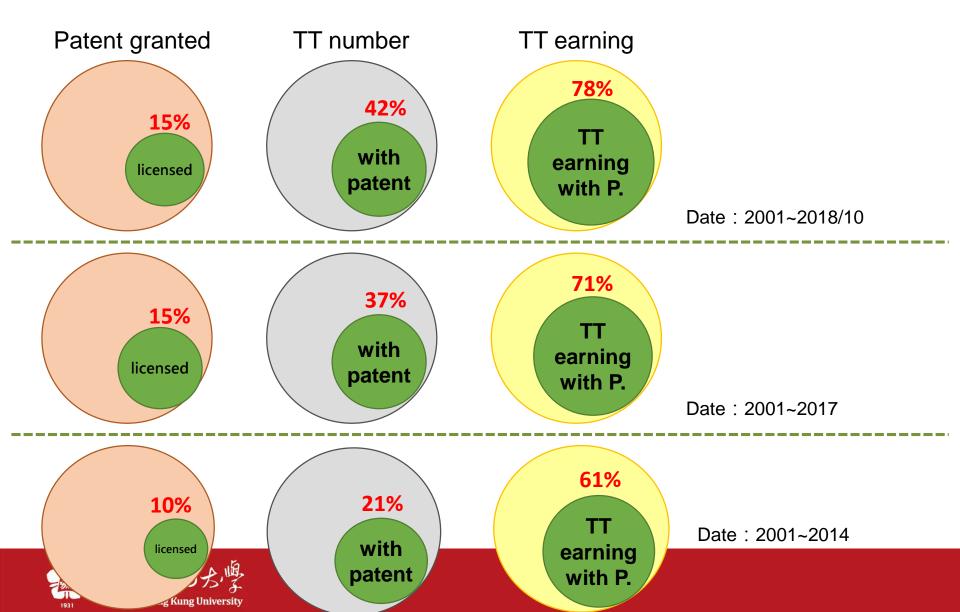
- There are various levels of IP: patent, copyright, or even treat secret/know how
- Government or university can NOT catch the true value of IP.
 - number of patent issued vs. licensed (ranking system)
- Most PIs don't recognize the true strength of IPR.
 - treat patent as paper or credit
 - difficult to reach the PI for educate

Patent Payment Evolution





The Value of IPMS





Lesson Learned

- Lack of right mind set for IP for most PI.
- Patent without licensing is a debt not a property in university.
- It is the quality of patent decides the value of technology not the technology itself in TT.

Entrepreneurship & Startup





Start a Startup



- Ideal/Technology
- Market size
- Team
- Fund

- Patent?
- Business Plane? (perhaps Business Model)



Two Tracks Incubation







NCKU-Silicon Valley Alumni Angel

Supported by the NCKU alumni (\$20k) Startup teams were sent to SV for 3 months





SiLican, Green feed Green feel, Quantum Dot

Startup Performance





18/24 spin-off startups in the past 5 years



Lesson Learned



- Technology is important
 Business Model is more important
 The team is the most important
- BM evaluation should start asap, even before the POC.
- Milestone payment is essential for funding in translation research.
- We support everything but passion

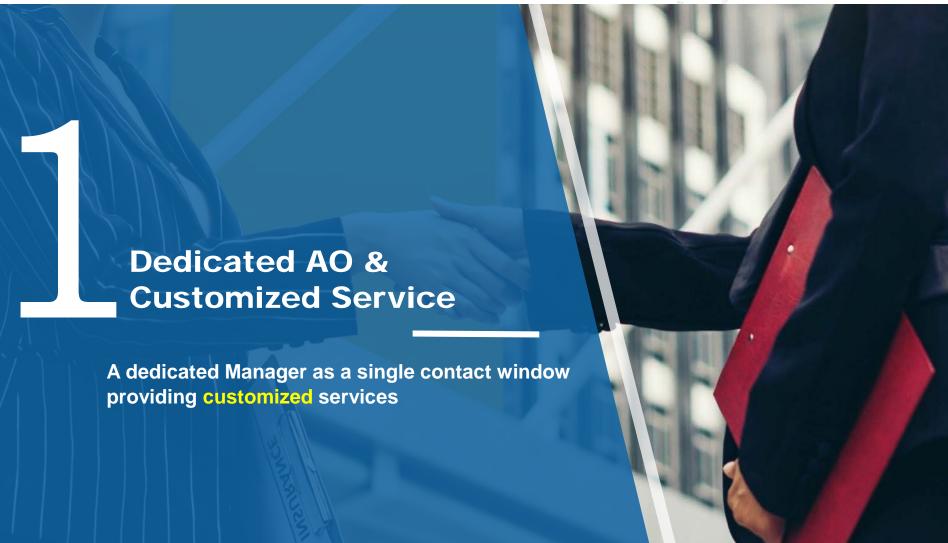




Mining in University with GLORIA recruiting Industry Member for in depth UIC









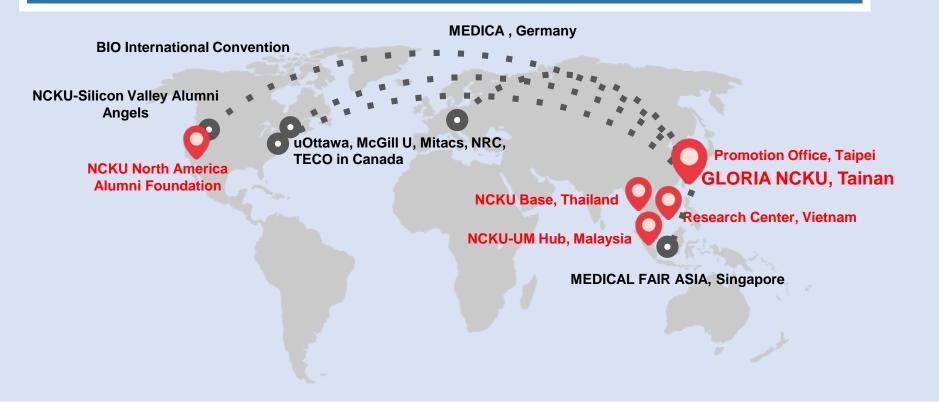






3 Global Networking

- Oversea U2U platform
- Alumni
- Business
- Conferences and exhibitions







4 Talent Channel



- Talent cultivation
- On-job training programs
- Customized talent recruiting

Scholars for Corporate Lectures













Our Team















































Global Connection: Al Corp @ Silicon Valley





Noodle.ai

Landing.ai





















UIC is marathon not sprint.

It takes time to build trust & needs room to learn.

