University-Industry Collaboration – Asian Development Context

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UIC and Human Capital

Human Capital:
Human as knowledge/technology creator (not simply labor force)
Human as adopter and adaptor of technology and knowledge

$y = \text{output/labor}, \ k = \text{capital/labor}.$
Five Key Ingredients of UIC

- Local presence of industries and universities
- Corporate and public R&D intensity
- Human Capital / Skills
- Availability of and experience with proof-of-concept vehicles and funding
- Understanding of intellectual property rights

* Rocky Lee and Sungsup Ra (2019)
BAN: University-Business Association Collaboration

Gov / ADB Skills for Employment Program (2014–2024, $475 million)

Industry Associations
- Garment
- Knitwear
- Leather
- Textile

Mid-Level Manager Training Program

Universities
- Dhaka
- BRAC University
- Eastwest
- Bangladesh University of Textiles
China: Shenzhen Economic Zone Model

Shenzhen Municipal Government

7 Key Industries

- Computer Software
- IT
- Micro-electronics
- Electro-mechanical integration

• R&D
• Technology / Innovations
• Advanced Skills

University Campus

- Tsinghua University
- Peking University
- Harbin Institute of Technology
Korea: Bridge Model

Bridge Model – universities serve as bridge between big industries and SMEs to reduce skills technology gap, e.g., Yeungjin College, Korea
SIN: Forward-Looking Model

Economic Development Board

- R&D
- Technology / Innovations
- Skills

Aircraft MRO Industry
Over 130 companies

Universities Polytechnics
- NTU
- Polytechnics
- ITE
Thank you.
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