University Entrepreneurship and Innovation Ecosystem

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Presentation Outline

• What is university entrepreneurship and innovation ecosystem and why is it important?

• Case study of successful university entrepreneurship and innovation ecosystems

• Comparison of different university entrepreneurship and innovation ecosystems
Successful Businesses that Started Out from Universities

- Facebook
- PayPal
- Dropbox
- Moderna
- Google
Importance of Entrepreneurship and Innovation Ecosystem in University

- Commercialization by supplying knowledge and talent to meet business needs
- Generation of additional funding
- Ideas/Inventions/Findings of scientific research are put into use outside of academia and making real world impact
- Researchers to feel a sense of personal fulfillment which leads to deeper meaning in their work
- Attract sponsors and investors
- Provide network of future employment opportunities for students including job creation
What It Takes for University to Build Ideal Ecosystem

University Entrepreneurship and Innovation Ecosystem

- Great Talents and Ideas
- Entrepreneur Mindset
- Access to Entrepreneur Resources
- Access to Funding
- Policy
- Collaboration with Industry
- Community
- Market
What It Takes for University to Build Ideal Ecosystem

Great Talents and Ideas

Entrepreneur Mindset

Access to Entrepreneur Resources

Access to Funding

Policy

Collaboration with Industry

Community

Market

University Entrepreneurship and Innovation Ecosystem
Successful University Entrepreneurship and Innovation Ecosystems

#1 World’s Most Innovative University Ranking
Source: Reuters

#1 University in Africa
Source: Times higher Education’s World University Ranking

#5 Asia World’s Most Innovative University Ranking
Source: Reuters
Entrepreneurship and Innovation Ecosystem 1: Stanford University

- Founded in 1885
- 4210 companies
- 102 unicorns founded by alumni of Stanford University
- Raised over $150.70 billion USD in funding from 6999 investors
- Revenues of $2.7 trillion USD annually
- Created 5.4 million jobs since the 1930s
## Stanford University

| Access to Funding          | • Stanford Seed Funding  
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<th>• Alumni funding</th>
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| **Access to Entrepreneur Resources** | • Hackathons and competitions  
|                           | • Office of Technology Licensing  
|                           | • Launchpad Accelerator programme  
|                           | • “Entrepreneurial Thought Leaders” seminars |
| **Collaboration with Industry** | • Industrial Affiliate Programme  
|                           | • Stanford-Silicon Valley |
| **Community**             | • Stanford Alumni Association  
|                           | • Accessible university resources to promote collaboration  
|                           | • StartX                   |
• More than 20 spin-offs in 10 years
• Licensing and intellectual property revenue of $1.96 million USD in 10 years
• Value of equity held in 9 spin-off companies: more than $7.03 million USD
• Betw 2012-2019, 5 founders of start up which managed to raise $1 million USD in funding received post graduate education at UCT
University of Cape Town

Access to Funding
- University funding for different stages of start up development
- Equity in spin off companies

Access to Entrepreneur Resources
- Department of Science and Innovation’s (DSI), National Intellectual Property Management Office (NIPMO)
- Incubator/accelerator UCT GBS Solution Space
- E-track cohort and Demo day

Collaboration with Industry
- Industry sponsored bursary programs
- Larger collaborative multi-year research programs
- Mentorship programme with industry

Community
- UCT surrounded by incubators and accelerators which promote collaboration
- UCT entrepreneur Society
Entrepreneurship and Innovation Ecosystem 3: The University of Tokyo (UTokyo)

- 323 companies
- Annually 500 inventions and conducts 1600 collaborative research projects
- Total market capitalization is around $132 million USD
- First university in Japan to have a technology licensing office in 2018
The University of Tokyo

Access to Funding

- Own investments into start ups

Access to Entrepreneur Resources

- Entrepreneur program including business plan contest
- Division of University Corporate Relations
- Todai Technology Licensing Office (Todai TLO)
- 4 Incubation facilities e.g., University of Tokyo Entrepreneur Plaza

Collaboration with Industry

- Provides network opportunities and introduction to investors various companies
- Promotion of start ups to companies through close collaboration with support companies that provide fundings

Community

- 234 start ups clustering around Utkoyo Hongo Campus
Key Points

- **Access to Funding**
  - Availability of funding during different stages of start up especially during the early stages
  - Have means to sustain fundings for future start ups e.g. alumni funding or equity in university spin off companies

- **Access to entrepreneur resources**
  - Integrate entrepreneurship education into university curriculum
  - Presence of incubators and accelerators to allow access of network, mentorship, funding, physical workspace
  - **Legal, financial and administration** support for commercialization of research or start up creations through a centralized office such as Technology Licensing Office
  - Demo day and competitions which allow early start ups to gain exposure and polish their business pitch
  - Seminars by industry experts allow them to impart their entrepreneurship experience and network connections

- **Collaboration with industry**
  - Give students the opportunity to experience and solve real world industry problems present in the local ecosystem
  - Offer students more hands-on learning experiences to work directly with industry partners

- **Community**
  - Support university-wide activities to encourage the entrepreneurial spirit
  - Online presence to facilitate collaboration
Thank you for your attention.