



**Innovation Summit and International Conference on
Technology Transfer and Internationalization of Technology-
based Businesses**

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**Fostering Innovation-driven
Entrepreneurship and Start-up
Development to Achieve SDGs**

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Structure of the Presentation

- 1. Innovation and SDGs**
- 2. Who produces innovations?**
- 3. Innovation ecosystems of Indonesia – what could be done for SMEs and Start-ups to innovate?**

Current Global Challenges



Climate change



**Economic
development
and employment**



**Finite natural
resources**

Innovation is the key



Innovation and Sustainable Development





Scientific discovery & Innovation

New scientific discoveries/new technologies may lead to a patent

Innovation only takes place when this novelty is used

Then the benefits for the economy will emerge



Who produces innovations?



**Large
enterprises**



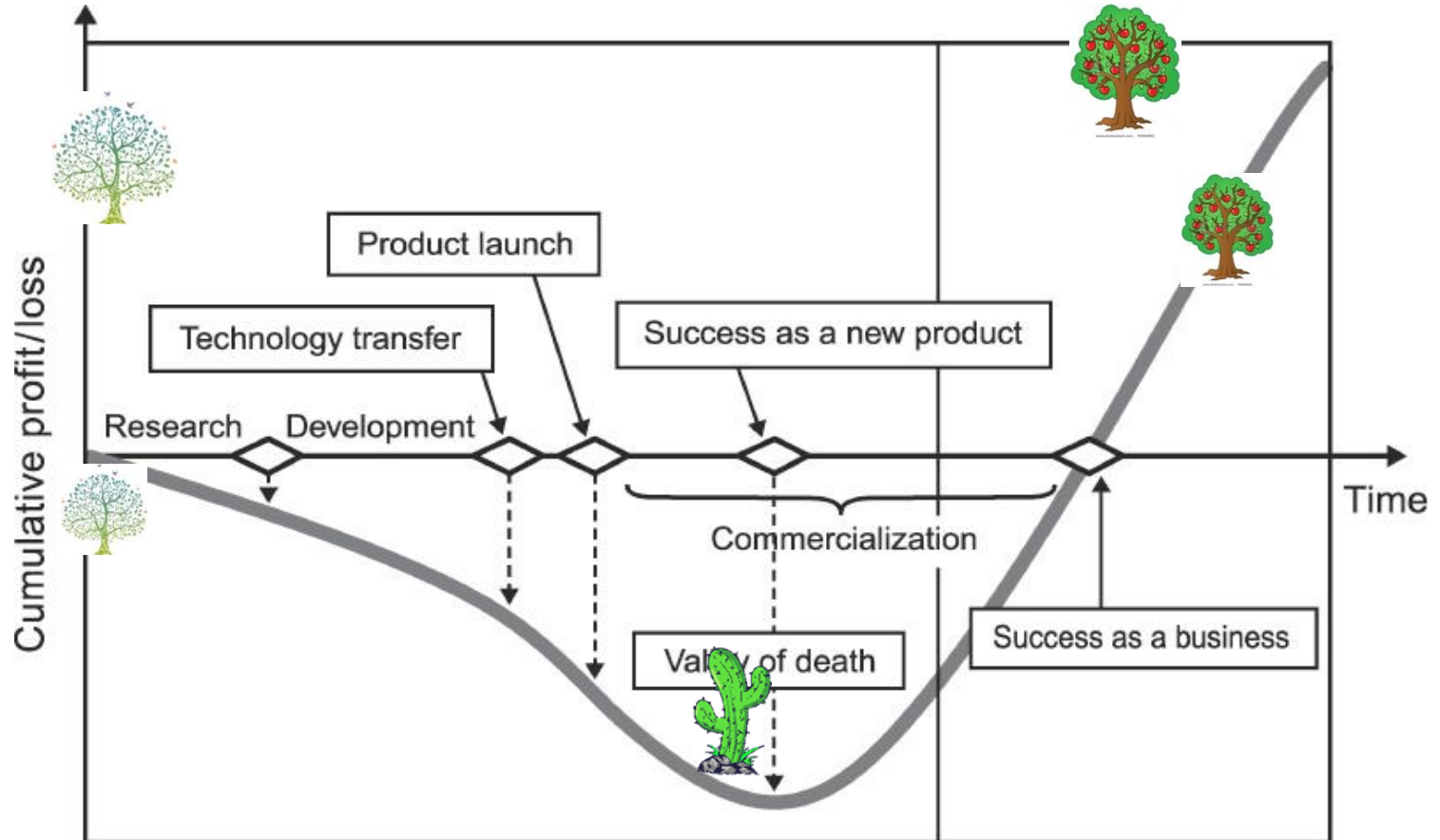
**Small and
Medium Sized
Enterprises**



**Innovative
entrepreneurs**

Financing of Commercialization of Technologies - Valley of Death

Source: Osawa and Miyazaki (2006)



How to grow the technology-based SMEs and Start-ups?

Supporting sticks

Water

Good Soil



Enabling environment

Good seed

& Government as a gardener



APCTT
Asian and Pacific Centre
for Transfer of Technology

18 July 2018, Manila



UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific



Optimizing the regulatory environment for innovative SMEs & Start-ups

1. **Optimize the regulatory environment:** i.e., benchmarking of time and cost of starting a business; setting up public-private dialogue on regulatory costs and benefits
2. **Minimize regulatory hurdles where appropriate:** i.e. review , reduce regulatory requirements, such as licenses, procedures and administrative fees
3. **Build entrepreneurs confidence in the regulatory environment:** i.e guarantee property protection; reduce the bankruptcy stigma and facilitate re-starts
4. **Guide entrepreneurs the benefits of formalization:** i.e. carry out information campaigns on regulatory requirements; link between regulatory requirements and available public business support services; assist start-ups in meeting regulatory requirements



Improving Access to Finance for innovative SMEs & Start-ups

1. Promote funding for innovation:

- Provide incentives to attract venture capital investors and business angels
- Encourage equity and "risk capital" financing modalities
- Possibility to use of intellectual property as collateral

2. Build the capacity of the financial sector:

- Provide capacity-building grants and technical assistance to expand lending activities to serve start-ups

3. Provide financial literacy training to entrepreneurs



Providing Enabling Environment for Innovation



1. **Foster talent and skills for innovation** (i.e. high quality education, international cooperation, mobility of researchers, R&D expenditures)
2. **Promote robust intellectual property right (IPR) regimes**
3. **Ensure consistent and clear tax regulations**
4. **Attract innovation-friendly foreign direct investments**
5. **Provide good infrastructure** (e.g. greater diffusion of ICT use)
6. **Promote inter-firm networks** (i.e. cluster development)
7. **Build bridges between public bodies, research institutes, universities and the private sector**
8. **Support high-tech start-ups** (i.e. business incubators, knowledge hubs, science parks); commercialize innovation; provide streamlined access to cost-effective patent protection

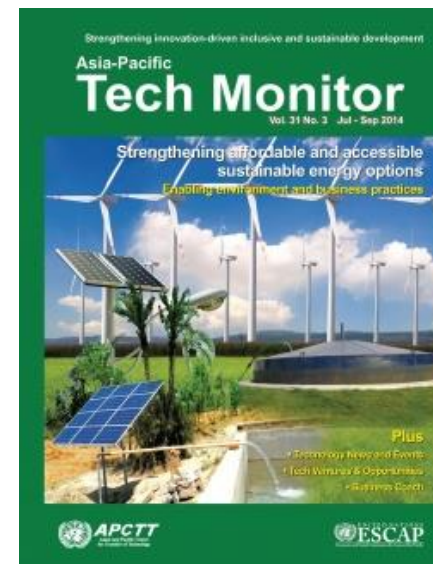
What APCTT can do for you



Science, Technology
Innovation Policy



Technology
Transfer



Technology
intelligence



Thank you