



Support & Reinforce the Management & Exploitation of IP in Universities & R&D Institutions & in Polytechnics



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National level support for TT



Funding & Tax incentives



Establish High Profile TTO



Challenges

Political Commitment & support of national authorities





AGENSI INOVASI MALAYSIA

NATIONAL INNOVATING MALAYSIA

Creating Wealth Through Knowledge, Technology and Innovation

Team work

100

Strategic alliance

Innovation

Partnership

Same vision, mission & wavelength!

Policies



INNOVATING MALAYSIA

A Joint Effort by MOSTL& AIM

NATIONAL INNOVATION POLICY

Strengthen building blocks of innovation

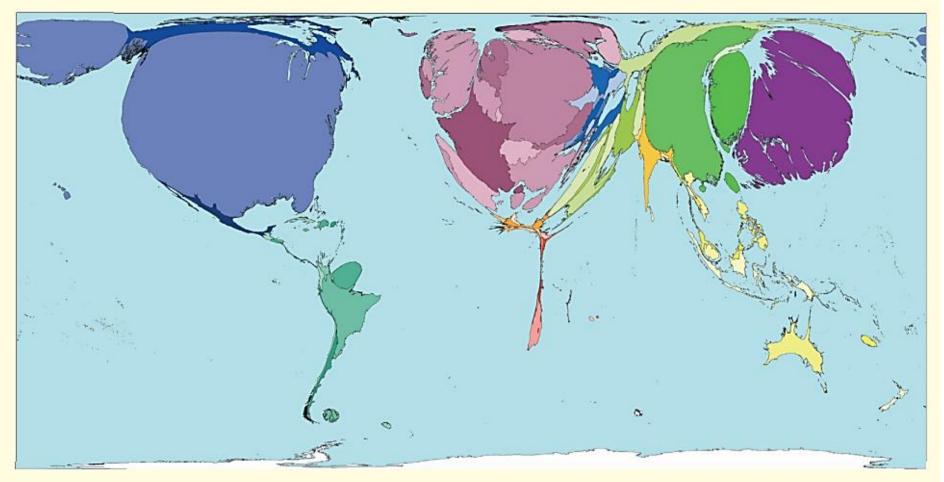
Structural Enhancement

- Institution Tech Transfer Office
- A National TTO
- > IP Academy
- > IP court



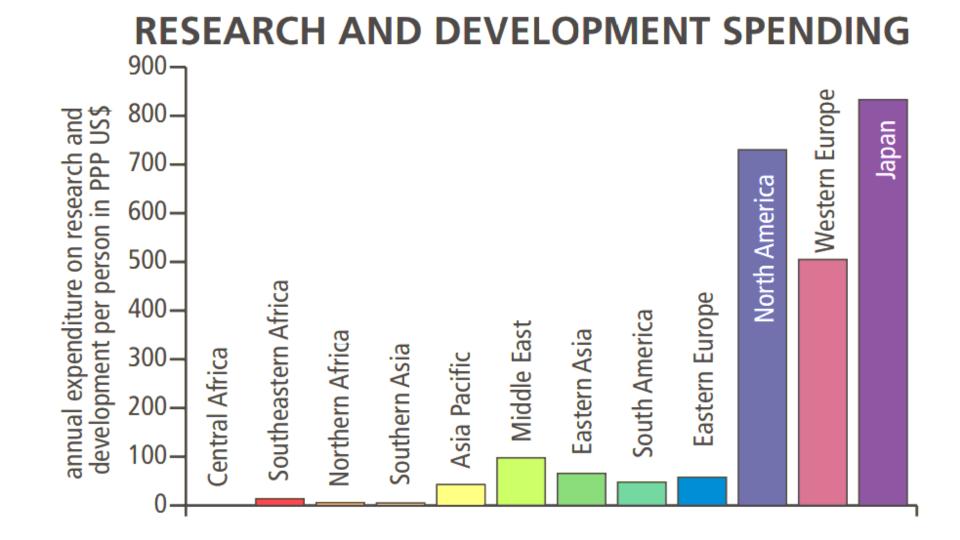


Research and Development Expenditure

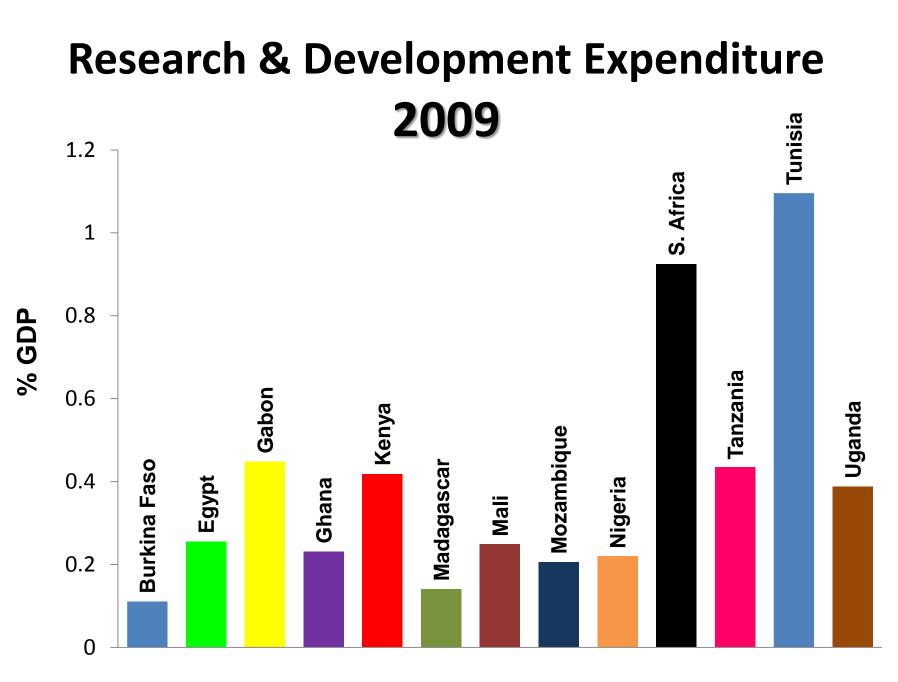


Territory size shows the proportion of worldwide R&D spending that is spent there

http://www.worldmapper.org/posters/worldmapper_map165_ver5.pdf



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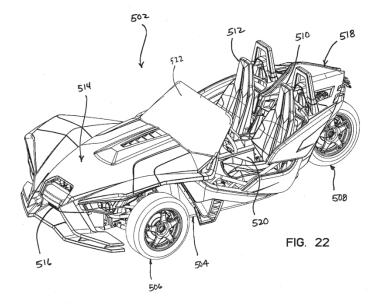


Sound research management practices

Promote adoption of sound research management practices including:

IP management

Commercialisation of research outputs



Ensure excellent research

- Build strong team
- Focused research
- Headed by core competent scientists
- Hiring "champions" in targeted fields

Incentive -Research Funds







Innovation of products or processes for further development & commercialisation



Lab scale investigation for production of CQ10

Max: \$162K





TechnoFund

mosti

Develop products & technologies for pre-commercialization stage



\$1.6Million

Pilot scale production of CQ10



\$1.6 million Pilot scale

\$20 million Commer Scale

Various sources of funds for scientists with patents

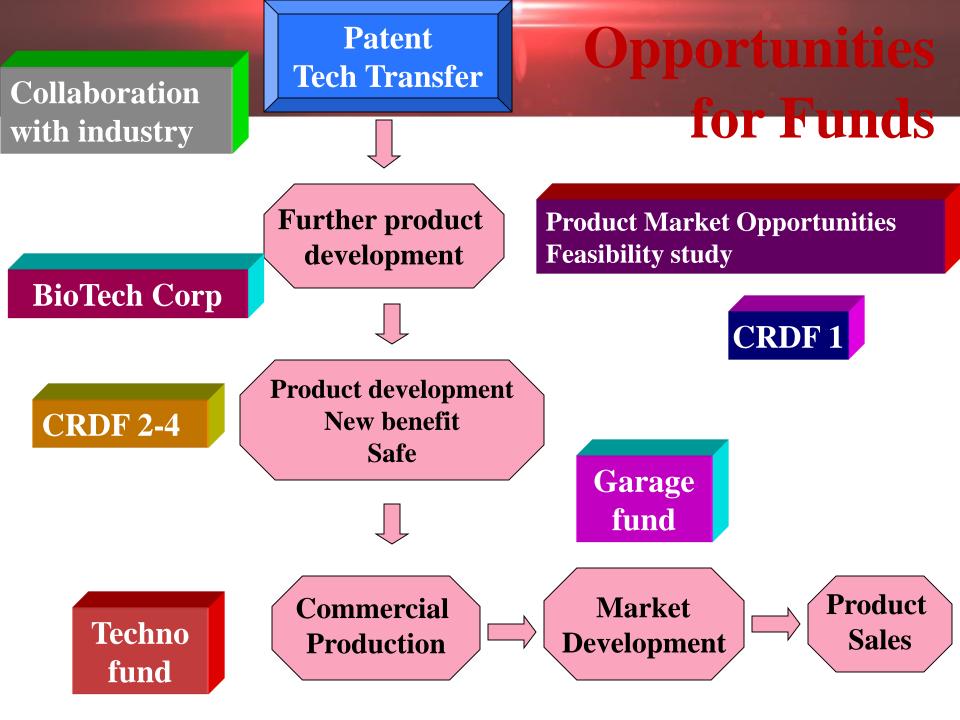
Commercial plant - VC - \$20 million



Provide incubators for up scaling & incubation

Funds for innovation





Keep improving the technology

Scientific Discovery 50kDa 1986-1991

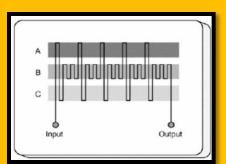
TYPEST CO

1994

Dot EIA (Require cold chain)



Universal PCR Chip (Nanotechnology)



Immuno- chro matography (No cold chain)



Thermo Stabilised PCR EZ TYPHI carrier DNA



2005

2008

Tax Incentives

R&D incentives:

- Investment Tax Allowance (ITA)
- Super Deductions
- Enhanced benefits for Pioneer Status

Malaysia's S & T Policy for the 21 st Century

Programs include:

Holding Co. to promote Commer.



Improve incentives for researchers to commer.

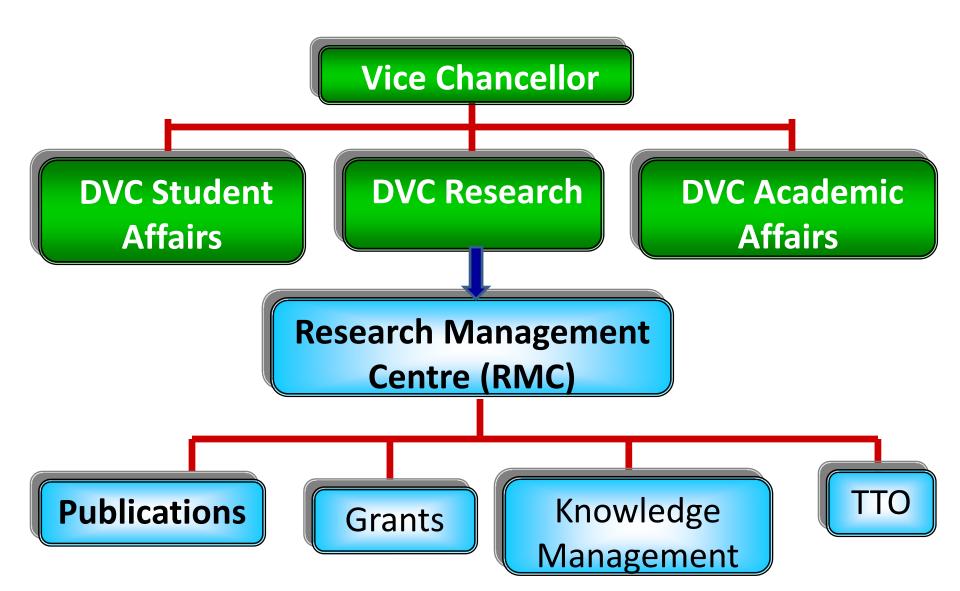


Establish a high profile



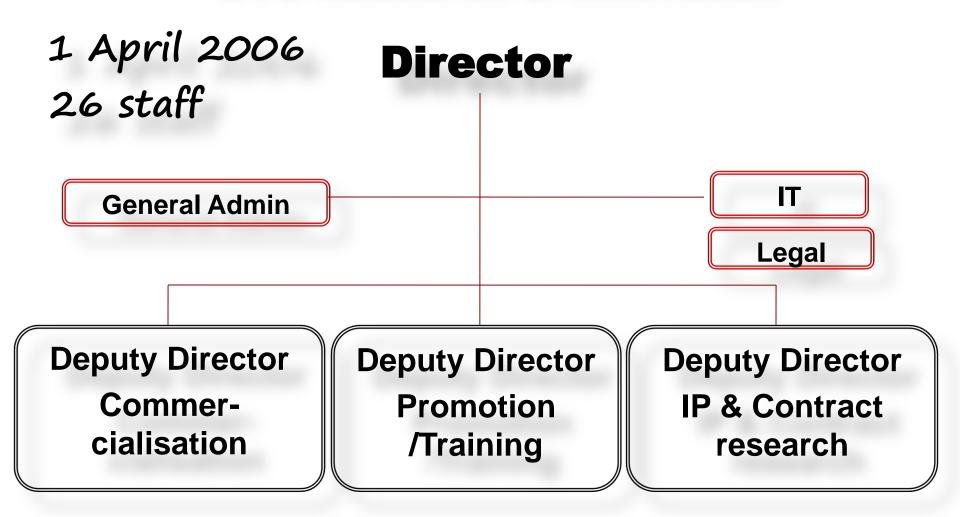


Organizational Structure of TTO Office



TTO organisational structure - upm

DVC Research & Innovation



TTO Divisions & functions

Promotion/

Commercialisation

Planning

- **Business planning**
- Business develop
- Market research
- Garage/incubators
- Issues/Policy

Commercialisation

- Entrepreneurship
- Marketing
- 'Spin-off' Company
- Commer grant
- **Monitoring** project/Co.



Training

- Promotion
- Roadshow
- Training
- Public retlation
- Branding
- Matchmaking



TMO Staff with the right expertise!

Researcher's role







Patent difficult to evaluate

Patent – non-tangible asset, evaluation is difficult

- E.g.
 - 1st offer RM200,000
- Final offer RM 4 million
 - + 20% equity to researcher
 - + 5% equity to UPM
 - + Consultancy

Right expertise to negotiate



TTO - Strong leadership

- Has deep understanding about role
 of TTO
- Have great talent to develop new vision & mission
- & able to drive forward all staff to achieve excellence

Staff must have the right skills

- Communication
- Problem solving
- Interpersonal
- Proactive
- > Networking





Solution & Commercialization & Globalisation of Univ. IPR

- Program on Tech. Licensing for ASEAN Countries – *Taiwan*
- WIPO Regional Workshop on Patent Drafting Singapore
- 'Negotiating Skills for IP-Related Tech Transactions' – Singapore

ICC Staff Training



No	Training
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- 1 Successful Technology Licensing Course
- 2 WIPO Nat. Symp. on IP Education, Training & Research
- 3 JPO/IPR Training Course for IP Trainers Japan
- 4 Asia Pharaceutical-Biotech Partnership Forum Singapore
- 5 Impact of the PCT on Malaysian Business
- 6 Commercialization & Globalisation of Univ. IPR
- 7 Program on Tech. Licensing for ASEAN Countries *Taiwan*
- 8 WIPO Regional Workshop on Patent Drafting *Singapore*
- 9 'Negotiating Skills for IP-Related Tech Transactions' –
 9 Singapore

10 Measuring R&D & Developing Innovation System In An Institution of Higher Learning

The success of TTO

Profile - high

- Staff sufficient
- Strategies short & long term term
- Policies friendly policies
- Networking strong

Sustainable Funding for TTO

For IP protection



Incentives

Incentives for Researchers

U\$1630 for filing patent

U\$3260 on receiving patent certificate



Provide Tools



🖎 Derwent World Patent Index

Solution Database of patent from 40 of world's patent issuing authorities

Short abstract & use of invention

🖎 Has 20 million "inventions"

A million new inventions added each year

Strengthen building blocks of innovation



Graduates – must have:

Innovation methodology

The Workforce must:

Build future skills today

- Master an Innovation Methodology for creating new products & services
- Business models
- improving public services

Assurance of a Product Developinon market

If R&D is done in collaborat ion with the Commercialis industry partner

Company same www.fundmap.co.uk/EKTN/assets/images/fundmap_pie.jpg

Aesearch

Blee SHY

Solution of the second second

Postenic ion

Inte

Start here

nacionalisation

ment & Training

Design & neises D

Produc

Marketing using Global Webs

PARTNERING

ANALYTICS.

OVERVIEW



censing

Connect with Confidence!

Trust the leading global resource for partnering licensing, and business development within the life science and biopharmaceutical industries.

KNOWLEDGE

LEARN MORE

CONTACT

LOGIN

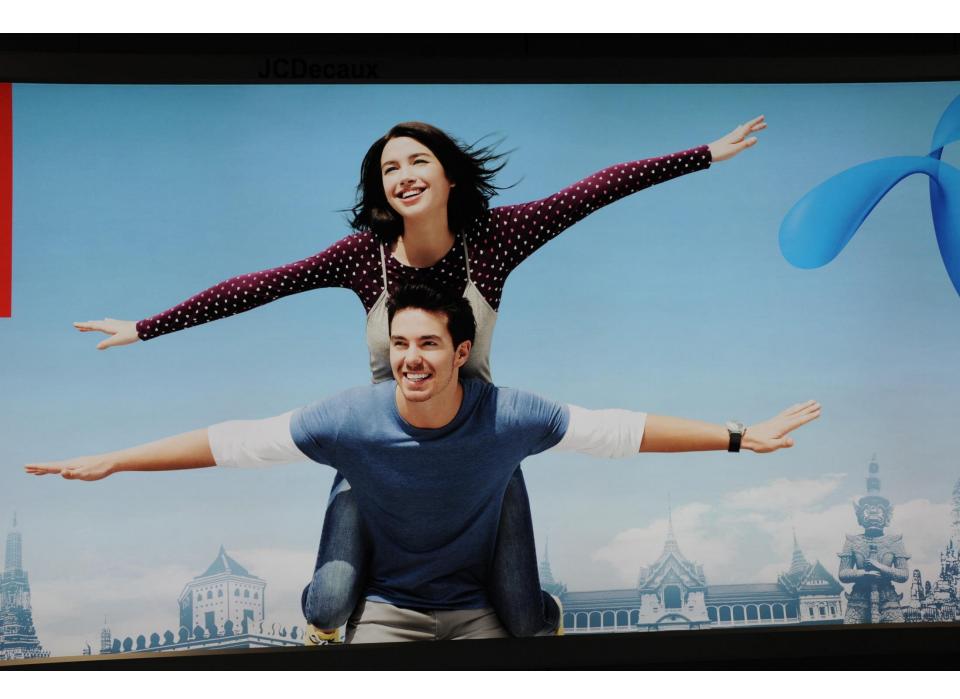
Pharmalicensing



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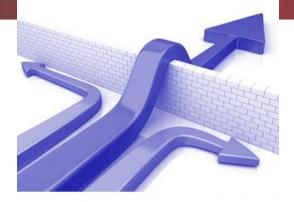


Work with regional or Global players

Local market small & non sustainable





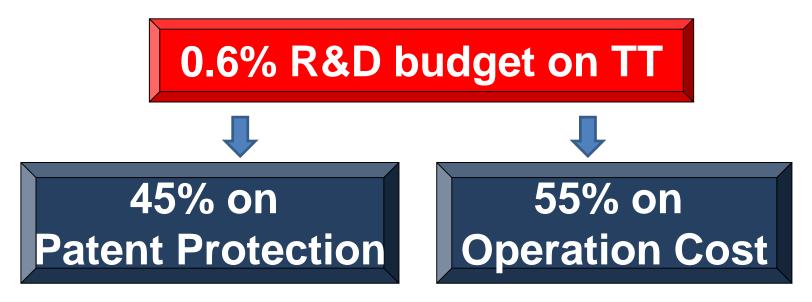


Challenges

No Quick Fixes

- TM &TT field is still relatively new & evolving
- Entrepreneurial develop. takes decades to accomplish
- Short-term results difficult to demonstrate & to quantify
- Academic & private decision makers must recognise these facts & build flexible programs that takes time to mature & evolve

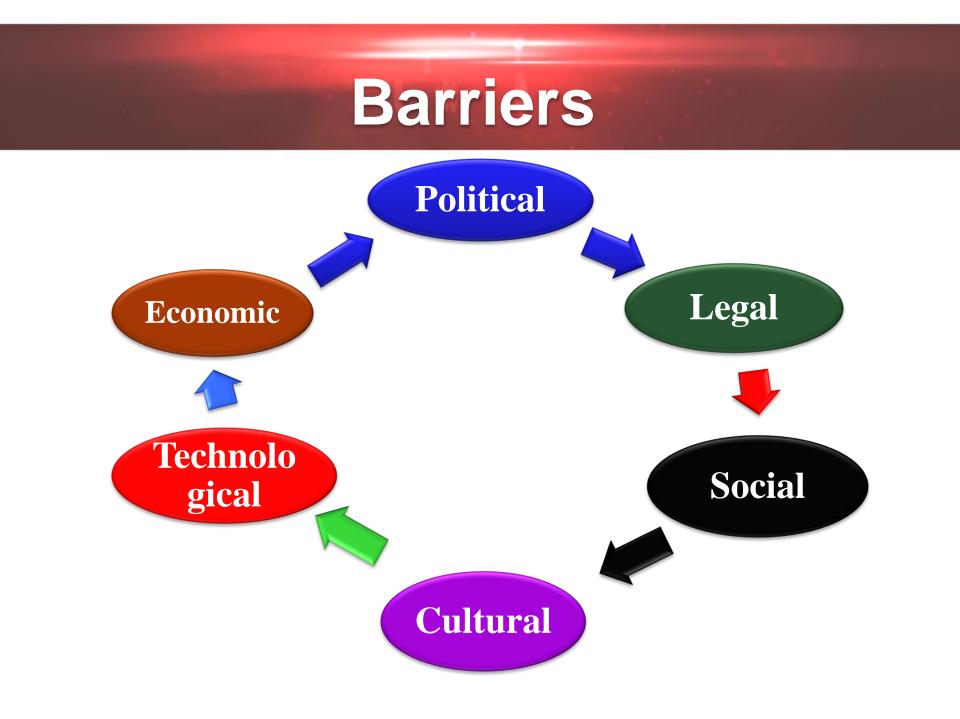




<50% of programmes generated less than the operation cost

□ 16% self sustaining

Research Management Review, Volume 17, Issue 1 Fall/Winter 2009



Unclear policies

Unpredictable changes

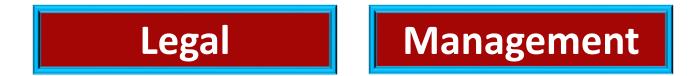
New leaders – different vision

Private sector – loses trust with the institution

Slow process



Approval from various levels



For private sector – time is money

