# Topic 5 – The Strategic Importance of Patents and Utility Models for Innovations and Development

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# **Patent Statistics & Economic Development**

# Top Country PCT Applications 2010 USA 44,890 Japan 32,180 Germany 17,558 China 12,295 South Korea 9,668 France 7,288 United Kingdom 4,908 Netherland 4,078 Switzerland 3,728 Sweden 3,314

Source : WIPQ

# **Economic Performances of These Countries**

- Highly industrialized rich countries, or
- Fast emerging industrialized countries

GDP Per Capital (USD)		
46,000 (2010 est.)		
	"	

Source: CIA World Factbooks 201

# **Economic Performances of These Countries**(cont'd)

# Top Company PCT Applications 2010

2,154
1,868
1,677
1,528
1,435
301
1,298
1,286

Source: WIPO 2011

## **Importance of Innovation**

"Japan and the UK recognize the importance of science, technology and innovation to economic competitiveness." - Joint Statement, January 2007

- HE Shinzo Abe, PM Japan
- HE Tony Blair, PM UK
- "Scientific progress, innovation play big role in China modernization"
- Hu Jintao, PRC President

## **Importance of Innovation** (cont'd)

-"It is recognized that building technology and innovation capacity is necessary for the promotion of dynamic local SMEs, which are driven by innovation-led secure and sustainable growth in the knowledge-based economy"

UNESCAP

# **Basics for Economic Development**

- Technology
- Innovation
- Enterprises

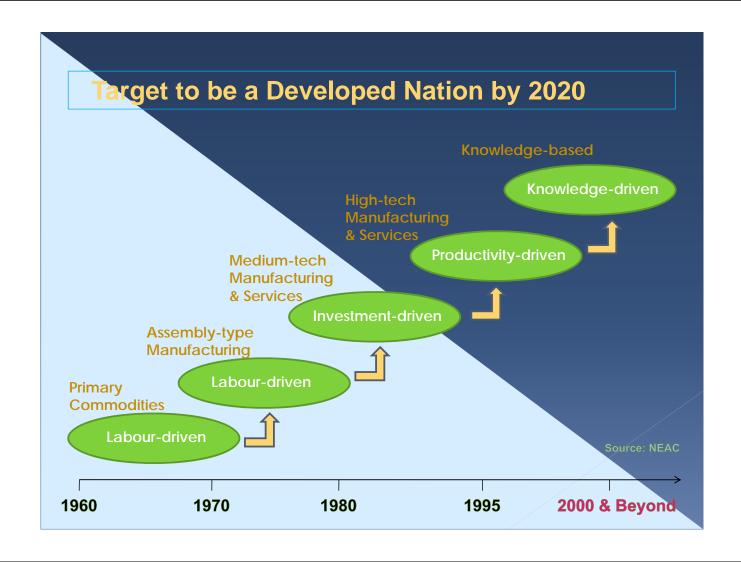
# National Perspective – A National Innovation Agenda

- Requires Creativity & Entrepreneurship
- Requires National Innovation
  Strategies

# **Sharing Malaysia Experience ....**

# About the country:

- Located in South East Asia
- About 27 million people
- A newly industrialized country
- Top 30 largest economy
- GDP between 5-7% average
- Export Oriented Economy
- More than 95% businesses are SMEs

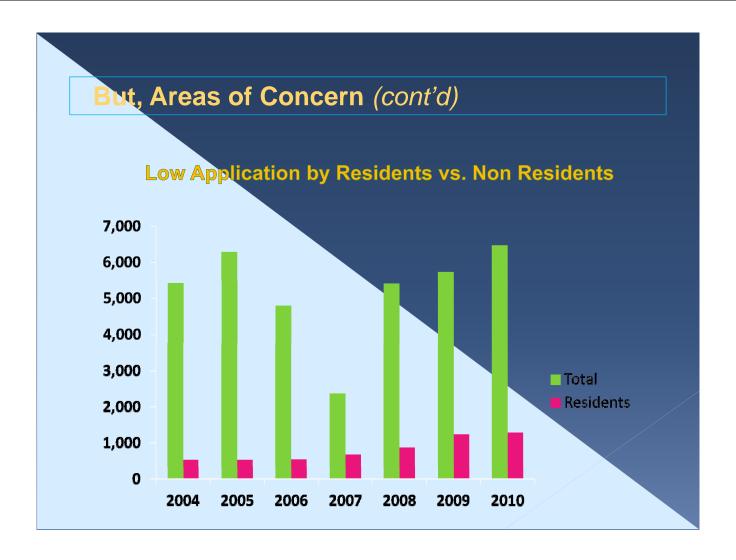


## But, Areas of Concern .....

"We have 7 patents granted for every 1,000 R&D personnel, as compared to Korea and Japan who each have ever 220 patents"

- Abdullah Badawi, Prime Minister

#### t, Areas of Concern (cont'd) Low No. of Patent Applications by Residents 1,234 <sup>1,275</sup>



# **Low Patent Statistics - What Implications!**

- Lack of knowledge to operate industry
- Stagnation in economic growth in years to come

# OUR CHALLENGE: Establish A Scientific Progressive Society

- Innovative and forward-looking society
- Not only a consumer of technology, but

also a contributor to

S & T civilization



# To Launch a National Innovation Agenda

#### Launched November, 2007

Promotes 6 key strategic thrusts

Establishment of the National Innovation Implementation Task Forces

Introduction of a new Innovation Model

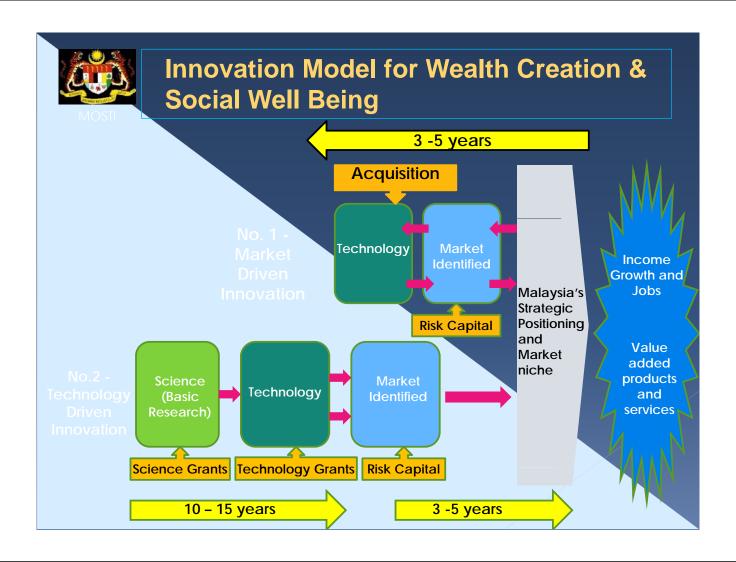


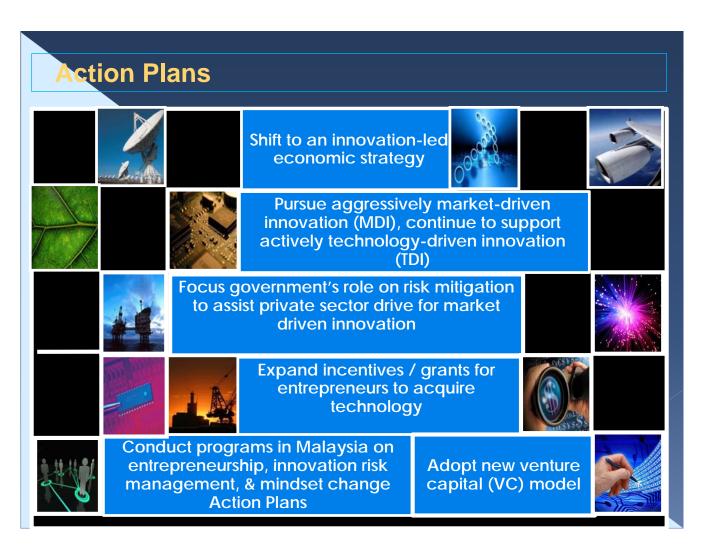
#### CONFIDENTIAL

MALAYSIA: MARKET AND TECHNOLOGY-DRIVEN INNOVATION FOR WEALTH CREATION AND SOCIETAL WELL BEING

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# Implementation by 2010

#### 2010 - First Phase

Major recommendations:

- Incentives & Services to support MDI and TDI
- Transition to the new VC model
- Programs on entrepreneurship, innovation management, mindset change etc.

#### **2015 - Expand**

All recommendations fully implemented

#### Vision 2020 -

New Innovation Model fully embedded in the national economy



## Strategic Thrusts on S&T

- 1. Strengthening research and technological capacity and capability
- 2. Promoting commercialization of research outputs
- 3. Developing human resource capacity and capability
- 4. Promoting a culture of science, innovation and techno-entrepreneurship



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# Strategic Thrusts on S&T (cont'd)

- 5. Strengthening institutional framework and management for science and technology, and monitoring of S&T policy implementation
- 6. Ensure widespread diffusion and application of technology, leading to enhanced market driven R&D to adapt and improve technologies
- 7. Build competence for specialization in key emerging technologies



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# Related IP Programs

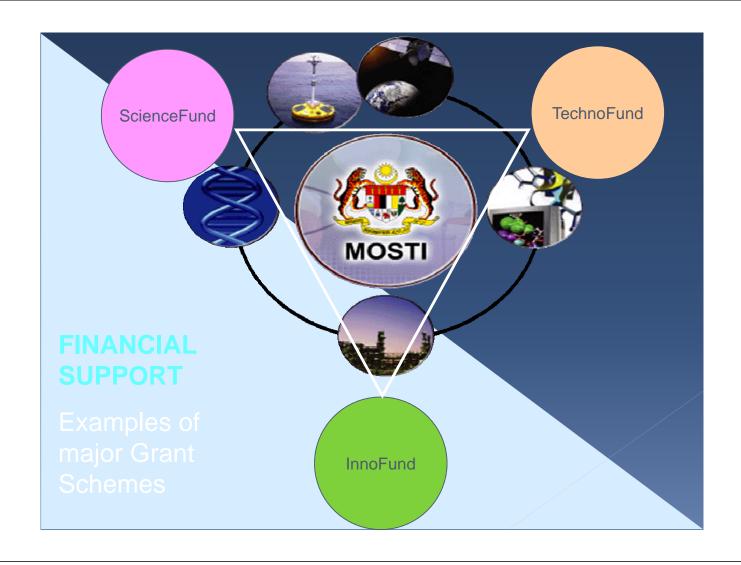
# **Encourage** inventions and IPRs -

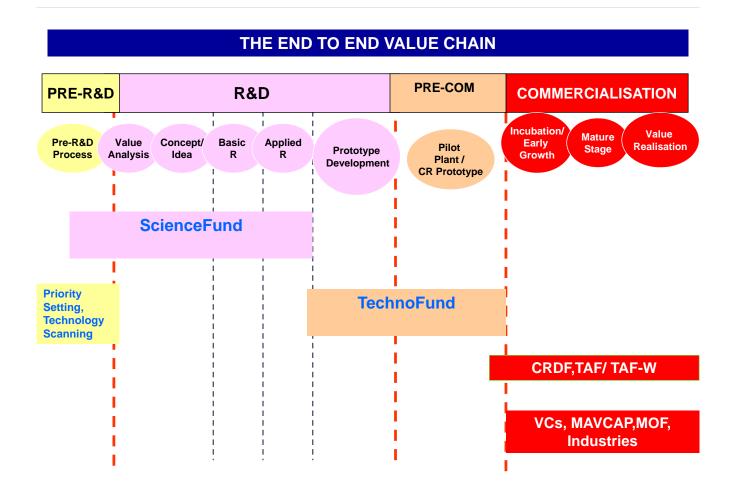
- Stronger link between Patent & R&D agencies
- Policies to encourage University-Industry cooperation
- Technology Licensing by Universities \ R&D agencies
- Commercialization Policy to reward inventors

# Related IP Programs (cont'd)

# **Encourage inventions and IPRs -**

- Tax deductions for Patent & Trademark Registration
- Establishment of more Venture Capital firms
- More Financial Grant Schemes to support and commercialize inventions; Examples ...







# **SCIENCE FUND**

- To generate new knowledge through basic and applied sciences;
- To develop laboratory proof of concept; and
- To enhance research capability and increase number of researchers





# **TECHNOFUND**

- Stimulate the growth and successful innovation of medium and large enterprises by increasing the level of R&D to market or commercialisation.
- Increase capability and capacity of IHL and RI to commercialise the R&D findings through spin-offs / licensing.





