

# Kemampuan Iptek & Inovasi

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CTech Labs Edwar Technology

# S&T Innovation and Utilization for Economic Development

Users	Source of Knowledge	Socio-Cultural Sector	Public Sector		Business Sector		
		Socio-culture and rural development	Government Public Services	National Security/ Defence Program	Technology SMEs Business Start-Ups	Technological upgrading for SMEs	Commercial-ization by Established Industries
INDONESIA	Univs	Δ	Δ	X	X	X	X
	PRIs	O	Δ	O	X	X	X
	Business R&Ds	X	Δ	Δ	Δ	Δ	Δ
MALAYSIA	Univs	Δ	X	X	Δ	X	Δ
	PROs	Δ	O	Δ	Δ	Δ	Δ
	Business R&Ds	X	X	X	X	X	O
SINGAPORE	Univs	X	X	X	Δ	Δ	Δ
	PROs	X	X	X	Δ	Δ	Δ
	Business R&Ds	X	X	X	Δ	O	O
THAILAND	Univs	O	Δ	X	Δ	Δ	Δ
	PRIs	O	O	X	X	O	Δ
	Business R&Ds	X	X	X	X	X	O

## Notation description



Fairly good

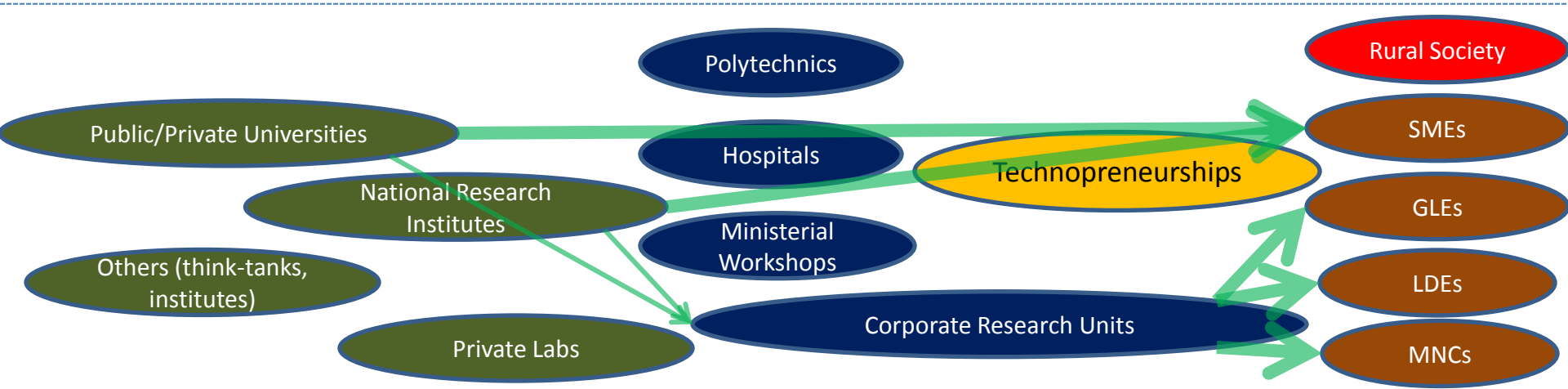
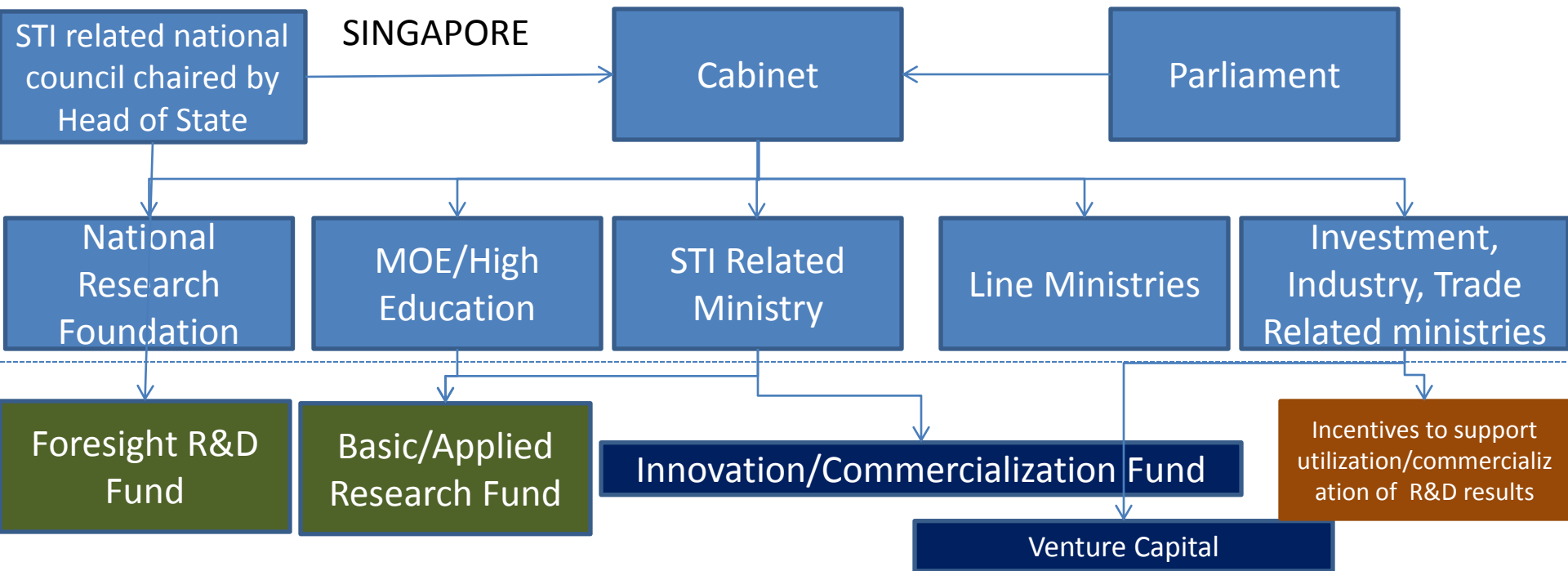


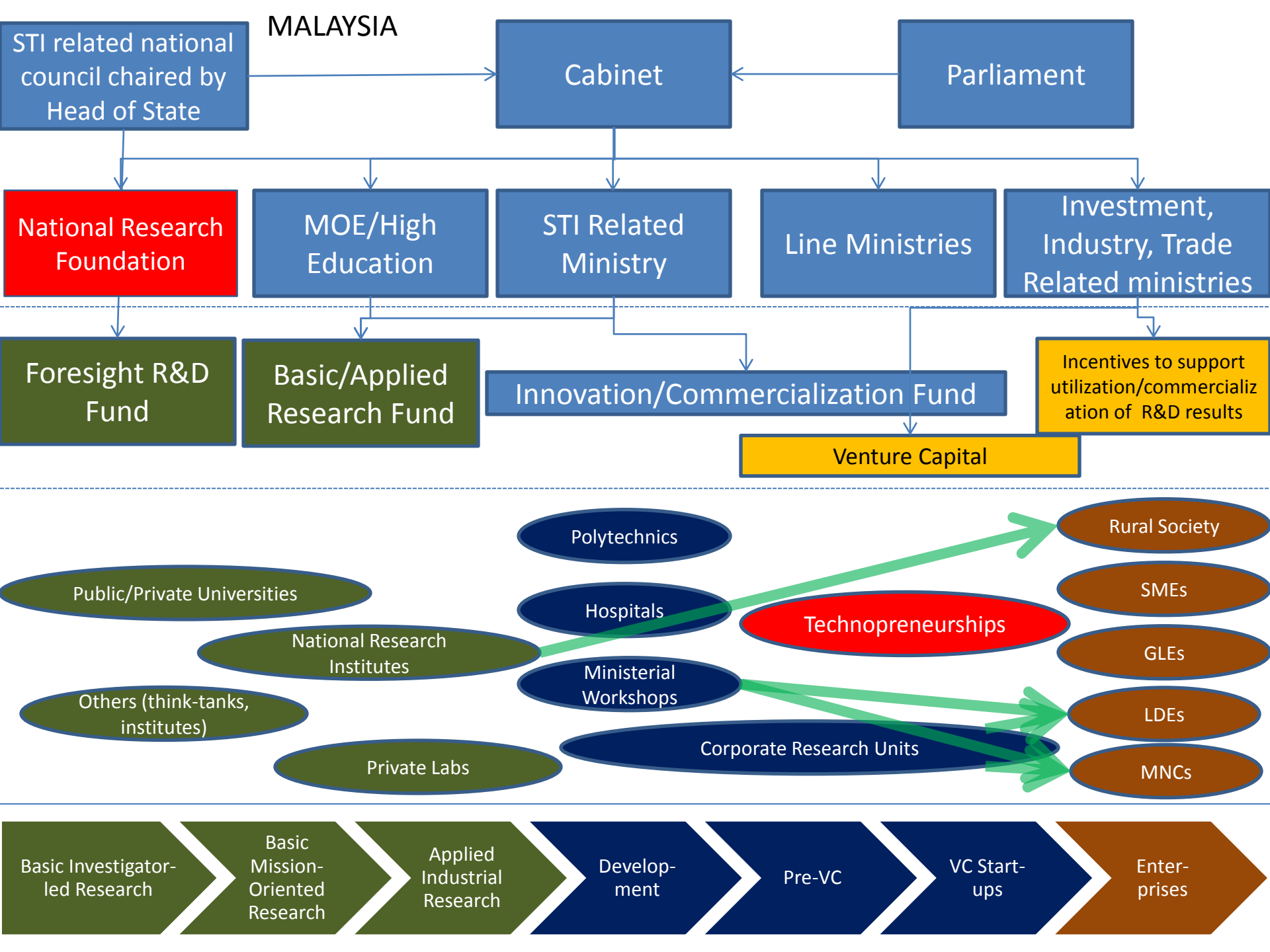
Fair



Minimal/Not identified/Non-existence

SOURCE: ASEAN SECRETARIAT





**MALAYSIA**

STI related national council chaired by Head of State

Cabinet

Parliament

National Research Foundation

MOE/High Education

STI Related Ministry

Line Ministries

Investment, Industry, Trade Related ministries

Foresight R&D Fund

Basic/Applied Research Fund

Innovation/Commercialization Fund

Venture Capital

Incentives to support utilization/commercialization of R&D results

Public/Private Universities

National Research Institutes

Others (think-tanks, institutes)

Private Labs

Polytechnics

Hospitals

Ministerial Workshops

Corporate Research Units

Technopreneurships

Rural Society

SMEs

GLEs

LDEs

MNCs

Basic Investigator-led Research

Basic Mission-Oriented Research

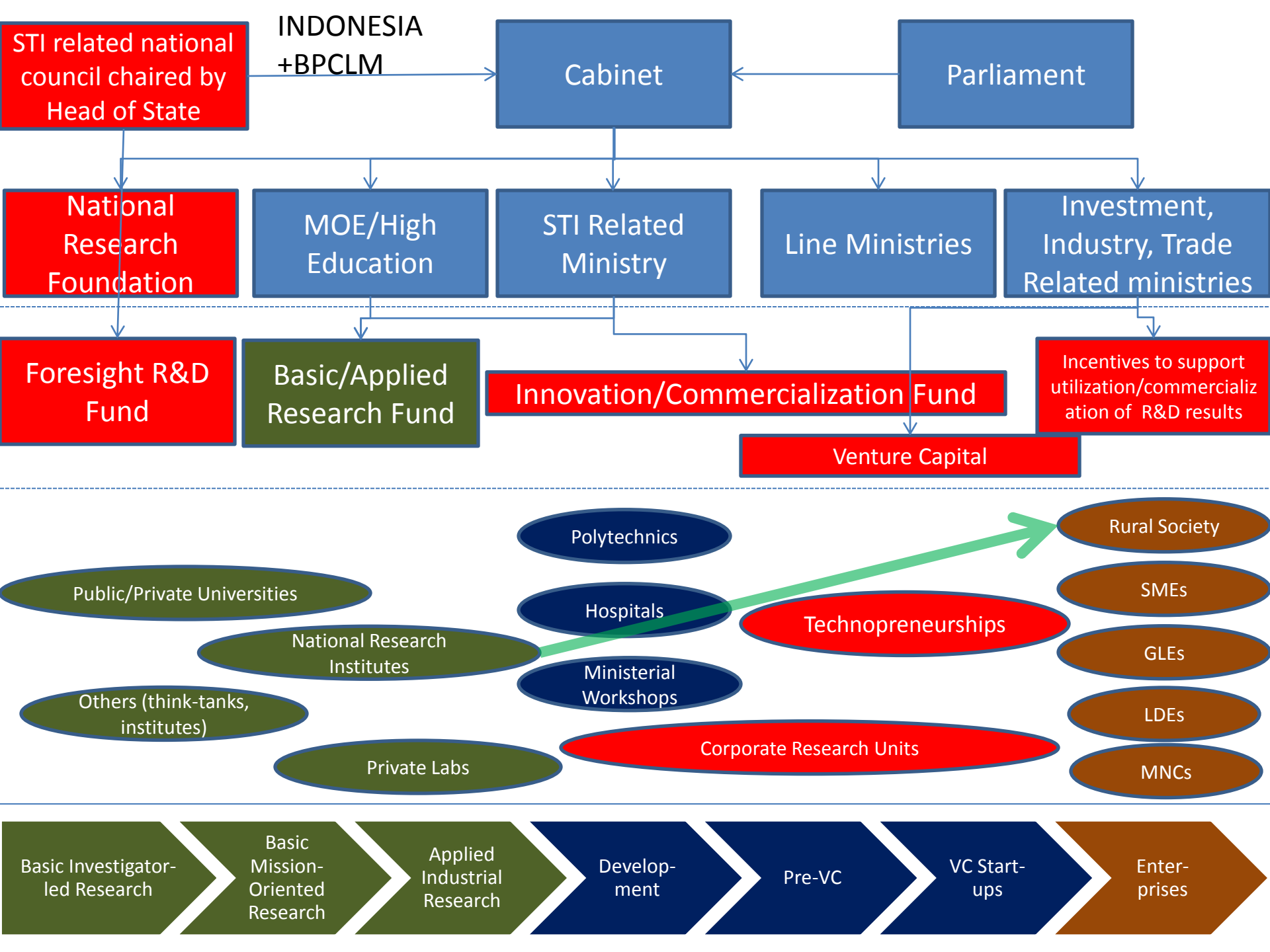
Applied Industrial Research

Development

Pre-VC

VC Start-ups

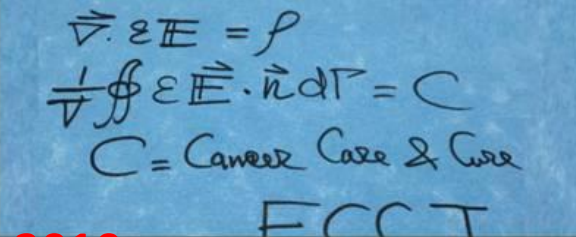
Enterprises



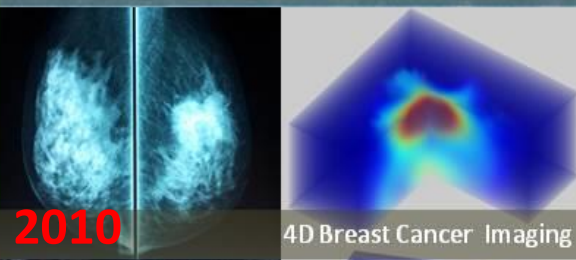
**CASE STUDY:  
CTECH LABS EDWAR  
TECHNOLOGY**



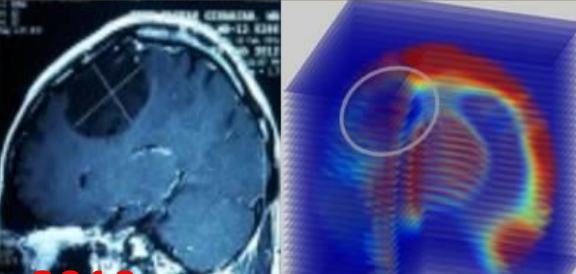
**WORLD'S FIRSTS  
INDONESIAN  
INNOVATION**



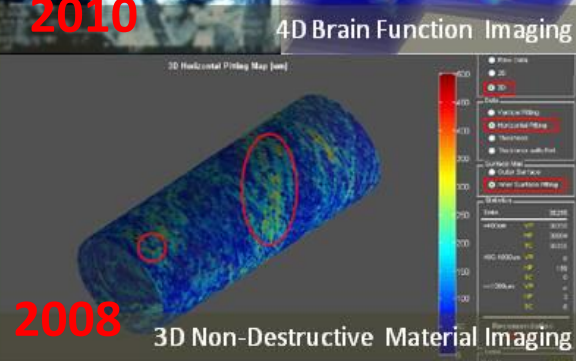
**2010** Electro-Capacitive Cancer Therapy



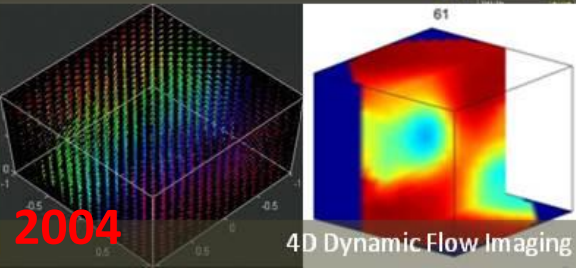
**2010** 4D Breast Cancer Imaging



**2010** 4D Brain Function Imaging



**2008** 3D Non-Destructive Material Imaging



**2004** 4D Dynamic Flow Imaging



**ECCT**  
Electro-Capacitive  
Cancer Therapy



**World's First  
INDONESIAN  
INNOVATION**

CTECH LABS EDWAR TECHNOLOGY WORLD'S FIRST

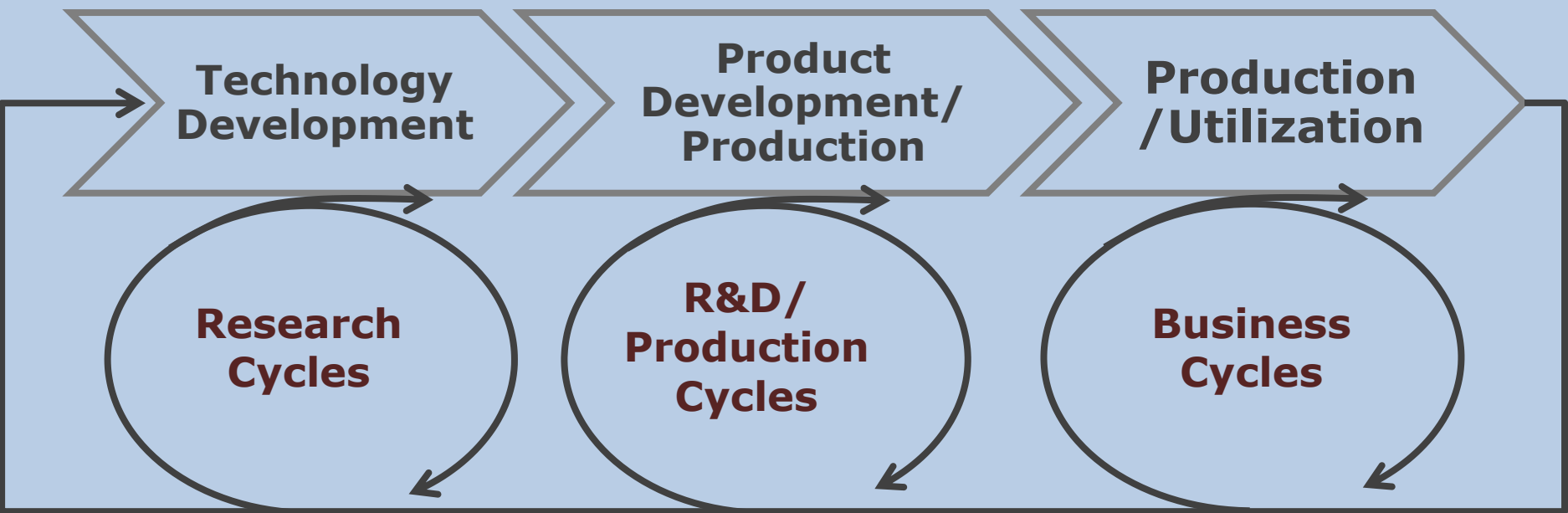
**ECVT Brain**  
4D Brain Activity Scanner



# INNOVATION DEVELOPMENT LOOP

Continuous technology upgrading through sustainable product development/value creation, production & utilization

**STRATEGY:** CREATING TECHNOLOGY—PRODUCT—VALUE CHAIN



ECVT&ECCT Case:

