

***SEALING Kick-off Meeting
January 18-19, 2010
Jakarta, Indonesia***

**Status and perspectives of the ICT sector
in Thailand**



National Electronics and Computer Technology Center (NECTEC),
National Science and Technology Development Agency (NSTDA),
Ministry of Science and Technology (MOST), Thailand.

“Status and perspectives of the ICT sector in Thailand”

- *Overview of the ICT Sector in Thailand
(in chronology)*
- *ICT policies and research priorities*
- *NECTEC 's expectation from participating in
SEALING*

National Electronics and Computer Technology Center (NECTEC)

- Established in 1986
- A statutory government organisation under NSTDA,
MOST
- Responsible for R&D on ICT

National IT Committee (NITC)

- Established in 1992
- High-level policy body to develop national ICT policies and plans and to promote ICT utilization in Thailand
 - Chairman: Deputy Prime Minister
 - Secretariat: NECTEC (March 1992 – January 2002)
Ministry of ICT (January 2002 - present)

Ministry of Information and Communication Technology (MICT)

- Established in 2002
- Responsible for the formulation of national ICT policies and plans
 - Software Industry Promotion Agency (SIPA),
 - TOT, CAT, Thailand Post, etc.

National Telecommunications Commission (NTC)

- Established in 2004
- Thailand's telecommunication regulator
 - regulate all telecommunication services
 - formulate a master plan on telecommunications activities
 - set criteria and categories of telecommunication services
 - permit and regulate the use of spectrum for telecommunication services
 - grant licenses to telecommunications operators

National Science, Technology and Innovation Agency (STI)

- Established in 2008 by the National Science, Technology and Innovation Act (2008)
- A statutory government organisation under MOST
- Responsible for the support and development of national science, technology and innovation policies, intellectual infrastructure and laws and regulations

The 2nd ICT Master Plan (2009-2013)

Vision: **Being “SMART Thailand”**

Mission:

1. Developing adequate human resources in both quality and quantity
2. Developing high speed ICT Networking
3. Developing the ICT management system with “Smart Governance”

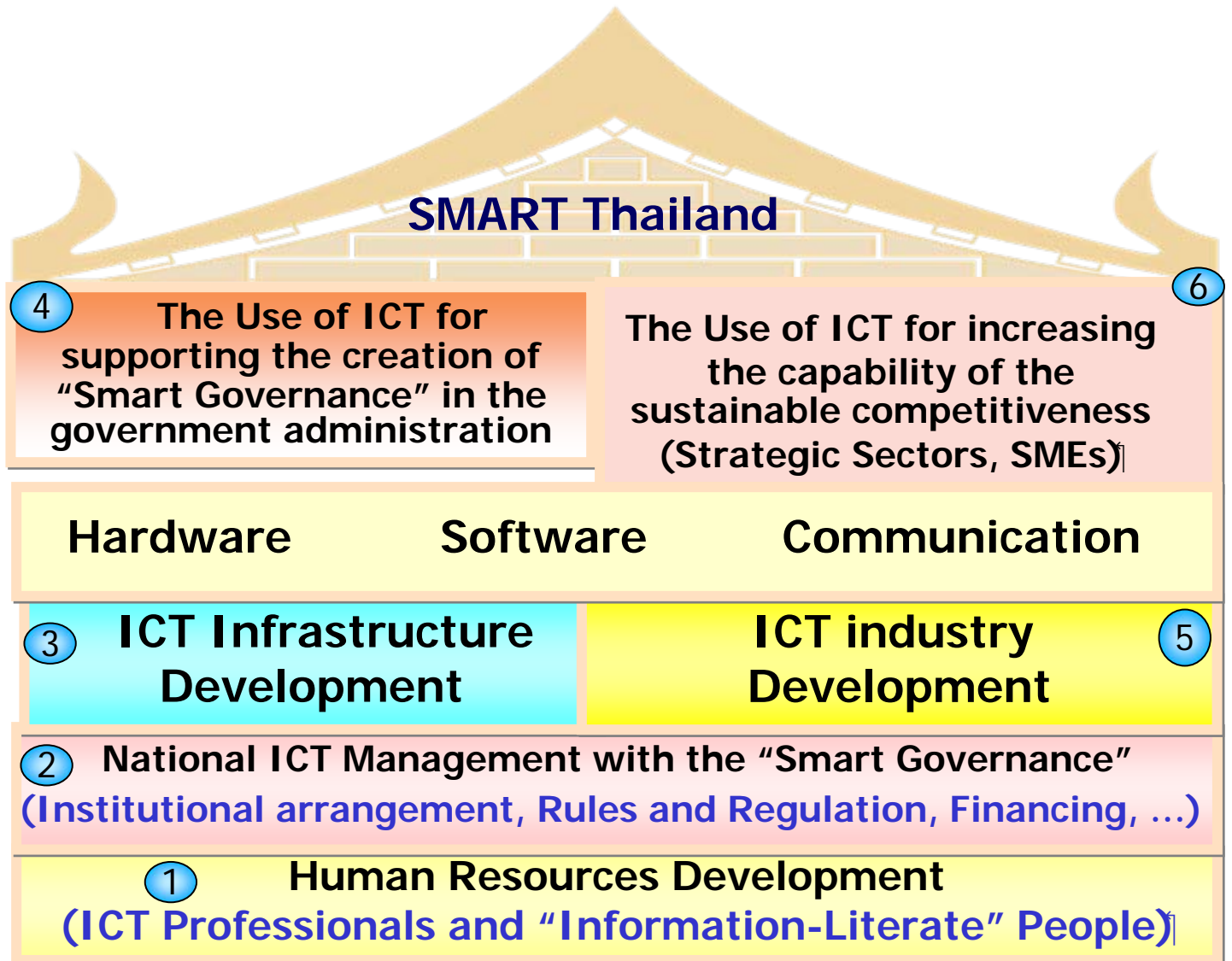
The 2nd ICT Master Plan (2009-2013)

(continued)

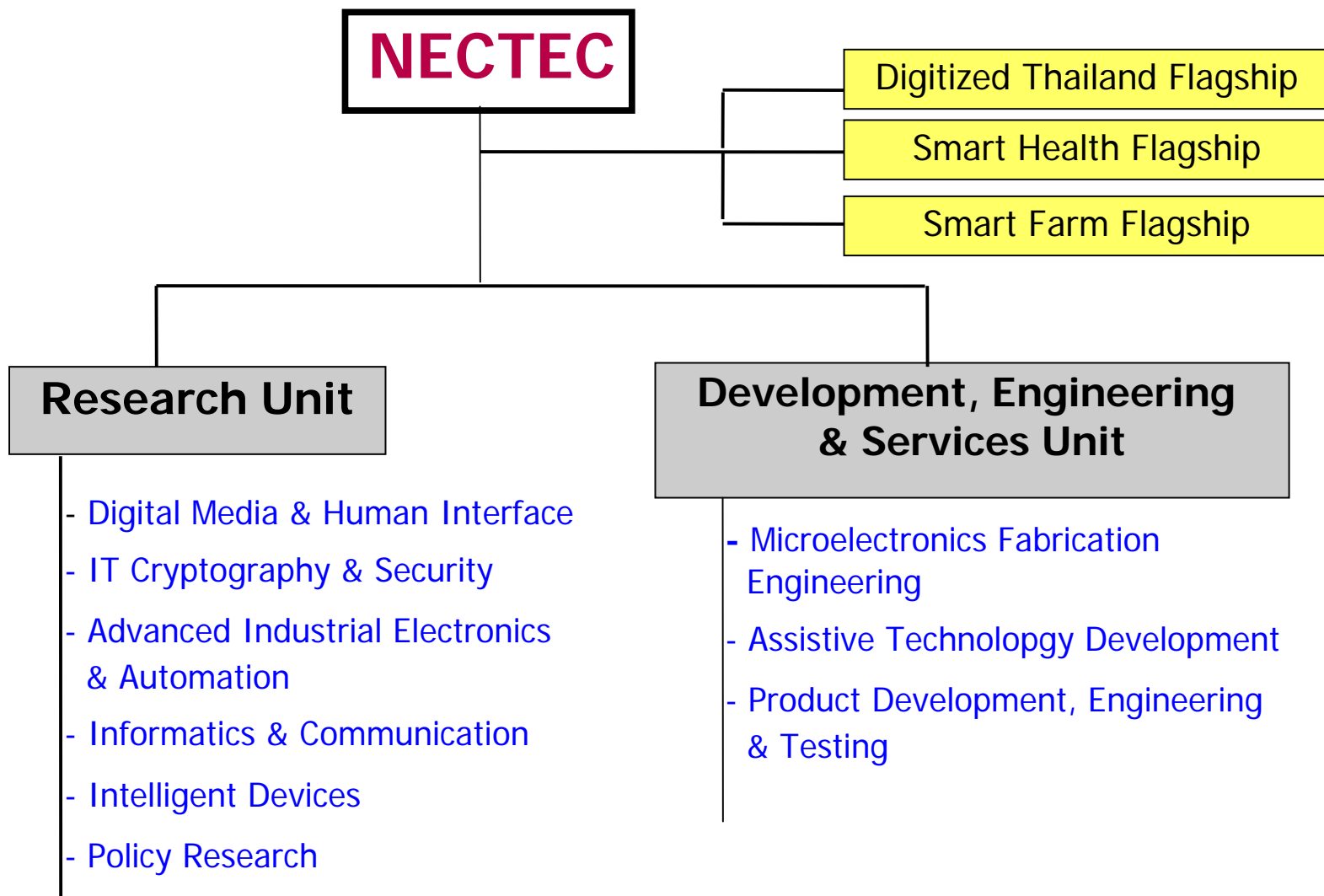
Objectives:

1. Increase of quantity and potentiality of manpower
2. Creation of good governance in the national ICT management system
3. Support of the revision of the manufacturing structure for increasing the value of products & services
4. Building the strength of communities and individual
5. Building the capacity of business and ICT industries

Thailand's ICT Development Strategies



NECTEC's R&D Chart



NECTEC's Research Priorities:

	Research Unit	Core Technology	Applications
1	Digital Media and Human Interface	<ul style="list-style-type: none"> - Digital contents development tools, Digital archive technology and tools - Adaptive e-learning and authoring technology and tools - Speech, text, image processing and searching technology and tools 	<ul style="list-style-type: none"> - Digitized Thailand (tourism, cultural heritage conservation)] - Education (e-learning)] - Intelligent medical system
2	IT Cryptography & Security	<ul style="list-style-type: none"> - Wireless security - Quantum cryptography and computing - Digital forensics technology 	<ul style="list-style-type: none"> - National security, ICT security - Cyber-crime

NECTEC's Research Priorities:

	Research Unit	Core Technology	Applications
3	Advanced Industrial Electronics & Automation	<ul style="list-style-type: none"> - Embedded system - Wireless sensor network - SCADA and control system - Robotics and automation system - Energy management 	<ul style="list-style-type: none"> - Smart Farm Flagship - Electronic appliances - Automotive electronics - Energy efficiency
4	Informatics & Communications	<ul style="list-style-type: none"> - Open sources operating system and applications - Open standard and standard meta data - Data warehouse and data mining - Simulation and modeling - IPV6, next generation Internet - Biomedical signal process 	<ul style="list-style-type: none"> - National security, ICT security - Information & mobile application - Digitized Thailand (tourism, cultural heritage conservation)

NECTEC's Research Priorities:

	Research Unit	Core Technology	Application
5	Intelligent devices	<ul style="list-style-type: none"> - Photonics - Optical signal processing - Micro and nano-electro-mechanical system - CMOS design and fabrication 	<ul style="list-style-type: none"> - Hard disk drive - Sensors (CMOS, optical, bio-)] - Smart farm flagship - Intelligent medical system
6	Policy research	<ul style="list-style-type: none"> - ICT policy research - Ethics, legal and social impacts issues in ICT 	<ul style="list-style-type: none"> - ICT policy studies - Technology trends

NECTEC's Research Priorities:

	Development, Engineering and Services Unit	Core Technology	Applications
1.	Policy Research	<ul style="list-style-type: none"> - ICT policy - Ethics, legal and social impacts issues in ICT 	<ul style="list-style-type: none"> - ICT policy studies - Technology trends
2.	Microelectronics Fabrication Engineering	<ul style="list-style-type: none"> -CMOS design and fabrication 	<ul style="list-style-type: none"> -Smart Farm Flagship - Intelligent medical system
3.	Assistive Technology Development	<ul style="list-style-type: none"> -Assistive technology for ICT accessibility - Communication tools for disable people - Technology for independent living - Rehabilitation technology 	<ul style="list-style-type: none"> - Rehabilitation - Intelligent medical system

- Strengthening cooperations in R&D on ICT
- More collaborative research and development projects
- Synergising ICT research policies between ASEAN members and EU
- Building Thailand's ICT R&D network linkage in the regional and global forums