

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

Status and perspectives of the ICT sector



DEPARTMENT OF SCIENCE AND TECHNOLOGY
**ADVANCED SCIENCE AND
TECHNOLOGY INSTITUTE**

	Philippines		Lower-middle-income group	East Asia & Pacific Region
	2000	2007	2007	2007
Economic and social context				
Population (total, million)	76	88	3,435	1,912
Urban population (% of total)	59	64	42	43
GNI per capita, World Bank Atlas method (current US\$)	1,050	1,620	1,905	2,182
GDP growth, 1995–2000 and 2000–07 (avg. annual %)	3.5	5.1	8.0	9.0
Adult literacy rate (% of ages 15 and older)	93	93	83	93
Gross primary, secondary, tertiary school enrollment (%)	79	81	68	69
Sector structure				
Separate telecommunications regulator	Yes	Yes		
Status of main fixed-line telephone operator	<i>Private</i>	<i>Private</i>		
Level of competition ^a				
International long distance service	<i>C</i>	<i>C</i>		
Mobile telephone service	<i>C</i>	<i>C</i>		
Internet service	<i>C</i>	<i>C</i>		
Sector efficiency and capacity				
Telecommunications revenue (% of GDP)	2.9	4.4	3.1	3.0
Mobile and fixed-line subscribers per employee	482	1,555	624	546
Telecommunications investment (% of revenue)	47.4	24.4	25.3	—

	Philippines		Lower-middle- income group	East Asia & Pacific Region
	2000	2007	2007	2007
Sector performance				
Access				
Telephone lines (per 100 people)	4.0	4.5	15.3	23.1
Mobile cellular subscriptions (per 100 people)	8.5	58.9	38.9	43.7
Internet subscribers (per 100 people)	0.5	2.8	6.0	9.3
Personal computers (per 100 people)	1.9	7.3	4.6	5.6
Households with a television set (%)	53	63	79	53
Usage				
International voice traffic (minutes/person/month) ^p	2.3	2.4	—	0.8
Mobile telephone usage (minutes/user/month)	—	—	322	333
Internet users (per 100 people)	2.0	6.0	12.4	14.6
Quality				
Population covered by mobile cellular network (%)	70	99	80	93
Fixed broadband subscribers (% of total Internet subscrib.)	0.0	19.8	40.4	41.8
International Internet bandwidth (bits/second/person)	2	114	199	247
Affordability				
Price basket for residential fixed line (US\$/month)	12.3	13.3	7.2	5.8
Price basket for mobile service (US\$/month)	—	5.3	9.8	5.0
Price basket for Internet service (US\$/month)	—	2.2	16.7	14.4
Price of call to United States (US\$ for 3 minutes)	2.07	1.20	2.08	1.16
Trade				
ICT goods exports (% of total goods exports)	69.4	29.1	20.6	30.9
ICT goods imports (% of total goods imports)	42.7	20.6	20.2	28.1
ICT service exports (% of total service exports)	7.6	7.0	15.6	5.2
Applications				
ICT expenditure (% of GDP)	—	5.7	6.5	7.3
E-government Web measure index ^e	—	0.51	0.33	0.18
Secure Internet servers (per 1 million people, Dec. 2008)	0.9	4.6	1.8	1.9

The Vision:

“A people-centered, inclusive and development-oriented Information Society, where everyone can create, access, utilize and share information and knowledge, enabling individuals, communities and peoples to achieve their full potential in promoting their sustainable development and improving their quality of life.”

.All citizens should have access to basic government services, information, and quality education through the use of appropriate and affordable ICT technologies. It should be the government’s primary concern to ensure that appropriate connectivity is available in every local government units and public schools

A society where citizens have access to information and communication technologies that provide quality education, efficient government service, sustainable economic development, and a better way of life.

e-Government	Information Infra-structure	Business	Human Capital
A smart ICT-competent Government providing innovative and efficient on-line services that respond to the needs of citizens and institutions worldwide	An affordable, appropriate and reliable ICT connectivity for all	An ICT-enabled business environment that empowers the economic growth of the nation	A nation competent in the use of ICT as a tool for sustainable human development

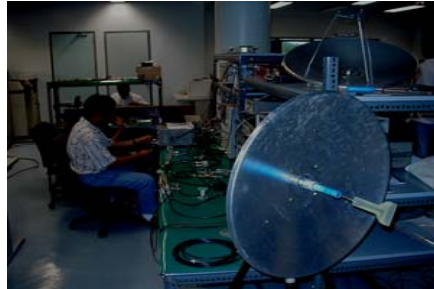
- Ensuring universal access to ICT
- Developing human capital for sustainable human development
- eGovernance: Using ICT to promote efficiency and transparency in government
- Strategic business development to enhance competitiveness in the global ICT market
- Creating the proper legal and policy environment for the Philippine ICT sector

Agency under the **Department of Science and Technology (DOST)** of the Philippine government mandated to conduct scientific research and development in *Information and Communications Technologies (ICT)* and *Microelectronics*

Mandate:

- a. Generation of new knowledge and technologies
- b. Diffusion of knowledge and technologies
- c. Development of human resources for the S&T sector
- d. Provision of quality S&T services to industry, as well as public and non-profit sector

ICT R&D



Microelectronics R&D



Technology
Transfer

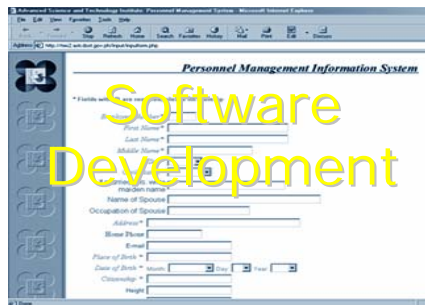
→ Government

→ Industry

→ Academe
& Other
RDIs



Information and
Communications
Technology R&D



Philippine Research, Education and Government Information Network (PREGINET)¹

Asian Internet Interconnection Initiative (AI3) Project

School over the Internet (SOI-Asia)

Asia Pacific Advanced Network (APAN)¹

Trans Eurasia Information Network 3 (TEIN3)¹

ASEAN Committee on S&T - Subcommittee on Microelectronics and IT

International Open Source Network (IOSN)¹

Pacific Rim Applications for Grid Middleware (PRAGMA)¹

EU-Asia Grid

SEACOOOP

- Education
- Environment
- Enterprise Development
- eGovernance

Note: ICT4Dev is a cross-cutting area in these sectors

- SEALING is an opportunity for ASTI to help the Philippines and ICT stakeholders:
 - Build S&T human resource capacities through knowledge sharing and technology transfer
 - Broaden network of contacts, partners, and collaborators within SEA and EU regions
 - Enhance image through high-profile partnership and projects
 - Build awareness about S&T cooperation between SEA and EU

- ASTI is specifically interested in
 - Promoting joint research and other collaborative activities between EU and SEA researchers in the areas of open source, low-cost computing, embedded systems, advanced networking, grid computing, web technologies, and knowledge management, and
 - Participating in an active EU-SEA ICT R&D network/community of practice
 - Meaningful dialogue, real results (eg, five-fold increase in FP7 participation), and sustainable outcomes