



Ministry of Post & Telecommunications

General Department of Information and Communications Technology

CICC Forum

“ICT Development in Cambodia”

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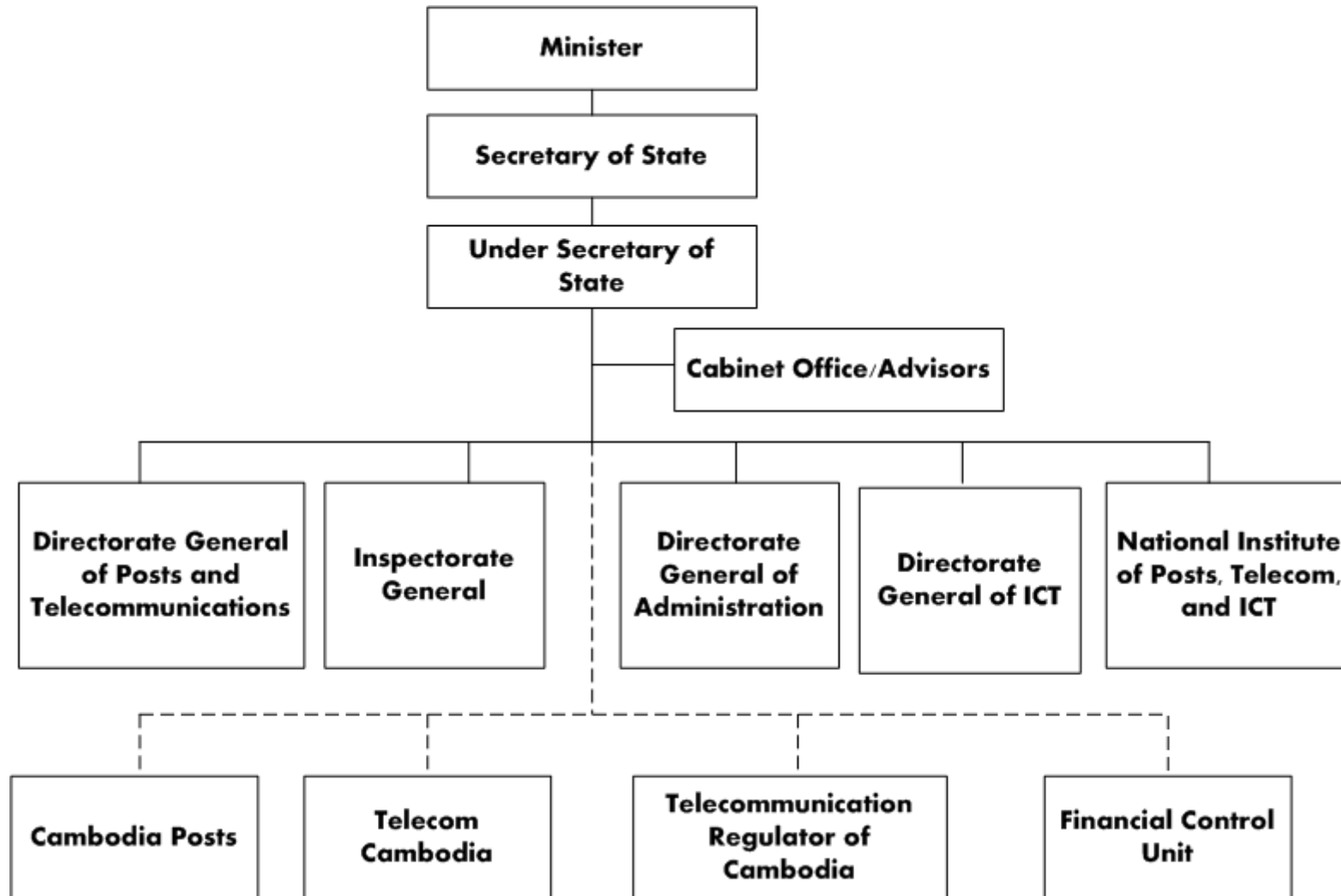
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1. Country Profile

- ” **Surface Area:** 181,035 km²
- ” **Population (2013):** 15.14 million
- ” **Work force:** 68% (below 30 years old)
- ” **Minimum wage:** relatively low
- ” **Geographical advantages:**
 - **Market:** >600 million
 - **Location:** Hub of ASEAN
 - **Disaster risk:** Not proned
- ” **Growth Rate (2014):** 7 %

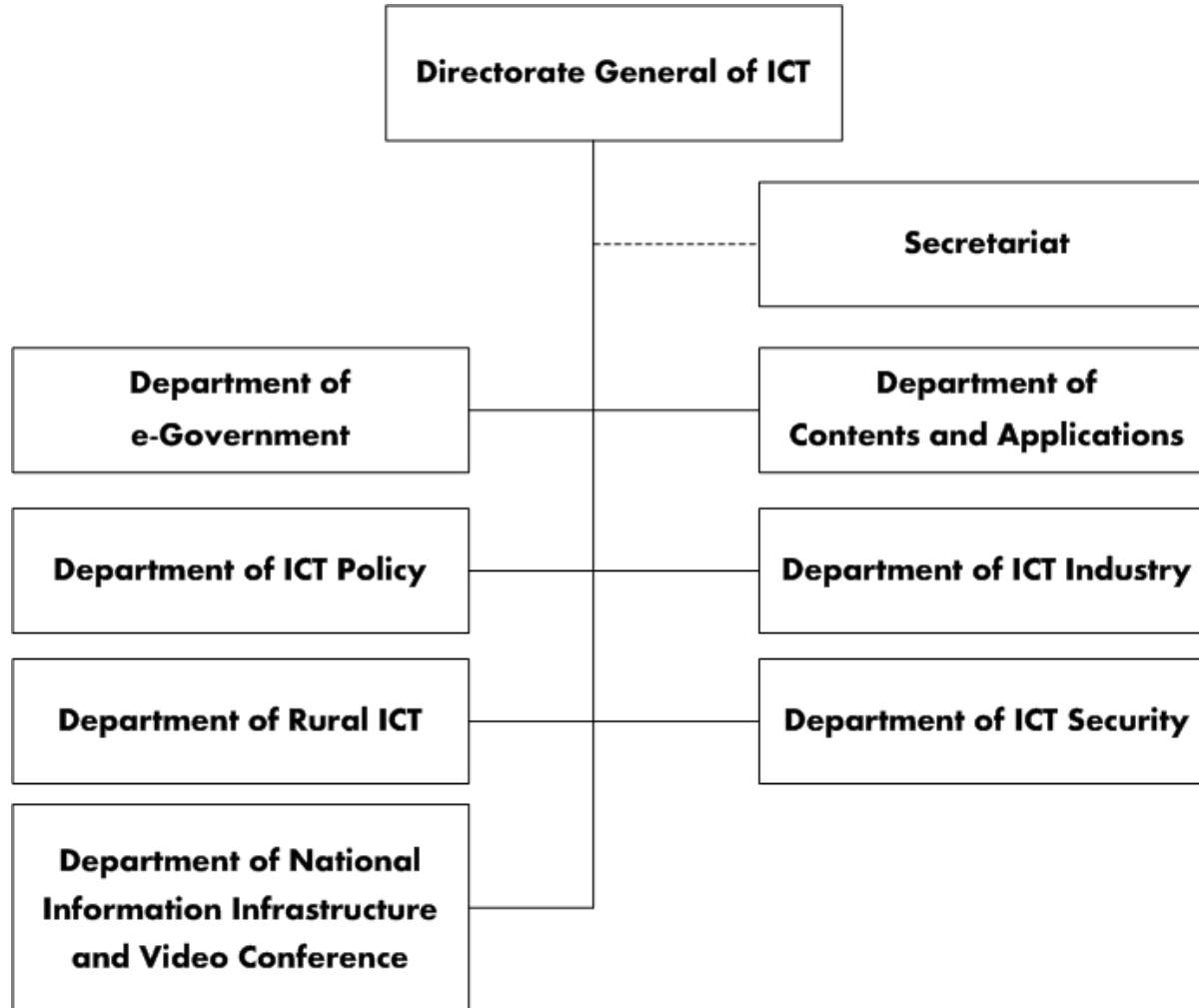
2. Organizational Structure of MPTC



3. MPTC's Structural Changes

- ❖ General Department of ICT under Ministry of Post and Telecommunications (Ex -National ICT Development Authority , NiDA)
- ❖ Telecom Cambodia (state-owned enterprise)
- ❖ Telecom Regulator of Cambodia
- ❖ National Institute of Post, Telecommunications, and ICT (NIPTICT)

4. Organizational Structure of General Department of ICT



5. ICT Status

No	Type of Licenses	Licenses in Operation
1	International Telecommunication Gateway	3
2	Mobile Phone Services (2G/3G/4G)	8
3	Fixed Phone (Wire Line & WLL)	6
4	Voice over Internet Protocol (VoIP)	22
5	Internet Service Provider (ISP)	28
6	Tower Sharing	1
7	Submarine Optical Cable Infrastructure	1
8	National Optical Cable Infrastructure	3
9	Value Added Network	1
Total:		73

5. ICT Status (cont.)

“ Subscribers:

- Mobile: **21.8M** (as of June 2015)
- Fixed: **363K** Subs.
- Internet: **5.9M** (ASEAN rank: 8th)

“ DNS: **2563**

“ Internet Cafe: **289 sites**

“ Local TV Channels: **15**

“ Local Radio Channels: **160**

5. ICT Status (cont.)

“ Total length of fiber optic backbone: **26,411km**

➤ TC (State Owned): **1,600km**

➤ CFOCN: **7,611km**

➤ Viettel Cambodia: **17,200km**

“ GDICT/MPTC (2003)

➤ GAIS : **165km (UTP Cable)**

➤ PAIS: **366km**

Fiber Optic Backbone in Cambodia



10 Gbps 2.5 Gbps

5. ICT Status (cont.)

Applications provided to line ministries, agencies:

- ” Web hosting, e-mail services (30 Gov. agencies)
- ” Vehicle, motorcycle and driving license registration (MPWT)
- ” Single Window Service System (Sea Port)
- ” e-meeting (CoM), e-schedule (MPTC, Municipality)
- ” Drag-drop system for civil servant pay-rolls
- ” HRMIS for MPTC

6. Digital Divide in Cambodia

- “ Low ICT penetration in rural area
- “ Lack of electricity
- “ Low income
- “ relatively expensive bandwidth
- “ Low digital literacy rate
- “ Lack of local contents and applications (in Khmer)
- “ Projects for facilitating the use of ICT in rural area:
 - . Tonle Sap Poverty Reduction and Small holder Development Project TSSD (2010-2018)

7. Policy Agenda

Strategic objective - Priority areas:

1. Policy formulation
2. Telecom Act , related ICT laws such as e-commerce, cyber crime.
3. Regulations enforcements
4. Oversight Mechanism (Institutional capabilities)
5. National Broadband Plan formulation
6. USO roll-out
7. ICT literacy, HRD, R&I
8. e-government
9. Private sector participation.

8. ICT Strategies

Vision:

Ensuring connectedness and efficient, state-of-the-art services provision throughout Cambodia, thus contributing to socio-economic development and poverty alleviation.

Values:

Effectiveness, Transparency and Equity.

8. ICT Strategies (cont.)

Challenges:

- “ Legal frameworks
- “ Institutional capabilities (technical, regulatory)
- “ Infrastructure
- “ e-services (education, health, banking, tourism...)
- “ ICT literacy (Trainers training, training equipments, facilities)

8. ICT Strategies (cont.)

Targets by the year 2020:

- “ Physical infrastructure development (70% internet coverage, 100% BB in urban areas)
- “ ICT & HRD (basic ICT skill 95%, ICT skill penetration 15%)
- “ ICT applications, industry (100% government agencies having websites, 65% ICT startups registered).

8. ICT Strategies (cont.)

Strategic frameworks and measures:

1. ICT development pillars:
 - . Policy, legal frameworks
 - . ICT infrastructure development
 - . Bridging digital gaps
 - . Enhancing ICT literacy, skills training (workforces)
2. Information security and industry promotion
 - . Bolstering cyber security
 - . Diversifying services, products (ecosystem)
3. Enriching e-services
 - . Developing platforms, software programs (e-government)
 - . Promoting e-commerce
 - . ICT for disaster relief, environmental protection, climate change.

9. Way Forward

- “ Formulating National T-ICT policy 2015-2020
 - “ Harmonization of 700 Mhz
 - “ Diversify ICT services
 - “ Cloud Fusion Desktop
 - “ Infrastructure Development (New data centers, OSPs)
 - “ ICT Applications & Awareness
 - “ Traffic lights and CCTV for Municipality (Phnom Penh)
 - “ Resident registration system
 - “ Training (CIOs)
 - “ Enterprise Architecture (e-government framework)
 - “ National Information Security Framework
 - “ Telecom bill in process (end 2015)
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THANK YOU