Philippines’ Satellite Market and Technology Trends, Industry Opportunities

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The DOST – ICTO

- Attached agency of the Department of Science & Technology;
- Created June 2011 integrating the Commission on ICT (CICT), National Computer Center (NCC), and the Telecommunications Office (TELOF);
- Recently re-organized with 5 Core Services and 8 Field Operations Offices (FOO);
- Philippine Focal Point for the ITU
**PRIORITY AREAS**

**E-SOCIETY**

Infusion of ICT into all areas and levels of Philippine society to derive the maximum benefits that will drive socioeconomic development

**E-GOVERNMENT**

Catalyze the optimum use of ICT in government to expand and improve government services, operations and capabilities

**E-BUSINESS**

Ensure the growth of ICT and ICT-enabled industries through public-private partnerships (PPPs) with the industry, academe and civil society, and through close collaboration with partners in government.

**CYBER SECURITY**

Ensure the security of Philippine cyberspace, particularly that of government ICT resources through collaboration with public, private and international partner.
55.42% cities and municipalities have broadband access (fixed or wireless) which is more often than not limited to the immediate vicinity of a municipality’s center.

37% Internet User (over 39 M)

22.9% Household Internet

18.7% Households with computer

Mobile Connectivity (2014):
- 109 million mobile phone subscriptions
- 87.2% household mobile phone penetration
- 70.3% of total telecom revenues

<table>
<thead>
<tr>
<th>No. of Schools</th>
<th>Primary</th>
<th>Secondary</th>
<th>Total</th>
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<tbody>
<tr>
<td></td>
<td>38,683</td>
<td>7,915</td>
<td>46,598</td>
</tr>
<tr>
<td>No. of Schools w/ Internet Connection</td>
<td>5,503</td>
<td>4,360</td>
<td>8,939</td>
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<tr>
<td></td>
<td>(14.23%)</td>
<td>(55.09%)</td>
<td>(19.18%)</td>
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Source: DepEd

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<tr>
<th>TV Households (HH)</th>
<th>Total PHL</th>
<th>% of Total TV HH</th>
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<tr>
<td>TV HH with Cable TV</td>
<td>3.11M</td>
<td>18%</td>
</tr>
<tr>
<td>TV HH without CATV</td>
<td>14.19M</td>
<td>82%</td>
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Sources: National Media Landscape Study 2010, ABC5, ABS-CBN and GMA7 2011 Data
Private sector naturally declines investing as it does not see an acceptable ROI.

Benefits of broadband enabled services are inaccessible to the rural folk.

Inflation caused by economic growth in urban areas causes broadband costs to increase.

Inclusive growth is impeded and the "Digital Divide" widens.

Rural families cannot afford a broadband connection.
We See: Service Solution / Satellite Applications

**Satellite Broadband (backhaul) particularly in the countryside:**
- School Connectivity (distance learning, cloud top, etc....)
- Rural Health Units (Tele-medicine, eHealth, etc....)
- Local Government Units (governance, eGovernment, etc....)
- Community eCenters (CeCs)
- Sensors, M2M
- Public WiFi

**Disaster Response/Resilience:**
- Government Emergency Communications System
- ICT for Disaster Risk Reduction and Management

**Satellite Television:**
- Direct-To-Home Broadcasting

**Research and Development:**
- E.g. land-use (forest, agriculture/crop), aquatic resource assessment and monitoring, among others
Proven Solution during Disaster Response

After Typhoon Haiyan (all major communications were down)

- Deployed satellite communications (hybrid with TVWS technologies as last mile)

Solar-powered VSAT and where the TVWS base station was located

Remote sites extending connectivity to evacuation areas, schools via TVWS technologies
Philippines’ Satellite Coordination Process

Department Circular 97-01
Guidelines on the Procurement of Orbital Slots and Frequency Registration of Philippine Satellite(s)

- Administration regarding Space Segment Coordination
- Administration regarding Earth Station regulation

Implementing Guidelines on International Satellite Communications

Implementing Guidelines on the Domestic Satellite Communications Policy
RECENT & CURRENT ACTIVITIES

ITU RRS-15-ASIA-PACIFIC


Our intention to launch PHL-owned Satellites

- Study to create dedicated government agency for space/satellite technologies
- On-going feasibility studies in collaborations with different satellite operators/providers
- Continuing capability building on satellite system in close collaboration with the ITU
FIRST PHL-MICROSAT (ON GOING PROCESS)

Proponent

- Government: Department of Science and Technology – Advance Science Technology Institute

Applications

- Resource assessment, forestry, carbon management, agriculture, fisheries and aquaculture, disaster risk management, resource planning, climatology, air pollution, geography and landslide monitoring, maritime safety

Target Launching

- First Quarter 2016
Thank you...