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Internet Policy in South East Asia

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The views expressed are those of the author and may not reflect the opinions of the ITU or its members



Topics

- Who is in charge?
- What can an ISP do?
- What about content?
- How much does it cost?
- To VoIP or not to VoIP
- Dot names
- Access for the masses
- Quality of service
- What is the market?
- Promoting the Internet



ITU Internet Studies

- Reasons
 - Improve market information
 - Examine factors influencing Internet diffusion
 - Compare & contrast
 - Recommendations
- Launched 2000
- Other case studies

www.itu.int/t'/casestudies





Internet Case Study Contents

- Country overview
- Telecom & Media sector
- Internet market
- Use in government, health, education and business
- Comparative framework
- Recommendations

2001 South East Asia Studies

LAUS

- Countries studied
 - Malaysia
 - Indonesia
 - Vietnam
 - Cambodia
 - Thailand
 - Philippines
 - Laos
- Collaboration with e-ASEAN
- Workshop in Bangkok, 21-23 November



Myth and Reality

Internet market is unregulated

Every country regulates market in one way or another

Competition is good

No market is completely competitive & incumbent operators may be able to provide Internet access more cheaply

Leave Internet to private sector

Fine if you only want the elite to use it



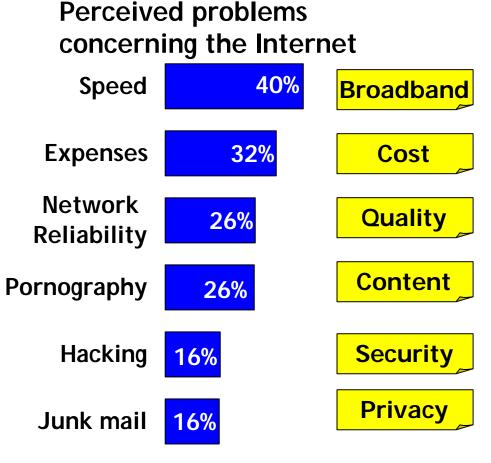
Who should [Why] be responsible for Internet regulation?

• Who:

- Has generally fallen to telecom regulator to issue ISP licenses and resolve disputes
- Broadcasting & other ministries are also sometimes involved in issues such as content, security & digital laws

• Why:

- Public interest
- ICT access (Digital Divide)



Source: NECTEC, Internet User Profile of Thailand 2000



Internet Service Provider (ISP) market

- Entry? In Cambodia, Laos and Vietnam, no new ISPs were licensed for several years. In Thailand, market entry has been frozen. In other countries, difference between licensed and operational ISPs.
- License fees? In Cambodia, share revenue with government. In Thailand, share income with international operator. In most other countries, pay license fee to regulator.
- Infrastructure? In Singapore, different class of license. In Philippines, must go through licensed telecom operators. In other countries, ISPs often constrained.



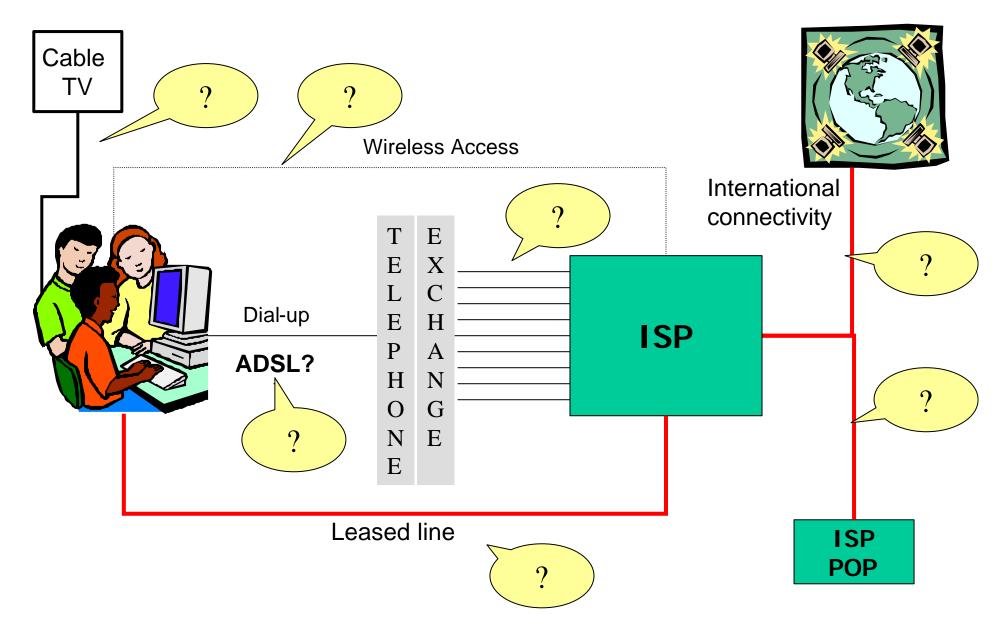
Who are the ISPs?

Country	How many *	Registry	ISP association
Thailand	18/18	www.thnic.net	ISP Club
Indonesia	150/60	www.iix.net.id/iix.html	APJII
Singapore	44/?	www.ida.gov.sg/license/Licensees.nsf/S BO-IND-PIAS?OpenView	No
Philippines	150/50	http://www.piso.org.ph/membersframe .htm	PISO
Malaysia	18/7	http://www.cmc.gov.my/licensing- new/class license/class asp2.htm	No
Vietnam	5/4	VDC, FPT, SPT, NetNam	No
Cambodia	3/3	Camnet, BigPond, Mobitel	No
Laos	2	LaoTel, GlobeNet	No

^{*} Licensed / In operation.



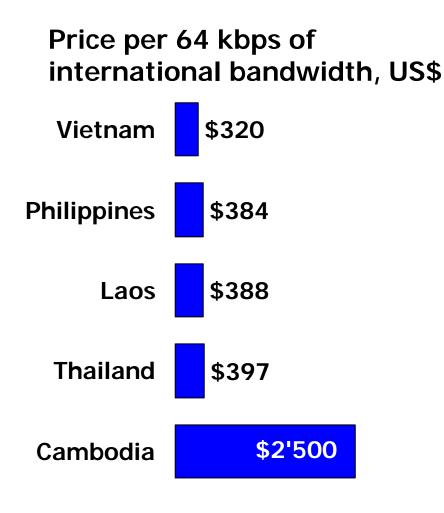
What can an ISP do?





International gateway

- Should ISPs operate own international gateway?
 - Pros:
 - Heart of their business
 - Redundancy
 - Quality of service
 - Cons:
 - Content
 - Incentive to exchange traffic
 - Higher costs
- Price of international Internet connectivity

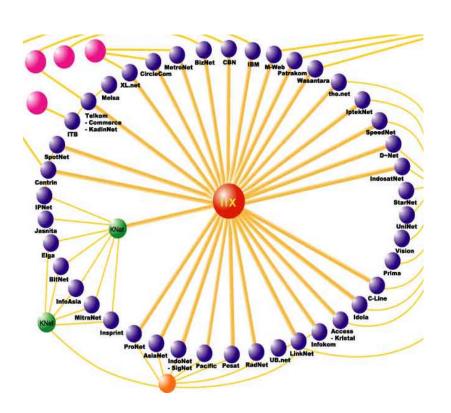


Source: ITU Case Studies



Internet traffic exchange

- Keep local Internet traffic within country to reduce international bandwidth costs
- Public vs. Private peering
- Support local content and national "Intranet"





Content

- No content control: Cambodia, Indonesia, Malaysia, Philippines, Thailand,
- Content control: Singapore (firewall to pornographic sites, registration of content providers), Vietnam (firewall, registration of content providers), Laos



Pricing

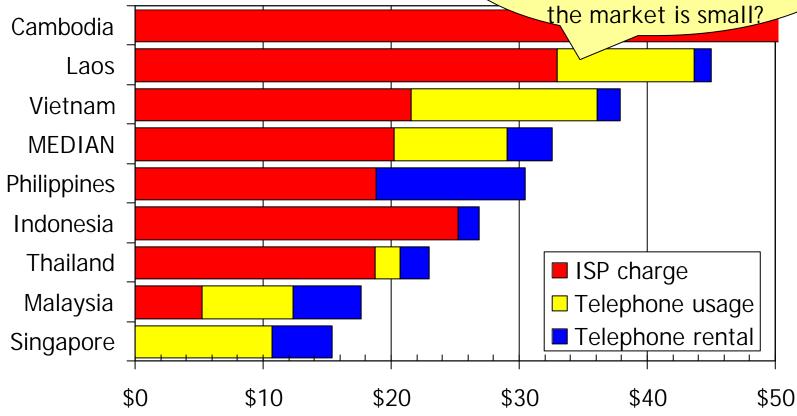
- Nationwide at local call
- Internet on demand
- Prepaid cards
- Telephone charges
 - Usage: Cambodia, Laos,
 Singapore, Vietnam
 - Lower rate: Indonesia, Malaysia
 - Flat rate: Thailand
 - No charge: Philippines







Million \$ question:
Is the market small
because prices are high or
are prices high because
the market is small?



30 hours of Internet access, US\$, October 2001

Source: ITU adapted from ISPs / PTOs.



Internet telephony

- Policies on Voice over Internet Protocol (VoIP) vary across region
 - Malaysia & Singapore provide for VoIP licenses
 - Vietnam long distance trial
 - In Thailand, telecom operators provide
 - In Cambodia and Laos, technically illegal but widely available in urban areas



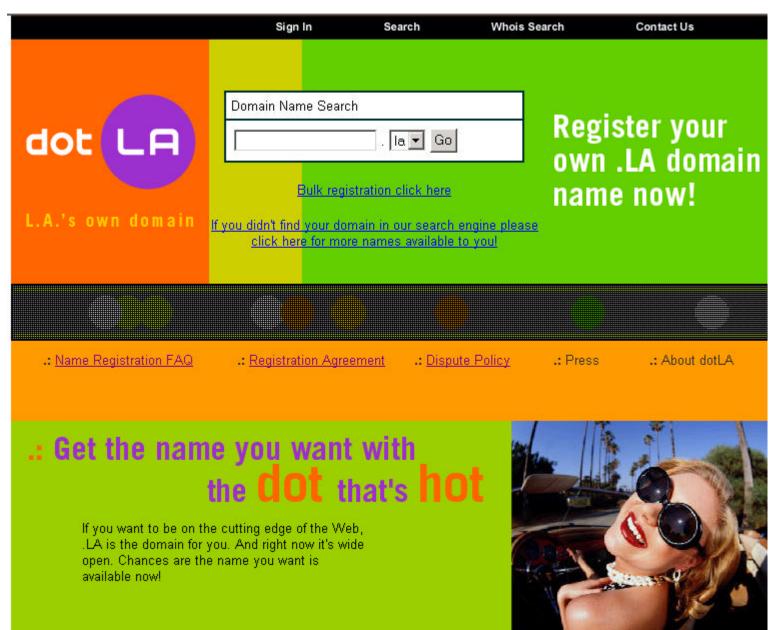


Quality of Service (QOS)

- Only Singapore publishes clear QOS results
- Philippines ask for QOS but does not enforce
- Thailand has informal user surveys



Domain name





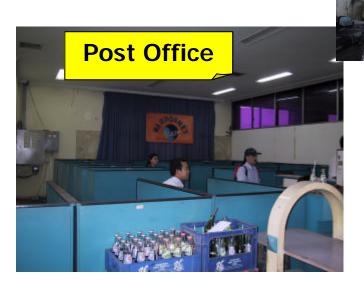
Universal access

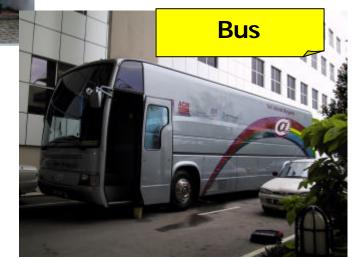
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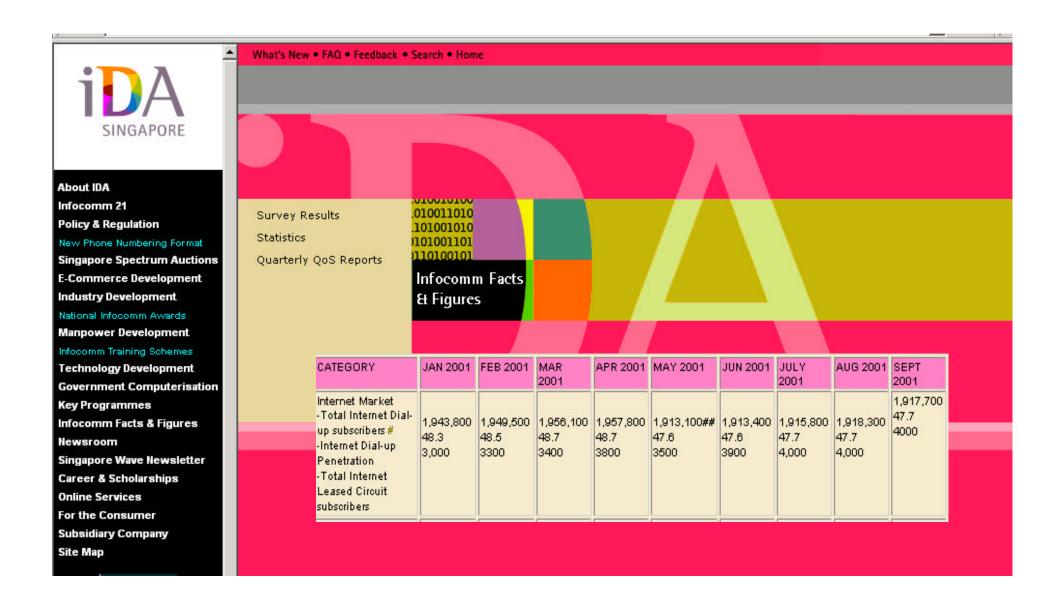








Market information

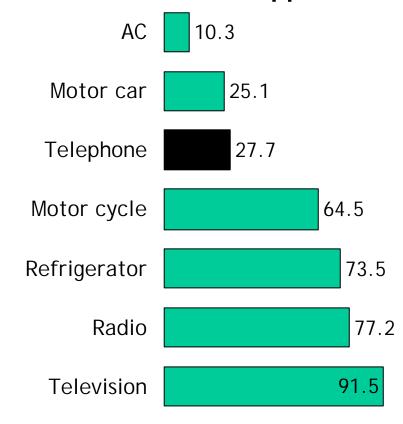


Are the following items available for use by members of this Household:

- ☐ Radio / Hi-fi
- □ Television
- ☐ Video / VCD / DVD
- ☐ Fixed Telephone Line
- Mobile phone
- ☐ Personal Computer (PC)
- Internet Subscription

Source: Question B7.
Population and Housing
Census Malaysia 2000

% of households with appliance



Source: Thailand 2000 Census

www.nso.go.th/pop2000/pop2000.htm



Promotion

- Awareness
- Broadband
- Content development
- Industry collaboration



Conclusions

- Internet requires some degree of regulation & policy to function efficiently
- Telecom regulators are best placed to monitor market
- Consumer concerns need to be acted on
- Internet requires promotion in developing nations

