

Telecom meets the Internet

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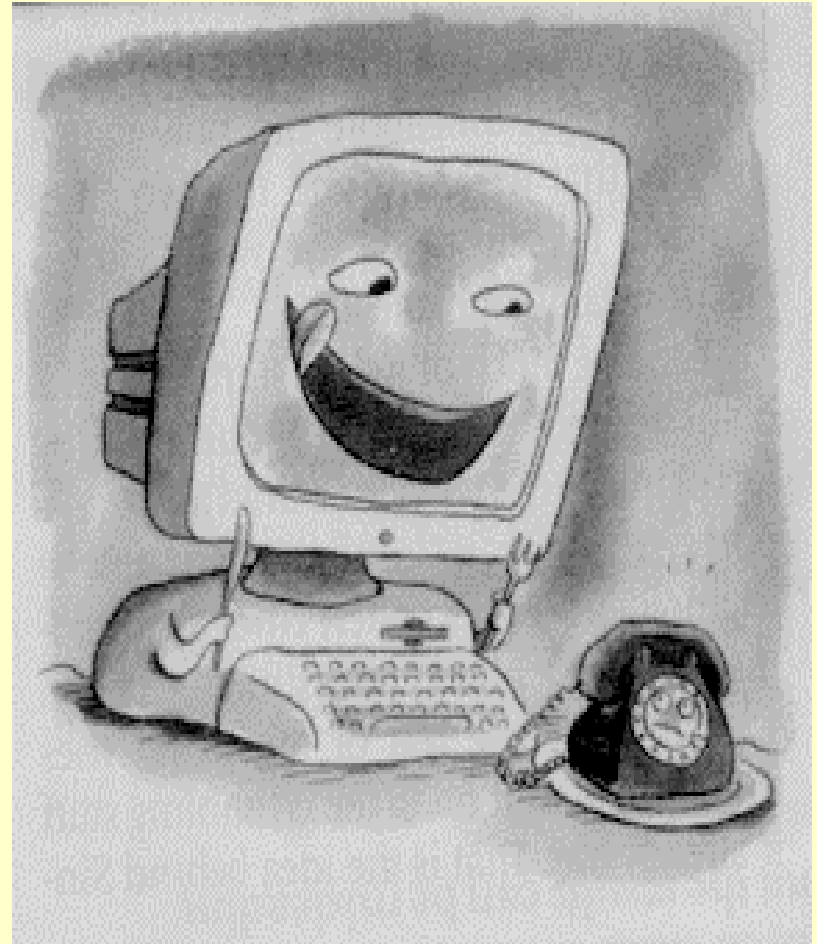
Note: the views expressed in this presentation are those of the author and do not necessarily reflect the opinions of the ITU or its membership. The author can be contacted at minges@itu.int.

Threat or opportunity?



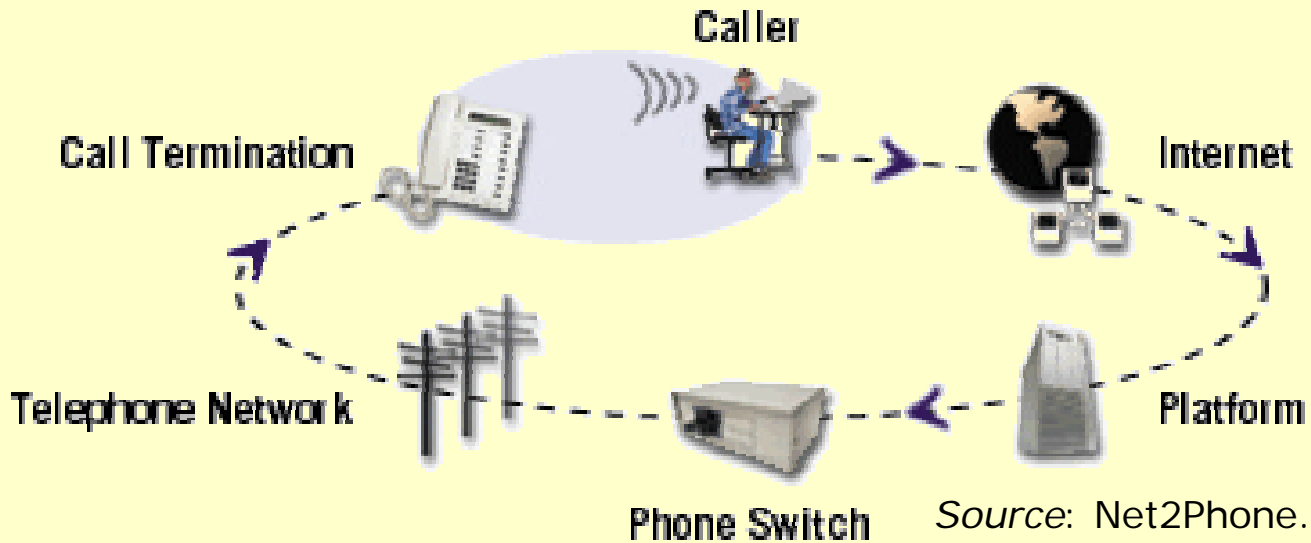
CABLE & WIRELESS

- Takes Jamaican ISPs with VSATs to court considering it a breach of its exclusive international license.
- Plans to move all its customers and services onto the new IP network. *"I think within four years all our customers' voice traffic will be carried over IP."*



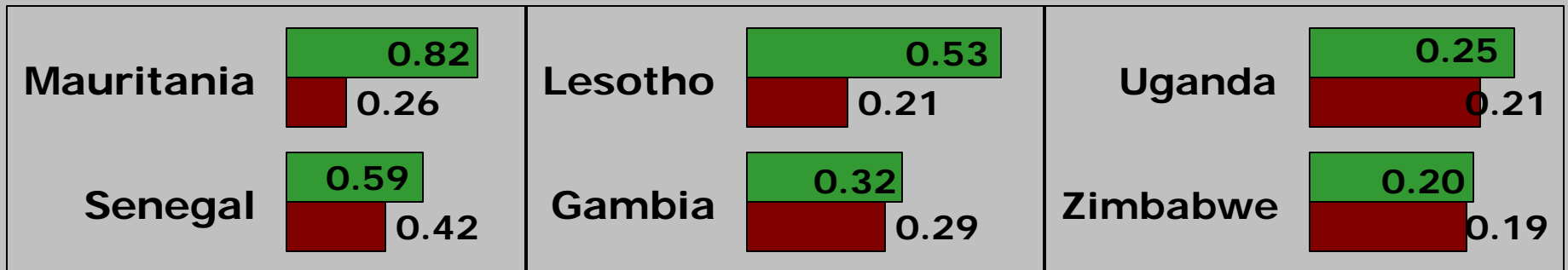
Source: The Economist, May 2nd 1998

The main "threat"



Incoming international traffic

Price per minute (US\$)

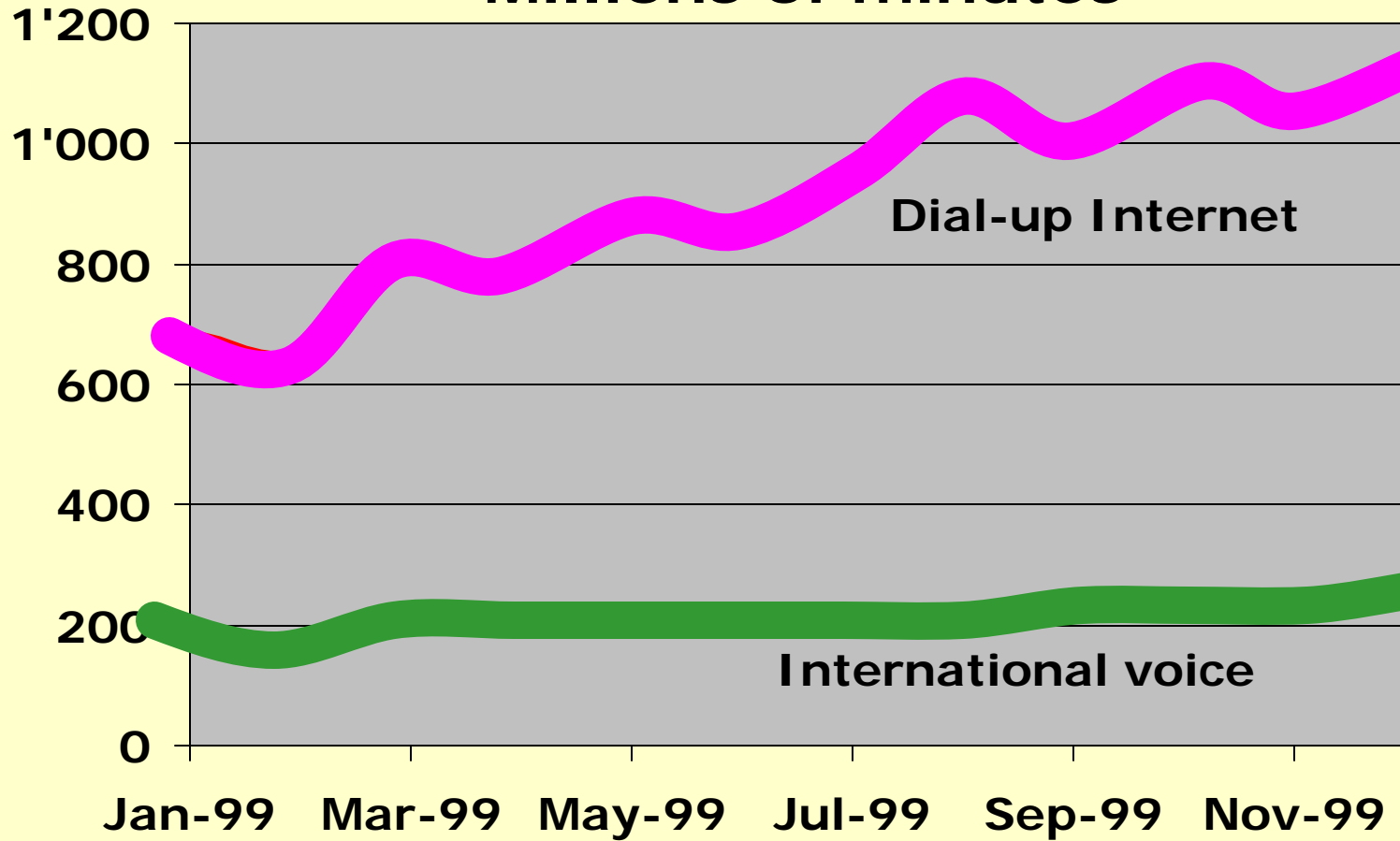


■ Settlement rate ■ Traffic exchange

Source: FCC, Arbinet.

The demise of international

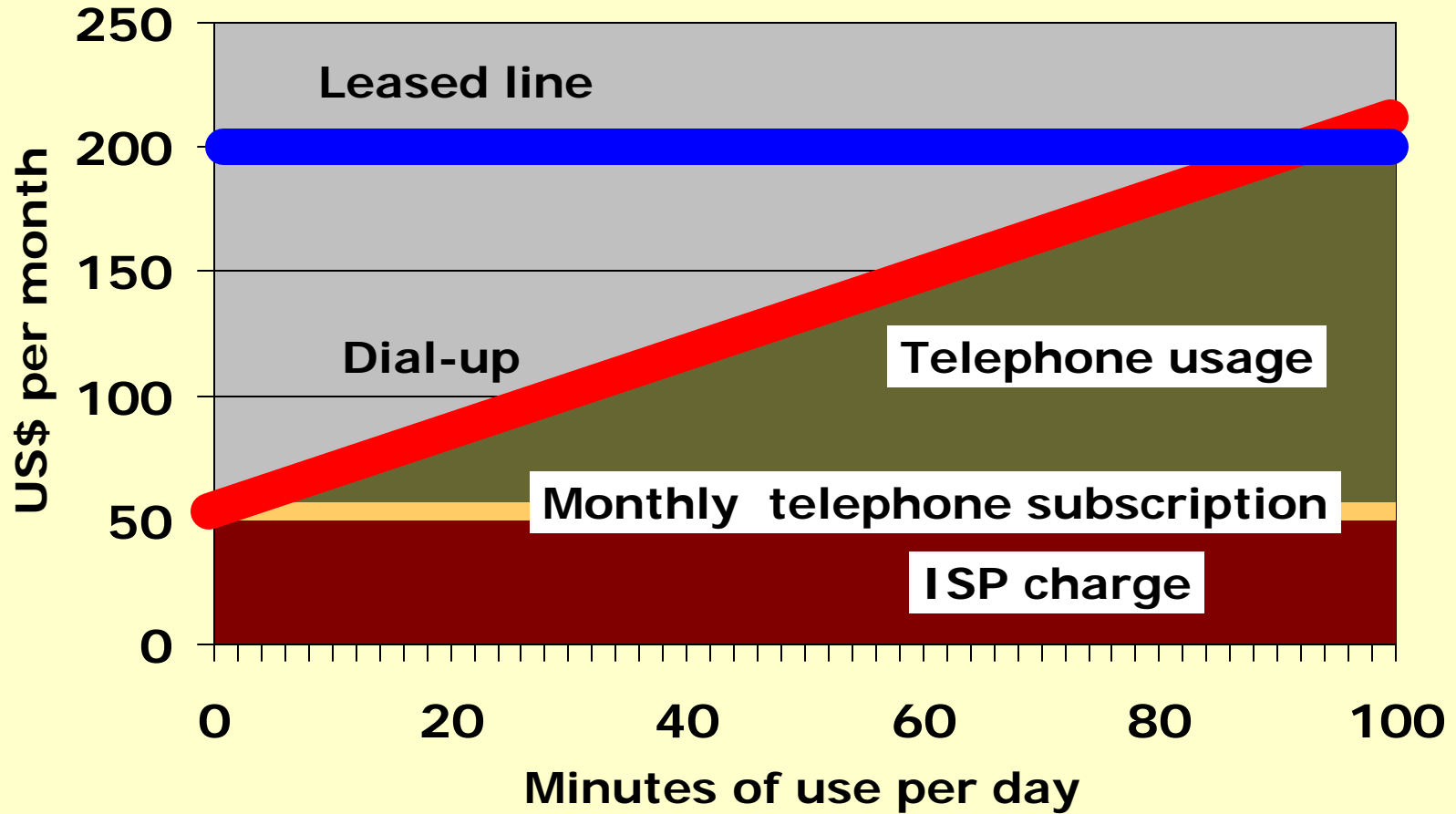
Telephone traffic in Hongkong Millions of minutes



Source: Office of Telecommunications, Hongkong.

Another "threat"

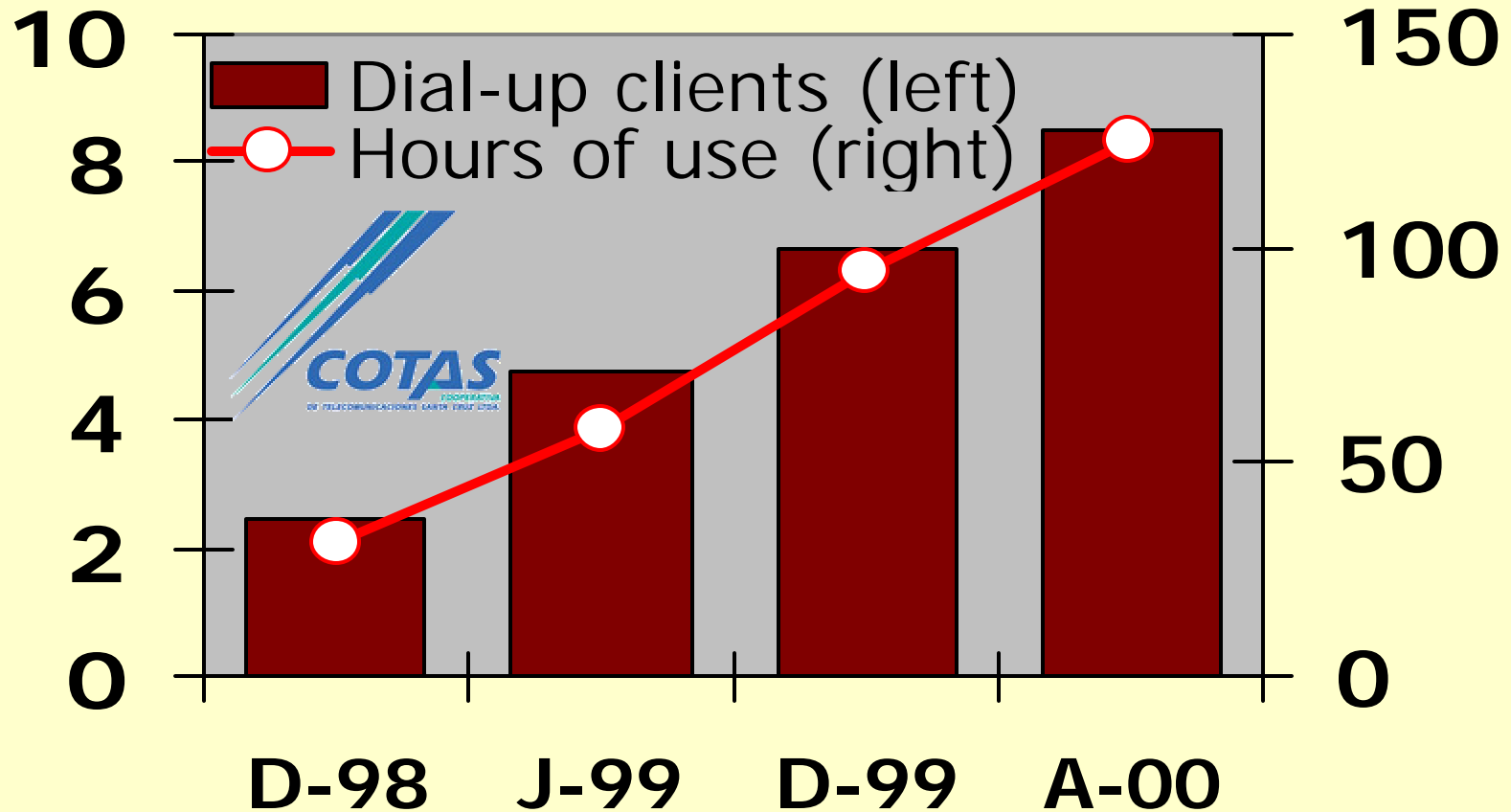
Dial-up versus leased line cost for Internet access



Note: Dial-up includes monthly subscription & telephone usage.
Source: ITU.

PTO as ISP

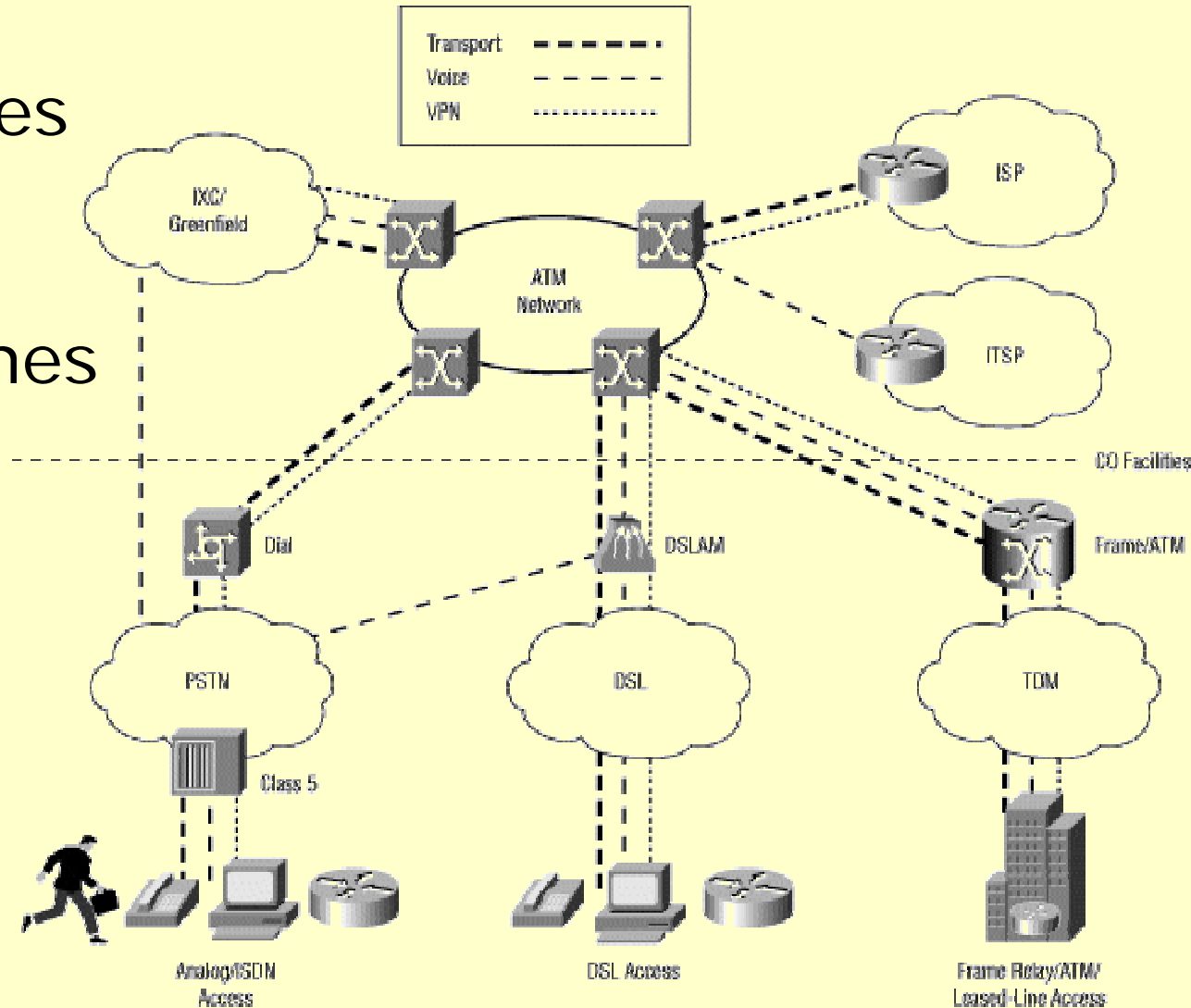
Bolivan local telephone operator



Source: COTAS.

Infrastructure for the Net

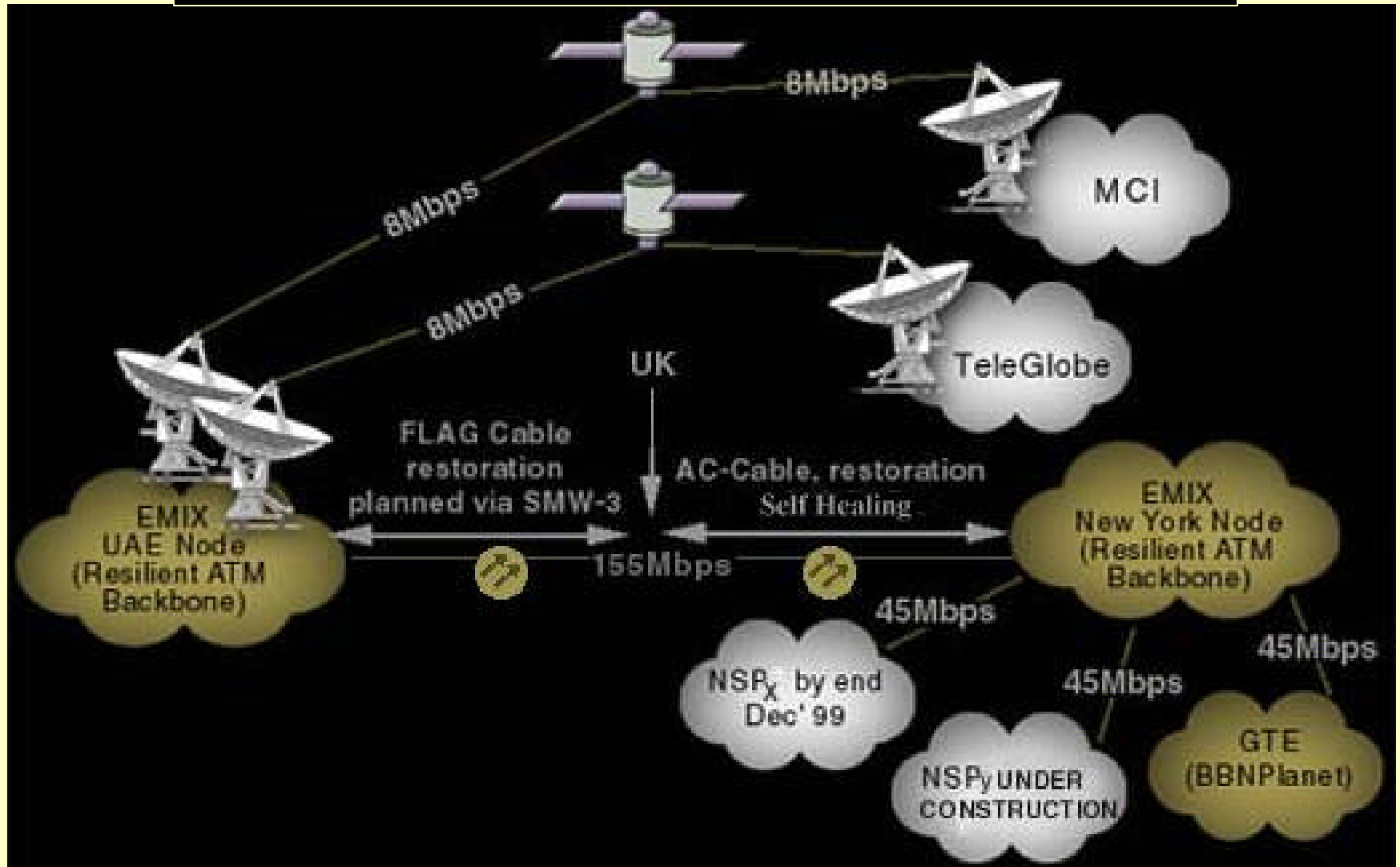
- Telephone lines
 - Customers
 - ISPs
- High speed lines
 - ISDN
 - Cable
 - DSL
- Leased lines
 - National
 - International



Source: CISCO.

Peering & transit services

Emirates Internet Exchange (EMIX)

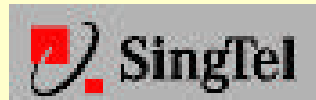


E-business opportunities

- Web hosting
- Portals
- Advertising
- Consulting

The screenshot shows the homepage of Terra.es, a Spanish web portal. The top navigation bar includes the Terra logo, a search bar, and various utility links like 'Avanzado', 'Añadir tu web', and 'Ayuda'. The date 'Martes, 23 de mayo de 2000' is displayed in the top right. The left sidebar contains a vertical menu with categories such as 'COMUNIDADES', 'CANALES', and 'ESPECIALES'. The main content area is divided into several sections: 'Hoy en Terra' with news snippets, 'Terra Compras' with product listings, 'Especiales' with featured content, and 'Terra Recomienda' with recommendations. The right sidebar includes 'ACCESO INTERNET' options, a 'PUBLICIDAD' section, and 'TU OPINIÓN' polls.

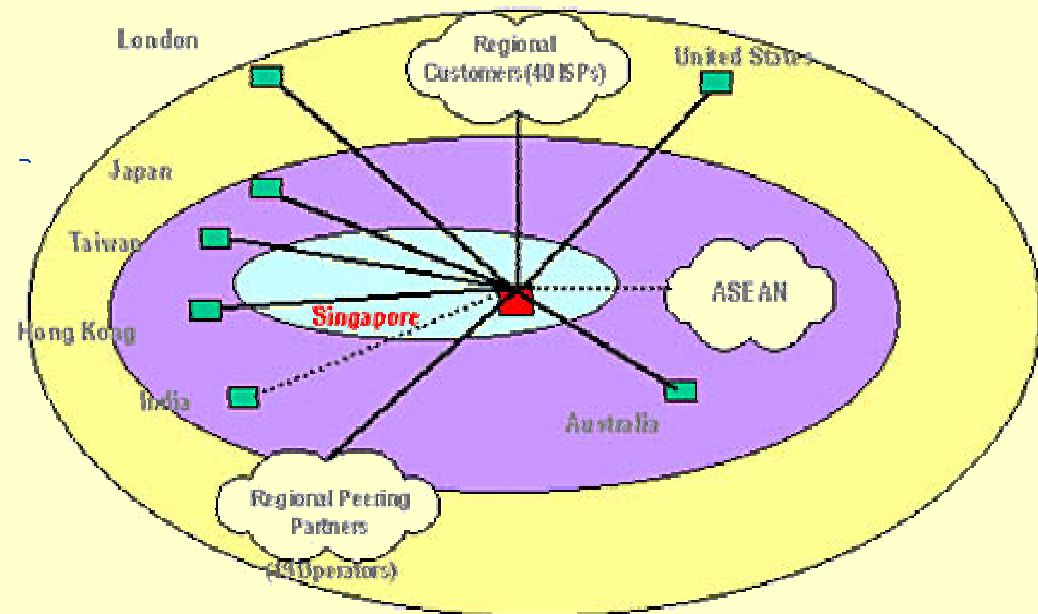
From PTO to ICP



Internet initiatives

- Access
 - [SingNet](#)
 - [SingTel Magix](#)
 - [mysingtel](#)
 - [e-ideas](#)
- Infrastructure
 - [NCS Media Hub](#)
 - [Consumer Connect](#)
 - [SingTel IX](#)
 - ID.Safe
- Content
 - [Lycos Asia](#)
 - [SESAMi.com](#)

Major IP Hub in Asia Pacific



Partners



ISP

International connectivity

E-commerce

IP network / telephony



Be the leader!

- Web site
- ISP
- Peering
- Tariffing