



# Coexistence of traditional and IP interconnection: *implications for traditional interconnection regulatory frameworks*



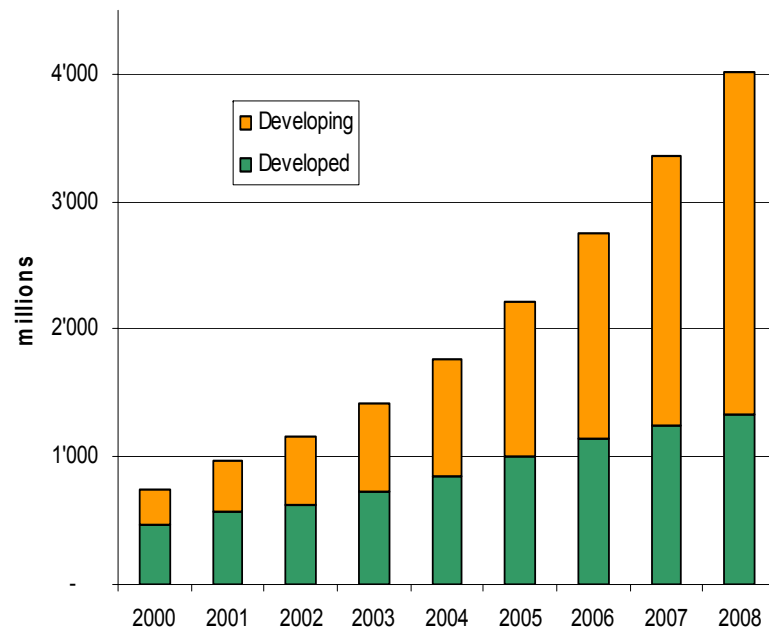
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# Is it the right time for discussion for the developing countries?

## Expansion of Mobile networks

Mobile cellular subscriptions, 2000-2008



Source: ITU

### ➤ Mobile markets are growing:

- in Vietnam number of mobile subscribers in 2Q 2009 grew **86 proc.** comparing to 2Q 2008;
- in Indonesia – **46 proc.**;
- in India – **52 proc.**

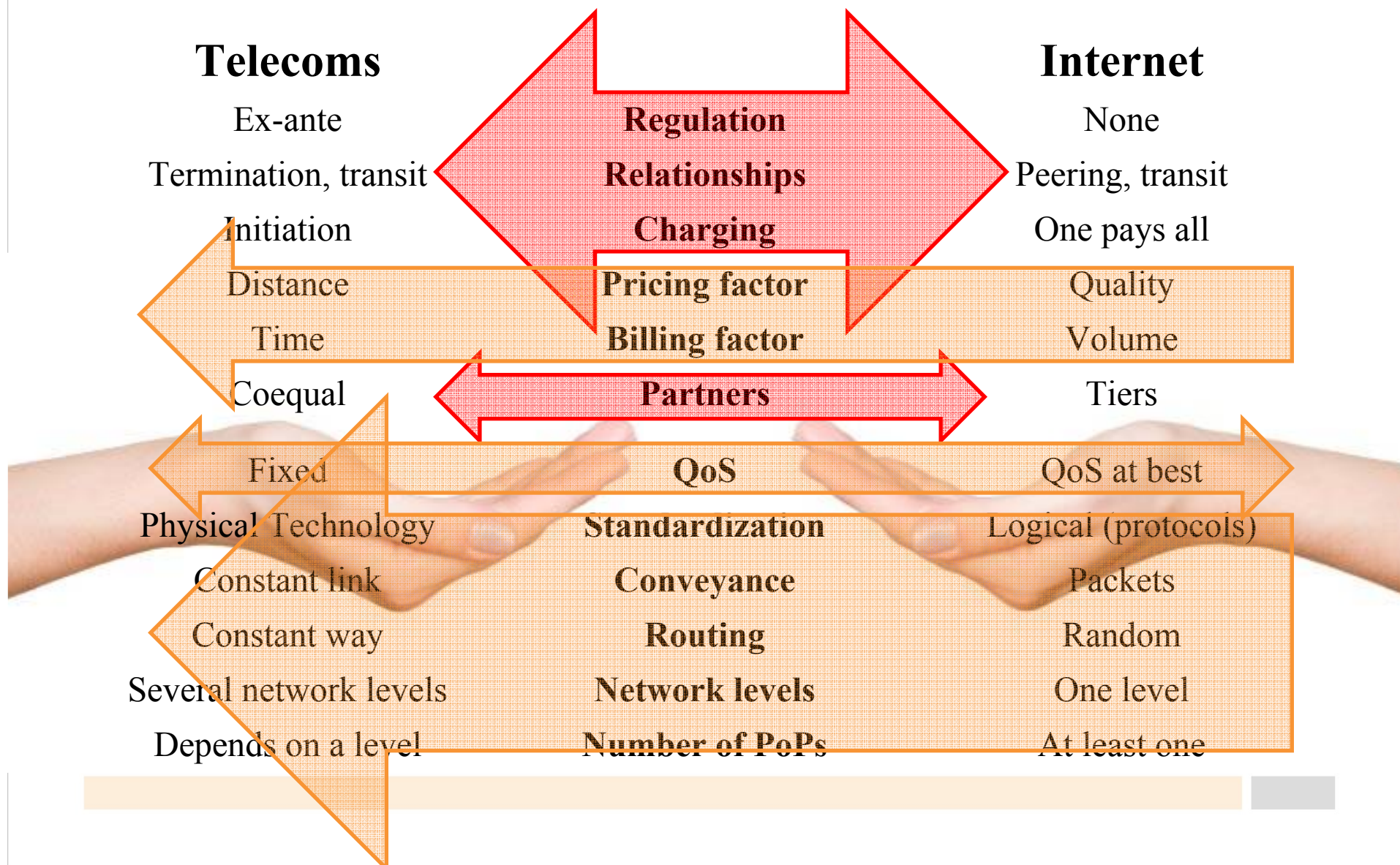
### ➤ Changes in the market of network equipment:

- Costs of network equipment decreased;
- Innovative solutions allow to reduce the power consumption and volume of equipment needed.

# What does the migration towards IP-based networks mean?

1. Migration from **service-oriented networks towards multi-service networks**:
  - “one network – one service” -> “one network – many services”:
2. **More networks** are able to deliver the similar value to the consumer:
  - more competitive environment between multi-service networks;
3. IP-based **networks are not the same** (i.e. different network architectures exist), **but they can do the same**;
4. It also means more interconnection between different networks and **coexistence of different interconnection approaches**.

# Coexistence of two interconnection approaches



# Interconnection regulatory environment

Telecom

International level

Internet

Active cooperation  
among regulatory  
community

Debate around  
International Internet  
Connectivity  
regulation

Ex-ante regulation

Do regulators  
have enough  
authority to solve  
interconnection  
disputes between  
ISPs?

National level

**Should we continue, expand or withdraw  
interconnection regulation?**

# Should we consider 'hands off' approach?

- Internet interconnection:
  - interconnection exchange model;
  - direction of traffic may be not important;
  - hard business rules: not all ISPs are equal;
  - no costs sharing mechanisms, lack of transparency.
- International telco interconnection:
  - multilateral agreements;
  - already adopted to deliver all types of IP traffic;
  - implemented through the Internet or via dedicated interconnection platforms;
  - lack of transparency.

**Not really ... But we should make the most of the positive experience and ensure regulatory goals are achieved!**

# What could we do?

- **More symmetric interconnection regulation:** in order to ensure interconnection where it is feasible and needed;
- **Extended transparency obligation:** because it lowers bargaining costs and works as a market self regulation tool;
- **Reliable and Robust interconnection:** because the consequences of a disruption or interruption in interconnection functions could be serious;
- **QoS:** because it could enable new forms of discrimination between incumbent's services and those provided by interconnecting competitors;
- **Open forum for the discussions:** to discuss migration issues and to have a place to raise any other relevant question.





# As our ultimate goals are to ensure that:

- Networks deliver the maximum benefit to the consumers;
- New operators enter the market without unnecessary burden;
- Existing operators maintain and expand their interconnectivity.

