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10 years of regulatory trends

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The views expressed in this presentation are those of the author and do not necessarily reflect the opinions of the ITU or its Membership.



Agenda

Intro

First wave of regulatory reform: ICT Market and Regulatory Trends Is it time for a second wave?



WTO Reference Paper 1997

Topics covered:

- 1. Competition
- 2. Interconnection
- 3. Universal Service
- 4. Licensing
- 5. Independent Regulators
- 6. Allocation of scarce resources



Regulation in an era of convergence

- Flexibility & forward-looking approach being adopted worldwide, but tailored to local circumstances, towards a converged regulatory framework
- Converging technologies (FMC, etc.)

Changing focus:

- From regulating voice towards regulating data services, multimedia, broadcasting: regulatory parity
- From regulating multiple services over multiple delivery platforms towards NGN regulation
- From regulating PSTN to regulation IP
- Infrastructure sharing
- From heavy-handed regulation to light-touch approach, but also functional separation
- Transparency & accountability
- Adopting and enforcing of clear rules
- Complexity vs. simplicity (i.e. interconnection, etc.)
- International cooperation

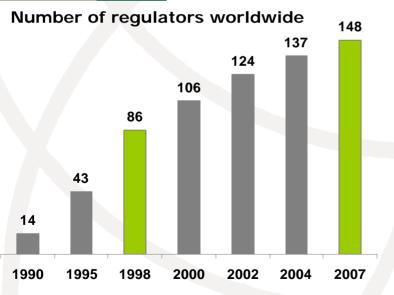


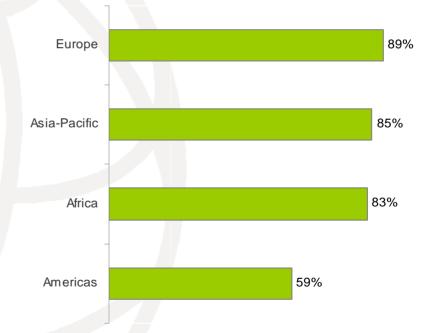




Effective regulation

Percentage of regulators in each region, 2007





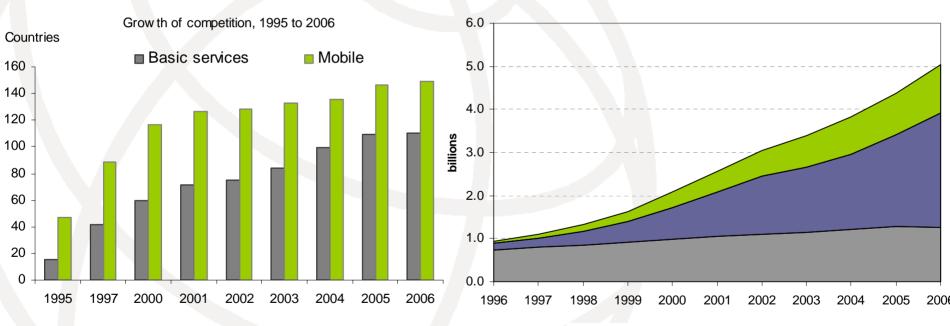
Source: ITU World Telecommunication Regulatory Database

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Competition

Growth in competition and in nb of subscribers, selected services



■ Fixed lines ■ Mobile subscribers ■ Internet users

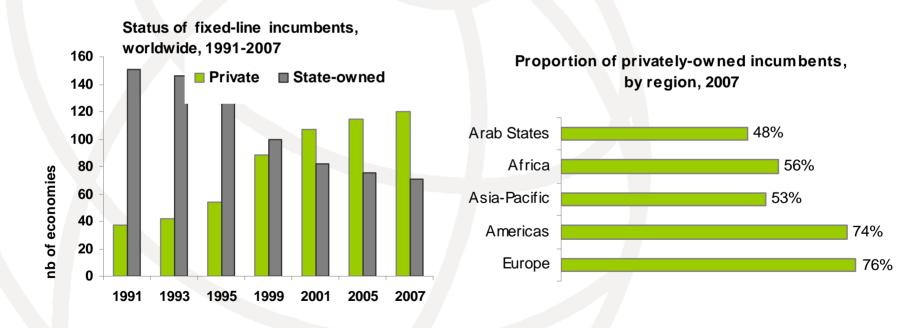
Growth in fixed lines, mobile cellular subscribers and Internet users, in billions, 1996-2006

Source: ITU World Telecommunication Regulatory Database

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Private ownership worldwide, 2007

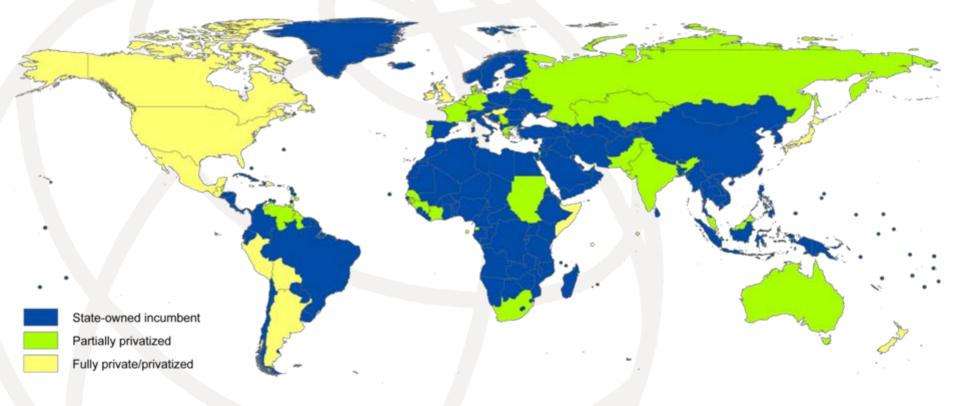


Source: ITU World Telecommunication Regulatory Database



Sector reform

Privatizations of incumbent operators worldwide, 1997



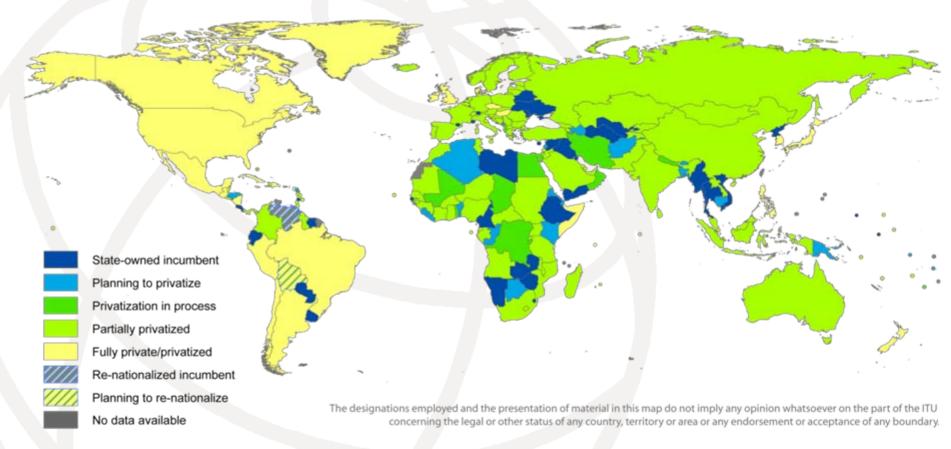
The designations employed and the presentation of material in this map do not imply any opinion whatsoever on the part of the ITU concerning the legal or other status of any country, territory or area or any endorsement or acceptance of any boundary.

Source: ITU World Telecommunication Regulatory Database



Sector reform

Privatizations of incumbent operators worldwide, 2007



Source: ITU, Trends in Telecommunication Reform 2007: The Road to NGN.

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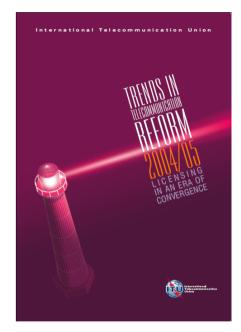
Functional Separation

- A new kind of re-structuring?
- Separation of legacy fixed line operators' non-replicable or bottleneck assets into a new business division which provides wholesale access
- This wholesale access division is kept separate from the incumbent's own retail divisions
- Australia, Ireland, Italy, Mongolia, New Zealand, Sweden and U.K.



Licensing

- Technology and service neutrality
- Transparency (criteria, procedure time, terms, etc.)
- Expansion in the number of services that are subject to only minimal or even no licensing, and
- Development of converged licensing frameworks that break down traditional service-based and technology-based licensing distinctions.
- Ensuring a level playing field between legacy operators and new market players
- What about Voice over IP?



GSR Best Practice Guidelines on Licensing (2004)



Interconnection Trends

Who has to provide?

- Different countries may require interconnection from incumbents or dominant operators or operators with SMP
- Increasingly, countries take a technology neutral approach and impose interconnection obligations on all network operators
- Still asymmetric regulation places heavier interconnection obligations placed on major suppliers

When is it provided?

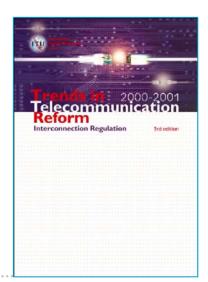
- Immediately through Reference Interconnection Offer
- Deadlines (e.g. 3 months to 135 days from time of request)

How much does it cost?

- Cost-oriented rates, using fully allocated costs, LRIC or others
- Benchmarking
- Privately negotiated

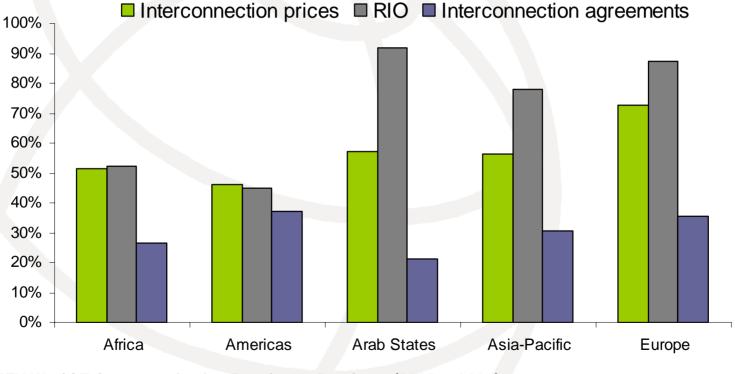
What information is available?

- Role of regulators' websites to publish RIOs
- Dispute settlement





What interconnection information is made publicly available?



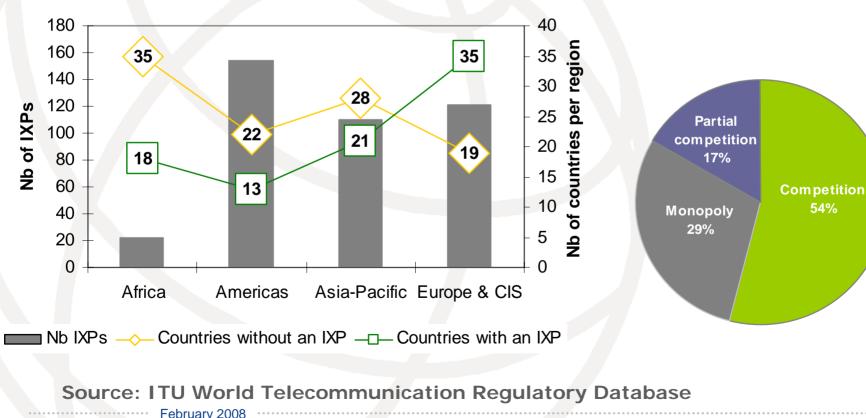
ITU World Telecommunication Regulatory Database (2005 & 2006)



IXPs and International gateway liberalization

Number of IXPs and number of countries with and without IXP, by region, 2007

Liberalization of the int'l gateway worldwide, 2007





Universal access

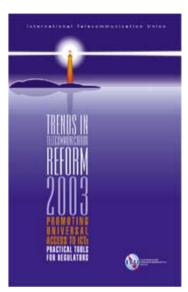
Universal Sevice Obligation

- Traditional Approach Implemented By Placing Obligations on Fixed Line Monopoly Operator
- Goal: universal household connections
- Largely achieved in developed world

Universal Access Opportunity

- First step: Sector reform measures
- Use of funds and smart subsidies combined with competitive auctions
- Goal: promote public access to un-served areas
- Mobile communications have reached more voice users than through fixed line USO programmes
- New steps needed to promote broadband

» GSR Best Practice Guidelines on Universal Access (2003) February 2008





Competition, Price and Technology

- Competitive bidding keeps subsidy, if any, low
- Lack of competition for access services will impact financial viability
- Price of services to end users and from incoming calls can make or break financial viability
- Technology choice can push forward the envelope of financial sustainability and affordability



Towards the second wave of sector reform

- Liberalize the international gateways and VoIP to promote IP services
- Leverage on the success in the mobile market to migrate to IMT technologies
- Leapfrog to fiber backbone and backhaul networks, by providing financial and fiscal incentives to encourage the deployment of backbone infrastructure
- Create national IXPs
- Continue to use market liberalization and competition as a force for development
- Think outside the box
 - encouraging network deployment with incentives
 - supporting small-scale deployment in rural areas
 - Using infrastructure sharing and open access models to promote deployment
- Promote cross-border harmonization for issues like international mobile roaming
- Remember where we started? . . . Convergence!
- First steps taken to address convergence; new issues arising for new applications and services like IPTV and mobile broadcasting

GSR 2008

Six degrees of sharing:

Innovative infrastructure sharing and open access strategies to promote affordable access for all

8th Global Symposium for Regulators 11-13 March 2008 P a t t a y a T H A I L A N D

nternetional electromyunication

> Coming soon! Trends in Telecommunication Reform 2008: Open Access & Infrastructure Sharing

http://www.itu.int/GSR08/



Thank you! susan.schorr@itu.int

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