

Asymmetric regulation, including price regulation

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Agenda

- Context of asymmetric regulation
- Rationales
- Defining markets and dominance
- Consequences of non-dominance
 - Tariff regulation
 - Approaches to tariff regulation
 - Interconnection



What are the conditions for optimally functioning markets?

- ☐ No barriers to entry and exit
 - Multiple buyers & sellers
 - No market power
- ☐ Homogenous products
- ☐ Perfect information
- ☐ Rational participants (homo economicus)



Conditions for workable markets

- Markets that do not satisfy information and rationality conditions
- Are telecom markets workable?
 - But telecom markets do not satisfy even the remaining conditions
 - Barriers to entry and exit
 - Scarce resources
 - Increasing returns; essential facilities
 - Potential to extend market power from one market to another
 - Peculiarities of call termination: “market of one”



Best practice

- ❑ Infrastructure to be governed under the principle of “competition wherever possible; regulation where necessary”
 - Unbundling potentially competitive elements of integrated government owned monopolies
 - Introducing competition in markets that allow it
 - Regulating to ensure “level playing field” for investors and to protect consumers



Regulating to enable competition

- Regulation to ensure “level playing field” for investors and to protect consumers
 - Safeguards to prevent extension of market power into competitive markets
 - Structural vs behavioral
 - Control market power in monopoly markets through asymmetric regulation



Rationales for asymmetric regulation

- There is potential for an operator in a defined market to
 - be of sufficient relative size or
 - control access to essential facilities
- That it can act independently of market forces and constrain the development of competition



Rationales for asymmetric regulation

- Conventional regulation may be impractical in multi-operator market
 - Sri Lanka has four (going on five) mobile operators
 - Each operator had around 45 tariffs
 - Workload for handling 45x4 (45x5) tariffs every year (or more than once a year) would be unmanageable



Key principles of implementation

- ❑ Keep it simple
 - Operators need certainty and predictability for long-term investments
 - Does not make too many demands of regulatory staff
- ❑ Focus on specific markets
 - Move to a focus on markets, not operators
- ❑ Allow for changes to reflect market developments
 - Operators can move out of dominance & others can move in



Define markets

- Most countries define fixed local, national and international as separate markets
- European Union defines 18 markets
 - Too complex for developing-country markets
 - But noteworthy that fixed and mobile markets (origination, termination and roaming) seen as distinct



Starting point

☐ Services

- Local retail voice
- National retail voice
- International retail voice
- Mobile retail voice
- Data

☐ Infrastructure

- Local fixed access
- Domestic backbone wholesale
- International access



Market definition (and changes) must be through public consultative process

- May need assistance of expert consultants to conduct review
- Resist pressures to
 - Define too many markets
 - Change market definitions frequently



Market dominance identified by

- Control of essential facilities that are
 - Controlled by one or a few operators
 - Are needed for the supply of service, and
 - Cannot be economically replicated

OR

- Ability to act independently of market forces
 - Market shares
 - Structure of market
 - Potential for market entry, etc.



Market share

- How calculated?
 1. Customers?
 2. Traffic volume?
 3. Revenue?
- 1 is easier and may be best for retail markets
 - But is a serious problem in mobile markets which lack definitions of customers
- 2 and 3 (preferably defined formula) for wholesale markets



Market share as a trigger for dominance

- ❑ EU used 25%; now 40%
- ❑ If all or most operators trigger dominance test, threshold may be set too low
- ❑ Best not to use market share alone
- ❑ Market structure indicator threshold
 - $HHI = a^2 + b^2 + c^2 + d^2$
 - A simple indicator used by US DoJ and others



Consequences of non-dominance designation

- Forbearance from tariff regulation (may be problematic under existing laws in specific countries)
 - Minimal filing requirements
 - India is classic case; almost total price forbearance but best (with PK) on availability of price information
- No requirement for RIOs
 - Not necessarily cost-based interconnection
- Purpose of asymmetric regulation is reduction of regulatory burdens, not increase



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How does forbearance on tariffs work when there is a dominant player?

- ❑ Fixed entrants in Sri Lanka not subject to tariff regulation 1997-2002 (extended)
 - Combined market shares of 2 entrants 13-14% until recent burst of CDMA-based growth
 - ❑ Tariffs shadowed incumbent's tariffs during rebalancing period
 - ❑ No major problems from public and legislature
 - Except a little hiccup from a commerce minister in 2003



How does tariff forbearance work in a market with a dominant player?

- By 2006 H2, entrants had gained a combined market share of 29%
- But Incumbent was still able to offer the identical CDMA product at almost double the connection charge
 - Only effect of market pressure was that Incumbent voluntarily offered a 10 month installment plan
 - → No reason to forbear on the incumbent



How does tariff forbearance work in a market with a dominant player?

- Another reason to continue regulating incumbent's tariffs
 - If incumbent has captive markets it can finance cross subsidies from, it can engage in anti-competitive cross subsidies, or even predatory pricing
 - Floors matter more than ceilings (or at least as much)
 - Usually, tariffs are precise descriptions of the service and a specific price
 - TRAI, unwisely, put ceilings on incumbent prices in rural India, but no floors → discouraged entrants



How does tariff forbearance work in a market with a dominant player?

- Incumbent's complaint will be that the entrants are stealing corporate customers using discounts and packages that it is precluded from offering
 - Solutions?



Price regulation under asymmetric regulation

- ☐ Not abolished
- ☐ Work load shifts from regulating all prices to
 - Setting dominant players' prices
 - Dominance reviews
- ☐ Dominant players' prices still need to be determined
 - Two choices:
 - ☐ RPI-x (price cap)
 - ☐ Cost-based



Short answer on how to regulate prices

- Do RPI-X if you can get away with it
 - Bad theory but practical
 - In actual fact most RPI-X decisions underpinned by cost calculations in order to reach the X; or X is determined by raw negotiating power
- If you can use benchmarking (basket methodologies best), do so
- If you need cost-based, forward-looking is theoretically better than historical
- But, best is getting rid of dominance through competition



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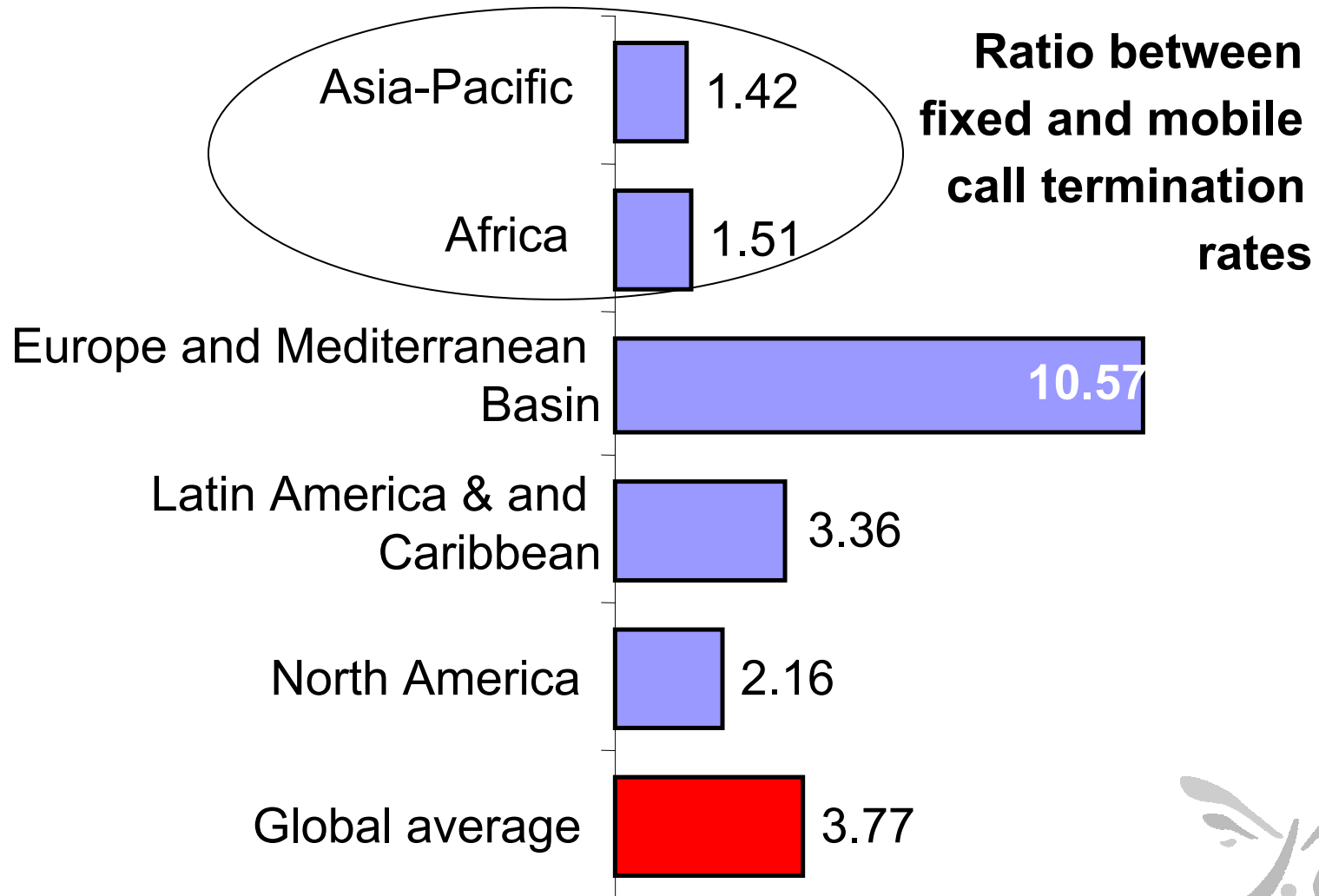


How does it actually work?

- Mobile operators in Europe not required to offer cost-based termination unlike fixed incumbents
 - Very high mobile termination
 - Once as high as 1:20 fixed:mobile, though on the decline
 - Extraordinary growth driven by asymmetric interconnection regime (real reason for Europe's "success" with mobile)
 - Starting around 2000, corrective action had to be taken



From Tim Kelly's Thursday slides . . .



Source: ITU-T, based on survey of regional tariff groups.



But, cannot equate mobile to non-dominant like the Europeans

- Importance of assessing each market on its own terms



In conclusion

- Regulation is the means; better performance
 - Greater connectivity
 - More value for money (price + quality)
 - Choice for customers

Is the end

- Operators produce better performance; regulators only facilitate
- Asymmetric regulation is a prudent way of facilitating by focusing efforts on the most important tasks

