LIRNE.NET & IDRC Meeting

Tools for effective regulation using benchmarks & indicators

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Helani Galpaya - galpaya @lirne.net



Goals of Good Regulation

- ▶ Increased Access/Usage
- Decreased Price
- Increased Quality
- ▶ Increased Choice

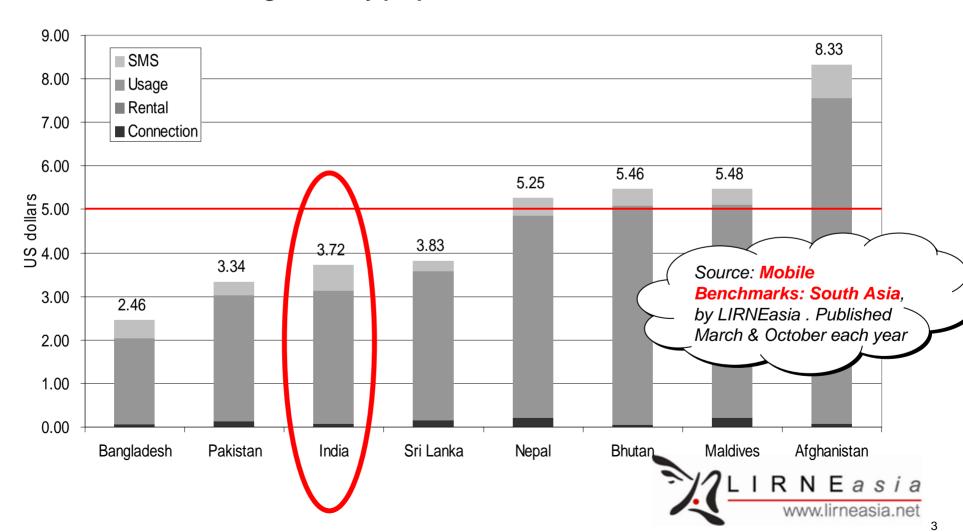


(Not) Regulating Price: Banded Forbearance

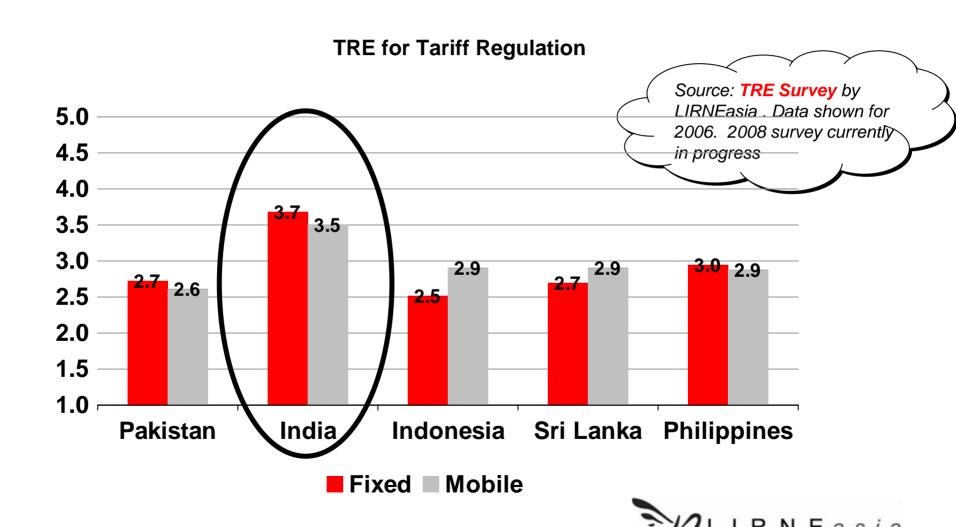


India has very low prices. Indians believe prices are lowest in Asia

Average monthly prepaid mobile cost for a Low User

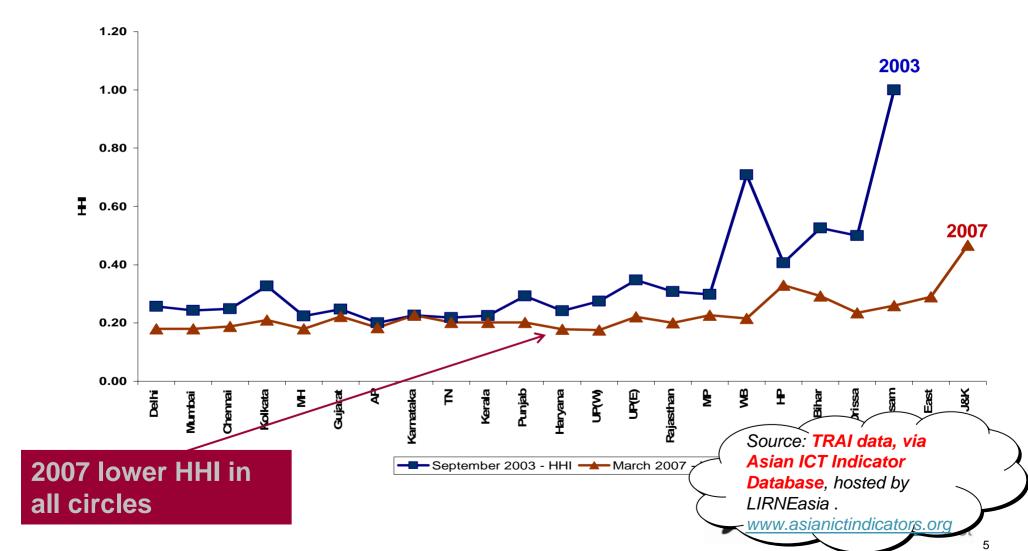


India doesn't regulate tariffs. Stakeholders like TRAI's forbearance from Tariff Regulation. Give highest TRE Score



But India can practice forbearance. Market conditions are right. High & increasing competition even at circle (regional) level

Comparison of Circle-wise HHI 2003-2007



But South Asian countries with even less competition are engaging in de facto forbearance

HHI as at December 2007

Country	HHI		
Sri Lanka	▶ 0.36		
Maldives	▶ 0.66*		
Bangladesh	▶ 0.31		
Pakistan	▶ 0.27		

India	▶ 0.16

"we look at newly tariff plans and file it, put it aside"

"occasionally ask for more information"

"we haven't rejected any tariffs plans"

Source: Asian ICT Indicator
Database, LIRNEasia.
www.asianictindicators.org

^{*} Note: Maldives HHI is for Sep 2007

Why not put an upper & lower limit, practice forbearance within the band, and announce it?

- Upper and Lower Limits to avoid
 - Predatory Pricing
 - Price Squeeze
- Give operators regulatory certainty
- Use resources at regulatory agency for other important things
 - Issuing more licenses
 - Ensuring reasonable interconnection
 - Spectrum management
 - Quality of Service
 - Etc...



Can the regulator step back from QoS too?



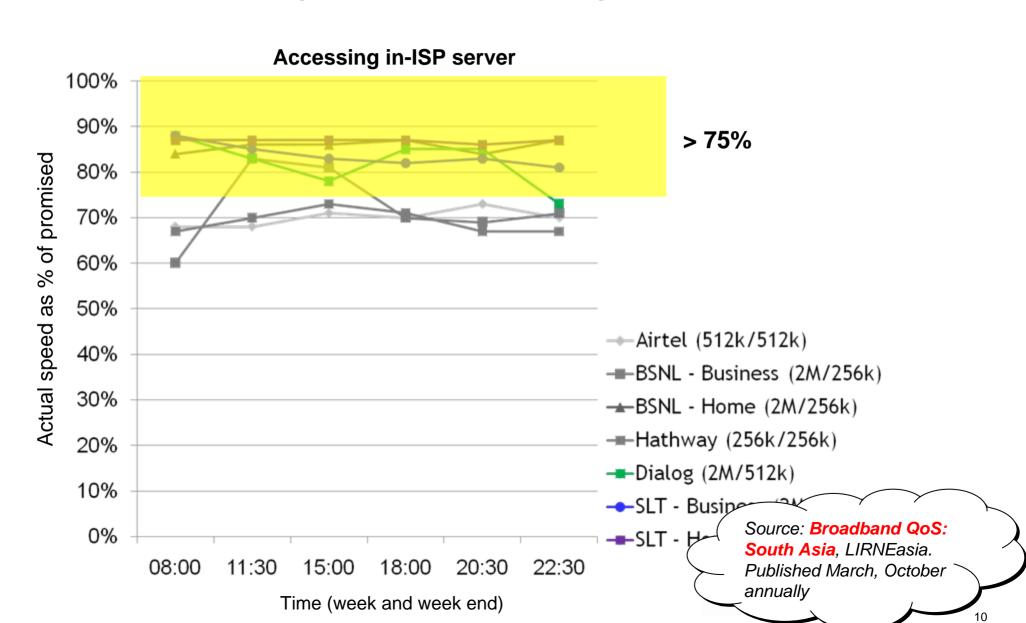
Many dimensions of BB Quality. What's "good" depends on what its been used for

	Throughput		Delay			
Service	Down	Up	RTT	Jitter	Loss	
Browse (text)	++	_	++	-	-	
Browse (media)	+++	-	+	+	+	
Download file	+++	-	-	-	-	
Transactions	-	_	++	+	-	
Streaming media	+	-	+	++	++	
VOIP	+	+	+++	Source: Ashoka-Tissa Bi QoS Methodology, LIRNEasia & the Indian		
Games	+	+	+++			

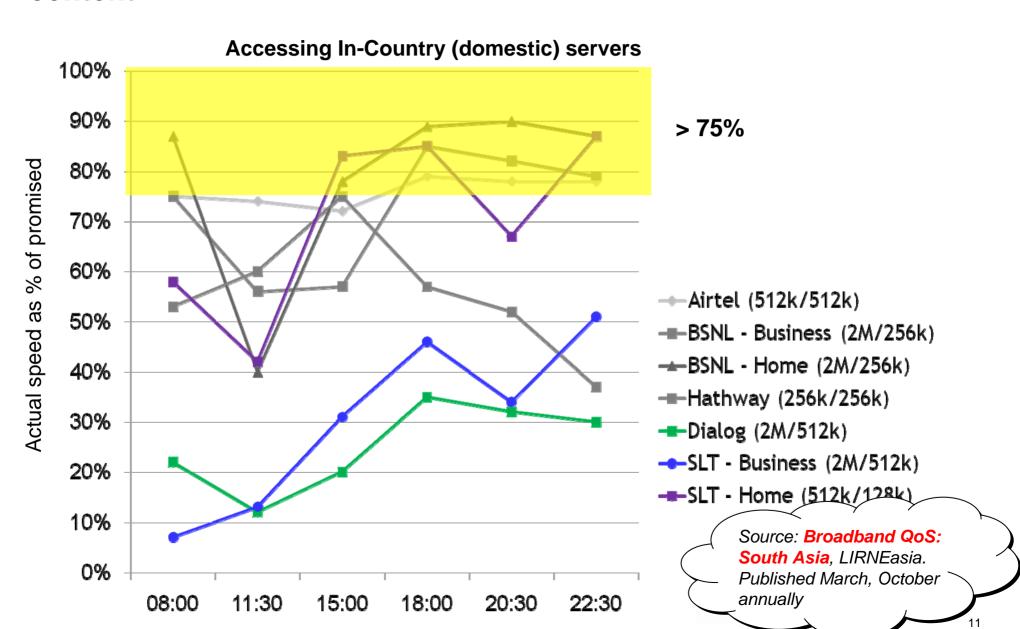
+++ highly relevant, ++ very relevant, + relevant, - not relevant

LIRNEasia & the Indian
Institute of Technology,
Madras (Chennai)

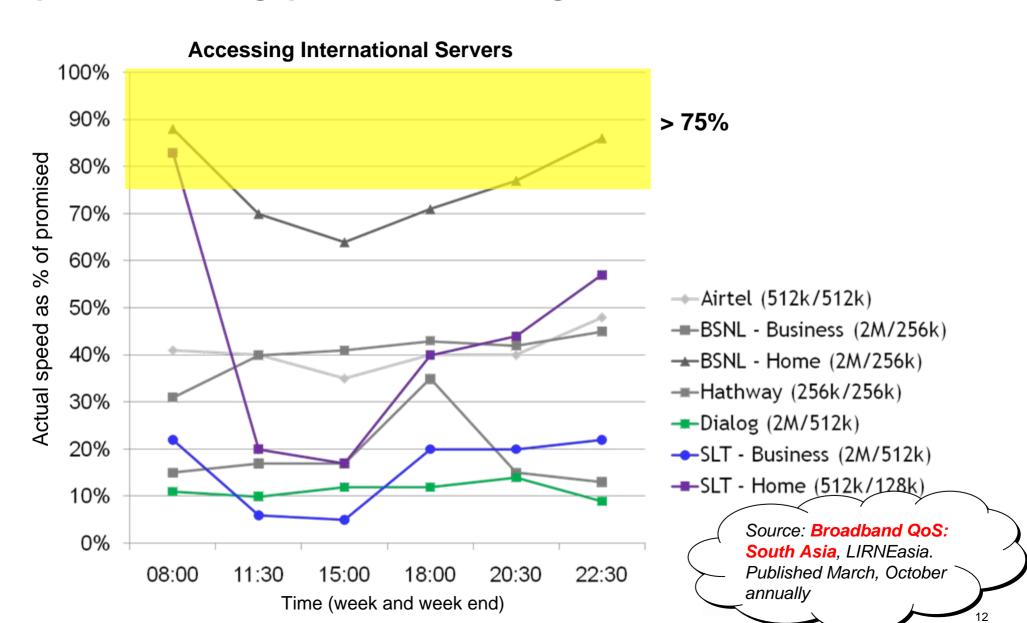
Tests in India & Sri Lanka show content hosted on the users own ISP accessible at speeds close to those promised



Performance deteriorates when accessing domestic (in-country) content



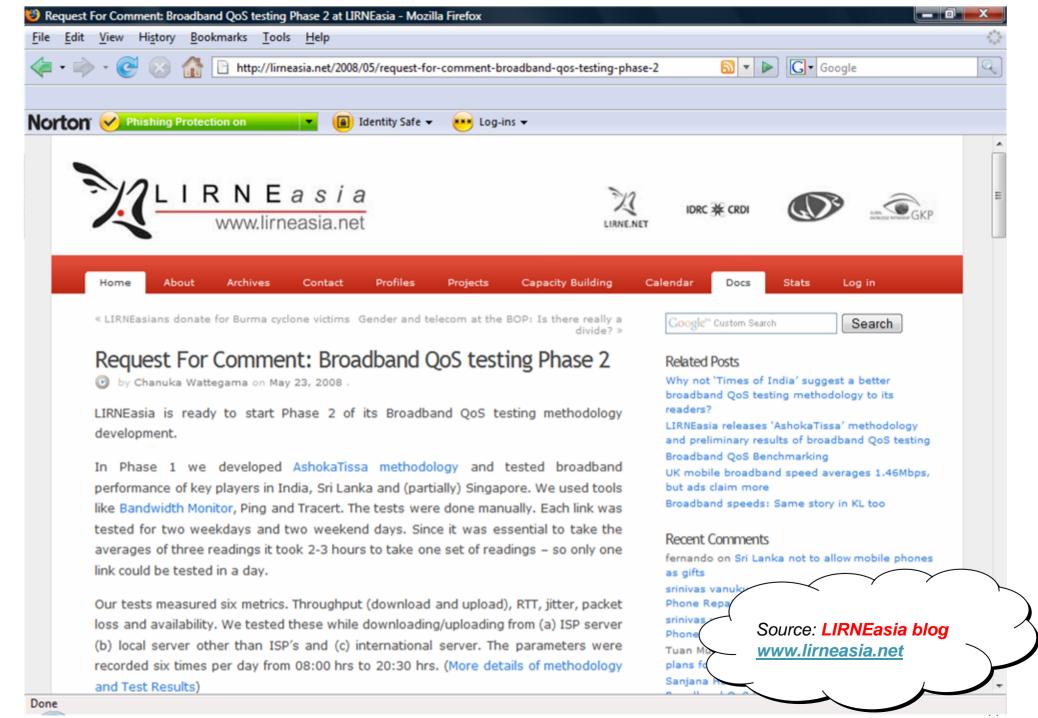
But majority of content is hosted overseas (USA). Users rarely get promised throughput when accessing these



What if many more users ran the tests? And the performance data was made available to all

- ▶ App running in background of hundreds/thousands of user machines
- Data uploaded and displayed on popular web-site
- ▶ Data for benchmarking, decision making
 - compare performance of various operators
 - compare countries against each other
- ▶ Consumer: Vote with your feet
 - As long as there is an alternative provider





Thank you

