

Building regional connectivity: Insights from research

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UNESCAP CICT Sessions, 20-22 November 2012



This work was carried out with the aid of a grant from the International Development Research Centre, Canada and UKaid from the Department for International Development, UK.



Agenda

- What is broadband?
- Broadband is different
- International segment
- Access network
- Demand side

What is broadband?

- The Broadband Commission sought to focus on considering some of the core concepts of broadband as an ***always-on service (not needing to make a new connection to a server each time a user wants to go online)***, and ***high-capacity: able to carry lots of data per second, rather than the particular*** arrival speed of the data. The practical result is that broadband enables the ***combined provision of voice, data and video at the*** same time.

ITU-UNESCO Broadband Commission

Broadband is different

PSTN v mobile voice v broadband

- In old style PSTN, most calls local, few national, fewer international
 - Local switching possible
- In mobile voice networks, need to interrogate databases
 - More signaling traffic going longer distances, but actual calls still mostly local
- With broadband
 - Most traffic is international, though not necessarily to US
 - Even local websites hosted abroad
 - Even email intended for local persons requires international traffic



A chain is as strong as its weakest link

Broadband performance is defined by performance over the weakest link

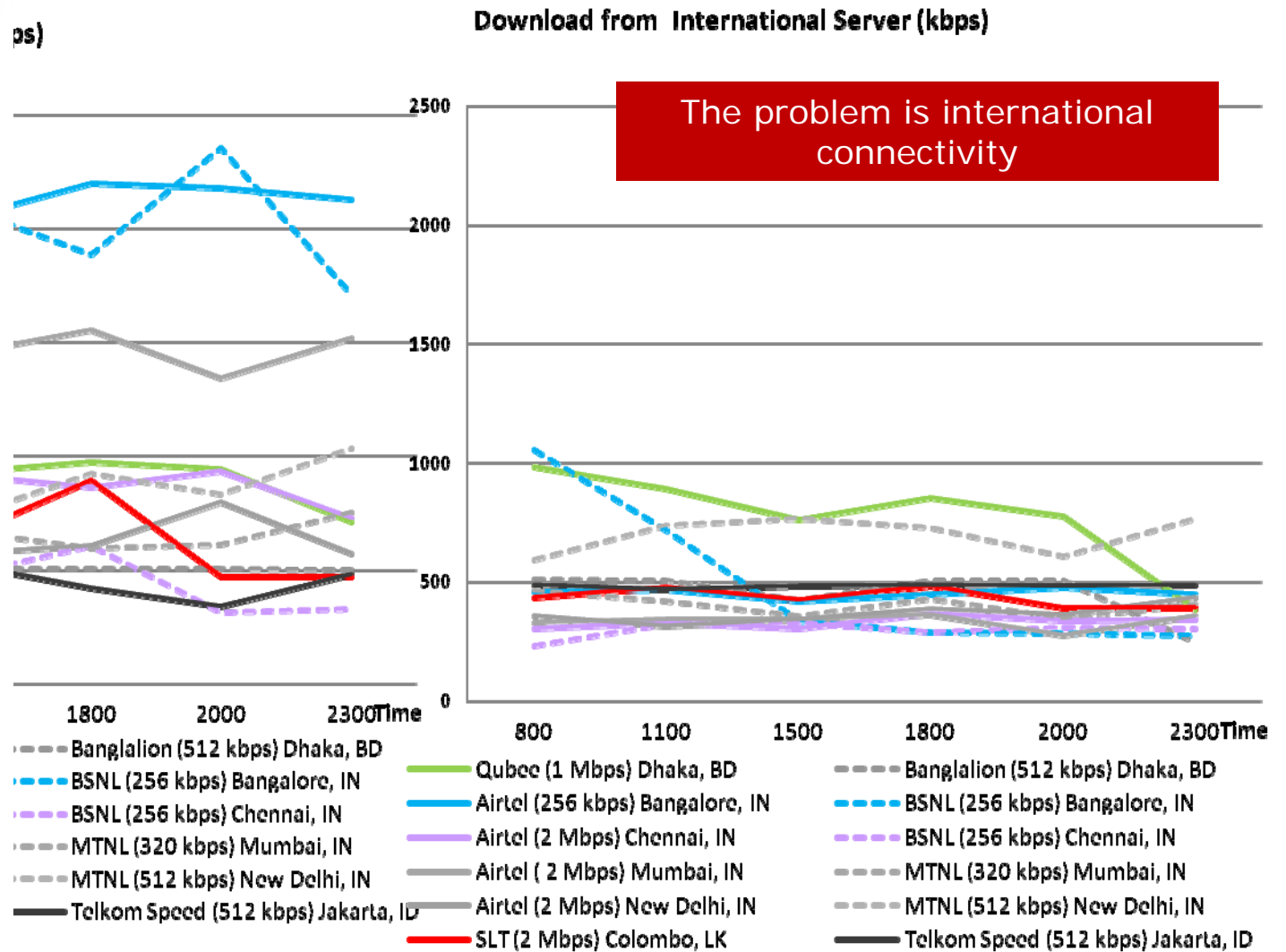
One cannot focus on local access alone . . .

**Is the international segment the
weakest link?**

in cities: Identifying the weak link (Fixed

https://www.yunbaogao.cn/report/index/report?reportId=5_7268

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Source: LIRNEasia, 2011