Session 3: Regulation in a converged broadband world

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The issue (1/3)

- Broadband is a key infrastructure
 - For business
 - For individuals
- But not well developed in developing countries
- This is a major public policy issue
 - To be addressed by a broadband policy framework
 - Involving a number of policy considerations



The issue (2/3)

- Privatization, competition, and liberalization have been of central importance
- Broadband, however, brings newer, broader and greater challenges
 - In some countries it may be viewed as a public infrastructure
 - And there may be natural monopolies
- Services may be more important than broadband technologies
- Policy-makers and regulators must balance respect for market forces with the need to prevent market failures.



The issue (3/3)

- Telecom/ICT regulators have seen their mandate expand:
 - Broadcasting
 - Information technology
 - Electronic content
 - Cybersecurity
 - Data protection
 - Data privacy
 - Environmental issues



Background (1/6)

- Ex ante regulation has been common

 In particular for state-owned monopolies
 But also for incumbents
- Based on the assumption that some infrastructure is a natural monopoly
 - In particular the last mile



Background (2/6)

- Ex post regulation based on competition law is an alternative
 - But traditionally considered to be less effective
 - Access obligations are the most common form
 - As are imposed interconnection prices
- The basic idea is to favor competition for services



Background (3/6)

- Traditionally it was easy to know who to regulate:
 - Services were tied to a specific network technology (e.g fixed voice, mobile voice, national calls)
 - An operator's share of a market was essentially its share of a specific network technology
- The best pro-competitive measure was typically an interconnection obligation at wholesale prices
 - The main issue being the tradeoff between low prices and investment incentives



Background (4/6)

- The success of deregulation has made the situation more complicated
 - Should ex ante controls be removed?
 - Is general competition law sufficient?
- The links between services and network technologies are no longer clear
 - A converged regulatory framework might be required
 - For example, voice rules apply also to VOIP



Background (5/6)

- Different types of networks can now compete with each other
- Bundled offers (triple play) are common
- Flat rate is common
- Need to invest in network infrastructure
- Infrastructure may become a commodity



Background (6/6)

- Defining markets, and who has market power, is harder
- Market power might be abused in areas that were not traditionally regulated
 - Proprietary payment systems
 - Exclusive distribution of content
- Markets change rapidly, which may make regulations obsolete
- There may be a need to focus:
 - More on promoting investment in infrastructure
 - Less on promoting access to existing infrastructure



Global ICT developments, 2000 – 2011





Average Broadband Speeds (Mpbs)

	2011	2012	2013	2014	2015	2016
Global	9	12	16	21	27	34
Asia Pacific (8	11	15	21	28	36
Latin America	4	5	7	8	10	12
North America	11	14	1.8	23	29	37
West Europe	11	14	18	-24	32	42
C and E Europe	9	12	15	19	-24	29
Mid East & Africa	3	4	5	6	7	8

Source: CISCO VNI, 2012



Some trends



International Telecommunication Union

Global consumer internet traffic per application



Online gaming and VoIP totecast to be 1% of all consumer Internet traffic in 2016. Source: Olsco VNI Glabal Forecast, 2011-2016





Percent of the minimum wage paid for wired broadband



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Possible actions for governments

- Develop a broadband policy framework
- Optimize use of the international bandwidth
 Promote use of national ccTLD
 - Enable/favor implementation of IXPs
 - Promote development of local content
- Liberalize international access points and access to submarine cables
- Promote investments to increase infrastructure



Possible actions for operators

- Offer local products, based on national ccTDs
- Use IXPs/invest to create IXPs
- Invest in infrastructure
- Negotiate to lower cost of international connectivity



Conclusions

- Broadband is a key infrastructure
- To be addressed by a broadband policy framework
- Involving a number of policy considerations
- In particular:
 - Ensuring investment in infrastructure
 - Fair return on investments
 - Affordable prices for consumers



For more information

- <u>http://www.itu.int/ITU-</u> <u>D/treg/Events/Seminars/GSR/GSR12/docu</u> <u>ments/GSR12_BBReport_Koboldt_SMP_8.</u> <u>pdf</u>
- <u>http://www.itu.int/ITU-D/finance/work-</u> <u>cost-tariffs/events/tariff-seminars/Geneva-</u> <u>IIC/Agenda.htm</u>

