

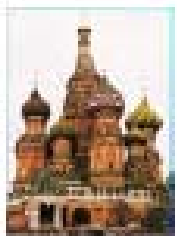


# ***ITU-BDT Regional Seminar on Broadband Wireless Access (BWA) for CIS, CEE and Baltic Countries, Moscow (Russian Federation)***

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# General



- At the kind invitation of the Ministry of Information Technologies and Communications of the Russian Federation, the Telecommunication Development Bureau (BDT) in collaboration with the Telecommunication Standardization Bureau (TSB) and the Radio communication Bureau (BR).

Moscow, Russian Federation

26 to 29 November 2007

on the premises of the Advanced Telecommunications Training Institute (ATTI) of Moscow Technical University of Communications and Informatics (MTUCI).

ITU/BDT Regional Seminar on BWA  
For CIS; CEE and Baltic Countries  
26th-29th November, 2007  
Moscow, (Russian Federation)



# Objectives



- The Seminar will examine
  - the technological,
  - economic and
  - regulatory factors

that influence the availability and deployment of wireless broadband services.

- The event will provide an opportunity for wireless broadband business, technology and regulatory experts to share their knowledge, experiences and views on the future of the industry with ITU and Host Administration attendees.
- Speakers from Industry/Administrations and Associations

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# Outline

- Introduction to Wireless Broadband
- Broadband Programs and Systems implementation
- Regulatory aspects of Wireless Broadband
- International Wireless Broadband standards
- Broadband technologies and Solutions
- 2G to 3G Migration/ Evolution-Guidelines for Developing Countries
- Closing Remarks



# Broadband Wireless Access



- Broadband networks will be key to the continued growth of the Internet and the global economy – and to the participation of many in the future economy.
- Being able to communicate, not only what you want and in what form, but also where and when, will drive the continued integration of networks – wire-line, wireless and broadband.
- Networks of all kinds – seamlessly interconnected – will be critical to serving the needs of the economy and consumers.



# Broadband for all



Country	Percent of Households and Businesses Taking Broadband	Percent of the Population with Access to Broadband	Highest Broadband Speed Offered (downstream)	Highest Broadband Speed Offered (upstream – critical for interactivity)	Percent of the Broadband Market Served by Competitive Infrastructures (non-DSL)	Percentage Growth Rate of Fiber Deployment (FTTC or FTTH)
U.S.	53	94	50Mbps	20Mbps	58	213
U.K.	42	100	20Mbps	800Kbps	46	6.3
Japan	58	94	100Mbps	100Mbps	33	82
Korea	74	100	100Mbps	100Mbps	48	102
France	40	96	20Mbps	800Kbps	18	17.8
Netherlands	65	100	8Mbps	768Kbps	38	7.83
Europe average	28	89	16Mbps	789Kbps	29.6	20.6

- Government can play an important role in stimulating broadband deployment, as markets alone may not ensure broadband deployment reaches everyone





# 2015 – the World connected



Billions of people will connect to services  
via broadband access !

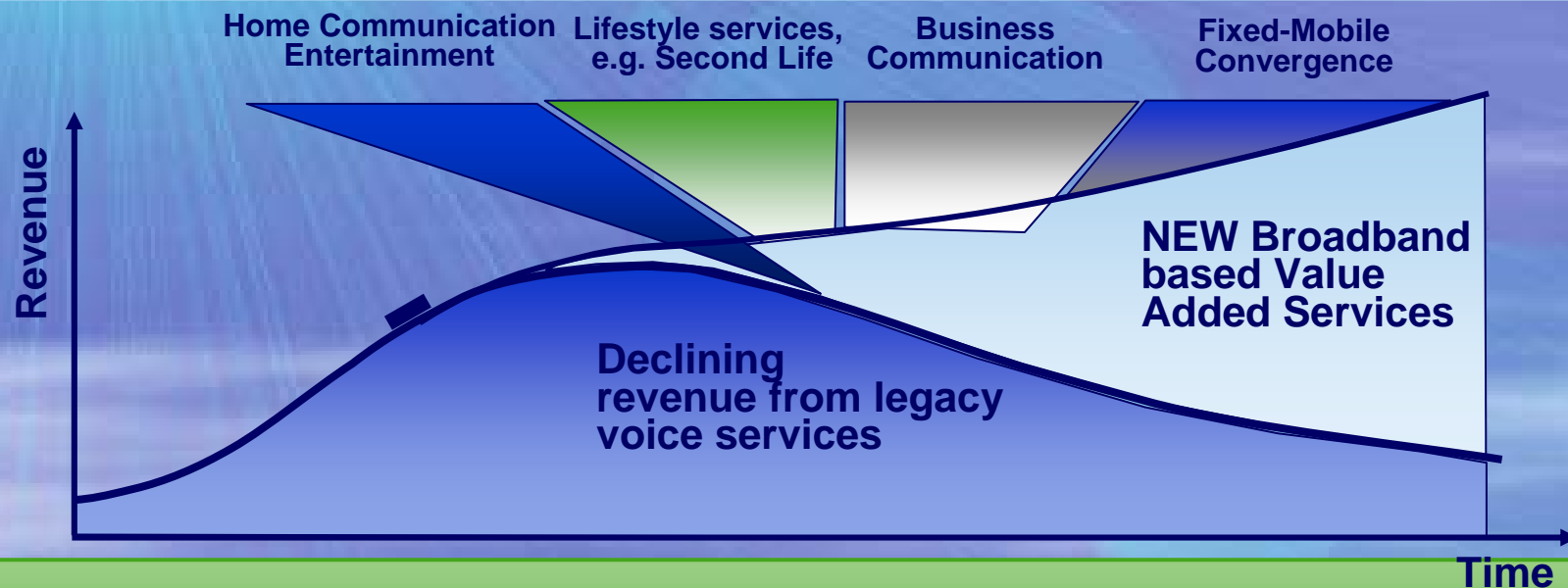
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# Challenges



- Market requirements move operators toward increased focus on end-user application and content (e.g. IP-TV, music)
- At the same time, strong competition requires efficient network operations and maintenance to minimize OPEX (operational expense)
- By 2010, the convergence of fixed, mobile, and broadband services will be steadily maturing



**Broadband creates the opportunity to increase revenue**





# Other Challenges



- Convergence
- Regulation
- Confusion
  - To many Technologies
  - To many Standards
- Evolving services and constrains on Network access and Back-haul