

Expert Consultation on the Asian Information Superhighway and Regional Connectivity

Broadband network initiatives and future plans in Vietnam

DR. Nguyen Hong Van

Email: hvan@vinaren.vn

Director of Vietnam Research and Education Network (VinaREN)

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SOCIALIST REPUBLIC OF VIET NAM



- ❖ Area of land: 331,698 km²
- ❖ Population (up to 31 Dec 2011): 88,297,300 people
- ❖ Number of households in 2011: 23,065,600
- ❖ GDP of 2011: 122 billion USD
- ❖ Growth rate of GDP in 2011: 5.89%
- ❖ Some 70% of the population resides in rural areas.
- ❖ Vietnam was accepted into the World Trade Organization (WTO) on November 7, 2006.

Current status

Network:

- ❖ Internet Users (March 2013): 31304211
- ❖ Internet Users per capita (March 2013): 35.58 %
- ❖ Total International connection bandwidth of Vietnam: 391165 Mbps
- ❖ Total domestic connection bandwidth: 512174 Mbps
- ❖ Connection bandwidth through VNIX: 113000 Mbps
- ❖ Total VNIX Network Traffic: 148471770 Gbytes
- ❖ National backbone transmission capacity: 240 Gb/s;
- ❖ International transmission capacity: 100 Gb/s.
- ❖ Development of NGN, Internet TV cable, Mobile broadband network 3G, WiMAX...

Current status

Service:

- ❖ Internet and broadband markets develop rapidly especially in urban.
- ❖ 2.2 million broadband subscribers, over 90% of enterprises in Vietnam have Internet connections and use broadband services.
- ❖ 3G licensing, licensing and trial mobile and fixed WiMAX
- ❖ Broadband connection to schools, hospitals, banks, training centre...
- ❖ ICT services and application for e-commerce, e-government, public services, community services...

Current status

Broadband Technology:

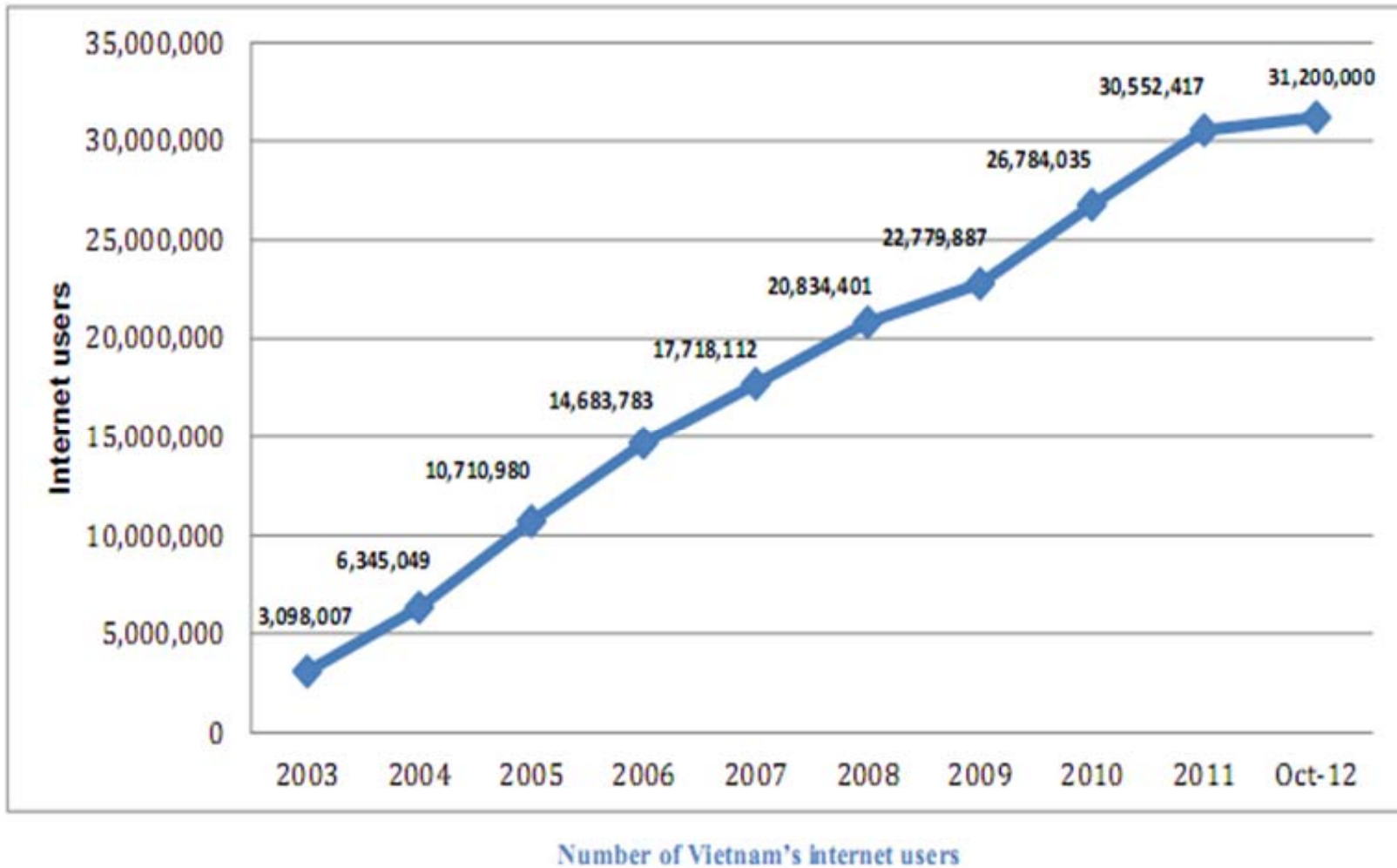
- ❖ Mobile operators using GSM and CDMA technology.
- ❖ Broadband services are mainly provided via ADSL, ADSL ++, FTTx, Metro NET.
- ❖ 3G mobile networks based on WCDMA .
- ❖ Trial WiMAX using the 802.16e standard in the 2.3 - 3.3 GHz band (compared to 800-1800 MHz for 2G and 1900-2100 MHz and 2200 MHz for 3G) since 2006. Still trial due to high cost .
- ❖ Accessing the Internet via satellite Vinasat 1 and Vinasat 2.
- ❖ WiMAX and LTE technology could be used for deploying 4G wireless broadband.
- ❖ 5 operators are provided trial LTE licenses in 2010.

Current status

Broadband Markets:

- ❖ Strong competition, tariff on average level as compared the region.
- ❖ 11 FBO companies (VNPT, Viettel, SPT, EVN Telecoms and Hanoi Telecoms, Vishipel, VTC, FPT, GTel, Dong Duong Telecoms, CMC TI) and 81 ISP.
- ❖ 07 mobile operators (VNPT, Viettel, SPT, EVN Telecoms, HaNoi Telecom, GTel, Dong Duong Telecom).
- ❖ 03 companies offered 3G services (Vinaphone, MobiFone, Viettel).
- ❖ 10 companies are trial deploying WiMAX including VNPT, Viettel, VTC, FPT, CMC, EVN Telecoms...
- ❖ 03 nationwide coverage television stations (VTV, VTC, AVG), 63 local television stations.

Current status

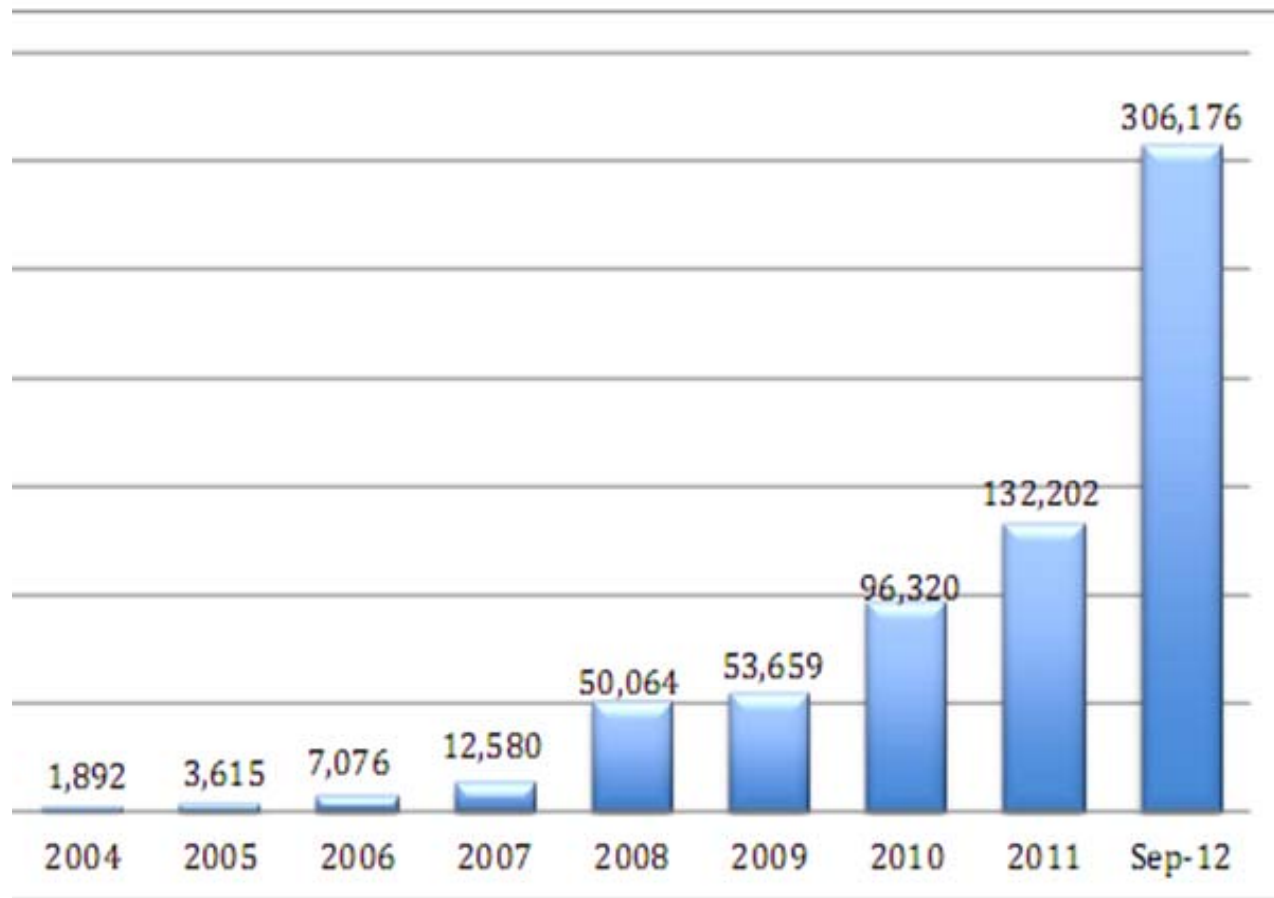


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Current status



Total International connection bandwidth of Vietnam