

Vodafone Fiji ISP Experience

Presented by Mr. Shivneet Nair Team Leader - ICT December 5, 2013



Mobile Today 6,800,000,000 MOBILE CONNECTIONS 3,200,000,000 MOBILE SUBSCRIBERS 1,600,000,000 MOBILE BROADBAND CONNECTIONS

62,000,000 LTE CONNECTIONS Mobile in 2017

9,700,000,000 MOBILE CONNECTIONS

3,900,000,000 MOBILE SUBSCRIBERS

5,100,000,000 MOBILE BROADBAND CONNECTIONS

920,000,000

LTE CONNECTIONS



Industry around us

- Network Landscape
 - Last year's mobile data traffic was nearly twelve times the size of the entire global Internet in 2000.
 - Mobile network connection speeds more than doubled in 2012.
 - In 2012, a fourth-generation (4G) connection generated 19 times more traffic on average than a non-4G connection.



- Smart Devices & Growth Trends
 - Average smartphone usage grew 81 percent in 2012.
 - Smartphones represented only 18 percent of total global handsets in use in 2012, but represented 92 percent of total global handset traffic.



Challenges Network Design and Development Future Plans



Challenges

- Competing with OTT providers like Google, Microsoft, Dropbox and Viber.
- Managing Internet Service Levels and the costs associate with it.
- Lack of local content in the market.



Top Mobile Data Apps



Network Design and Developments

- Rollout of All IP Backhaul Network and 3G/4G Services.
 - Implementing Traffic Engineering Solutions to efficiently use bandwidth on links.
- Partnership with OTT Providers to host their content locally so that we reduce the cost of buying Internet Bandwidth from upstream providers.
 - Partnering with CDN Providers.
 - Implementing Network Content Optimization.



Mobile Video Formats: Past and Present

* Other incldues formats such as HLS, Smooth streaming, WebM



Future Plans

- Implement Hardware Virtualization to reduce investment on Core equipment.
 - Focus on Coverage and Content Development.
- Develop Apps to increase local content.
- Setting up IXPs to route traffic locally.



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