

# Vodafone Fiji **ISP** Experience

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



Mobile Today

MOBILE CONNECTIONS

MOBILE SUBSCRIBERS

MOBILE BROADBAND CONNECTIONS

LTE CONNECTIONS

Mobile in 2017

MOBILE CONNECTIONS

MOBILE SUBSCRIBERS

MOBILE BROADBAND CONNECTIONS

LTE CONNECTIONS



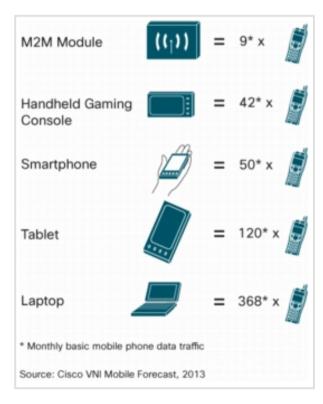
### Industry around us

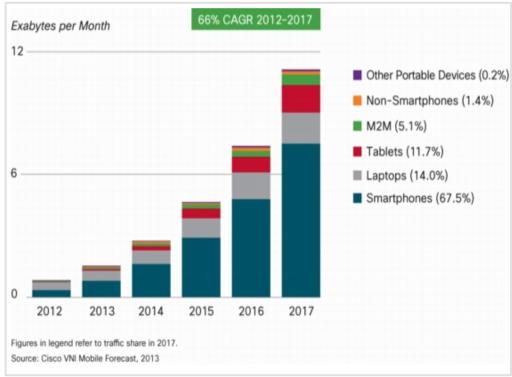
- Network Landscape
  - Last year's mobile data traffic was nearly twelve times the size of the entire global Internet in 2000.
  - Mobile network connection speeds more than doubled in 2012.
  - In 2012, a fourth-generation (4G) connection generated 19 times more traffic on average than a non-4G connection.



### 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.







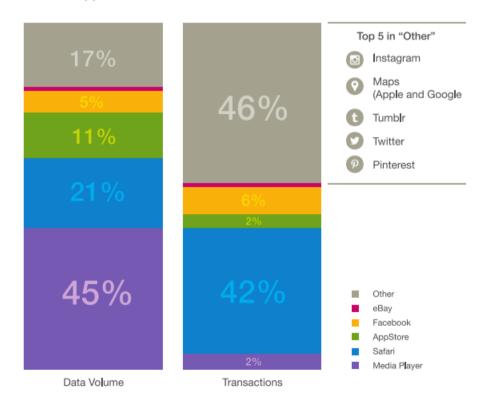
# Challenges Network Design and Development Future Plans



### 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

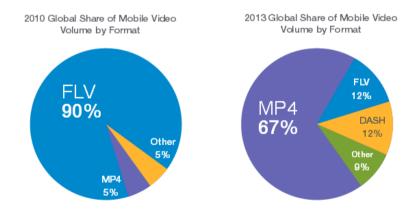




### Network Design and Developments

- 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



<sup>\*</sup> 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.





## Vinaka

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