

# Enabling 4G Mobile Backhaul without Breaking the Bank



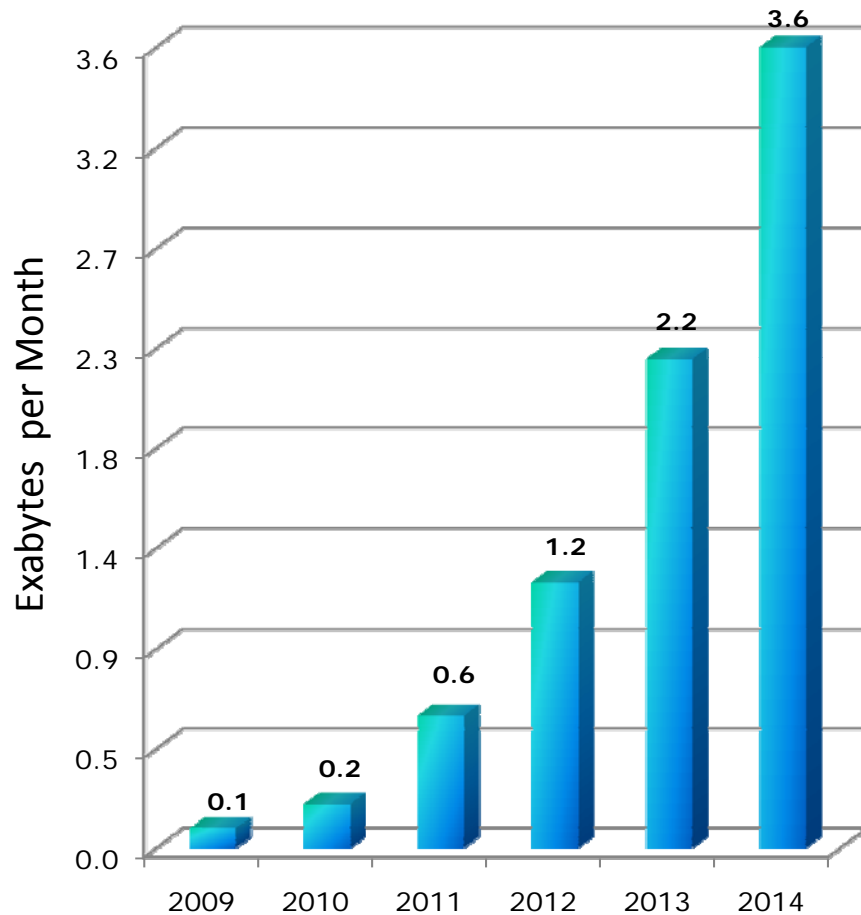
**BridgeWave**  
COMMUNICATIONS

***Backhaul Evolved™***

TiE SV

June 24, 2010

# Growth of Mobile Infrastructure

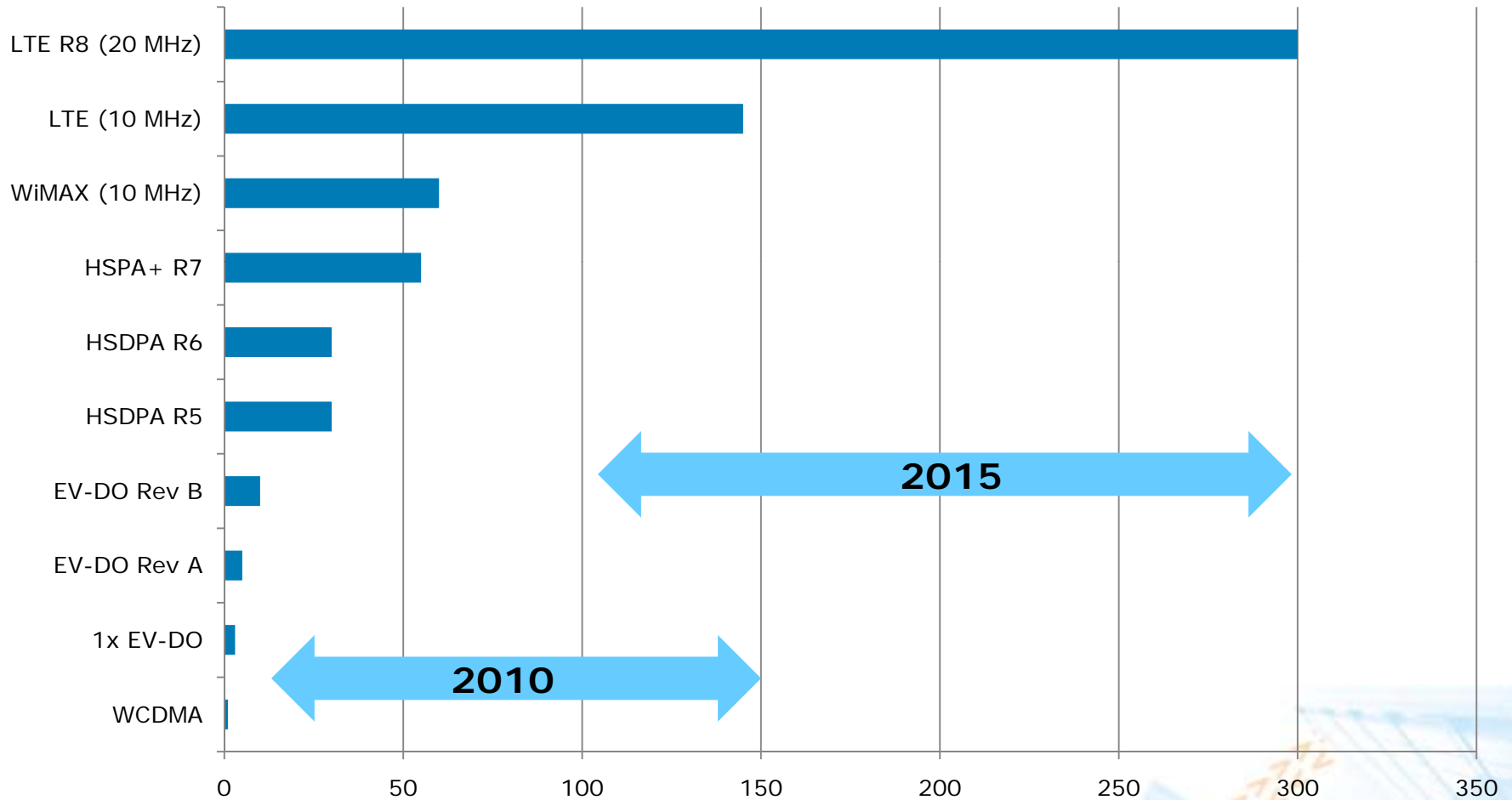


Source:  
Cisco Systems, Global IP Traffic Forecast and Methodology, 2009-2014,  
Feb 2010

Values in Exabytes per Month

- ❖ Mobile traffic will double every year thru 2014, increasing 39x between 2009 – 2014 (CAGR of 108%)
- ❖ Almost 66% of mobile traffic will be video by 2014
- ❖ Wireless backhaul links becoming bottleneck
- ❖ How do you *future-proof* the backhaul portion without breaking the bank?

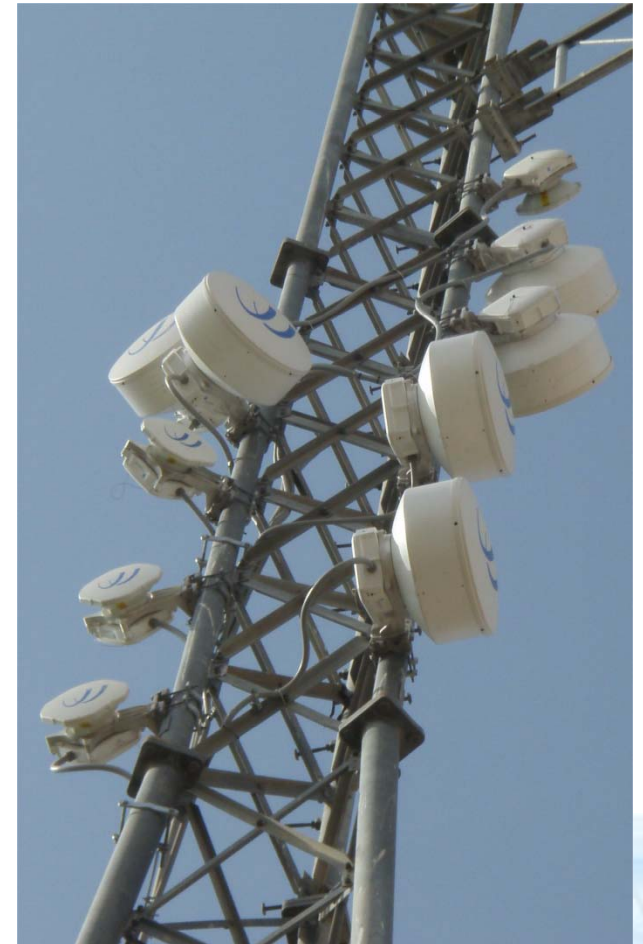
# Theoretical Maximum Backhaul Bandwidth by Technology



Source:  
Ovum "Fiber isn't Everything, Microwave's Critical Role in North American Backhaul, March 2010"

# Why GigE Links for 4G Backhaul?

- ❖ **80 GHz preferred solution for dense urban backhaul**
  - ❖ Base Station Rates: 500+ Mbps
  - ❖ Distances: 1 – 3km
  
- ❖ **WW adoption of 80 GHz Spectrum 2009 - 2010**
  - ❖ Initially approved in US, UK & other countries
  - ❖ No spectrum conflict with other applications
  - ❖ ETSI approved, in process of country regulator approval
  
- ❖ **Technology ready for prime-time in 2010**



- ❖ **High Capacity millimeter wave radio system optimized for next gen mobile backhaul**
- ❖ **Data Rates up to 1.2 Gbps**
- ❖ **Tunable RF channels**
- ❖ **Spectrally efficient**
- ❖ **Multiple Protocols**
  - ❖ Ethernet
  - ❖ SONET/SDH
- ❖ **Carrier Class Ethernet**
  - ❖ Advanced QoS
  - ❖ Ethernet OAM
- ❖ **Compact all ODU design**



# About BridgeWave

- ❖ **Founded in 1999**
- ❖ **Personnel: 90**
- ❖ **The market leader in GigE wireless transport**
- ❖ **Specializing in 60-90 GHz**
- ❖ **Over 8,000 gigabit radios sold and deployed in over 30 countries**
- ❖ **70% of all 2010 U.S. registrations**
  - ❖ 78% of all OFCOM (UK)



Corporate Headquarters: Santa Clara, CA



ISO 9001:2008  
PM 58394





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# Thank You

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