Enabling 4G Mobile Backhaul without Breaking the Bank
Growth of Mobile Infrastructure

- 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?

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

Values in Exabytes per Month
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**
FlexPort Platform

- 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)

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Thank You

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