



AMERICA'S 'ALL ACCESS' NETWORK™

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**Broadband Expo 2010  
Backhaul Design & Operation**

**Hunter Newby, CEO**



# What is Mobile?

- Mobile – cell phones, wireless phones, PDA's, iPads, tablets, etc – LTE, mobile WiMax, 3G
- Wireless – could also be mobile, but is also microwave – WiMax, etc – for transport
- Mobile Backhaul – can be microwave wireless, or fixed line (fiber)
- Either way, mobile data rates demand multi-megabit transport from towers

# Fiber To The Tower High (low) lights

- Fiber reaches less than 16% of the more than 250,000 cell towers in North America
- Those towers are growing at an average rate of about 18,000 per year
  - New Paradigm Resources Group

# Mobile Operator Fiber-Based Claims / Dreams

- Verizon has committed to deploying fiber Ethernet to 90% of the cell sites in its territory by the end of 2013
- Verizon has connected more than 1000 cell sites with fiber Ethernet services – as of Q409 (VZ has 23,000 total cell sites as of Q409)
- In 3Q09, AT&T Mobility indicated that it deployed 100,000 additional cellular backhaul circuits to deal with the increased mobile data usage pressure on its network

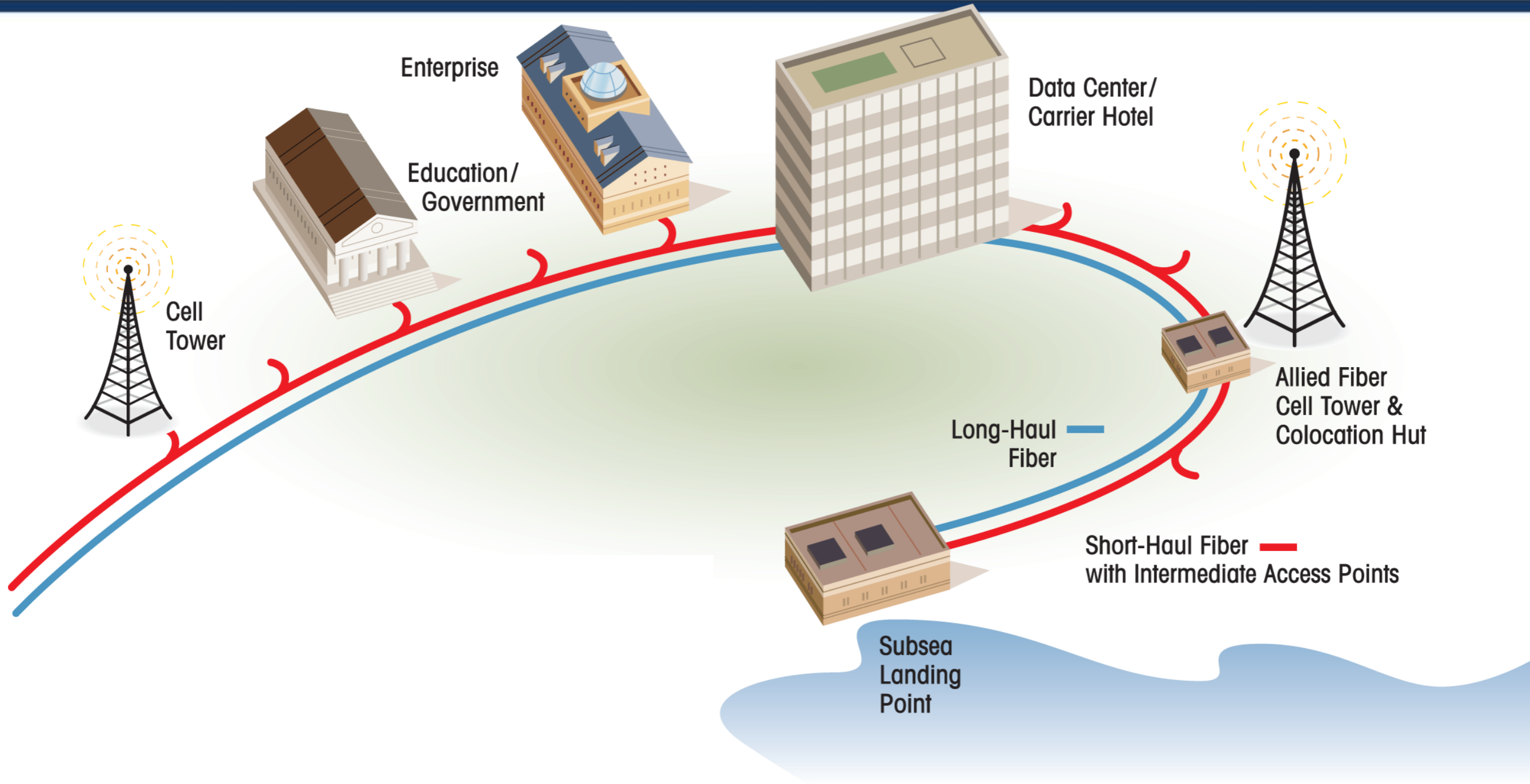
- Atlantic ACM



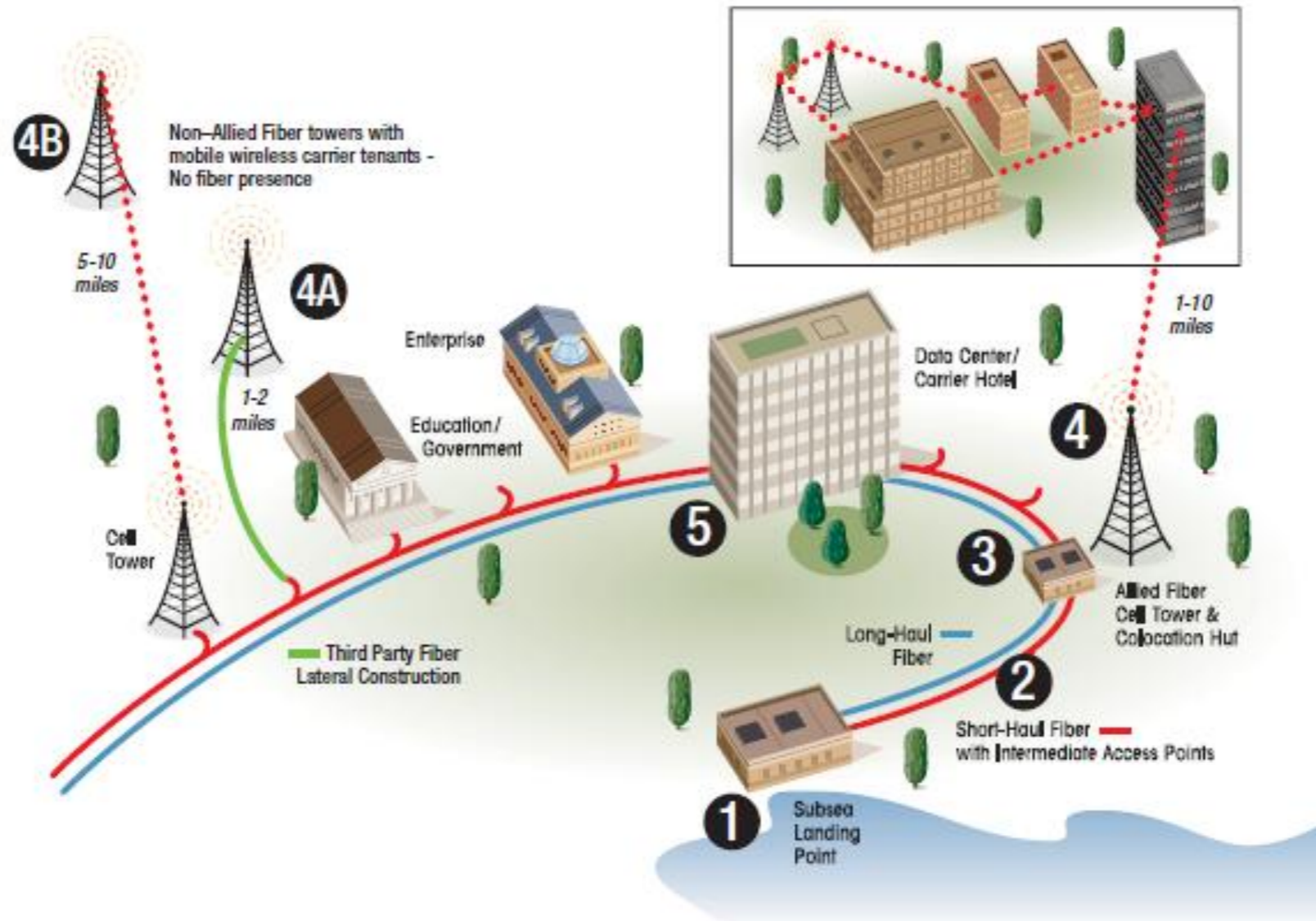
# Industry Projections

- Cisco indicates that North American Mobile Data Traffic will grow by a CAGR of 129 percent from 2008 to 2013
- Oppenheimer estimates that the number of cell sites in the U.S. will grow by a CAGR of 4.9 percent from 2008 to 2012 — (from 250,000)
- Bottom Line – EVERYTHING IS EXPANDING
- There needs to be a real network plan to meet demand

# An Open Network Philosophy



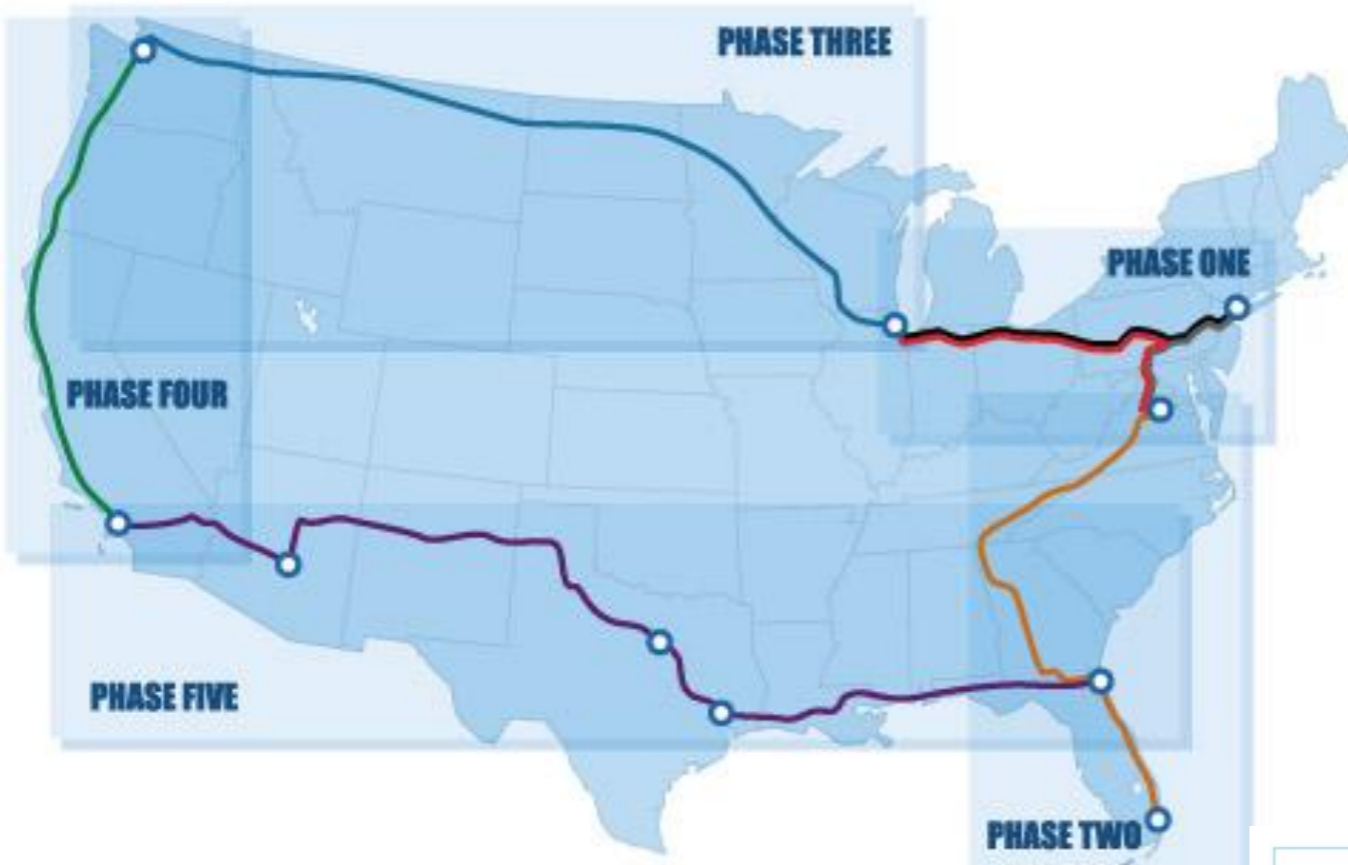
# A Solution Wireless Backhaul



- ❶ Subsea Landing Point
- ❷ Dual Fiber Ducts
- ❸ Allied Fiber Colocation
- ❹ Allied Fiber Cell Towers

- ❹A Third Party Towers with New Third Party Fiber Lateral Construction
- ❹B Third Party Towers with Third Party Microwave Backhaul (*No fiber presence*)
- ❺ Data Center/Carrier Hotel

# Allied Fiber Network Map



## PROPOSED ALLIED FIBER ROUTES & ESTIMATED OPTICAL MILES

### PHASE ONE

- NEW YORK CITY, NY TO CHICAGO, IL  
OPTICAL MILES (EST.): 998
- NEW YORK CITY, NY TO ASHBURN, VA  
OPTICAL MILES (EST.): 386
- CHICAGO, IL TO ASHBURN, VA  
OPTICAL MILES (EST.): 1,005

### PHASE TWO

- ASHBURN, VA TO MIAMI, FL  
OPTICAL MILES (EST.): 1,596

### PHASE THREE

- CHICAGO, IL TO SEATTLE, WA  
OPTICAL MILES (EST.): 2,213

### PHASE FOUR

- SEATTLE, WA TO LOS ANGELES, CA

### PHASE FIVE

- LOS ANGELES, CA TO PHOENIX, AZ
- PHOENIX, AZ TO DALLAS, TX
- DALLAS, TX TO HOUSTON, TX
- HOUSTON, TX TO JACKSONVILLE, FL



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**Thank You**

**Any Questions?**

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