Working with Verizon to deploy In-Building Wireless Systems at you Venue

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We are on the cusp of an evolution in DAS deployments.



Why In-Building?

Wireless Live style

- The 4th Utility?
- Necessity
- Customers



Why are we interested in In-Building?

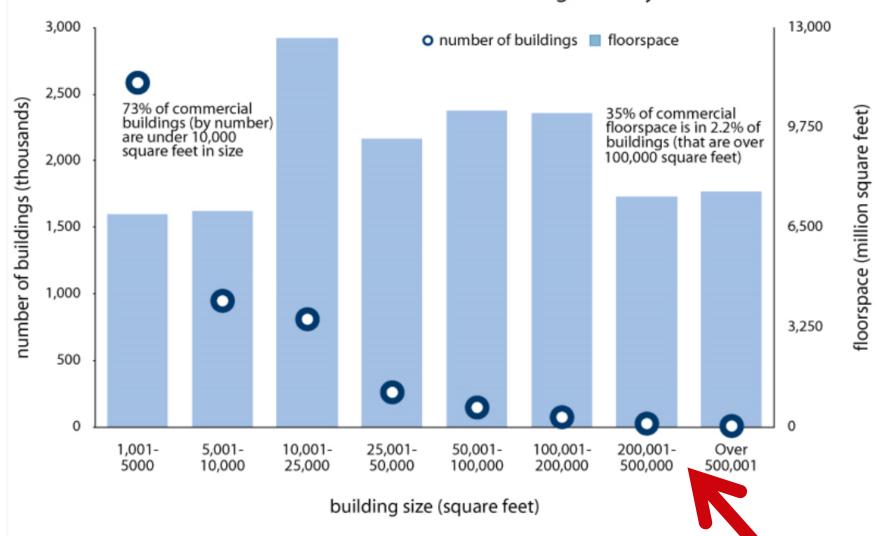
- Where consumers and traffic are
 - 80% of wireless data consumed indoors ¹
- Best" technical solution
 - Spectral efficiency
- Commercial Building Sizes

source: ¹ Amdocs, State of the RAN, 2015



Commercial Building Sizes

Distribution of U.S. commercial building stock by size



Current In-Building and DAS Deployment

- Large Venues (Convention Centers, Airports, Stadiums)
- Corporate Buildings
- Smaller Buildings, limited



Issues with DAS

So what's the problem?

"Traditional" DAS systems are expensive

- Hardware and install labor
- Complicated
- Slow



Low ROI

Unsustainable



Low-Cost DAS Evolution

Leverage existing technology

Low-Cost DAS Evolution

Enterprise Femto units

Enterprise-RAN Systems

WiFi architecture, CAT5 cable based



Business Model Evolution

Business Model Evolution

Traditional:

VZW owned, VZW Managed

Future:

A mixed bag of ownership and management options



The Way Forward

- Building Owners: changing views on wireless
- OEM's: develop lower cost equipment, get out of Neutral Host DAS mindset
- Service Installers: utilize these new products in your designs



Thank you.