

In-Building Wireless Market Perspectives



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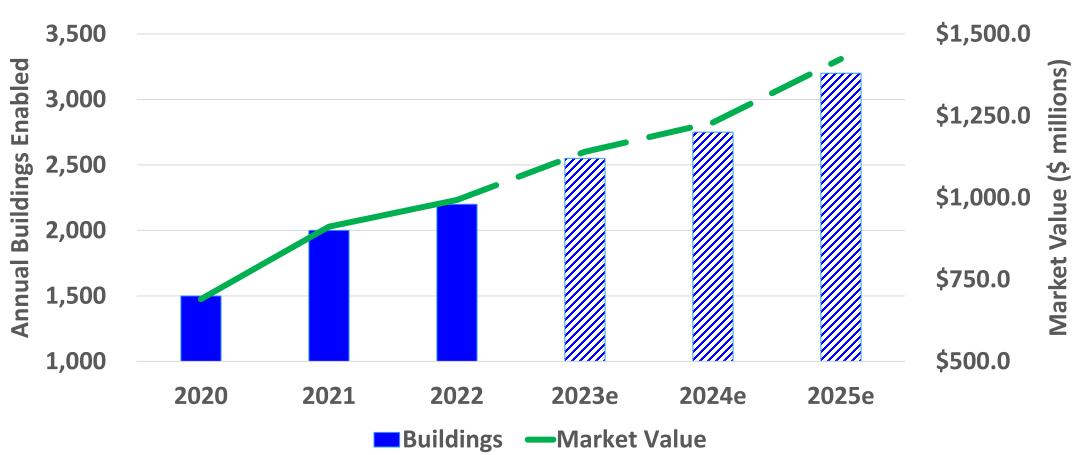
- Author, market analyst, consultant, engineer, telecom M&A advisor
- Years of telecom engineering and business experience
- Work with service providers, telecom equipment manufacturers, wireless equipment distributors (TESSCO)
- Covers issues and trends in wireless and wireline infrastructure markets







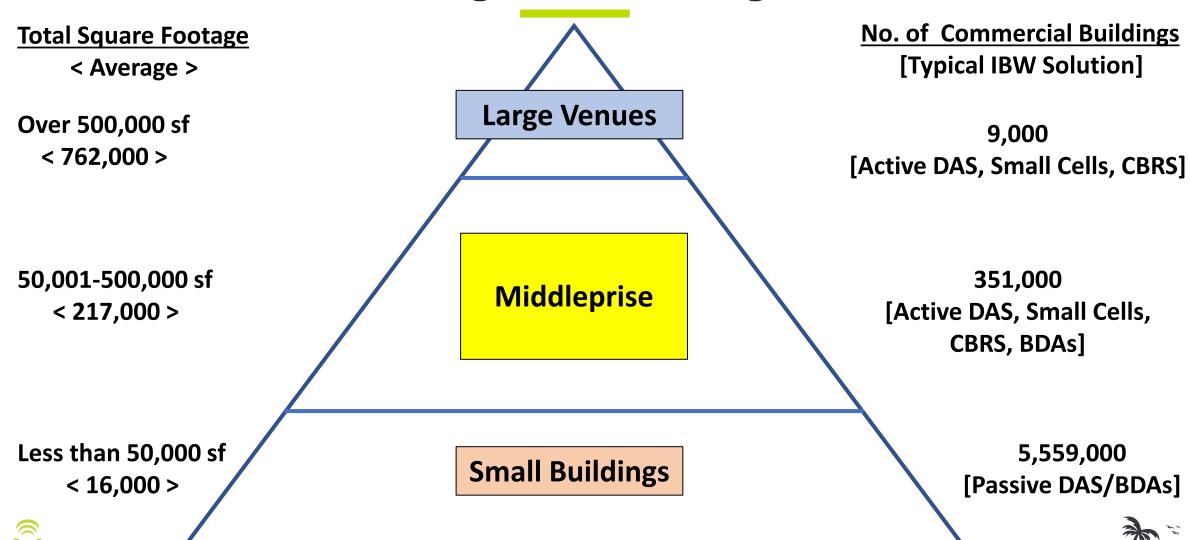
U.S. IBW Middleprise Market, 2020-2025e







U.S. In-Building Wireless Target Market



Source: EIA CBECS 2018 (revised 12/2022) Survey; Inside Towers Intelligence™ estimates

In-Building Wireless – The Good, the Bad & The Ugly

Positives

- 80% of all wireless calls originate or terminate in buildings
- Lots of buildings = opportunity
- Lots of wireless infrastructure

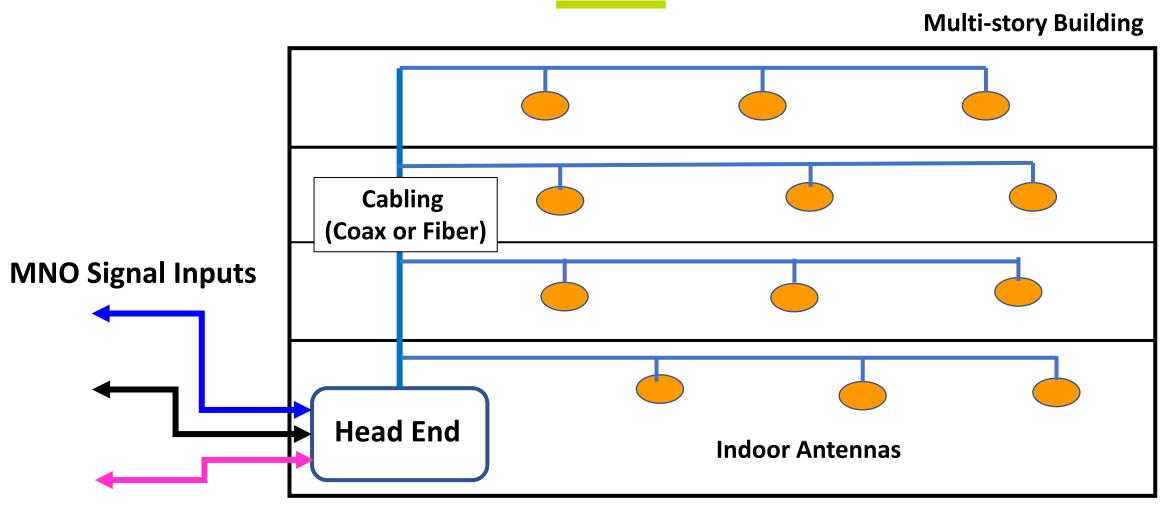
Challenges

- Building construction steel, concrete,
 Low-E glass block wireless signals
- Every building is different
- Who owns & operates?
- Public safety comm specs differ from commercial wireless
- Every AHJ has its own rules
- Lots of supply chain competition



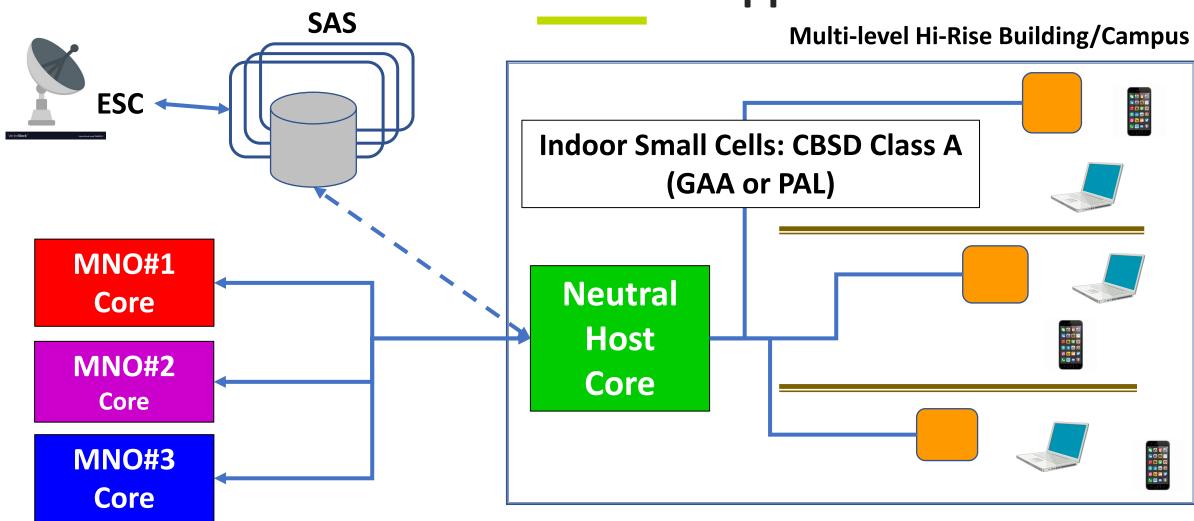


Classic Distributed Antenna System



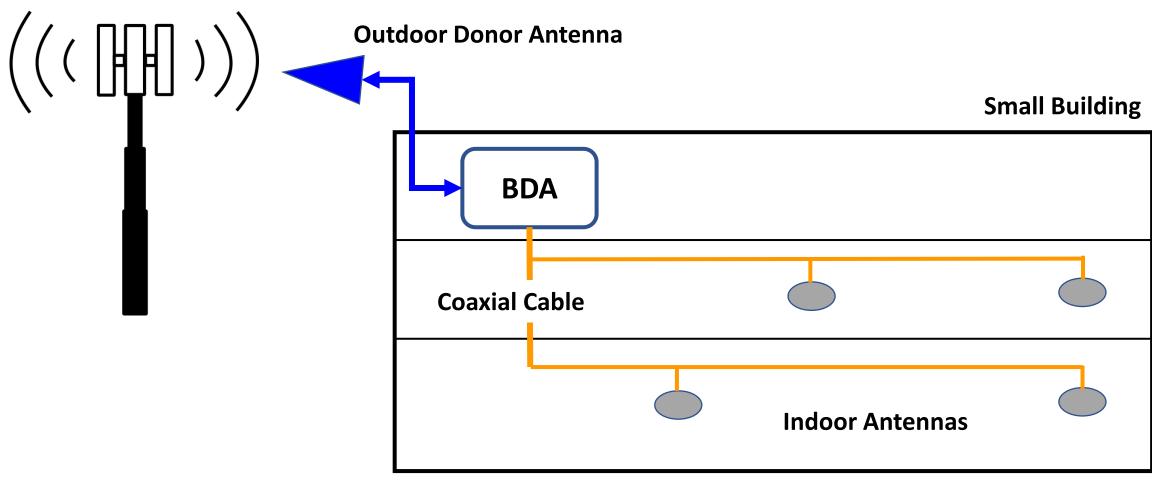


CBRS Neutral Host IBW Application



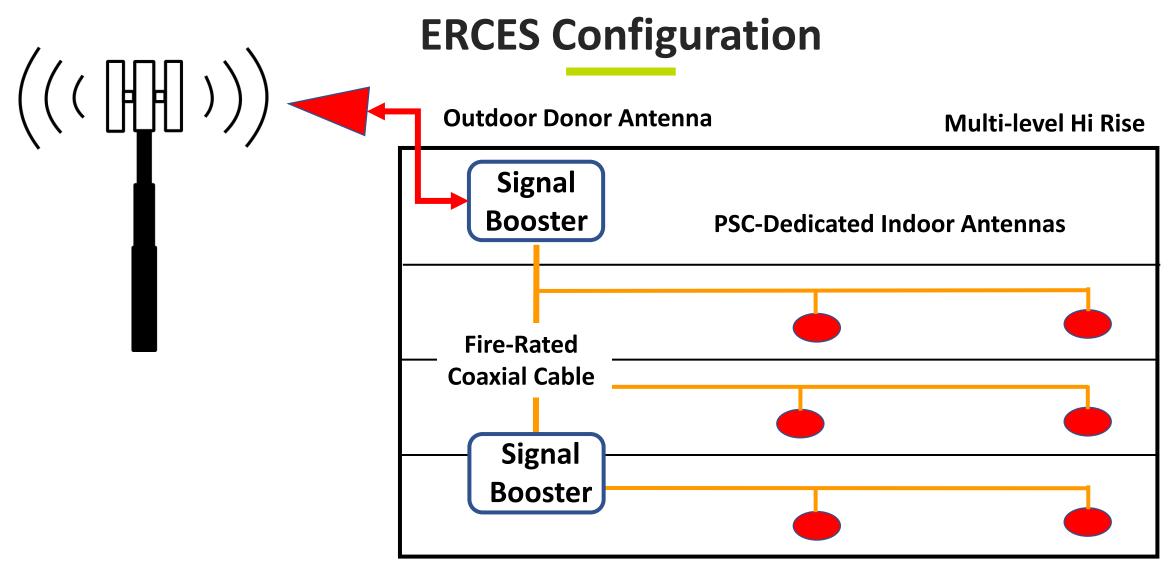


Bi-Directional Amplifier/Passive DAS Configuration





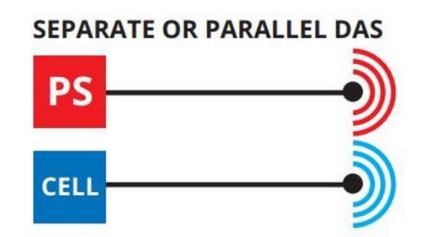


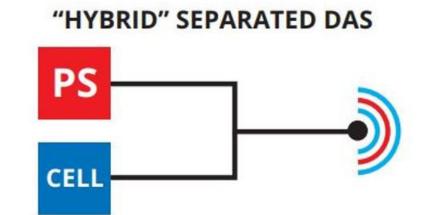


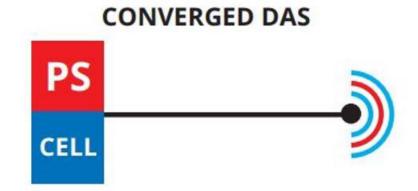




Cellular-Public Safety Hybrid IBW Configurations

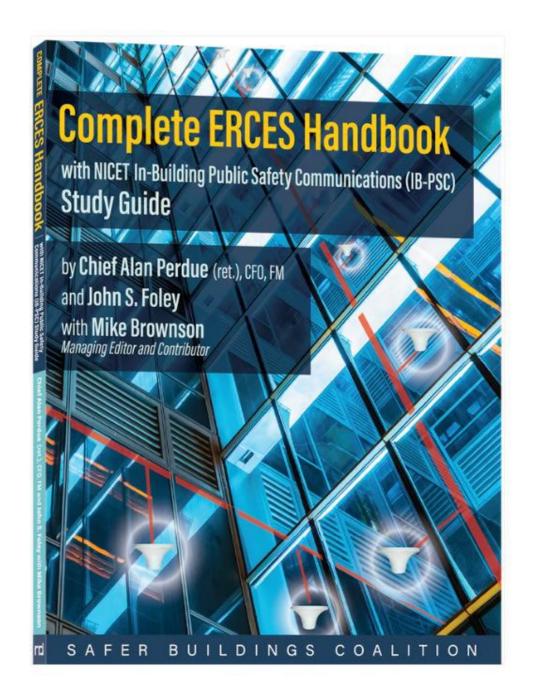
















Strategic Considerations

- High-value System Sales BOM Creation & Management, Technical/Logistics Service & Support
- Bread & Butter Component Sales Availability and Price
- Vendor Partnerships need to create "suction on the channel" via product use case/application promotion; Sales fulfilled through a distributor
- Systems Integrator, Neutral Host collaboration product and technical training/support
- Educate the marketplace venue/building owners, municipalities/AHJs, systems integrators/neutral hosts







THANK YOU

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