OSP Fiber Infrastructure for the *Not in my Backyard* Communities

Broadband Communities Webinar

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Urban Environments – Final Frontier for FTTH
Above/Below Ground FTTH Overview
Limited Real Estate for Future Technology

No space on poles and strands for future upgrades!
Dangerous, Difficult & Negative Visual Impact
Above Ground Construction Challenges

- Historically larger, heavier equipment to install
- Multiple installers and road/lane closures are necessary
- Bulky equipment not appreciated in neighborhoods
Above Ground Infrastructure: Susceptible to Damage!

- Graffiti
- Vandalism
- Damage from Vehicles
- Susceptible to rodents
Weather Can Devastate FTTH Infrastructure

Hurricane Sandy
Right of Way & Construction Permits

Can be costly and hamper speed of construction!
Developing Good FTTH Infrastructure is Critical for Cities Future Development

PROMOTE SUSTAINABLE GROWTH WITH INNOVATION & INTEGRATION OF CRITICAL SYSTEMS

BY INTERACTION OF PEOPLE, INFORMATION, TECHNOLOGY, and ENVIRONMENT
Commscope FDH 4000 (Sealed & Underground Application)

- Splitters
- Feeder Ports
- Distribution Ports
- Parking Lot
Underground: Leveraging Sealed Fiber Equipment

An environmentally sealed FDH can perform reliably while immersed in mud and sewage waters for many years.

Inside is clean and dry.

Mud and sewage waters confined to the outside.
Right Sized FTTH Solutions Offer Flexibility and Ease of Installation

- or -

Closures or sealed FDH’s are smaller and easier to transport and install
The Game is Changing: Above Ground / Aerial Installations Shifting to Underground/Buried

Visually Obtrusive

Out of sight, out of mind!
Example of an Above Ground FDH to Serve Subscribers

- **Feeder cable stub**
- **Factory pre installed**
- **Fibers**
- **Factory pre-installed**
- **From CO, HE, or DC**
- **Feeder cable to Next FDH**
- **Fiber cable to distribution for subscribers**
Example of an Underground FDH to Serve Subscribers
Underground Architecture Is Key to Connecting City Verticals for High Speed Broadband Networks
**Conclusions**

**Best available technologies for underground FTTH deployments**

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Thank You

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