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Technology Summit 2019



MICROTRENCHING



Chris Levendos

Crown Castle

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Technology
Summit








Mobile broadband – 5G & Microtrenching

Chris Levendos - VP Network Engineering & Operations

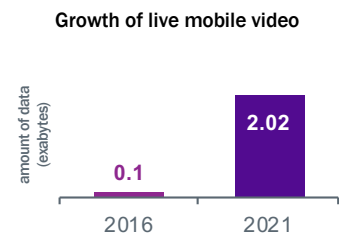
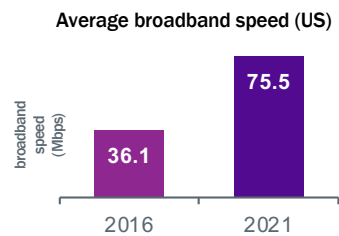
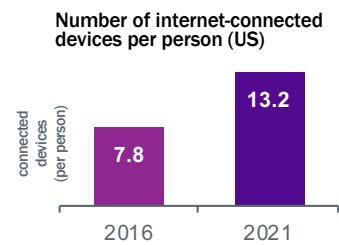
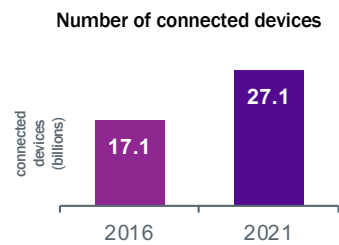
May 1, 2019

The pathway to possible.

Mobile Broadband is Transforming the Way People Live, Work, & Experience the World

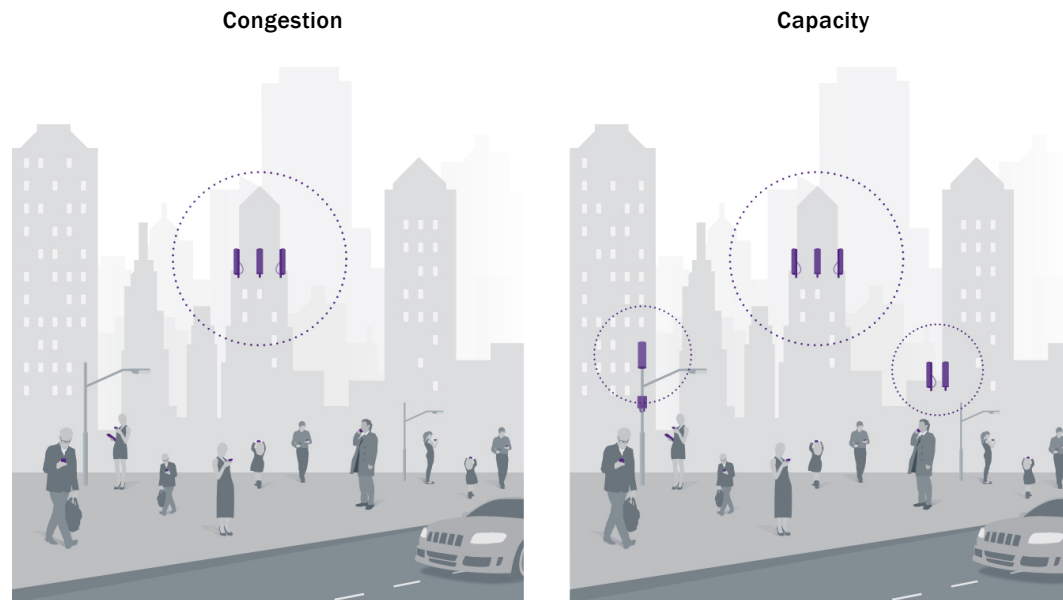
1G	2G	3G	4G	5G
2 Kb/s	64 Kb/s	2 Mb/s	200 Mb/s	> 1Gp/s
Mobile Telephone	Digital Voice, Short Message	Text, Internet	Live Streaming	Internet of Things, Smart Cities
				

New technologies are driving greater data demand and usage



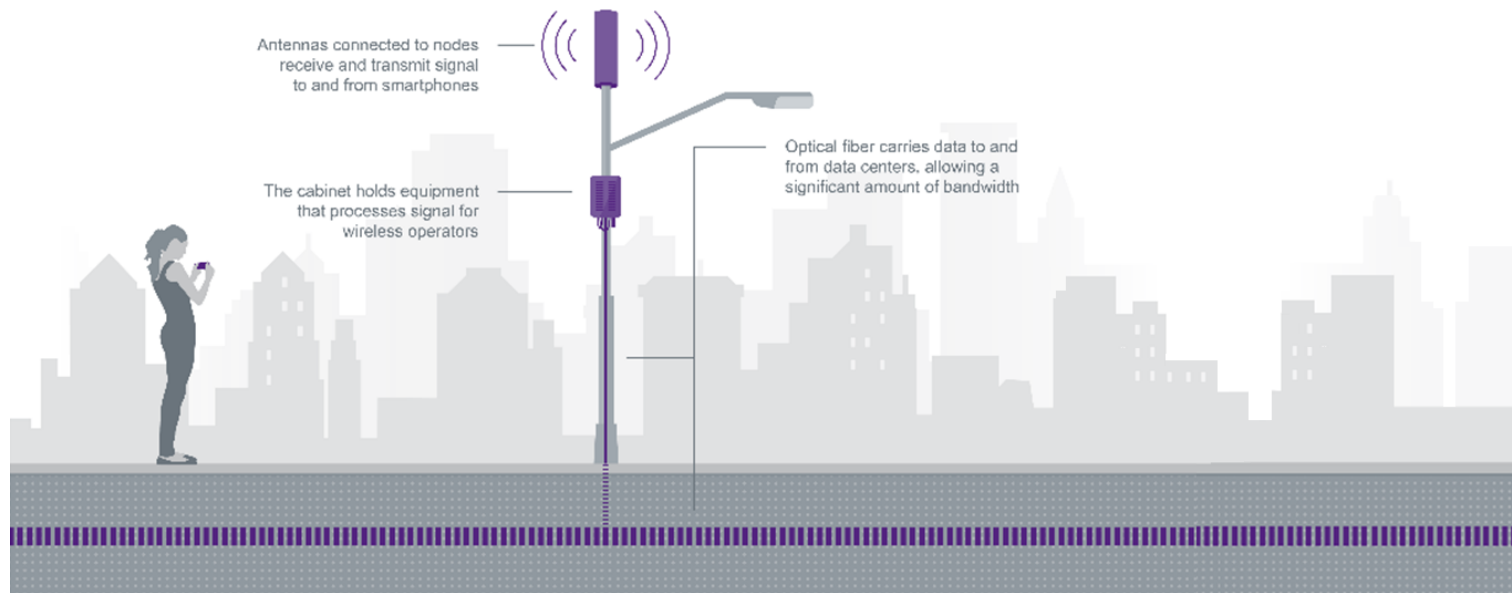
Source: Visual Networking Index, Cisco, June 2017.

Maintaining coverage requires more infrastructure



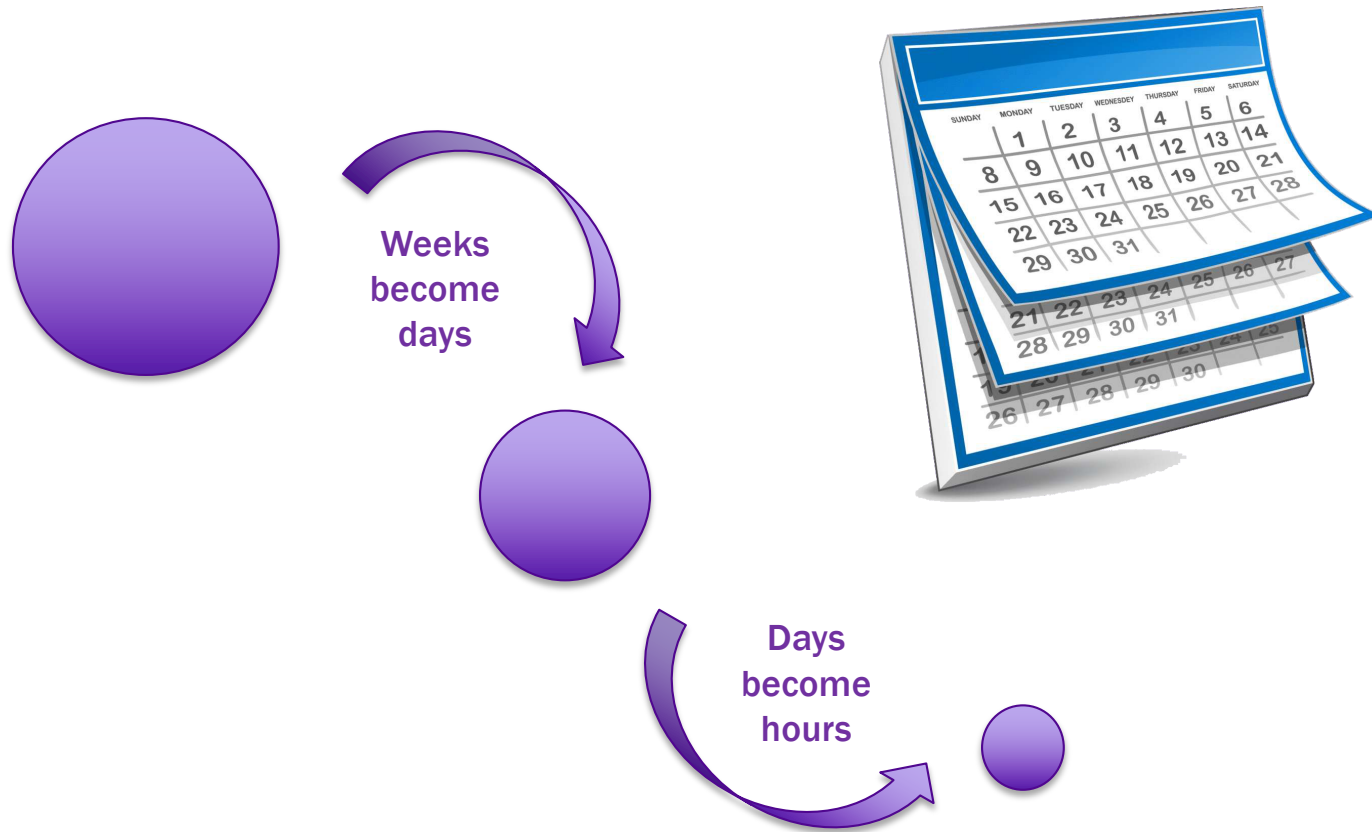
Fiber, Small Cells and Macro Cells/Towers are the Infrastructure Behind the Worlds Most Revolutionary Technologies

Small cell solutions are a complement to macro cells that add much needed coverage and capacity to urban and residential areas, venues, and anywhere large crowds gather.



Time, Cost and Accomplishment

Time



Cost

\$\$\$  **\$\$**

\$ hundreds per foot to \$ tens per foot

Accomplishment: Widget



The Benefits of Microtrenching



Microtrenching Installation

The Microtrenching machine makes a thin straight line cut, and vacuums as it cuts, removing debris from the trench.



Conduits are then placed in the trench cut, with a tracer wire, backer rod and V Clip.



Boston



Boston



Chicago



Chicago



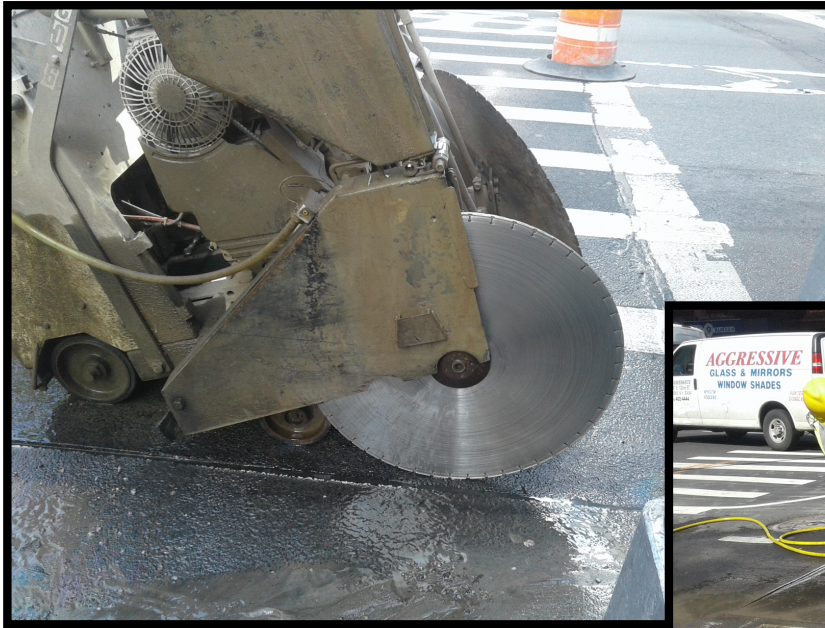
Los Angeles



Los Angeles



New York



New York



New York



Cities: Microtrenching to support leading edge 5G deployments.

- ✓ **Less disruptive deployment.**
- ✓ **Less traffic disruptions during deployment.**
- ✓ **Less noise, dirt and traffic during deployment.**
- ✓ **Trench repair almost un-noticeable**
- ✓ **Fewer complaints during deployment.**
- ✓ **Greatly reduced duration of construction.**

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