



PennDOT

Transportation Engineering & Safety Conference

December 8, 2017

About Mobilitie, LLC



Mobile data trends and demand drivers

**Smartphones
generate 102x more
data traffic**

PER MONTH THAN A BASIC HANDSET

500%

INCREASE EXPECTANCY OF
MOBILE DATA FROM 2016 TO 2021

NEW DEVICES

52.4 MILLION ADDED TO THE MOBILE NETWORK

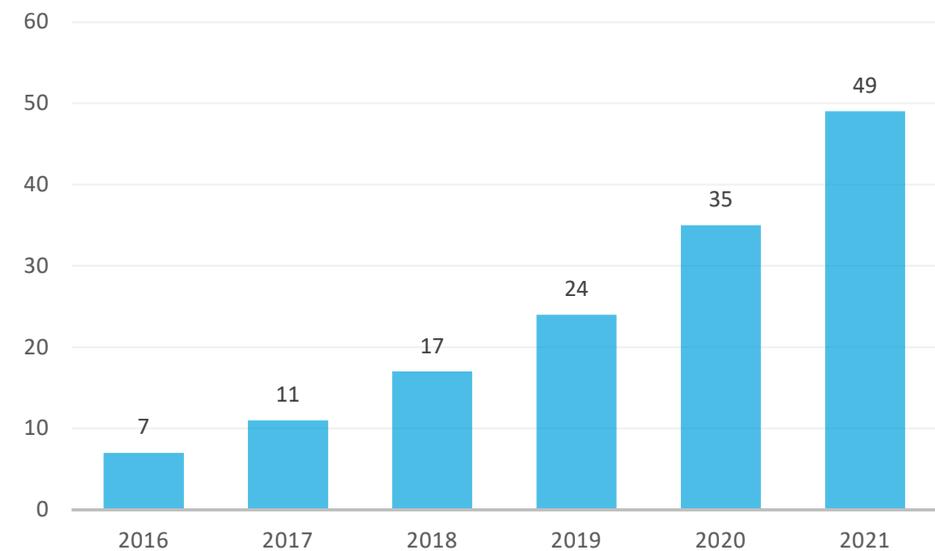
4.6 MILLION

CONNECTED WEARABLE DEVICES

64%

OF MOBILE DATA IS
VIDEO

MOBILE DATA TRAFFIC (EB/MONTH)



U.S. MOBILE DATA IN 2016

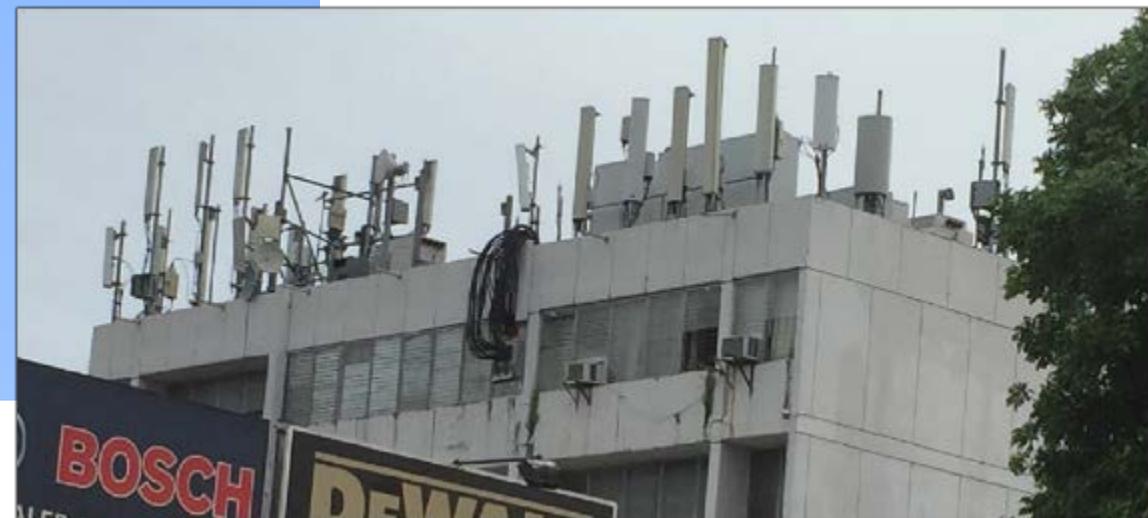
88%

OF THE POPULATION
ACCOUNTED FOR MOBILE
USAGE

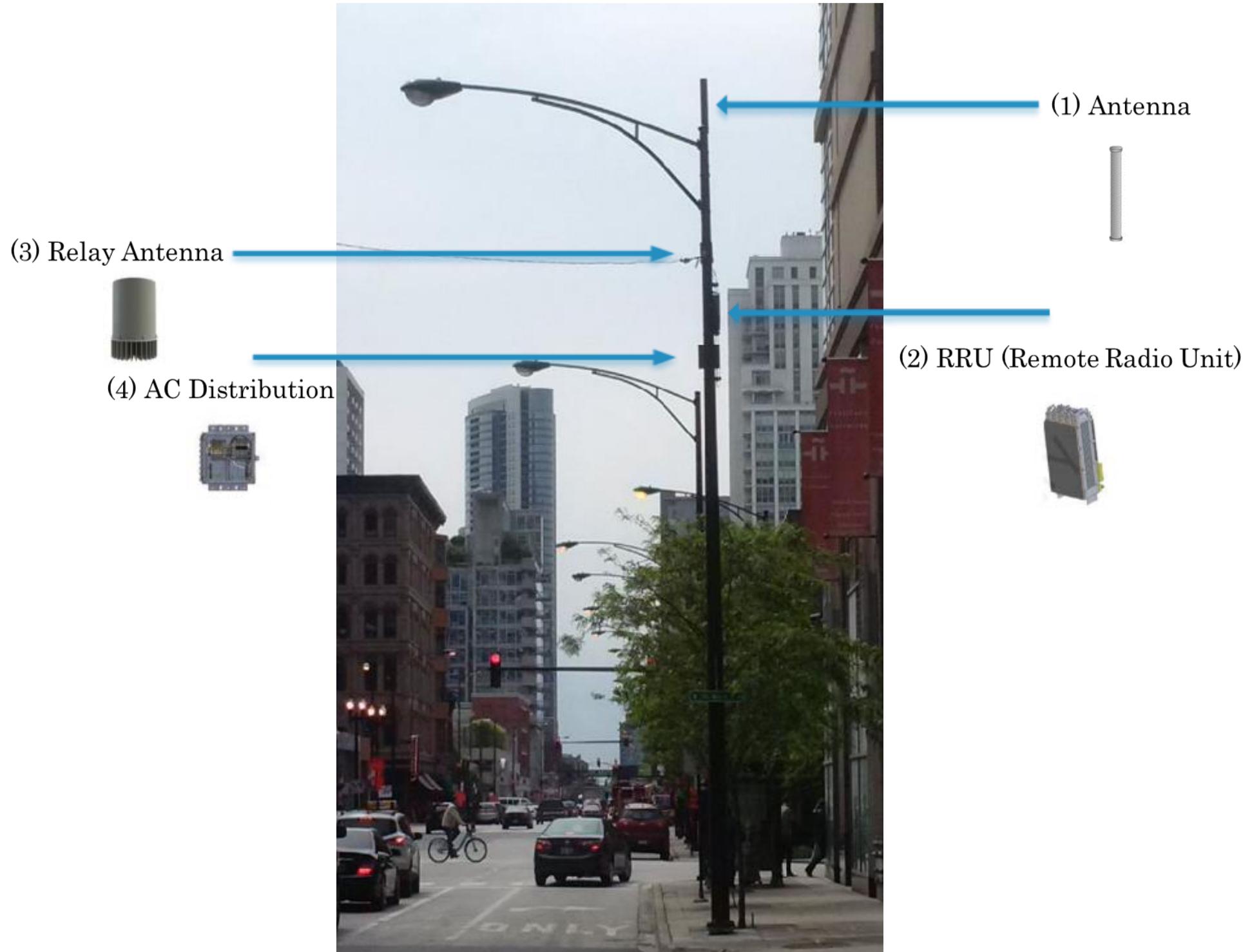
49%

OF THE HOUSEHOLDS
WERE WIRELESS ONLY

The traditional solution



Small cell facility installation



Street light attachment



Cabinetized shroud attachment



Concrete light pole attachment



Utility pole attachment



High density areas



High end commercial



Mobilitie siting policy

In general, Mobilitie's siting policy strives to conform the deployment of facilities as follows:

- First, identify attachments to City-owned infrastructure (including replacements) or a utility company's infrastructure, where available.
- When applicable, work with the City to determine an acceptable process to deploy any new poles where no suitable attachment candidate is available.
- Concentrate siting of any new poles within public rights-of-way in industrial and commercial areas, where possible.
- Seek to aesthetically blend with the surrounding area and match material, color, and structural standards to ease the design approval.

Utility partnerships

- First Energy & all Subsidiaries (WPP, PennElec & AEP)
- Duquesne Light Company
- Verizon
- Penn Power&Light



Pittsburgh



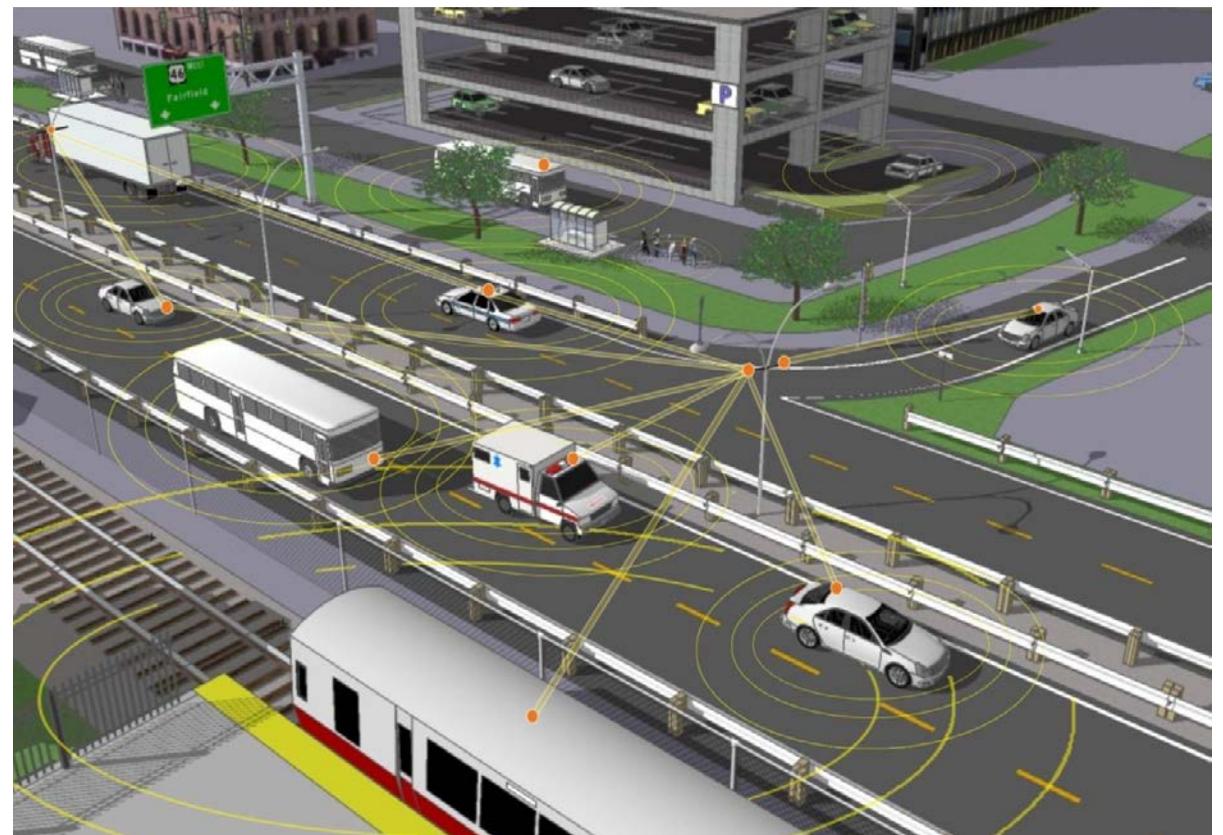
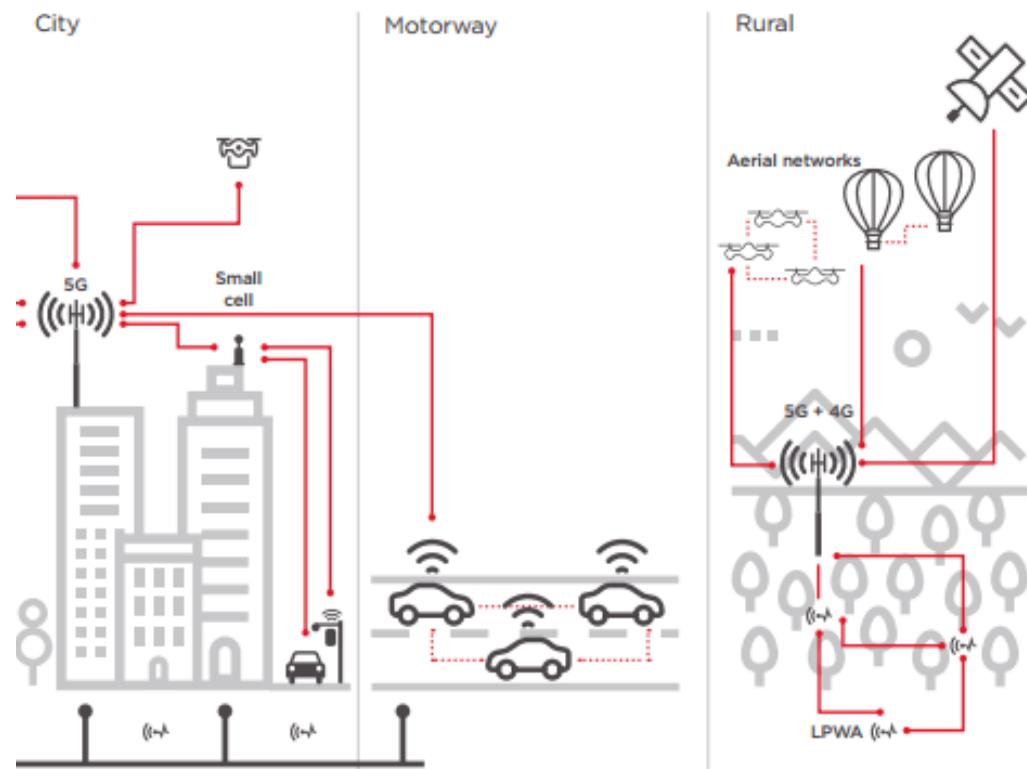
Mock installation



On-air installation

5G roads and highways connectivity

- Connectors and access ways from big cities to small towns and everywhere in between.
- Automated vehicles, road safety and traffic efficiency, digitalization of logistics and commercial transportation, etc.
- The industry, highway agencies, and municipalities must work together to deploy infrastructure and technologies that can be accessed and utilized.



DOT policy and procedure

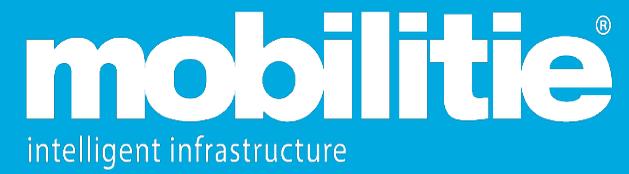
- Agreement – execution of a Master License Agreement, Franchise Agreement or Site License Agreement through Central office, District then provides additional approval.
- Central permitting process – Central office sets permitting process and distributes process to each district.
- Decentralized permitting process – each District has individual permitting process.
- AASHTO compliant.

PennDOT

- Central office sets policy, permitting through District offices.
- Submit our Highway Occupancy Permit applications through ePermitting database.



Thank you



WIRELESS COVERAGE SOLUTIONS