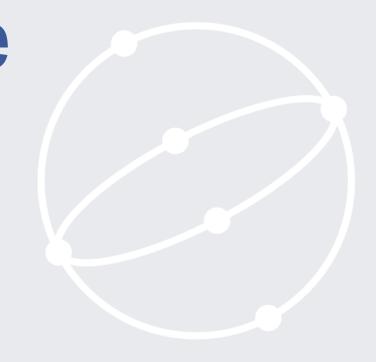
Terragraph Update

Yael Maguire

VP, Connectivity







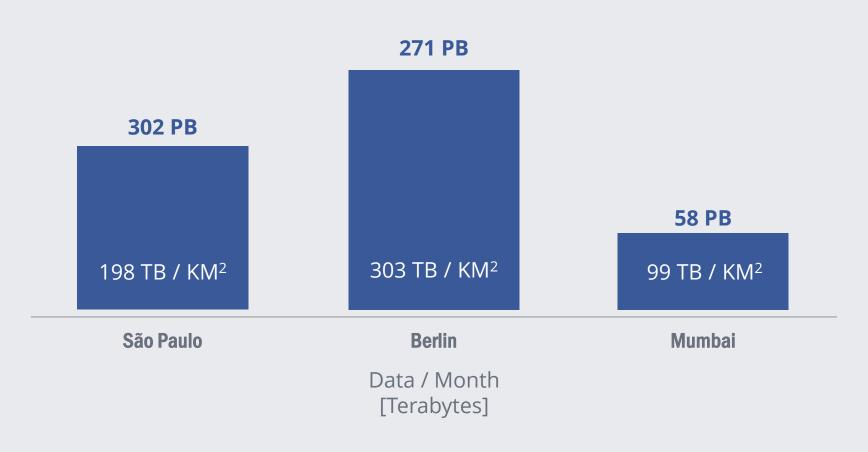






The Urban Density Challenge

2021 Data Consumption Forecast



The Gigabit Broadband Challenge

Optical Fiber Networks to the Edge

COST

LONGER TO DEPLOY

INFLE XIBLE

PERMITS

DAMAGED FIBER

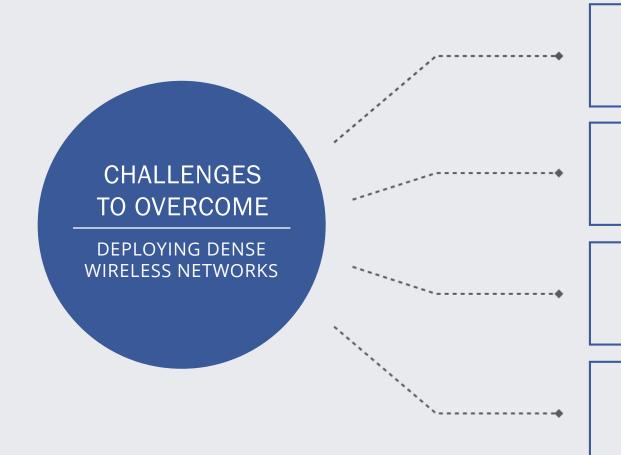
mmWave Wireless Networks

AFFO R DABLE

TIME TO MARKET ADVANTAGE

EASY TO DEPLOY AND MAINTAIN

The Path Forward for mmWave



INFRASTRUCTURE COSTS

COST OPTIMIZED HARDWARE OFF THE SHELF COMPONENTS

DEPLOYMENT EXPENSES

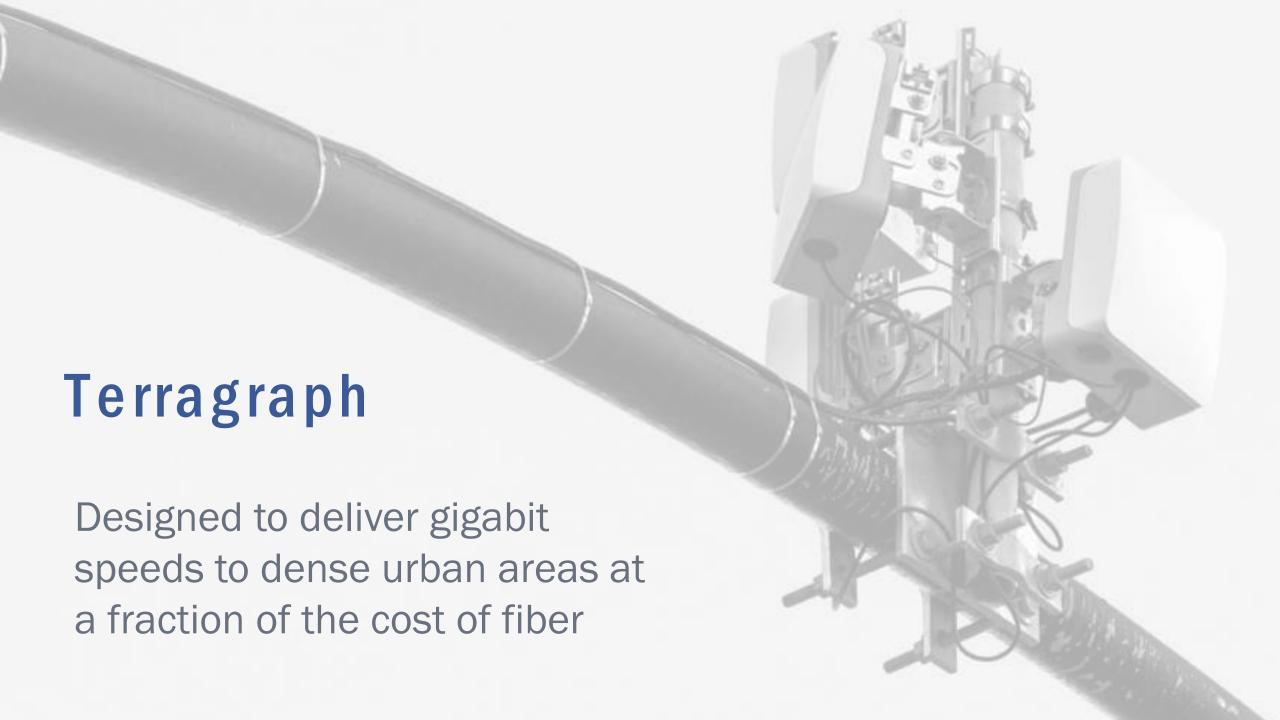
UTILIZE STREET FURNITURE

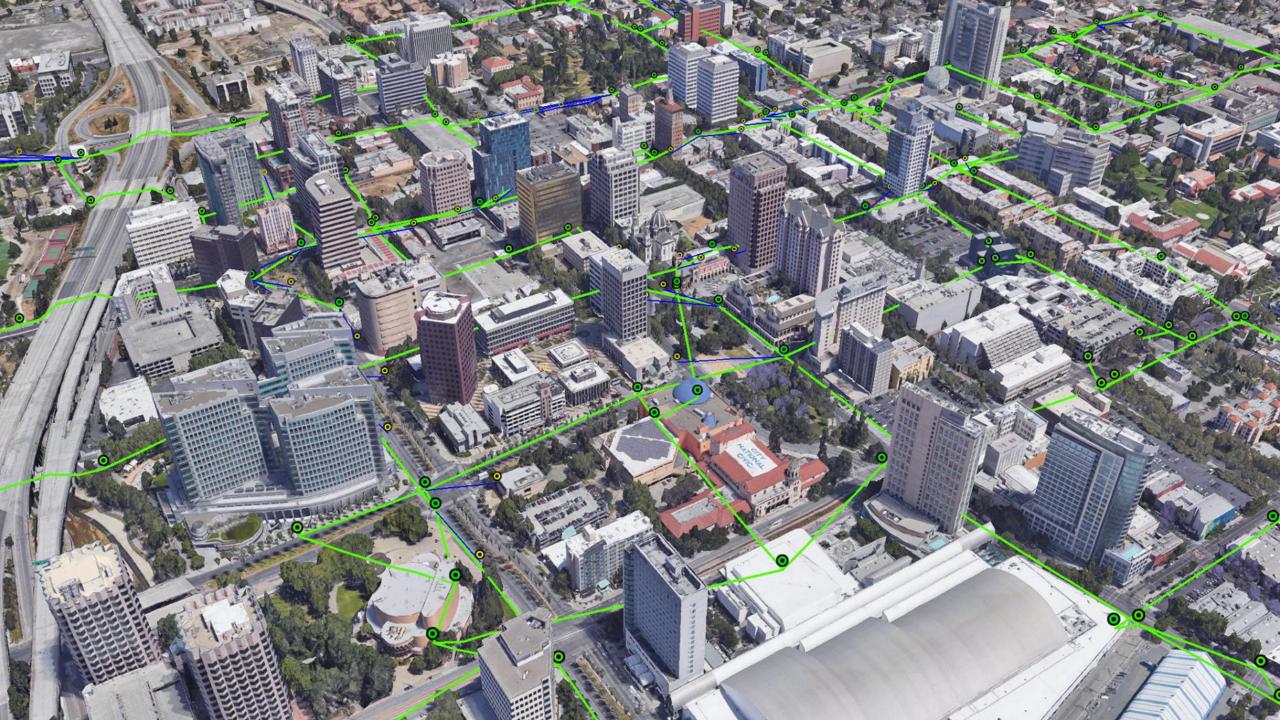
INSTALLATION

MINIATURIZE AND AUTOMATE

SPECTRUM COSTS

USE UNLICENSED OR LICENSED BANDS





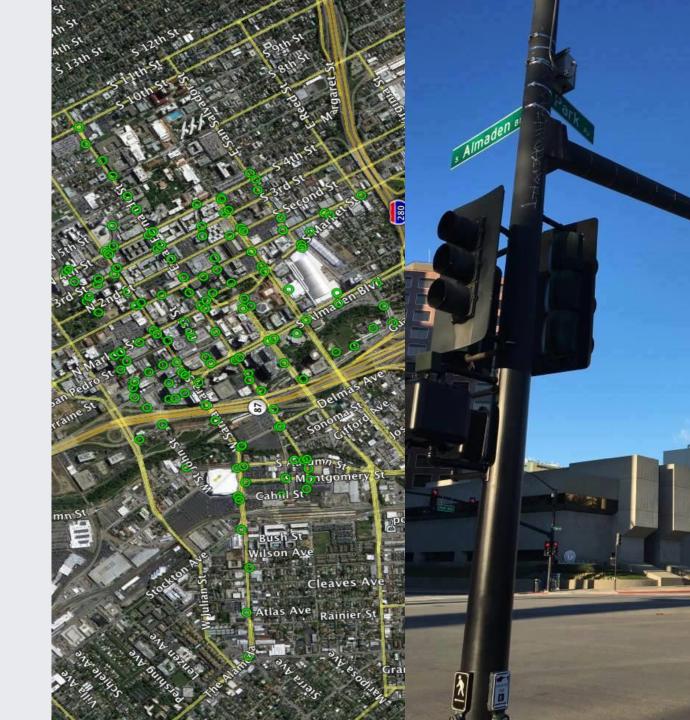
Project Status

Downtown Area Deployment

- Planned Deployment Complete
- Terragraph Engineering Validation Testing Complete
- City of San Jose end-user Wi-Fi testing underway

Next Steps

- Continuing Terragraph network testing and evaluating Wi-Fi experience
- Support the City of San Jose's efforts to develop a Public Wi-Fi Strategy





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