

A large crowd of people walking on a city street, with cars and traffic lights visible in the background. The image is dark and serves as a background for the text.

# Facebook Terragraph

**A Gigabit-Speed Distribution Network for  
High-Speed Wi-Fi**

# Update Topics

1. Background
2. Current Status
3. Lessons Learned
4. Next Steps
5. Q&A

# Downtown Deployment Area

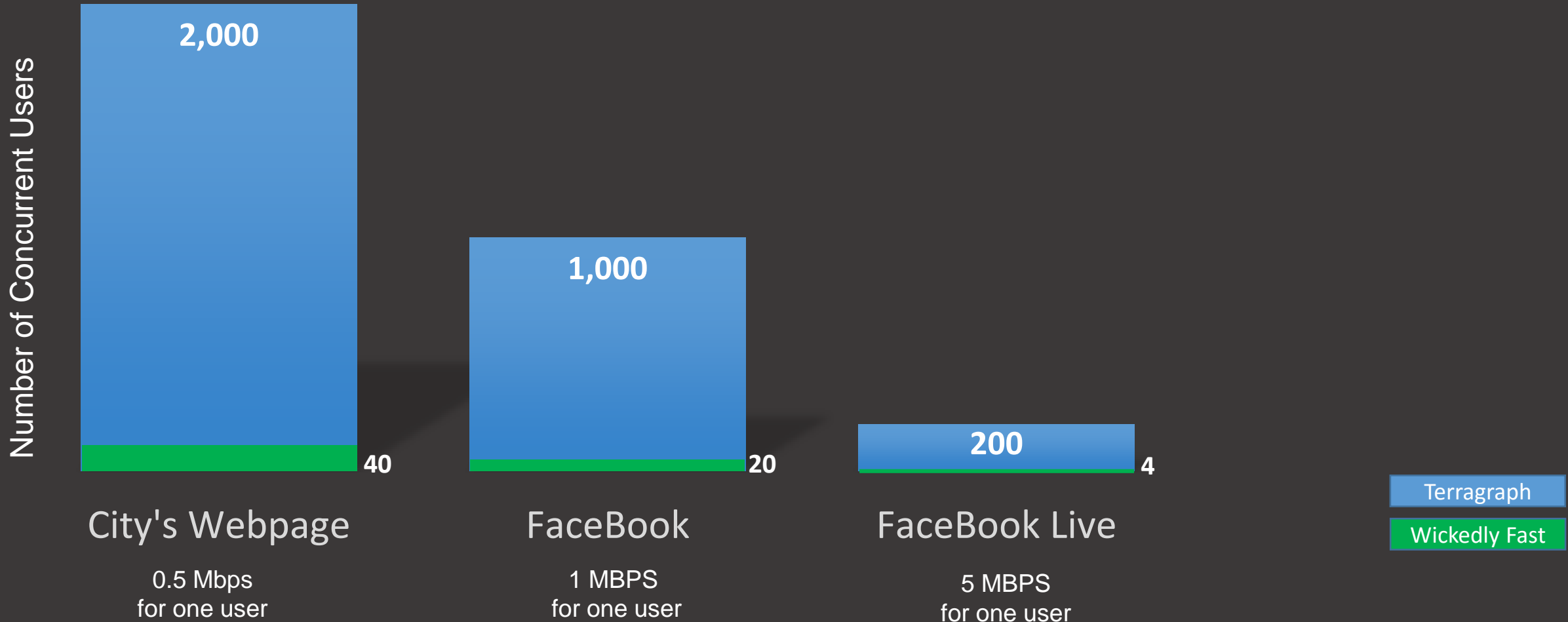


**City Hall**  
"You are Here"

**SAP  
CENTER**

**Convention  
Center**

# The Power of One Gigabit - 1,000 Mbps



# Current Status

1. Terragraph backhaul network performing well under current employee testing.
2. Current Demonstration Policy Agreement is being amended for a 12 month extension.
3. Facebook and the City have jointly agreed upon a series of major milestones to transition operations of Terragraph to a commercial operator and integrate Terragraph into our broader Community Wi-Fi (wireless) capability.

# Lessons Learned

1. Win/Win - When the City forms winning partnerships for innovation – people and processes get better internally and residents can benefit externally.
  - ✓ A streamlined permitting process in place is extremely important. The City now has a small cell team that streamlines permitting of telecommunications devices that require vertical infrastructure.
2. Wickedly Fast Wi-Fi is degrading rapidly – underlying funding model insufficient.
3. City Benchmarks - a good user experience with Community Wi-Fi requires significant network design, capital investment, and operations investment.
4. Downtown Wi-Fi survey – many important insights including the viability of web site advertising for funding.

# Next Steps

1. While employee testing continues, we have started our Community Wi-Fi Strategy project.
2. The Wi-Fi strategy includes:
  - Developing the appropriate scope of the City's future Community Wi-Fi capability;
  - Defining the business case for transitioning Community Wi-Fi operations
3. Evaluate broader connectivity needs, multiple services running over a City owned connectivity network, and the potential to improve the business case.
4. The goal is to fully transition, test, and deploy Community Wi-Fi including Terragraph to the public by Spring of 2020 with the following major milestones
  - Community Wi-Fi strategy and broader connectivity needs: Spring 2019
  - RFI for licensed operator: Summer 2019
  - Transition O&M to licensed operator: March 2020