



# Broadband/Smart City Ad -Hoc Committee Regular Meeting Minutes

March 30, 2023 at 10:00 a.m.

City Hall, Commission Chambers  
401 S. Park Avenue | Winter Park, Florida

## Present:

Chris Johnson, Janelle Ward, Paul Conway. James Everett. and Michael Poole. Staff: Director of Information Technology Parsram Rajaram; and Recording Secretary Kim Breland

## Also Present:

Magellan Consultants Courtney Violette, Mike Johnson, Al Kamuda and Matthew Southwell (in Person); Kelly De La Cruz and Greg Whelan (virtual).

### 1) Call to Order

Mr. Rajaram called the meeting to order at 10:03 a.m.

### 2) Consent Agenda

- a. Approve the minutes of the February 16, 2023, regular meeting.

Approved by consensus.

- b. Approve the minutes of the March 7, 2023, regular meeting.

Approved by consensus.

### 3) Public Comments (for items not on the agenda): Three minutes allowed for each speaker

### 4) Action Items

### 5) Non-Action Items

- a. Project update from Magellan consultants.

Mr. Violette introduced local project team members from GIS/Design and Wireless/Broadband divisions. Introduction of team He said the team is waiting on data sets from the city to add to the design to determine cost to build the network over what has already been funded. The team has performed wireless propagation for the water service territory to show what coverage looks like for the two primary wireless applications that would support smart cities and high-speed broadband such as video surveillance and track management.

Mr. Violette gave updates on the timeline, stakeholder outreach, "fiber to the home" design, wireless propagation and initial smart city findings. He added that the project is

still in the first two stages and the team has met with Lumen and Blue Star as well as other major vendors. He noted that Frog is the only vendor they have not met with at this time. Market Analysis will be delivered in April and the connectivity, business and financial plan will be delivered in May. Community outreach is expected to be held in the May/June timeframe.

Mr. Poole remarked that the city spends \$500,00 on home conduit and the city's budget process has already begun. He expressed the importance of having a recommendation on whether the city should continue to spend those funds should be included in the financial plan. Mr. Violette said those findings will be part of deliverable two with initial data in April and formal deliverable in May. He explained the process and variables for the financial plan and discussion followed.

Mr. Violette said the team met with city leadership, school agencies (Winter Park High School and Rollins College) the library, local businesses, nonprofits, and ISPs (Verizon, Lumen and Century Link).

Mr. Whelan summarized the market analysis and spoke about issues related to gigabit bandwidth and fiber for Spectrum, Lumen/CenturyLink, Bluewater and T-Mobile. He said Century Link/Lumen is committed to doing fiber and is working with BlueWater-Telecom for Winter Park construction. Two permits have been filed to add fiber to 900 homes in the city. In addition, they have an engineering design contract for another 8K homes. He spoke about the process Lumen will use to determine which homes will receive fiber based on their financial model. In response to questions, Mr. Violette noted the city's electric utility customers are identified through the data request for the electric meters. In-depth discussion followed on how the 8k customers will be identified and how fiber will be deployed in the project, and aspects of the "fiber to home" build-out process from Lumen and other vendors (Spectrum, Comcast).

Mr. Violette spoke about key assumptions for residential and business addresses within the city limits and presented a map highlighting commercial, and residential addresses. He said an estimated 275 miles of construction would be required to supply every household and premise in the city with fiber optic service and provided costs for construction, materials, labor, and design. In addition, he spoke about costs the city would need to fund outside of the construction cost. The plan will include a summarized capex table with costs for outside plant, design, permitting, equipment, facilities, etc.

Mr. Violette said the goal is to reduce this overall cost by adding conduit the city has deployed and plans to deploy which will generate a more accurate cost from an incremental perspective. Discussion followed on the process, cost/revenue components, and timeframe to complete the project.

Mr. Violette reviewed a map showing wireless propagations for LoRa (low-power, wide area networking protocol) and CBRS (Citizens Broadband Radio Service) LTE

## Regular Meeting of the Broadband/Smart City Ad-Hoc Committee

March 30, 2023

Page 3 of 3

Propagation. Discussion followed on the methodology used to create the propagation map, and benefits of using LoRa for lake water monitoring sensors and CBRS for surveillance cameras, and license plate readers as well as support for laptop and mobile devices.

Mr. Violette presented a slide on Smart City Project Matrix and spoke about data related to top noted use cases (smart city transportation, enhance public safety, smart utilities, and improved quality of life) and technologies supporting multiple use cases. (digital twin, 2-way citizen communication system, cameras, sensors, and drones) and discussion followed.

Mr. Violette summarized and said the team is waiting on data for underground available/spare conduit, and water, and electric meters. For stakeholder data, the only meetings left to conduct are with Frog and Summit Broadband. In-depth discussion followed on issues related to solutions for water meter coverage for all boundaries, design map data, what areas of the city to build out, time frame/cost to build the network, and topics related to undergrounding fiber by the city and other providers.

The committee discussed the meeting schedule for the April and May meetings. The next committee meetings are scheduled for April 26 and May 24 and a work session with the city commission on July 13.

- 6) Staff Updates**
- 7) Board Comments**
- 8) Upcoming Agenda Items**
- 9) Adjournment**

The meeting adjourned at 11:30 a.m.

Respectfully,

Kim Breland

Recording Secretary

Minutes approved by the board on 05/24/2023.

/s/ Recording Secretary Kim Breland