



**City of Dallas**

# **Small Cell and Citywide Fiber Optic and Wireless Broadband Network Update**

**City Council Briefing  
August 5, 2020**

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City of Dallas

# Presentation Overview



- Update on deployment of small cell network nodes
- Citywide fiber optic network
- Request for Developer Interest (RDI) for citywide fiber optic or wireless broadband network (WBN)



# Deployment of Small Cell Network Nodes



- What is a Small Cell Network Node?
  - Equipment at fixed locations that enables wireless communication between user equipment and a communications network
  - Small Cells Nodes are used to increase wireless coverage or network capacity
  - Support both 4G and 5G deployments
- Entities currently deploying small cell equipment in Dallas include AT&T, Verizon, Crown Castle, Sprint, Extenet, and T-Mobile



# Deployment of Small Cell Network Nodes



- Texas State Senate Bill (SB) 1004 became effective September 1, 2017
  - Regulated Texas cities on access fees, review and approval timelines, and municipality requirements
- In response to SB 1004, the City of Dallas created a Small Cell Design Manual and review team (inclusive of Oncor) to streamline review and approval process
- As of June 30, 2020, the City of Dallas has approved 1,656 applications for small cell sites



# Deployment of Small Cell Network Nodes



- Breakdown of Small Cell Network Applications

Applicant	Application Incomplete	Denied	Issued	Applicant Total
AT&T Mobility	200	22	817	1,039
Cellco Partnership dba Verizon Wireless	22	7	417	446
Crown Castle NG LLC	9	6	116	131
ExteNet Systems, Inc	37	12	205	254
Mobilitie, LLC	27	10	100	137
T-Mobile	1	0	1	2
<b>Status Total</b>	<b>296</b>	<b>57</b>	<b>1,656</b>	<b>2,009</b>

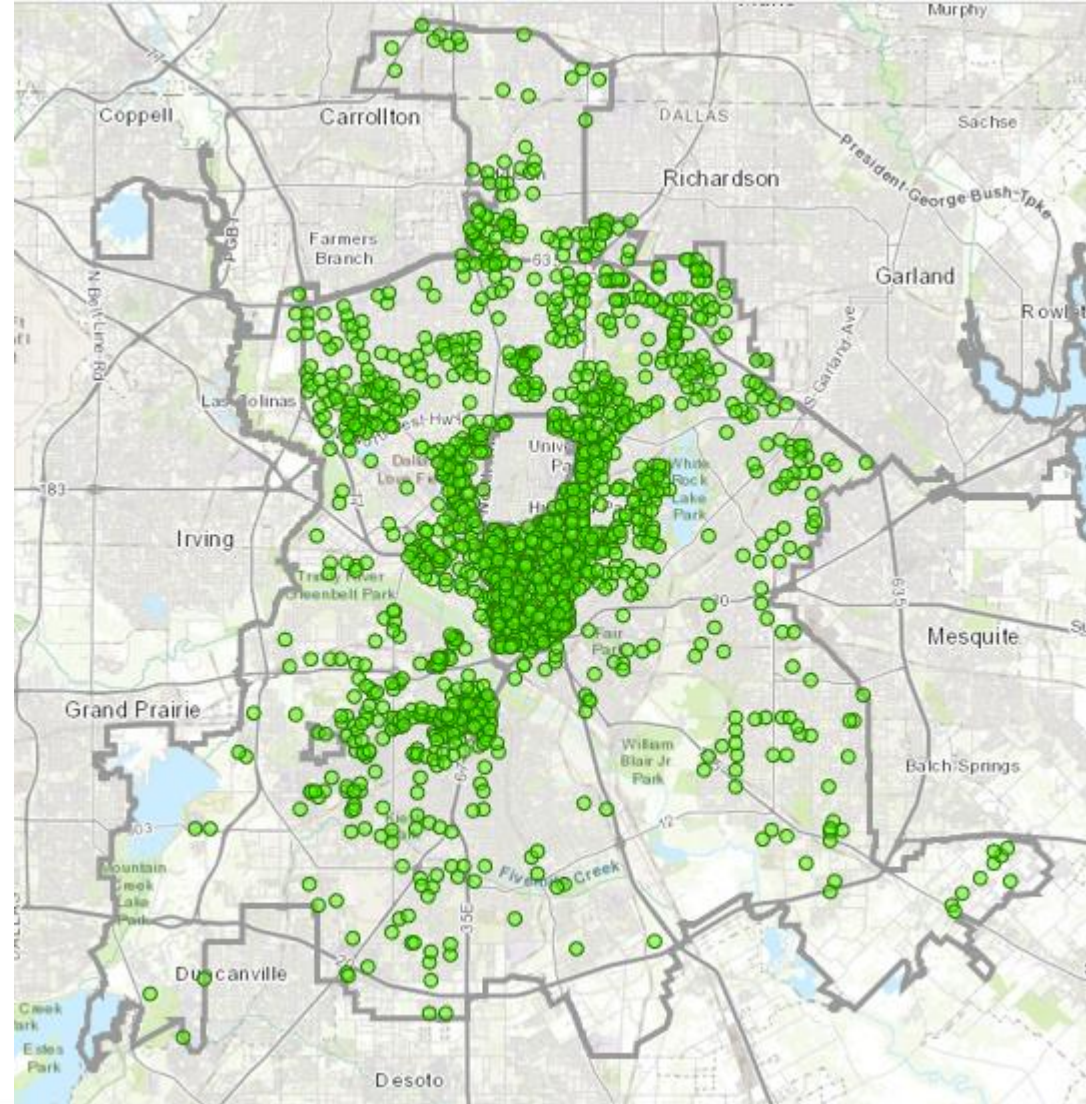




# Deployment of Small Cell Network Nodes



- Small Cell Deployment Map





# Deployment of Small Cell Network Nodes



- Initiatives derived from small cell deployment:

- Smart Light Poles



- Micro Trenching





# Citywide Fiber Optic Network





# Citywide Fiber Optic Network



- Multiple departments have been working on solutions to create a City-owned fiber optic network
- Public Works has started testing conduit installation in streets that are being fully reconstructed (first test site in Council District 5)
- CableRunner pilot program has installed fiber optic cable in storm sewers between City Hall and the Canton Street Service Center and connected fiber to five traffic signals (proof of concept)



# Citywide Fiber Optic Network



- View from one of the cameras connected to CableRunner Fiber Network



# Request for Developer Interest (RDI) for Fiber Optic or Wireless Broadband Network (WBN)



# RDI for Fiber Optic/Wireless Broadband Network



- A Request for Developer Interest (RDI) was advertised on July 30, 2020; proposals due September 4, 2020
- Focus will be on RDI proposals that provide best value to the City and provide opportunities for Internet access in underserved and priority zone areas
- Expect selection of proposals in late September 2020 and Council approval of agreements in December 2020





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