



FARMERS
BRANCH

Smart City Pilot Project

Conclusions



Overview

- 10 locations in the Station Area
- LED lights and CityIQ Intelligent Nodes
- Budget not to exceed \$65,000
- 90-day pilot from December 2018 through February 2019



Intelligent nodes will require infrastructure improvements.

- Smart nodes require an extensive network and bandwidth
- The nodes (cameras) generate a plethora of data with retention requirements



Installing smart poles cannot be done without cooperation from Oncor and others.

- Oncor – providing power and a meter to the poles
- AT&T – small cell nodes (5G)
- nepsa – pole manufacturer
- Opendatasoft – data visualization

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SMART CITIES & TECHNOLOGY

**ARTICLE**

A small cell – in a smart pole – in pursuit of a smarter city

In the shadow of nearby Dallas, Farmers Branch, Texas is staking a claim for progressive, forward-thinking solutions that will deliver for its citizens now and for generations to come.

Written by David Reuter 5th June 2018



Robert C. Dye, Mayor of Farmers Branch, Texas recently spoke with David Reuter of nepsa solutions LLC, about his vision for a smart city and how collaboration is the only way to achieve real results.

"We began with the idea of exploring 5G and how it might improve our business community's Internet connectivity," Dye said. "We have a lot of dark spots and for a town with such a high concentration of commercial businesses, we must do a better job of making sure we can support their growing needs, with diverse solutions ranging from fiber connections to improved quality of life in terms of traffic congestion and public safety."

"We're a small city of around 28,600 and while we have different challenges than our much larger neighbor, Dallas, we're still part of the greater DFW community. Technology solutions that work in large cities should be scalable to meet the needs of every community."

"Our ideas and wishes came together after attending a Smart Cities conference in Austin, Texas," said Dye, "when we saw what smart poles can accomplish with small cell and smart technology."

"Combined with the need to address Texas legislation SB-1004, regarding small cell nodes, the design of the smart pole from

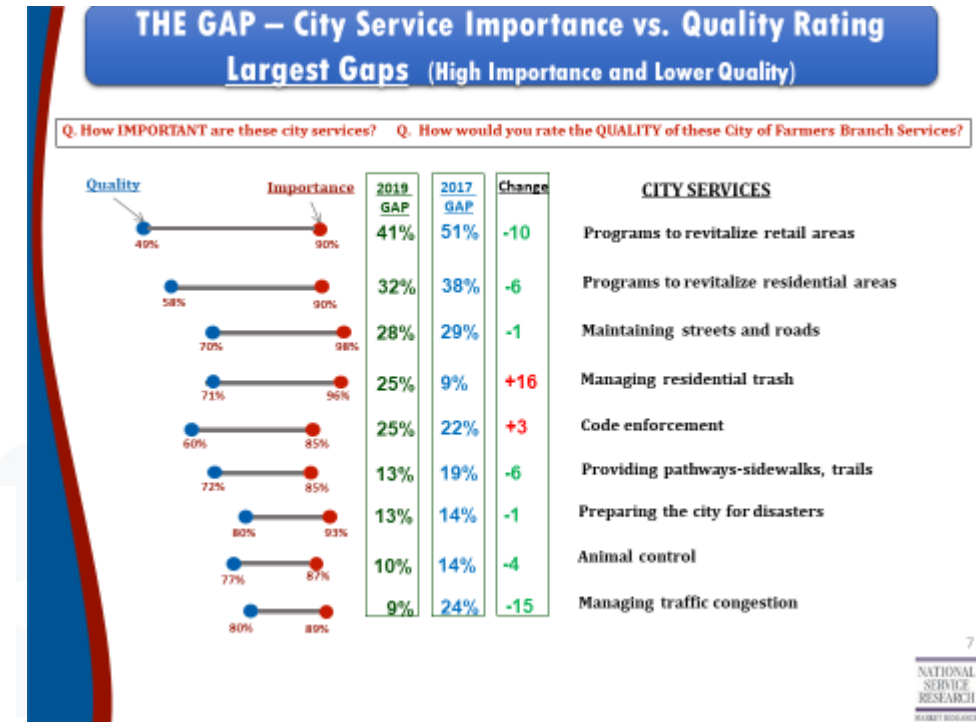
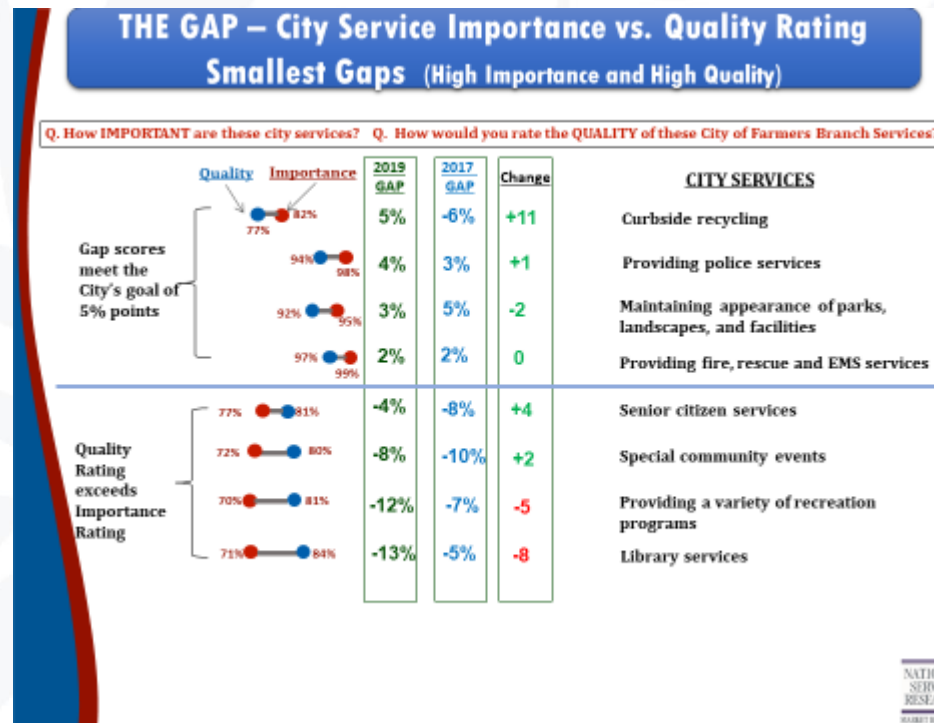
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**THE BEST RUN** 



Our service level is not lacking and we do not have unmet needs.

- Traffic
- Parking
- Pedestrian
- Weather
- Environmental
- Gunshot detection
- Wi-Fi



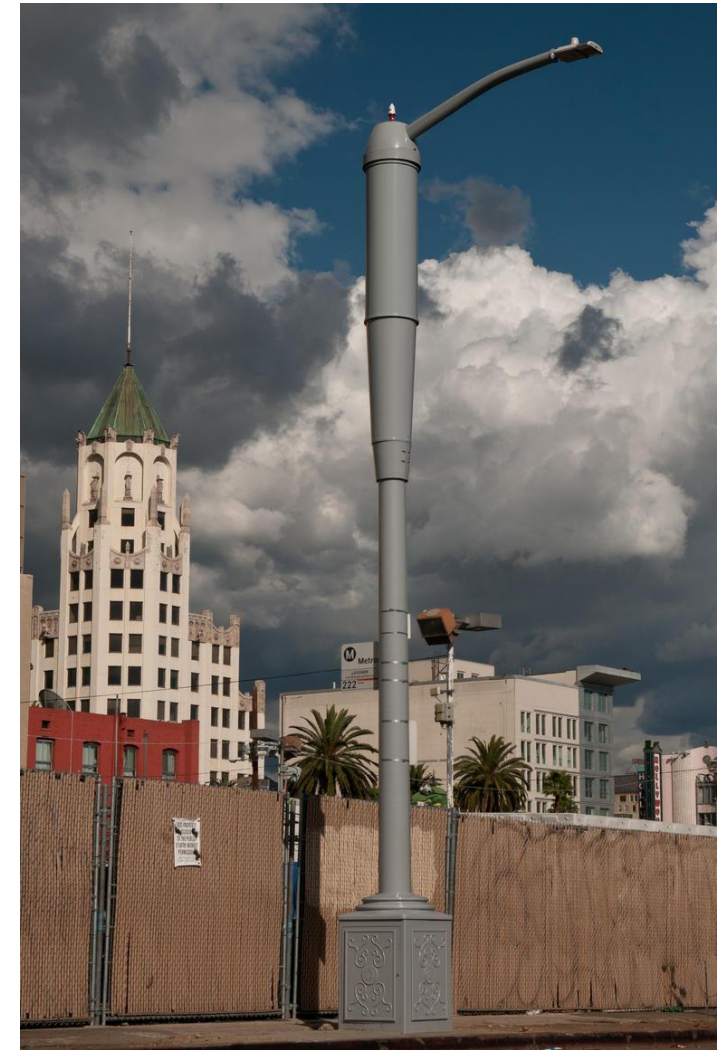
Shared poles will not work.

- nepsa business model - industry will not follow



Collocation is the pathway forward.

- Small cell implementation strategy
- Provides a mechanism for LED lights
- Preserves the streetscape
- Equitable for everyone





Questions & Discussion