CITY OF CUPERTINO

Technology, Information and Communication Commission

FY 2020-21 Work Program

Project/Task	Project Objective	Responsibility	Estimated Completion Date
Pilot - Adaptive Traffic Signaling	Utilize the City's Traffic Management System to test impact of enhanced adaptive traffic signaling. This will be done through software modifications and/or the addition of IOT devices such as intelligent cameras and sensors.	Commissioners Mohanty & Bollineni	Summer 2021
Pilot - Multimodal Traffic Count	Utilize the City's Traffic Management System and/or IOT equipment to provide the number of vehicles, pedestrians and bike traffic that moved through a given area, e.g., intersection, roadway or trail.	Commissioners Mohanty & Bollineni	Summer 2021
Cliimate Monitoring - Pilot	Utilize IOT sensors to measure particulate and pollution levels	Commissioners Garg & Soundararajan	Spring 2021
Pilot - Water Scheduling Based on Moisture Content	Utilize IOT sensor to measure ground moisture content. Use this information to better manage water irrigation within medians. Additionally, these IOT sensors may better pinpoint water leaks.	Commissioners Garg & Soundararajan	Winter 2020
Pilot - Noise Measurement	Utilize inexpensive IOT sensors to measure/categorize noise	Commissioners Garg & Soundararajan	Winter 2020
Education - Provide education on 5G	Explore the pros and cons of cellular communicaiton - specifcally small and macro antennas	Commissioners Bollineni & Soundararajan	Spring 2021
Fiber Optic and Wireless Master Plan	Update 2006 Master Plan Holdover from FY 2019 - 2020 work program	Commissioners Bollineni & Du	Fall 2020