



City Council Report

Date: September 22, 2014
To: City Council
Through: Karolyn Kent, Deputy City Manager
From: Lenny Hulme, Transportation Director
Subject: Intergovernmental Agreement with Tempe and Gilbert for Travel Time Monitoring Project
Citywide

Strategic Initiatives



Purpose and Recommendation

The purpose of this report is to provide information to Council about a proposed project and corresponding intergovernmental agreement (IGA) between the City of Mesa, the City of Tempe and the Town of Gilbert. It is recommended that council approve this IGA.

Background

The City of Mesa recently deployed 82 anonymous re-identification sensors at signalized intersections within the City of Mesa. Staff is currently developing a travel time map that can be displayed on the City website to inform citizens of potential travel time delays on the arterial street system.

The purpose of this new project is to expand the system both in Mesa and regionally by working with the City of Tempe and the Town of Gilbert. A joint regional map would then be developed that would show travel time statistics across the three jurisdictions.

Discussion

Travel time along the arterial street network can vary unexpectedly due to non-recurring events such as road restrictions, crashes or other special events. Residents and City staff alike would benefit from a system that automatically identifies the travel time along an arterial street. City staff can respond to issues on the arterial street system including signal timing changes to improve traffic flow. Residents can choose an alternate route to avoid congestion.

The City of Mesa recently deployed a system with 82 sensors primarily in the west part of the City. This project will expand upon the existing system. Additionally, by partnering with the City of Tempe and the Town of Gilbert we are able to expand the system beyond the City's boundaries which is especially beneficial to residents whose trips may extend across multiple jurisdictions.

Alternatives

An alternative to this project would be not to enter into an IGA and abandon the project. This would result in fewer sensors on Mesa roadways collecting travel time data and the new systems in our partner jurisdictions would not be deployed. This alternative is not recommended.

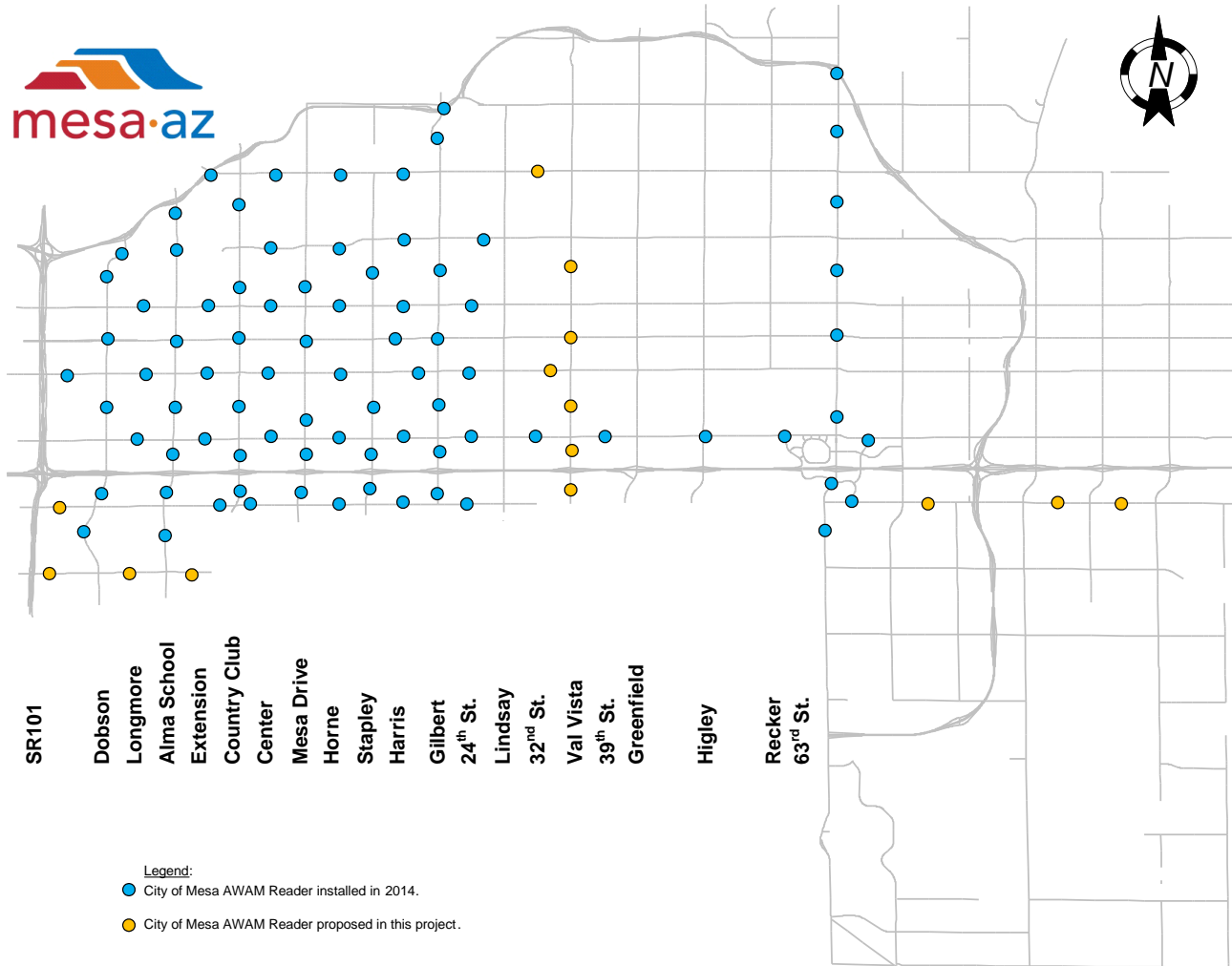
Fiscal Impact

Federal Congestion Mitigation and Air Quality (CMAQ) funds have been programmed for the construction of this project. The design of the project will be paid for with local funds. The City of Mesa is the lead agency on this project and will work with Engineering to contract a designer and prepare the project for bid. The partner agencies (City of Tempe and Town of Gilbert) will be billed for their portion of the design as soon as the design contract is awarded. They will also be billed for their portion of the construction (minus CMAQ reimbursements) at the conclusion of the project.

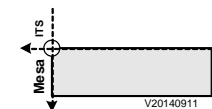
The estimated design costs are \$125,000 of which \$19,231 is the City of Mesa share. The estimated construction costs are \$695,011 of which \$655,385 are eligible for CMAQ reimbursement. The City of Mesa's local matching funds for construction will be approximately \$5,832. The monetary share of each agency has been determined by the total number of sensors planned for that jurisdiction. The City of Mesa has been designated the lead agency because a system is already in development in Mesa and this project will build off of those efforts.

Coordinated With

The Engineering Department will assist Transportation during the design and construction phases. This process will begin after the IGA is approved.



Thomas
 McDowell
 McKellips
 McLellan
 Brown
 8th St.
 University
 Main
 Broadway
 8th Ave.
 Southern
 Baseline
 Guadalupe
 Elliot
 Warner
 Ray
 Williams Field
 Pecos
 Germann



SR101
 Dobson
 Longmore
 Alma School
 Extension
 Country Club
 Center
 Mesa Drive
 Horne
 Stapley
 Harris
 Gilbert
 24th St.
 Lindsay
 32nd St.
 Val Vista
 39th St.
 Greenfield
 Higley
 Recker
 63rd St.

Power
 72nd St.
 Sossaman
 Hawes
 Ellsworth
 Crismon
 Signal Butte
 Meridian