



METROPOLITAN  
TRANSPORTATION  
COMMISSION

**Agenda Item 2d**  
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## *Memorandum*

TO: Operations Committee

DATE: July 6, 2018

FR: Executive Director

W.I. 1234

RE: Contract Amendment – On-Call Transportation Engineering and Planning Services: Innovative Deployments to Enhance Arterials (IDEA) Program System Engineering Services: Iteris, Inc. (\$548,071)

### **Summary**

This memorandum requests Committee approval for MTC to enter into a contract amendment with Iteris, Inc. in an amount not to exceed \$548,071 to provide systems engineering services for the Innovative Deployments to Enhance Arterials (IDEA) Program.

### **Background**

The Bay Area has over 33,000 directional miles of arterials and local streets and approximately 11,000 traffic signals. Some major arterials carry heavy traffic and experience significant congestion during the weekday peak periods, which can lead to loss of productivity, unreliable travel for autos and transit vehicles, and reduced safety for bicyclists and pedestrians.

Over the past 20+ years, MTC has provided technical assistance to cities/counties to implement low-cost, low-technology solutions by updating signal timing plans through the Program for Arterial System Synchronization (PASS). In 2014, MTC launched an experimental initiative – Next Generation Arterial Operations Program – which implements technology-based strategies, such as adaptive traffic signals, transit signal priority, and real-time traffic monitoring – to modernize how cities/counties operate arterial signal systems. Through this program, recipient agencies have seen improvements in travel time, traffic flow, and throughput.

Last year, MTC launched the IDEA Challenge Grant Program to implement cutting-edge arterial improvement projects that could benefit all modes. The IDEA Program includes two categories of projects: Category 1 deploys mature, commercially-available technologies; and Category 2 deploys new, higher-risk Connected and Automated Vehicle technologies. MTC awarded a total of \$13 million to 16 projects (ten Category 1 and six Category 2). A summary of the 16 projects is included in Attachment A. The focus of this memo is on five Category 2 projects that will deploy connected vehicle applications, automated vehicles applications and virtual bicycle detection technology for signal operations.

### **Procurement Selection Process**

In February 2016, MTC issued a Request for Qualifications to pre-qualify firms to provide on-call transportation engineering and planning services to support various service categories through June 30, 2019. The selection criteria for service included an evaluation of the strength of the firms experience in Freeway Active Traffic and Travel Demand Management, Connected and Autonomous Vehicles, as well as Arterial Operations.

On May 2, 2018, MTC issued a mini-procurement and invited 16 pre-qualified consultants to submit proposals to provide systems engineering support services for the five Category 2 projects.

MTC received proposals from three firms: Iteris, Inc., Jacobs Engineering, and Kimley-Horn and Associates, Inc. A panel consisting of MTC staff performed an evaluation of the proposals based on each firm's qualifications and experience, approach to completing the work, price, cost effectiveness, and written communication. Based upon the evaluation panel's scores, Iteris, Inc. and Kimley-Horn and Associates, Inc. were invited for in-person interviews, which were held on June 18. Proposers presented their qualifications, answered questions about their proposals, and discussed their approach to the scope of work.

Based on the written proposals and the results of the interviews, staff recommends the selection of Iteris, Inc. due to the firm's demonstration of qualifications and experience in systems engineering, as well as its approach to completing the scope of work for high-risk connected and automated vehicle technology projects. The table below provides the final ranking based upon the panel evaluations:

Consultant	Ranking
1. Iteris, Inc.	1
2. Kimley-Horn and Associates, Inc.	2
3. Jacobs Engineering	3

Iteris, Inc. is neither a small business nor disadvantaged business enterprise and currently has no DBE subcontractors for the work described in this memorandum.

### **Recommendation**

Staff recommends that the Committee authorize the Executive Director or his designated representative to negotiate and enter into a contract amendment with Iteris Inc. for a not-to-exceed amount of \$548,071 for the above-described work.

  
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Steve Heminger

### **Attachments:**

- Attachment A: IDEA Grant Awards

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**Attachment A  
IDEA Grant Awards**

	<b>Agency</b>	<b>Project Description</b>	<b>Project Budget (\$ million)</b>	<b>Grant Amount (\$ million)</b>
<b>Category 1 Projects</b>				
1	AC Transit	Deploy existing TSP, bus queue jump lanes	\$3.7	\$2.3
2	Alameda (City)	Deploy ATSPM, pedestrian/vehicle detection	\$0.4	\$0.3
3	Hayward	Deploy ATSPM	\$0.4	\$0.3
4	Oakland	Implement bicycle greenwave	\$0.4	\$0.3
5	Pleasanton	Deploy ATSPM, data integration	\$0.4	\$0.3
6	San Jose	Deploy ATSPM	\$2.2	\$1.4
7	San Rafael	Deploy ATSPM	\$2.4	\$0.8
8	San Ramon	Deploy ATSPM, fish-eye cameras	\$0.8	\$0.6
9	South San Francisco	Deploy ATSPM, variable lane assignment	\$0.7	\$0.5
10	Union City	Expand existing ASCT; deploy ATSPM, bike/ped detection	\$1.1	\$0.7
<b>Category 2 Projects</b>				
11*	CCTA	Deploy advanced TSP, monitoring system	\$0.7	\$0.6
12*	Dublin	Deploy SAV on city streets; deploy advanced bike/ped solutions	\$0.7	\$0.4
13*	Emeryville	Deploy ATSPM, TSP, virtual bicycle detection technology	\$1.1	\$0.8
14*	Los Gatos	Deploy ASCT, ATSPM, virtual bicycle detection application	\$1.1	\$0.7
15	VTA**	Deploy electric AV – accessible to persons with disabilities	\$1.1	\$0.8
16*	Walnut Creek	Deploy advanced TSP	\$0.9	\$0.7

*Acronyms:* Adaptive Signal Control Technologies (ASCT); Automated Traffic Signal Performance Measures (ATSPMs); Autonomous Vehicle (AV); Shared Autonomous Vehicle (SAV); Transit Signal Priority (TSP).

\* The focus of this Agenda Item 2d.

\*\*The Valley Transportation Authority (VTA) provide its own systems engineering services using funds from the IDEA program.

## REQUEST FOR COMMITTEE APPROVAL

### Summary of Proposed Contract Amendment

Work Item No.:	1234
Contractors:	Iteris, Inc. Oakland, CA
Project Title:	IDEA Category 2 Systems Engineering Services
Purpose of Project:	To provide Systems Engineering support services for five Category 2 projects under the IDEA Program.
Brief Scope of Work:	Provide Systems Engineering support services for five deployments of connected vehicle, automated vehicle and virtual bicycle detection technologies.
Project Cost Not to Exceed:	\$548,071 (this amendment) \$718,100 (total contract before this amendment); \$1,266,171 (total authorized contract after this amendment)
Funding Source:	CMAQ/STP = \$485,207 Local Match = \$62,864
Fiscal Impact:	Funding is included in the FY 2018-19 MTC budget.
Motion by Committee:	That the Executive Director or his designee is authorized to negotiate and enter into a contract amendment with Iteris Inc. to provide on-call transportation planning services as described above and in the Executive Director's memorandum dated July 6, 2018, and the Chief Financial Officer is directed to set aside \$548,071 for such contract amendment.
Operations Committee:	<hr/> Dave Cortese, Chair
Approved:	Date: July 13, 2018