



## Chicago Metropolitan Agency for Planning

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### MEMORANDUM

**To:** CMAP Board

**From:** Finance and Administration Staff

**Date:** May 10, 2023

**Re:** Contract approval for an 18-month agreement with StreetLight Data for the Speed Data Project: Processing Connected Vehicle Data and Crash Characteristics, for a not-to-exceed amount of \$375,890

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CMAP is committed to improving traffic safety for all road users in the region. Within the CMAP region, there is an average of 550 traffic fatalities each year. Currently in Illinois, about 40% of fatal crashes include some element of “speeding” identified in the crash report such as driving above the speed limit, driving too fast for conditions, or failing to reduce speed to avoid a crash.

CMAP has been selected for an IDOT Statewide Planning & Research (SPR) grant to evaluate speeding in the region and its association with traffic crashes, serious injuries, and fatalities. This project, Speed Data Project: Processing Connected Vehicle Data and Crash Characteristics, has the goal of identifying complex speed profiles on road segments and intersections that are associated with increased risk of traffic crashes or crash severity. Locations with the most dangerous speed profiles will be identified so that efforts can be made to encourage drivers to drive at appropriate speeds or dangerous road configurations will be identified so that they can be improved.

#### Review Process

A Request for Proposals (RFP) was sent to potential contractors and posted to the CMAP website on February 27, 2023. Staff held a non-mandatory on-line pre-bid information session for consultants on March 7, 2023. On March 31, CMAP received proposals from ten consulting firms that are nationally recognized in the area of traffic safety, processing connected vehicle data, website development, and statistical analysis: ARUP, Cambridge Systematics, DAMA Consultants, Parsons Transportation Group, Slalom, SRF Consulting Group, StreetLight Data, TranSmart, Texas A&M Transportation Institute (TTI), and WSP.

A selection team of three CMAP staff members reviewed and evaluated the proposals: Each member independently scored the proposals based on the following five criteria listed in the RFP:

1. The responsiveness of the proposal to the scope of work, as demonstrated through a substantive discussion of the issues and a clearly defined methodology, process, and timeline.
2. The demonstrated record of experience of the firm as well as identified staff in providing the professional services identified in this scope of work and tasks.
3. Prior performance of previous CMAP contracts.
4. The quality and relevance of the examples of similar work performed.
5. Cost to CMAP, including consideration of all project costs and per-hour costs.

The individual scores of the selection team members were combined to develop a final composite score for each proposal, shown in the following table.

Criteria	Maximum Score	ARUP	Cambridge Systematics	DAMA Consultants
The responsiveness of the proposal to the scope of work, as demonstrated through a substantive discussion of the issues and a clearly defined methodology, process, and timeline.	60	24.0	45.0	12.00
The demonstrated record of experience of the firm as well as identified staff in providing the professional services identified in this scope of work and tasks	40	20.7	30.0	12.00
Prior performance of previous CMAP contracts	20	8.0	10.3	8.00
The quality and relevance of the examples of similar work performed	40	20.7	25.3	12.00
Cost, including consideration of all project costs and per-hour costs	20	18.54 \$405,442	18.28 \$411,265	18.55 \$405,227
Total	180	91.94	128.88	62.55

Criteria	Maximum Score	Parsons Transportation Group	Slalom	SRF Consulting Group	StreetLight Data
The responsiveness of the proposal to the scope of work, as demonstrated through a substantive discussion of the issues and a clearly defined methodology, process, and timeline.	60	31.00	4.00	38.00	55.00
The demonstrated record of experience of the firm as well as identified staff in providing the professional services identified in this scope of work and tasks	40	25.33	8.00	16.00	33.33
Prior performance of previous CMAP contracts	20	8.00	6.00	8.00	10.33
The quality and relevance of the examples of similar work performed	40	20.67	6.67	20.67	28.67
Cost, including consideration of all project costs and per-hour costs	20	17.48 \$429,986	17.48 \$430,000	18.03 \$417,011	20.0 \$375,890
Total	180	102.48	42.15	100.7	147.33

Criteria	Maximum Score	TranSmart	Texas A&M Transportation Institute (TTI)	WSP
The responsiveness of the proposal to the scope of work, as demonstrated through a substantive discussion of the issues and a clearly defined methodology, process, and timeline.	60	24.00	45.00	31.00
The demonstrated record of experience of the firm as well as identified staff in providing the professional services identified in this scope of work and tasks	40	20.67	30.00	25.33
Prior performance of previous CMAP contracts	20	8.00	8.00	8.00
The quality and relevance of the examples of similar work performed	40	25.33	33.33	16.00
Cost, including consideration of all project costs and per-hour costs	20	18.37 \$409,210	17.50 \$429,710	17.51 \$429,380
Total	180	96.37	133.83	97.84

**Recommendation for contractor selection**

The selection team recommends StreetLight Data as the contractor for the Speed Data Project: Processing Connected Vehicle Data and Crash Characteristics project. The StreetLight team includes Jacobs Engineering Group as well as High Street. Streetlight is a national leader in the in the processing of connect vehicle “Big Data” projects and machine learning processing which are both critical for this effort. The team also includes extensive experience in traffic crash data analysis and experience with crash modifications factors (CMF) that can be used to estimate the safety benefit of improvements.

CMAP staff is seeking approval form the Board approve for an 18-month contract with StreetLight Data to fulfill the tasks identified in Speed Data Project: Processing Connected Vehicle Data and Crash Characteristic for the not-to-exceed amount of \$ 375,890. Support for this project will be provided by an IDOT SPR funds specifically provided for this project.

ACTION REQUESTED: Approval