



Chicago Metropolitan Agency for Planning

MEMORANDUM

433 West Van Buren Street
Suite 450
Chicago, IL 60607
312-454-0400
cmap.illinois.gov

To: CMAP Board

From: Piotr Wietrzak
Director, Finance and Administration

Date: November 9, 2022

Re: Contract Approval with Wejo, in the amount of \$126,693, for Vehicle
Waypoint Data for the Regional Traffic Safety Action Plan

In response to the growing number of traffic-related fatalities and serious injuries in the Chicago region, the Chicago Metropolitan Agency for Planning (CMAP) recently initiated a [Regional Traffic Safety Action Agenda](#). This multi-year safety effort will include three components: a research and data analysis phase to understand the region's traffic safety issues; a series of on-the-ground pilot projects to assist local governments in identifying and implementing safety investments; and a set of tools for partners to support local efforts to improve safety through design, education, equity and enforcement policy. The acquisition of the waypoint data identified in IFB 271 supports the first phase of this project by providing a source of speed data.

Speed issues have historically been a factor in approximately 25-30% of all crashes nationally and the pattern in Illinois is similar. Speed data has historically been difficult to acquire on a large scale because it required the placement of radar devices in the field at a limited number of locations for short durations. These technical limitations have made it very difficult to comprehensively measure speed. The lack of quality speed data limits identifying how systemic speeding may be correlated with roadway design, traffic operations, or time of day and result in increased crash rates.

The vehicle waypoint data will be used to calculate speed patterns on small segments of the road network. Technological advances in recent years have created new opportunities to obtain representative sets of waypoint data to produce improved speed information, covering a substantial share of automobiles on the road for a given period of time.

Review Process

An Invitation for Bids (IFB) was sent to potential contractors and posted to the CMAP website on June 28, 2022. Questions were invited from potential bidders and due by July 13, 2022. Responses were documented and posted on the CMAP website. CMAP received proposals from two data providers: Wejo and HERE Technologies.

The sample data was processed by staff to evaluate the length of vehicle trips, the duration of trips, the frequency of observations on links, the number of way points associated with each trip and the average time between waypoint time stamps. These values were used to compare the HERE and Wejo data sets, according to the criteria reflected in Table 1.

Table 1: Selection Criteria

Criteria	Maximum Score	HERE	Wejo
Completeness of the data based on listed data requirements	80	42.7	69.3
Sample size of provided data or processed data	60	52	46
Additional data elements beyond the base requirement	40	10.7	37.3
Data format and size	100	60	70
Potential for continued evaluation in the future	60	42	48
Cost to CMAP	80	56 (\$138,750 ,1-month)	74.7 (\$126,692 ,3-months)
Total	420	263.3	345.3

Recommendation for contractor selection

After analysis of the sample datasets provided by each vendor, the selection team recommends **Wejo** as the contractor for the waypoint data for the Speed Data project. Wejo is an international firm with a strong national presence and supplies data to numerous states and municipalities including the City of Chicago. The selection team felt the data in the Wejo proposal had the most useful sample rate and best vehicle trip identification.

It is recommended that the Board approve a contract with Wejo for the Regional Traffic Safety Program, for a not-to-exceed amount of 126,693. Support for this project will be provided by FY23 UWP funds.

ACTION REQUESTED: Approval

###