

Date: September 25, 2024

To: Board of Directors

From: Sam Desue, Jr.

Subject: RESOLUTION NO. 24-09-50 OF THE TRI-COUNTY METROPOLITAN TRANSPORTATION DISTRICT OF OREGON (TRIMET) AUTHORIZING A CONTRACT MODIFICATION WITH SINWAVES INC., DBA LYT, FOR NEXT GENERATION TRANSIT SIGNAL PRIORITY IMPLEMENTATION SERVICES

1. Purpose of Item

This Resolution requests that the TriMet Board of Directors (Board) authorize the General Manager or his designee to execute a modification to the contract (Modification) with Sinwaves Inc., dba LYT (LYT), for Next Generation Transit Signal Priority (TSP) Implementation Services (Services).

2. Type of Agenda Item

- Initial Contract
- Contract Modification
- Other _____

3. Type of Contract Procurement

- Low Bid / Invitation to Bid (ITB)
- Request for Proposals (RFP) (inc. CM/GC)
- Request for Qualifications (RFQ) (Personal Services)
- Other (inc. sole source) _____

4. Reason for Board Action

Board authorization is required for all contract modifications causing contract amounts to exceed amounts previously authorized by the Board.

5. Type of Action

- Resolution
- Ordinance 1st Reading
- Ordinance 2nd Reading
- Other _____

6. Background

On June 23, 2021 the TriMet Board authorized a five-year, \$3,300,000 contract with LYT to provide modern, next generation transit signal priority (TSP). TSP is a key technology for delivering reliable and high frequency transit service. TriMet and its regional traffic agency partners recognize that in order to achieve shared mobility, safety, and climate goals, the Portland metropolitan region must make public transportation more competitive with other forms of travel. The Portland Bureau of Transportation (PBOT), the City of Gresham, and

the Oregon Department of Transportation (ODOT) all worked with TriMet on the first implementation of next generation TSP in the Portland region.

TriMet's cloud-based TSP system was one of the first of its kind in North America. It is installed at 57 intersections along the Division Street corridor, between Southeast 11th Avenue and the Gresham Central Transit Center. The TSP was implemented on September 18, 2022 with the opening of the FX2 Division Street line.

The impact of the new cloud-based TSP system exceeded expectations, proving substantially more effective and reliable than legacy versions of TSP that rely on line-of-sight emitters and receivers. TriMet and PBOT conducted a study, commissioned by the Federal Highway Administration, to calculate the time savings experienced when TSP was turned on compared to when it was off. That study found roundtrip travel times decreased by up to 8.2 minutes when the system was turned on.

This initial deployment project of the TSP system on the Division Street corridor was recognized by an award for Transportation Achievement from the Institute of Transportation Engineers. Since the initial Division corridor deployment, cloud-based TSP has been implemented at ten additional signals with similarly impressive results.

The existing contract value of \$3,300,000 was established in order to provide for the initial deployment, the ten additional intersections, and improvements to the reporting capabilities of the TSP system. Since that time, additional work has been authorized to meet cybersecurity requirements and deliver system operational status reporting and monitoring. As a result, the contract limit will be reached earlier than planned, and prior to its termination date of June 2026.

Therefore, TriMet wishes to increase the contract amount and exercise its option to extend the contract for five years, through June of 2031. This increase and contract extension is needed to maintain the TSP system, extend it, continue to improve it, maintain licensing, and potentially expand cloud-based TSP to light rail operations.

This request, if approved, would allow TriMet to exercise the option to extend the contract for an additional five years and increase the contract amount by \$7,000,000. This would allow cloud-based TSP to be implemented on additional routes, including both new FX routes, other routes prioritized by the Better Bus Program, and potentially MAX operations.

7. Description of Procurement Process

This contract was procured via an RFP process.

8. Diversity

LYT has a total workforce of fifteen, 27% of whom are minorities. LYT has set a goal of 12% DBE participation on the project, particularly in the area of traffic engineering services.

9. Financial/Budget Impact

The increased contract amount of \$7,000,000 will bring the total contract amount to \$10,300,000 over the anticipated ten-year extended contract life. The cost of each expansion of TSP will be included in the budgets for future FX and Better Bus projects. The cost of on-going licensing will be included in the Information Technology division budget.

10. Impact if Not Approved

If this request for additional funds is not approved, TriMet will not be able to expand its cloud-based TSP system or pay for ongoing licensing for the system. Because cloud-based TSP has proven to be a cost effective tool for improving transit operations, approval of this Resolution is recommended.

RESOLUTION NO. 24-09-50

**RESOLUTION NO. 24-09-50 OF THE TRI-COUNTY METROPOLITAN
TRANSPORTATION DISTRICT OF OREGON (TRIMET) AUTHORIZING A
CONTRACT MODIFICATION WITH SINWAVES, INC., DBA LYT, FOR NEXT
GENERATION TRANSIT SIGNAL PRIORITY (TSP) IMPLEMENTATION
SERVICES**

WHEREAS, TriMet has authority under ORS 267.200 to enter into a modification of the contract (Modification) with Sinwaves, Inc., dba LYT, for Next Generation Transit Signal Priority (TSP) Implementation Services; and

WHEREAS, by Resolution dated May 25, 2022, the TriMet Board of Directors (Board) adopted a Statement of Policies requiring the Board to authorize contracts obligating TriMet to pay in excess of \$1,000,000; and

WHEREAS, the total amount of the Modification will exceed \$1,000,000;

NOW, THEREFORE, BE IT RESOLVED:

1. That the Modification shall conform with applicable law.
2. That the General Manager or his designee is authorized to execute a Modification of the contract, extending the contract by five years and increasing the contract amount by \$7,000,000, for a total contract amount of \$10,300,000, through the contract's new termination date of June 2031.

Dated: September 25, 2024



Presiding Officer

Attest:



Recording Secretary

Approved as to Legal Sufficiency:



Legal Department