

City of Redmond

15670 NE 85th Street Redmond, WA

Memorandum

Date: 6/20/2023 Meeting of: City Council			e No. AM No. 23-072 pe: Consent Item
TO: Members of the City Council FROM: Mayor Angela Birney DEPARTMENT DIRECTOR CONTACT	(S):		
Public Works	Aaron Bert	Public Works Director	
DEPARTMENT STAFF:			
Public Works	Hidemi Tsuru	Senior Engineer	
Public Works	Patty Criddle	Engineering Superviso	or
Public Works	Paul Cho	Engineering Manager	
Approval of the Puget Sound Region Downtown Project and to Add the POVERVIEW STATEMENT: The Adaptive Signals Downtown pro \$865,000. Council acceptance of the Works is requesting Council add the This Adaptive Signals Downtown protimings, and operations in real-time pedestrians. With the arrival of light the change in traffic conditions expense.	roject to the 2023-2024 CIP sject received a grant from the his grant is required. The p project to the approved CIP spject will install new traffic one. This will reduce travel to real in Downtown Redmond	ne Puget Sound Regional Co roject is not included in th control systems in downtow times through downtown	uncil (PSRC) in the amount of ne 2023-2024 CIP and Public n, capable of adjusting signal and reduce wait times for
☐ Additional Background Info	rmation/Description of Pro	oosal Attached	
REQUESTED ACTION:			
☐ Receive Information	☐ Provide Direction	☑ Approve	
REQUEST RATIONALE:			
 Relevant Plans/Policies: Transportation Master Plan Required: 			

Council approval required for grant acceptance per RCW 35A.11.040

Council Request:

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N/A

Other Key Facts:

The project was previously an approved project funded by the City in the amount of \$1,000,000. The project completed preliminary engineering in November 2020. Council decided not to move forward with the project in the 2021-2022 budget to fund other priorities.

Adaptive signal control is a technology that adjusts traffic signal timing based on real-time traffic data, aiming to optimize traffic flow and reduce congestion. It is especially effective for roads that experience variable and unpredictable traffic demand, where conventional signal systems cannot keep up with the changing conditions. Adaptive signal control can also benefit pedestrians and active transportation modes by reducing delays and improving service. Adaptive signal control can also respond to changes in traffic patterns caused by new work commute options and the opening of transit stations, which can affect the demand for different directions and movements at intersections.

OUTCOMES:

The proposed adaptive traffic signal control system will measure real-time traffic fluctuations and automatically adjust signal timings more efficiently than our current system. Other agencies have demonstrated substantial delay reduction, especially when conditions change unexpectedly due to weather, lane closures, or surges in demand.

COMMUNITY/STAKEHOLDER OUTREACH AND INVOLVEMENT:

 Timeline (previous or planned): N/A

Outreach Methods and Results:

N/A

Feedback Summary:

N/A

BUDGET IMPACT: Total Cost: Proposed: 2023-2024: \$1,000,000 Previous Costs: 2019-2020: \$79,779: Preliminary Engineering 2023: \$48,730 Design support using Division professional services funds Approved in current biennial budget: Yes No N/A

Budget Offer Number:

2019-2020 Approved Budget: \$1,000,000 2021-2022 Approved Budget: Not funded

2023-2024 Approved Budget: Seeking Council approval to add project to budget due to PSRC grant award

Date: 6/20/202 Meeting of: Ci			File No. AM No. 23-072 Type: Consent Item	
Budget Priority Vibrant and Co				
Other budget i <i>If yes, explain</i>: N/A	mpacts or additional costs: Yes	⊠ No	□ N/A	
•	ax Revenue: \$135,000 egional Council (PSRC) Grant: \$865,000			
The obligation	deadline for the grant is July 15, 2023.			
☐ Additio	nal budget details attached			
COUNCIL REVI	<u>EW</u> :			
Previous Conta				
Date	Meeting		Requested Action	
8/18/2020	Business Meeting		Provide Direction	
Proposed Upco	oming Contact(s)			
F	Meeting		Requested Action	
Date				

ANTICIPATED RESULT IF NOT APPROVED:

The \$865,000 in Federal Grants would not be available for use if not approved.

ATTACHMENTS:

Attachment A: Project Area