



Memorandum

Date: 7/2/2024  
Meeting of: City Council

File No. AM No. 24-097  
Type: Staff Report

TO: Members of the City Council  
FROM: Mayor Angela Birney  
DEPARTMENT DIRECTOR CONTACT(S):

Public Works	Aaron L. Bert	425-556-2786
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DEPARTMENT STAFF:

Public Works	Vangie Garcia	Deputy Public Works Director
Public Works	Paul Cho	Traffic Operations Engineering Manager
Public Works	Hidemi Tsuru	Senior Engineer

**TITLE:**  
Status Update on Adaptive Signal Control Projects

**OVERVIEW STATEMENT:**  
Adaptive signal control technology monitors traffic in real-time and automatically adjusts signal timings to accommodate changing traffic patterns. There are two Adaptive Signal Control projects in the Capital Investment Program (CIP). One for the Downtown area and one for the Overlake area. The adaptive signal control system will be capable of adjusting signal timing and operations in real-time. This staff report provides a brief overview and status of the Adaptive Signal Control projects.

Additional Background Information/Description of Proposal Attached

**REQUESTED ACTION:**

- Receive Information
- Provide Direction
- Approve

**REQUEST RATIONALE:**

- **Relevant Plans/Policies:**  
**Transportation Master Plan**
  - Ensure Strong Support for Urban Centers
  - Improve Travel Choices and Mobility

**Community Strategic Plan Objective #3:** Ongoing investigation of community-driven safety concerns such as traffic volumes, high accident locations, bike lanes, crosswalks, and sidewalks to improve safety for pedestrians, bicyclists, and motorists.

- **Required:**  
N/A
- **Council Request:**  
N/A
- **Other Key Facts:**  
None

**OUTCOMES:**

These adaptive signal projects improve signal traffic operations on the most heavily travelled corridors in the Downtown and Overlake areas by improving traffic flow and responding faster to changing traffic conditions. The technology options will also help prioritize vulnerable users like pedestrians and bicyclists.

**COMMUNITY/STAKEHOLDER OUTREACH AND INVOLVEMENT:**

- **Timeline (previous or planned):**  
The Downtown Adaptive Signal Control Project implementation will start in the fourth quarter of 2024 with anticipated completion in the third quarter of 2025. The Overlake Adaptive Signal Control project is anticipated to start in late 2025.
- **Outreach Methods and Results:**  
Once the project is close to installation, the project team will meet with Communications on an Outreach Plan.
- **Feedback Summary:**  
N/A

**BUDGET IMPACT:**

**Total Cost:**

Adaptive Traffic Signal Control - Downtown: \$1,000,000  
Adaptive Traffic Signal Control - Overlake: \$972,405

**Approved in current biennial budget:**       Yes       No       N/A

**Budget Offer Number:**

CIP

**Budget Priority:**

Vibrant and Connected

**Other budget impacts or additional costs:**       Yes       No       N/A

***If yes, explain:***

N/A

**Funding source(s):**

Adaptive Traffic Signal Control - Downtown: Business Tax

Adaptive Traffic Signal Control - Overlake: Community Facilities District (CFD)

**Budget/Funding Constraints:**

N/A

**Additional budget details attached**

**COUNCIL REVIEW:**

**Previous Contact(s)**

Date	Meeting	Requested Action
N/A	Item has not been presented to Council	N/A

**Proposed Upcoming Contact(s)**

Date	Meeting	Requested Action
N/A	None proposed at this time	N/A

**Time Constraints:**

N/A

**ANTICIPATED RESULT IF NOT APPROVED:**

This is an informational briefing only; no Council action is requested.

**ATTACHMENTS:**

Attachment A: Adaptive Signal Control Projects - Staff Report 2024.pptx

Attachment B: Adaptive Traffic Signal Control - Downtown PIS.pdf

Attachment C: Adaptive Traffic Signal Control - Overlake PIS.pdf