

New Partnerships and Technologies

Wintana Miller, PE, PTOE ITS Washington Annual Conference December 2, 2019



Case Studies

 Community Transit TSP on SR communitytransit 99 in Lynnwood



 Pierce Transit TSP on SR 7 in Tacoma and WSDOT/Pierce County





Community Transit and City of Lynnwood – TSP on SR 99



DKS

Background on Community Transit TSP

- CT first deployed TSP in 1995
- Swift BRT service began in 2009
 - Everett, Snohomish County, Lynnwood, WSDOT,
 Shoreline
- TSP Operations Focused on Swift BRT



Interlocal Agreement (ILA) Community Transit and City of Lynnwood

Objectives of TSP:

- Improve on-time and overall performance of transit
- Maximize the people moving capacity of intersections
- Modifications to signal system operation should minimize adverse effects to other traffic

Interlocal Agreement (ILA) Community Transit and City of Lynnwood

Responsibilities:

- CT responsible for evaluation of transit signal priority performance
- Lynnwood responsible for preparation and update of TOD plans and TSP settings

DKS

City of Lynnwood – SR 99 Adaptive

- City of Lynnwood installed Adaptive Signal Control -TrafficWare SynchoGreen
 - Initial Implementation October 2016
- Community Transit considered a project stakeholder
 - Providing TSP was a requirement
- TSP not functional when SynchroGreen Implemented
 - Held TrafficWare responsible for providing TSP





Adaptive with TSP

- Spring 2019 SynchroGreen confirmed functionality of TSP approved by City of Lynnwood
- Successful results
 - Faster transit speeds
 - Maintaining progression on corridor
 - Happy with results
 - Successful partnership where city advocates for transit



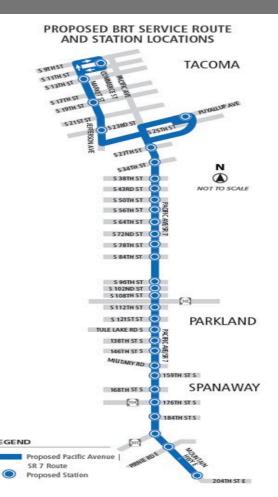
Pierce Transit, City of Tacoma and WSDOT- TSP on SR 7





Background on Pierce Transit TSP

- PT first deployed TSP on SR 7 in 2002
 - Multiple projects on SR 7
 - Signals owned by City of Tacoma and WSDOT
- Bus Rapid Transit on SR 7
 - Planned opening 2023
 - Upgrade TSP equipment





Pierce Transit TSP Upgrade

- Technical Advisory Committee
 - City of Tacoma
 - WSDOT
 - Pierce County
 - Tacoma Fire Department
 - Central Pierce Fire & Rescue













Project Objectives

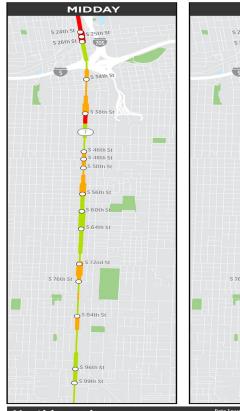
- Improve visibility, accuracy, and operational reliability of the TSP system
- Move people effectively and efficiently
- Promote partnerships between project stakeholders
- Maintain or improve level of safety for all road users



TSP Strategy Criteria

- Existing Transit Performance
- Volume to Capacity Ratio
- Conflicting Transit Movements
- Pedestrian Activity
- Near Side Bus Stops













Interlocal Agreements PT-Tacoma and PT-WSDOT

- Concept of Operation
- Establishes long-term objectives
- "TSP Guidebook" for ongoing operations, maintenance, adjustment protocols and equipment upgrades
- Data sharing between transit and traffic agencies



How do we improve?

- Partnerships
- Shared Objectives
- Data Sharing with Ease



Thank you!

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