Mercer Adaptive Signal Control

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Mark Bandy October 26, 2016



Seattle Department of Transportation

Our mission, vision, and core values

Mission: deliver a high-quality transportation system for Seattle

Vision: connected people, places, and products

Committed to **5 core values** to create a city that is:

- Safe
- Interconnected
- Affordable
- Vibrant
- Innovative

Presentation Overview

- What is SCOOT adaptive signal control?
- Project background
- Project phases
- Phase 1 implementation timeline

What is Adaptive Signal Control?



- Adjusts signal timing in real-time to match traffic patterns.
- Combines data from multiple sources.
- SCOOT is the algorithm we have selected.

Simplified Representation of Adaptive Control



Project Background

- In 2015, initiated planning process including systems engineering evaluation.
- Selected adaptive system in accordance with compatibility to existing signal management platform.
- Developed a phased implementation plan that packages adaptive deployment into 3 separate phases.

Project Phases



Mercer Adaptive Traffic Signal Control Project



Phase 1 Implementation Timeline

- Equipment installation Q2 and Q3 2016.
- Traffic simulation and software integration Q4 2016.
- System verification and beta testing Q1 2017.
- Go live end of Q1 2017.



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