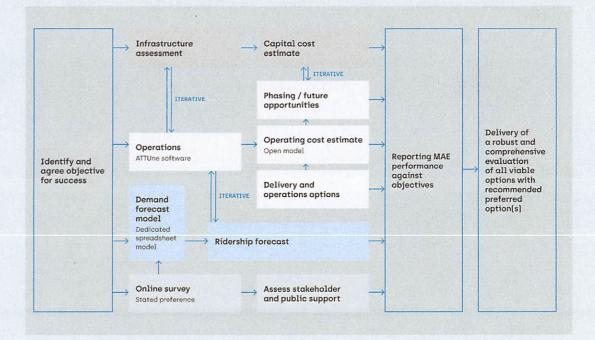
Feasibility of an East-West Intercity
Passenger Rail System for Washington State
Study overview and update



Study Scope

The key elements of the study include:

- Undertake an iterative process to:
 - Identify possible operating strategies and schedules
 - Undertake an assessment of the current infrastructure
 - Estimate potential ridership
 - Identifying any infrastructure needed
 - Capital costs
 - Ridership
 - Options for operation
 - Equipment needs
 - Operating costs
- Completion in June 2020



Works Undertaken or Ongoing

- Engagement / stakeholder outreach
 - Engaged with the JTC Workgroup
 - Met with BNSF and gained their support for the study
 - Undertaken two stakeholder events in Yakima and Pasco
 - Public and Stakeholder questionnaire online:

Steer.sawtoothsoftware.com/EastWest

Survey Code: Train

500 + responses by 24 - Feb (still open)

- We have obtained the information to develop a ridership model for the corridor
 - Model development is ongoing
 - Final stage will be the incorporation of the results from the Questionnaire
- We have obtained track data from BNSF and field vists
 - Scheduling model constructed and ready to test options
 - · We have developed passenger journey times for corridor
 - · We have identified where alignment or speed improvements are possible



Potential Schedule and Services

- Considerations
 - Avoiding Amtrak and Sounder Trains times between Seattle and Auburn
 - Stress testing possibility of freight conflicts between Auburn and Pasco to understand potential infrastructure needs
 - Hourly freight trains Auburn to Pasco
 - Passenger trains limited to 79 mph



Potential Schedule

Potential Travel Times

Seattle to Spokane

Morning	Midday
8:15 AM	12:15 PM
8:29 AM	12:29 PM
8:39 AM	12:39 PM
11:35 AM	3:35 PM
12:08 PM	4:08 PM
12:58 PM	4:58 PM
1:14 PM	5:14 PM
2:20 PM	6:20 PM
4:50 PM	8: 50 PM
	8:15 AM 8:29 AM 8:39 AM 11:35 AM 12:08 PM 12:58 PM 1:14 PM 2:20 PM

Spokane to Seattle

Station	Morning	Midday
Spokane	7:45 AM	11:45 AM
Pasco	10:16 AM	2:16 PM
Toppenish	11:22 AM	3:22 PM
Yakima	11:38 AM	3:38 PM
Ellensburg	12:28 PM	4:28 PM
Cle Elum	1:01 PM	5:01 PM
Auburn	3:55 PM	7:55 PM
Tukwila	4:08 PM	8:08 PM
Seattle	4:19 PM	8:19 PM

Potential Service Patterns to be Tested

Possible Individual Service Patterns (two-way)

Seattle to Spokane

Station	Daily	Twice Daily	Daily	Twice Daily	Daily	Twice Daily	Daily	Twice Daily
Seattle	*	*	*	*	*	*	*	*
Tukwila	*	*	*	*	*	*	*	*
Auburn	*	*	*	*	*	*	*	*
Cle Elum	*	*	*	*	*	*	*	*
Ellensburg	*	*	*	*	*	*	*	*
Yakima	*	*	*	*	*	*	*	*
Toppenish	*	*	*	*	*	*		
Pasco	*	*	*	*				
Spokane	*	*						

Infrastructure Improvements

- Speed improvements
 - Identified opportunities provide limited benefit given the possible cost only 3 to 4 locations – without significant rail right of way diversion
- Additional sidings for passing moves potentially needed (depends on freight frequency around passenger service)
 - Between West Easton and Cle Elum
 Possible options could include modest speed improvement
 - · At Cle Elum
 - At Thorp

Infrastructure Improvements – Station stops

Cle Elum

North side of railway, east of Bullit Ave

Ellensburg

- East side of railway, south of West 5th Ave

Connection to existing transit service

Yakima

- East side of railway, between W Martin Luther King Jr Blvd and W Yakima Ave

Connection to existing transit service

Toppenish

- Northeast side of railway, south of S Toppenish Ave

Station amenities would include simple heated shelters

(Example Leavenworth Station)

Provision for an eight car train

(Platform would be built to required train length, TBD based on ridership)

Leavenworth Station



steer

Next Steps

- Identify additional operating strategies and schedules
 - Consider one or two trains per day in each direction Spokane to Seattle via Pasco
 - Consider truncated service options to Seattle
 - Consider service connectivity to provide east connection to
 - · Empire Builder
 - Cascades services
 - Sounder services (Commuter and LRT)
 - Amtrak services
- Test possible options within scheduling tool (ongoing) and ridership model
- Identify infrastructure improvements and adjust operating strategies and schedule to optimize (ongoing)
- Capital cost estimates for track and stations (ongoing)
- · Operating costs (Ongoing)



Deliverables - Early Summer

- · Report, including
 - · Ridership chapter detailing:
 - Methodology
 - Assumptions
 - · Ridership projections
 - Operations chapter detailing:
 - Options developed
 - Results
 - Infrastructure chapter detailing:
 - Current conditions
 - Improvements needed
 - Costs
 - Equipment chapter detailing:
 - Equipment needs
 - Costs
 - · Operator options chapter detailing:
 - Possible options for service operation

- Community support chapter detailing:
 - Outreach undertaken
 - Results
- Multiple account evaluation chapter detailing:
 - Metrics identified
 - Overview of the options considered
- · Draft; and,
- Final report

		Market Street	
Account	Criteria	Option 1	Option 2
Financial	Capital Cost	\$350 M	\$400M
	Operating cost	\$8 M	\$12 M
	Revenue	\$2.5 M	\$4.0 M
Transportation	Service Quality	ııl	all
	Journey time	7 ½ Hrs	6 ¾ Hrs
	Ridership	125,000	200,000
	Catchment	1.5 M	1.5 M
	Connectivity (wider)	ull	ull
	Connectivity (transit)	ull	الد
Economic	Equity	ali	ııl
	Economic benefits	all	all
	Journey time reliability		ail
Deliverability	Complexity of infrastructure	ull	all
	Phasing Opportunity	all	.nl

