

Pre-Baseline Project Cost Estimate Management

System Expansion Committee

06/08/23



Today's presentation

- Overview of managing project cost estimates for pre-baseline projects, including preparing, reviewing and validating estimates.
- No board action required.

When cost estimates are updated



- >1% engineering
 - Board issues plan for voter approval
- Initial Estimate

When cost estimates are updated



Initial Estimate

- >1% engineering
- Board issues plan for voter approval

Alternatives Development

- 1-2% engineering

Update Estimates

- Board identifies Preferred Alternative (PA) and others to study in Draft EIS

Draft EIS

- Technical analysis & approx. 10% design

Update Estimates

- Board confirm or modifies PA

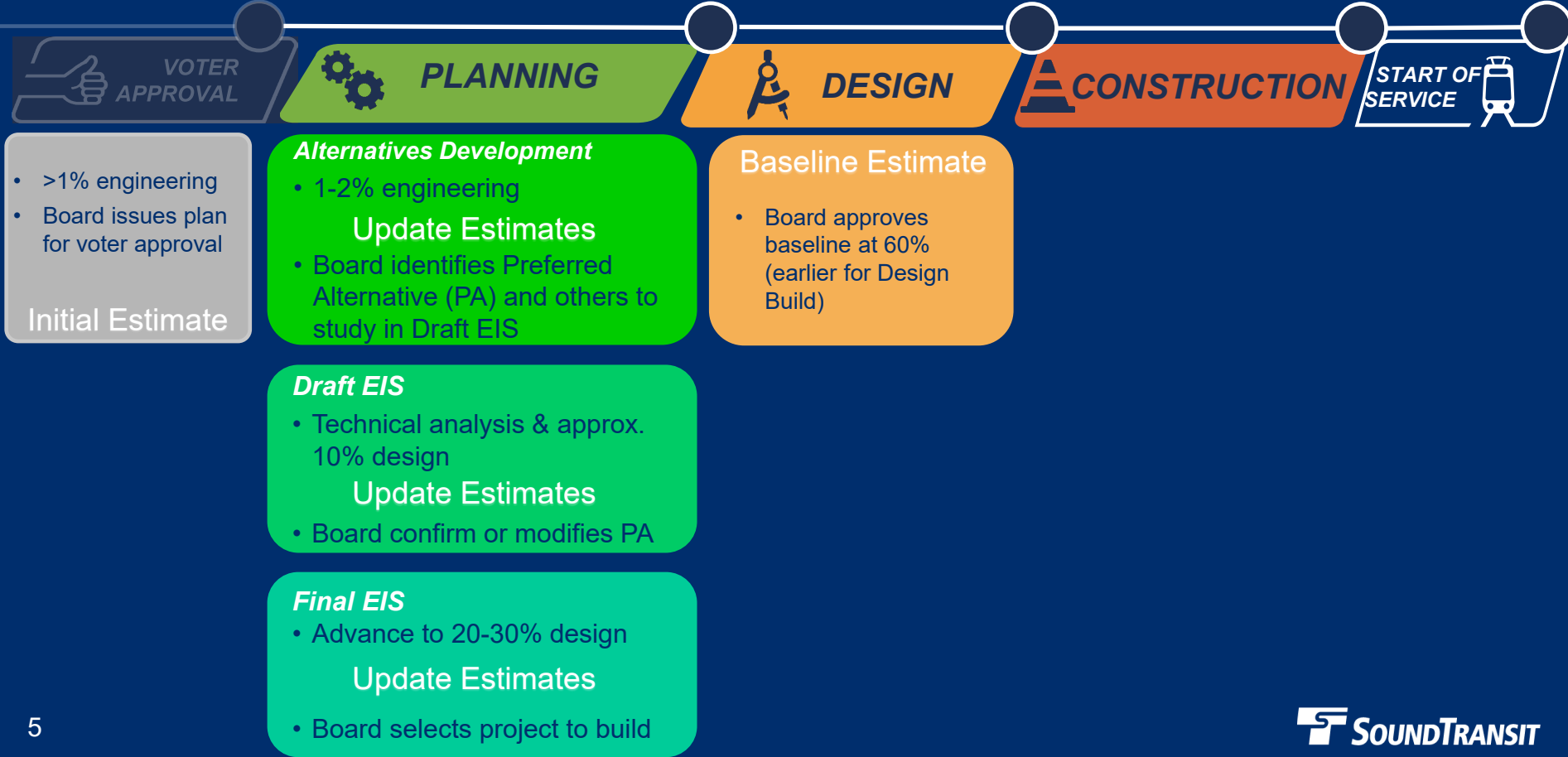
Final EIS

- Advance to 20-30% design

Update Estimates

- Board selects project to build

When cost estimates are updated



Cost estimate validation

Design Complete & Initial Estimate Prepared

- Is it complete?
- All requirements met?

Review by ST Cost Engineer & Independent Estimator

- Is it high quality?
- Consistent with similar projects?

Value Engineering and QRA

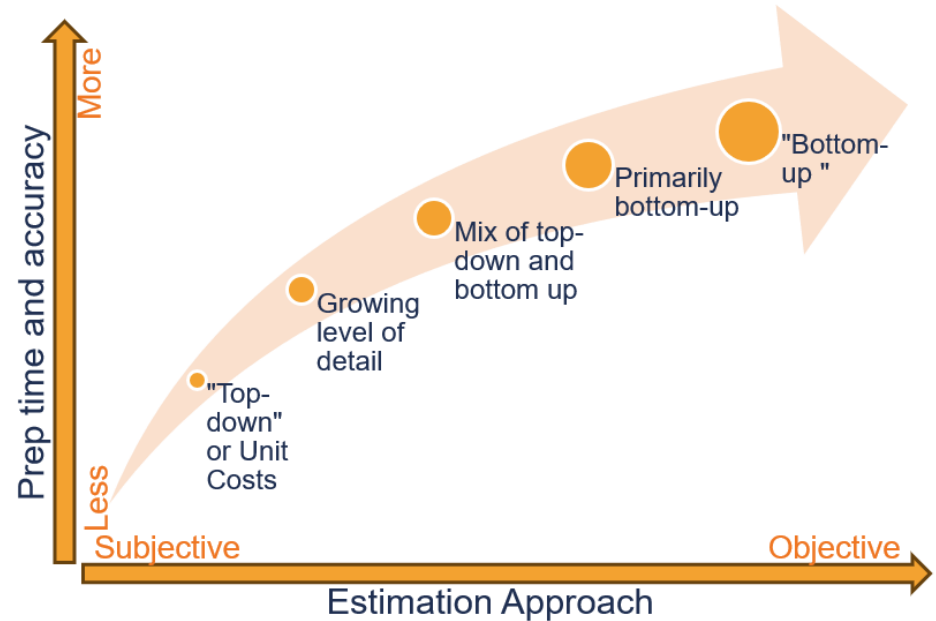
- Are we getting the best value?
- Is contingency enough to cover risks and uncertainties?

Finalize and Report Out

- How does it compare to the finance plan?
- *Board briefing or action*

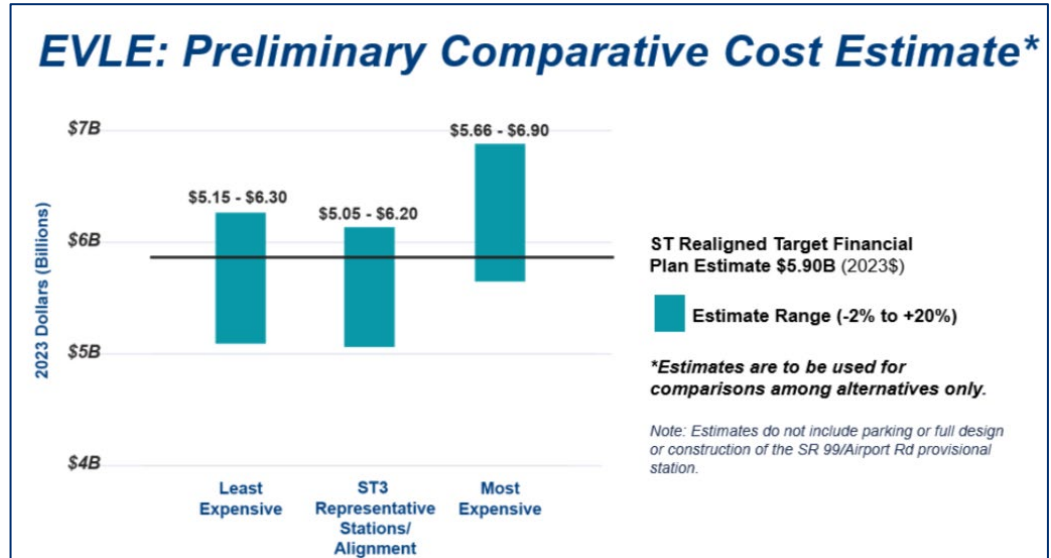
Cost estimate classes and accuracy

- ST3 initial estimates were "Screening" or "Feasibility" type estimates
- As design advances, the methodology changes and accuracy increases
- Some elements may be different classes than others within a project



Establishing cost estimate range

- During development, several alternatives are considered
- Each estimate has an uncertainty range per its class
- Range is based on industry standard and ST experience



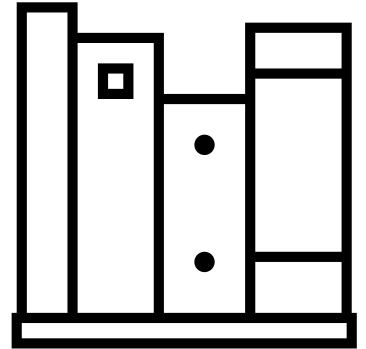
Everett Link example from today's presentation

How changes and variances are tracked

- Technical review & analysis is done for each major cost estimate
- Perform reconciliation to ensure estimates represent fair and reasonable costs
- Complete a cost estimate variance analysis including differences from the voter approved plan and other prior estimates

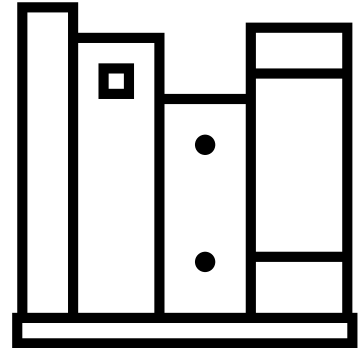
Financial Plan updates

- The Financial Plan includes an estimate for all projects in planning to ensure the full cost is accounted for
- Estimates originate from voter-approved plans and are updated at major milestones based on Board actions
- The Financial Plan is updated in the spring and fall; there may be a short lag between a Financial Plan estimate and a new estimate



2021 program realignment

- The Financial Plan was updated to reflect affordable delivery dates
- Most ST3 projects were updated in the plan based on interim cost estimate trends and schedule changes to ensure an affordable plan



Future project briefings and actions

- 2023 briefings and actions for development projects:
 - Everett Link: identify alternatives for EIS evaluation (today's meeting)
 - Stride Bus Rapid Transit baseline (pre-baseline briefing today; July action for baseline)
 - Ballard Link: Denny Station status report and potential action on preferred alternative (July)
 - OMF South EIS update (Q3/ Q4)

Thank you.



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