

# TRIUNITY



## SOUND TRANSIT: ST3 COST ASSESSMENT TASK 1 DRAFT REPORT

March 25, 2021

# TIMELINE OF REPORTS

## Task 1: Review and Assessment of Past Cost Estimates and Trends

- » Draft Report – Week of March 25th Board Meeting
- » Final Report – April 2021

## Task 2: Estimating Methodology Review and Recommendations

- » Draft Report – May 2021
- » Final Report – June 2021

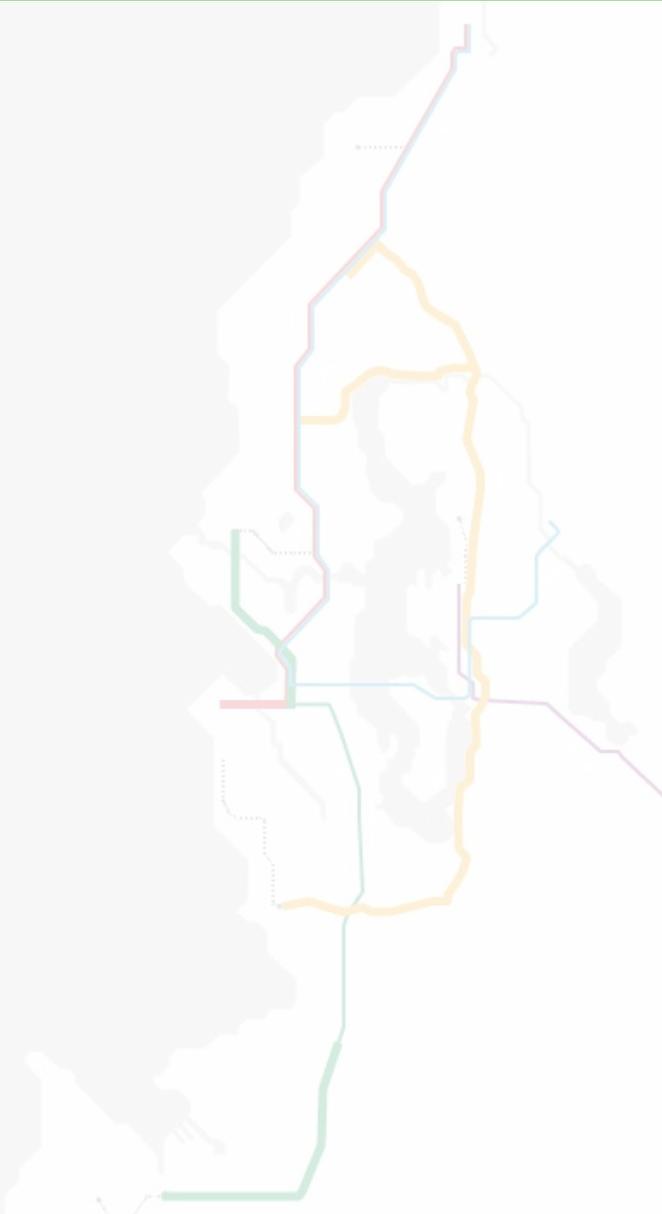
## Task 3: Management Methodology Review and Recommendations

- » Draft Report – July 2021
- » Final Report – After Receiving Board Comments

# FOCUS OF THIS REPORT

- » Are the 2020 cost estimates within an acceptable range for ~10% design?
- » What were the main cost drivers in the 2020 estimate that led to the increases?
- » Have all elements been captured in the 2020 estimate?

**This report answers the “What”, the second report due in May 2021 answers “Why”.**



# KEY TAKEAWAY

**The 2020 cost estimate is within an acceptable range for an approximately 10% design.**



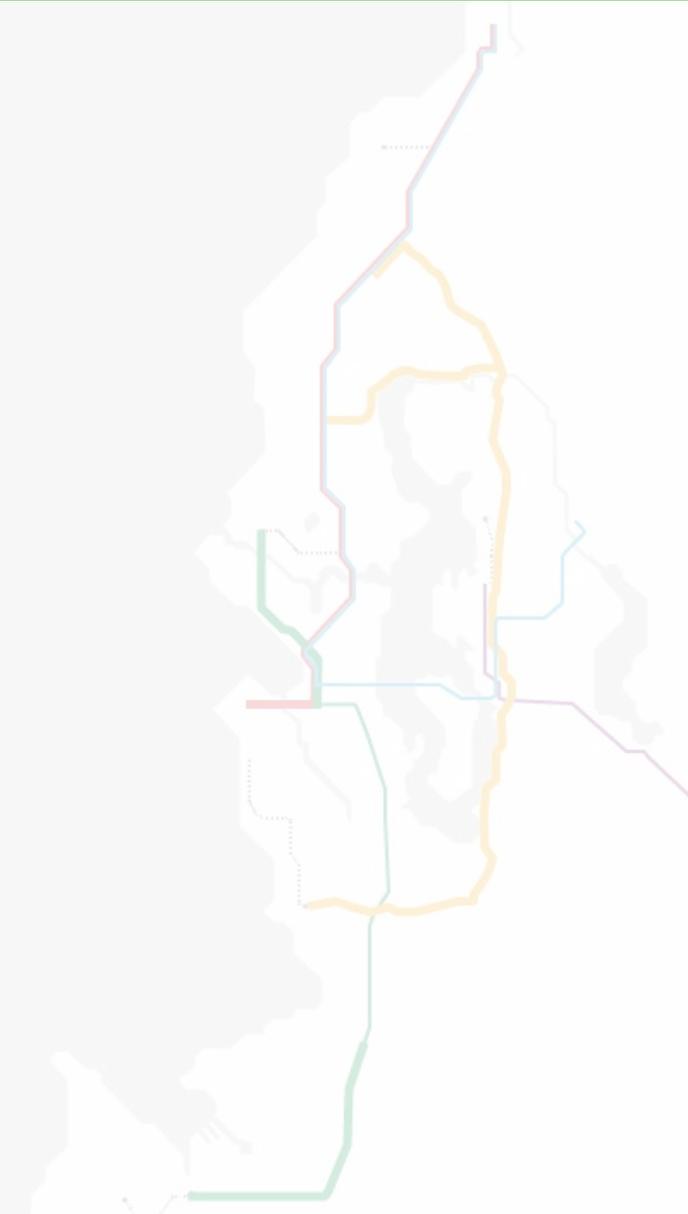
# HOW ST3 COST ESTIMATES WERE DEVELOPED

## » Initial Estimates

- Cost per feet/mile
- Historical projects
- No specific project defined elements
- Lack of preferred alignment

## » Project Refinement at 10% Design

- Define and develop a list of risks
- Perform environmental studies
- Refine sizing of structures, stations, etc.



# APPROACH: HOW WE PERFORMED THE WORK

- » Complex projects (particularly WSBLE)
  - Need to assign specialists
    - » Large transit project experience
    - » Tunneling
    - » Real estate
    - » Environmental
    - » Systems
- » Assigned Experts to Specialized Areas
  - Utilized FTA's Standard Cost Categories
    - » Vetted all categories for accuracy



# GENERAL OBSERVATIONS: PHASE 2 (2020) ESTIMATES

- » Utilization of Unit Cost Library
  - Robust
  - Lacks clarity in areas (*further analysis in Task 2: May 2021 report*)
- » Major cost drivers
  - Right-of-way
  - Environmental
- » Potential Opportunities
  - Bridge type
  - Wall quantity reduction
  - Parking garages



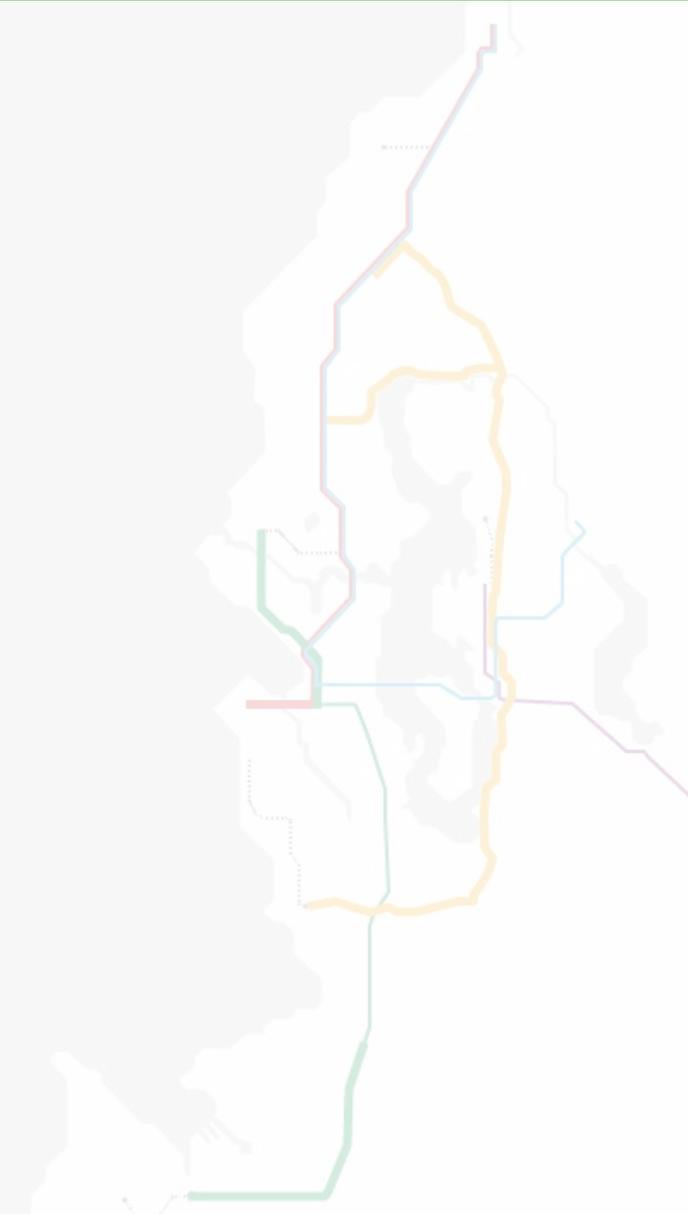
# GENERAL OBSERVATIONS: PHASE 2 (2020) ESTIMATES CONTINUED..

## » Potential Risks

- Maintenance Facility cost
- Indirect costs
- Some items still under review

## » Major Takeaway

- *Program-wide estimates are within an acceptable range for ~10% design*



# EXPECTATIONS FOR ESTIMATES

## What to expect from these validated estimates at 10% design:

- » There WILL be changes
  - Cost the knowns
  - Look for savings opportunities
  - Be realistic about challenges and unknowns
    - » Carry appropriate allowances and contingencies
- » Long way to go
  - *Baseline likely not set until ~60% design*



# NEXT STEPS

- » **Final Cost Estimate Assessment Report**  
**the week of April 22<sup>nd</sup> Board Meeting**
  - » Peer Agency Comparison
  - » Bus Base North
  - » Address Board Comments

