### **Escalators and stairs** Where we go from here

Sound Transit Board October 25, 2018



## Why we're here

 Escalator performance at UW Station has not met customer or agency expectations

Customers have repeatedly experienced major disruptions

We have a plan to fix the problem



#### Frequency of outages

4.5x

### Maintenance cost per unit

3.6x





**Capitol Hill** 

UW

### What we've done

 Studied options for maintaining or modernizing current escalators vs. replacing all units

### **Conducted Total Cost of Ownership (TCO) analysis**

**Developed preliminary replacement timelines** 

## Why replacement?

 Less expensive to replace now than maintain current units through expected end of useful life (2025)

Better reliability for customers years sooner

# What we're doing

- 1. Execute emergency stair protocol
- 2. Complete repairs recommended by consultant
- 3. Transfer UW maintenance to manufacturer
- 4. Convert back stairs for full-time use
- 5. Connect sub-mezzanines
- 6. Replace two down escalators with stairs
- 7. Replace the other 11 escalators

Done Q4 2018 Q4 2018 Q1 2019 2019 2019-2022 2019-2022

Complete

### **Public stair location**

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Skip the line. Get the app.

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## Submezzanine connection

# Capitol Hill Station Washington () >

### Problem:

 Public stairs available from mezzanines to surface, but platform access depends on escalators/elevators
Solution:

Convert stairs to all levels for permanent public use (2019)



# **U** District Station

### Solution:

Public stairs when station opens in 2021

**Contractor change order underway** 

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NEXT LINE TO TO AIRPORT STATION

NEXT LINK TRAIN IN 5 MIN TO ROOSEVELT STATION

### **Public stair location**

## <sup>12</sup> U District Station

## **Downtown Seattle transit tunnel**

- Taking ownership from King County Metro in 2020
- Unknown scope of maintenance needs
- Inheriting 36 escalators and 22 elevators





### **Bottom line**

- UW & Capitol Hill will have public stairs by early 2019.
- U District Station will have public stairs upon opening.
- We will replace all UW Station escalators.
- Staff will return to the Board to authorize funds in 2019.
- UW replacement begins in 2019, complete in 2022

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### Message to our riders

We apologize.

We have learned valuable design & procurement lessons. We have a plan. Any station with escalators will also include stairs. We will only install heavy duty escalators. Future elevated or tunnel stations will have redundant access.

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### **Questions?**

