

# ***Asset Management Program Update***

*Community Oversight Panel*

6/11/2025



# Why we are here

- To provide an overview regarding updates to the agency's Enterprise Resource Planning (ERP) and Enterprise Asset Management (EAM) Systems
- To provide an update on current activities, initiatives and future plans in addressing asset conditions

# Introductions

- Stephanie Ratko – Director, Business Transformation
- Vivian dela Rosa – Director, Enterprise Asset Management
- Vivian Wei – Deputy Director, Transit Assets

# Initial Questions from COP

1. “Please update us on the status of the asset management system. Have you released an RFP for the software and system integrators?”
2. “Can you summarize the capabilities you will request in the new system. In particular, what planning functionality will it have? I’m wondering about things like:
  - a. Forecasting of deterioration of bridges, track, power cabling and equipment, etc.
  - b. Cost of near-term and long-term renewal needs – financial planning and programming.”
3. “Have you done quantitative research on the rate of deterioration and the rate at which new renewal needs arise, based on all the data you have been collecting?
  - a. If so, can you report on the results. Or if not, when do you plan to do this?”

# ERP/EAM Transformation Program Overview

Sound Transit is replacing and tightly integrating the agency's Enterprise Resource Planning (ERP) and Enterprise Asset Management (EAM) systems.

# Enterprise Asset Management (EAM) System

*Critical business information system*

- Foundation for asset management and stewardship functions
- Creates and tracks work orders to make sure maintenance gets done on time
- Connects people, processes, and technology together
- Ensure assets are in good working condition so they last longer and provide better value
- *Examples of assets are equipment, facilities, infrastructure, rolling stock*

# Enterprise Resource Planning (ERP) System

## *Critical business information system*

- Foundation for finance, HR, payroll and purchasing functions
- Everyone works from the same, current information
- Each person sees only what they need for their job
- Automates business rules for smooth workflow

# Program Activities

- Agency mobilization: 2023-2024
- Procured strategy consultants: 2023
- Roadmap & implementation planning project: 2024-2025
- Data preparation & migration planning project: 2025
- Chart of Accounts redesign project: 2025
- Reports cataloging project: 2025
- Procure ERP and EAM systems and implementors: 2025



# EAMS System Replacement Improvements

## System Functions



## Expected Outcomes

- Boost public trust
- Streamline maintenance processes
- Improve tools and equipment use
- Advance maintenance methods
- Inventory optimization
- Better support oversight and management of critical resources

# ERP System Replacement Improvements

## System Functions



## Expected Outcomes

- Boost public trust
- Drive operational efficiency
- Improve operations and finance transparency
- Enhance data-driven decision making
- Automate manual business processes
- Streamline payroll processing

# Program Stakeholders

- All Sound Transit Departments
- King County Metro

## Activities include:

- Collaboration on future-state vision
- Gathering comprehensive RFP requirements across functions
- Engaging Change Champions to drive transformation through targeted communications and focused training initiatives

# Next Steps

- Request additional budget for implementation of both ERP and EAM systems replacements in the 2026 budget process.
- System implementations: 2026-2029

# Asset Management

Update on current activities, initiatives and future plans in addressing asset conditions

# Asset Management Division Verticals

Enterprise  
Asset  
Management

Asset  
Management  
Engineering

Facilities &  
Systems  
Maintenance

Rolling  
Stock

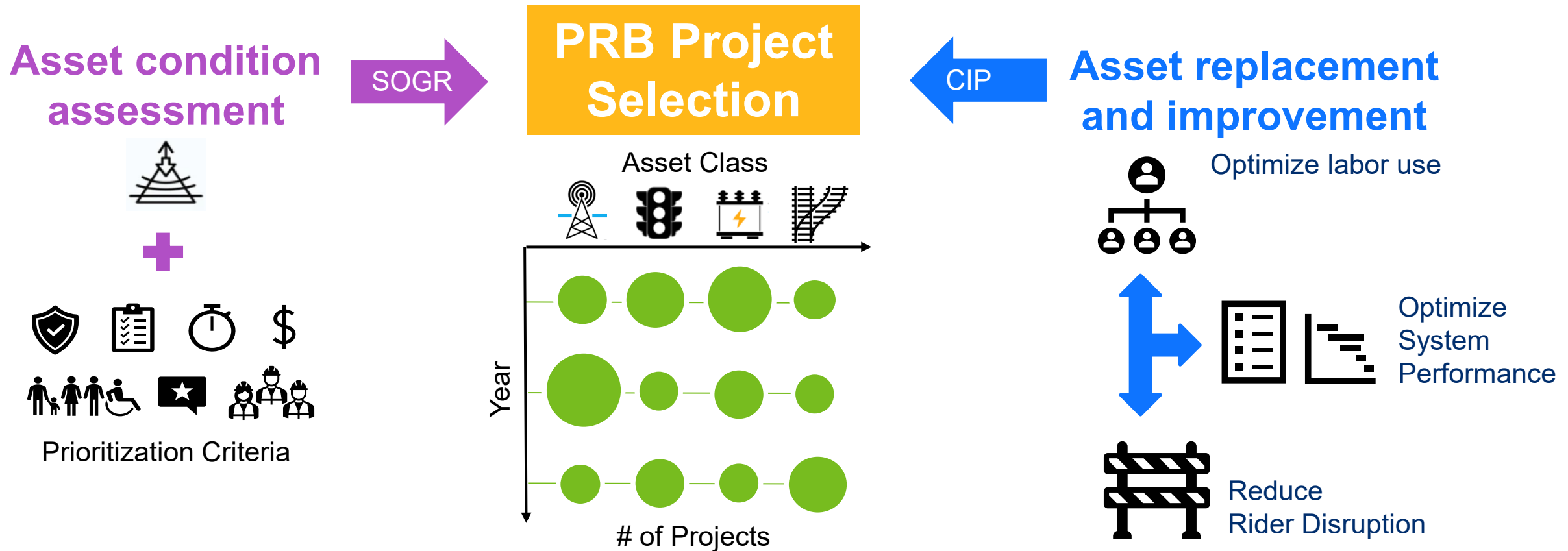
Infrastructure

Transit  
Technology

FTA Asset Category	FTA Asset Class	ST Asset Class
Equipment	General Equipment	Art, Safety Equipment, Furniture & Fixtures, Small & Attractive
	Maintenance / Construction	Equipment
	Non-revenue vehicles	Non-Revenue Vehicles
Facilities	Parking Facility	Electrical, Elevators, Escalators, Fire Alarm & Detection, Fire Suppression, HVAC, Plumbing, Site/Property, Facility Structure, Stormwater
	Passenger Facility	
	Administration Facility	
	Maintenance Facility	
Infrastructure	Communication & Control	Access Control, CCTV, Communications, Computer & Servers, Passenger Information, Radio, SCADA & BMS, Network
	Guideway	Bridges, Tunnel, ROW Structures, Track
	Intangible	Intangible, Software
	Land	Land
	Power	OCS, TPSS
	Revenue Collection	Fare Collection
	Tunnel Support	Emergency Ventilation System
	Vehicle Control & Signaling	Signal
Rolling Stock	Bus	Bus
	Railcars	Light Rail Vehicle (LRV), Commuter Rail Vehicle (CRV)

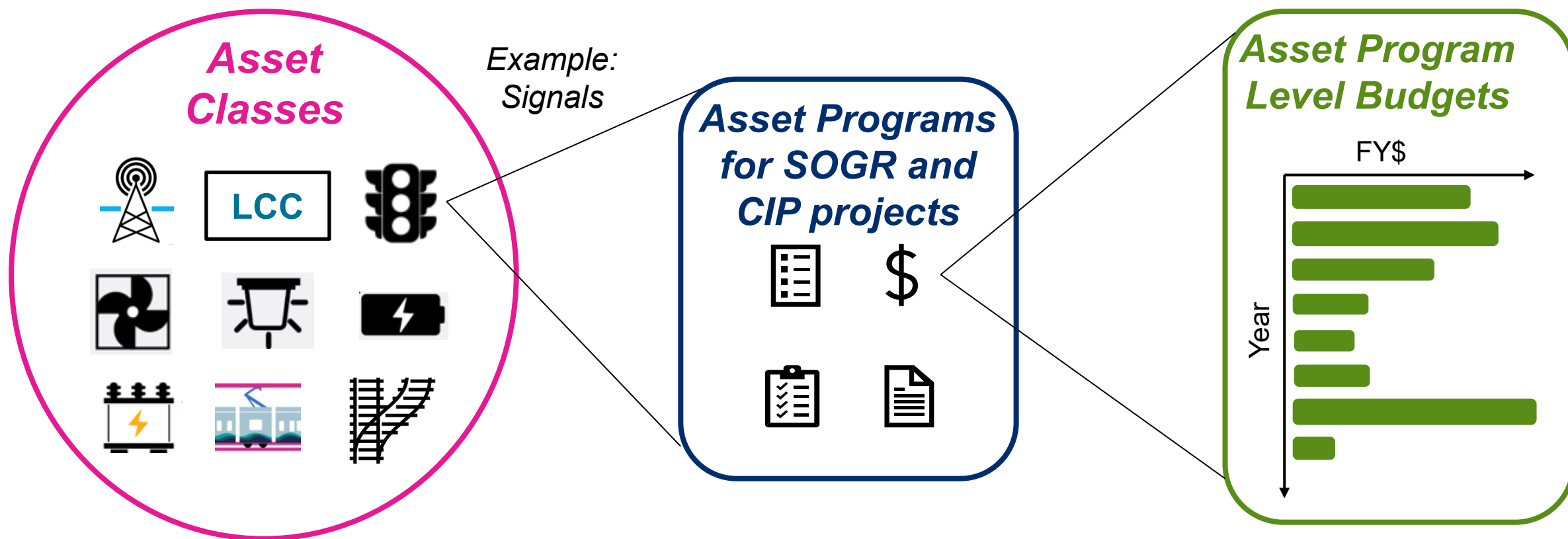
# New Asset Based Service Project Prioritization

*Asset program budgets are informed by the assets condition assessments and by replacement and improvement requests to the Project Review Board*



# New Asset-Based Budgeting Model

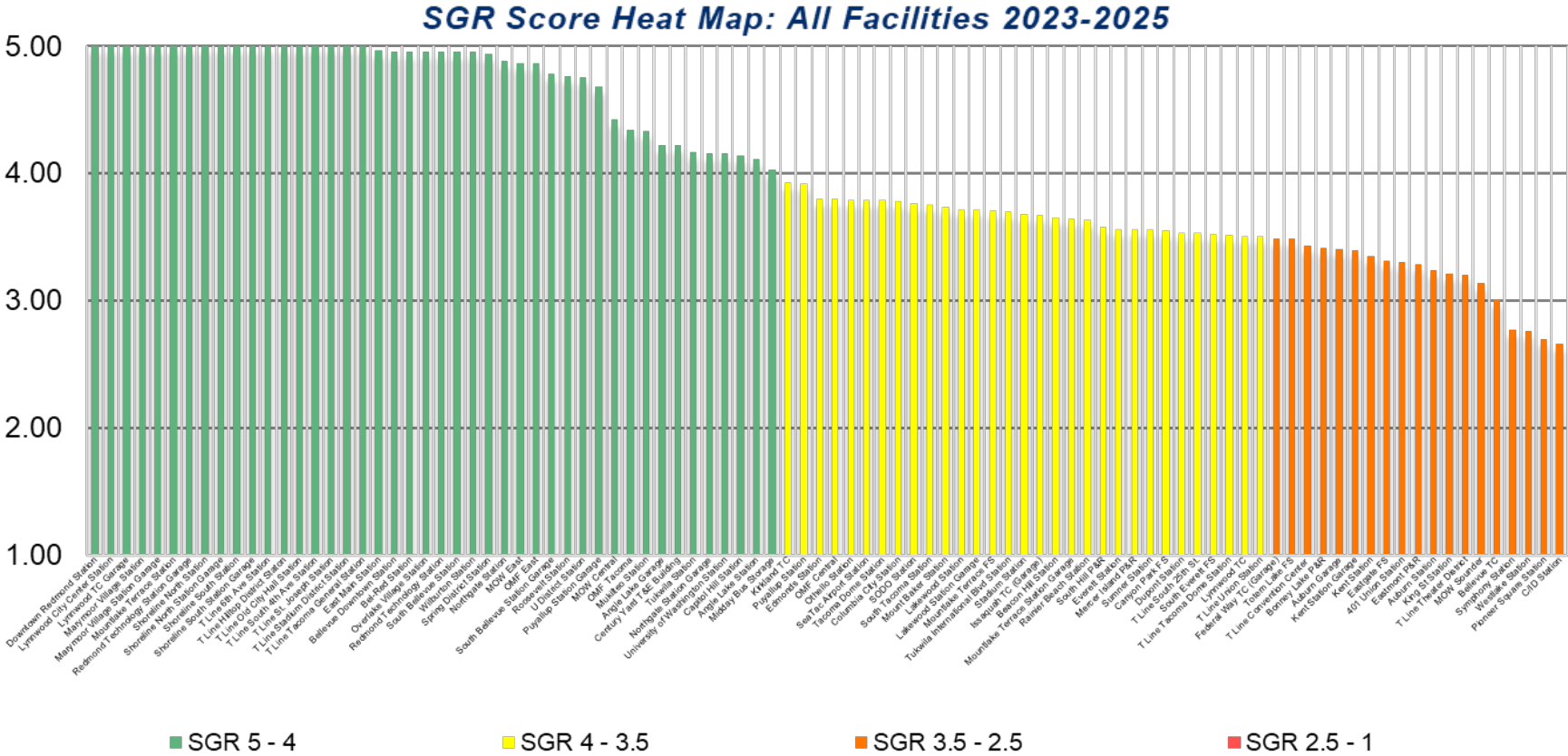
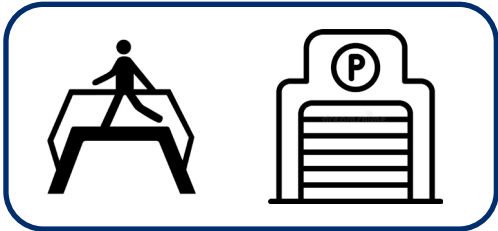
*Each asset class, or group of assets has an Asset Program and based on its approved service projects budgets, the asset owner can better manage related service projects*





# FACILITIES, PEDESTRIAN BRIDGES AND GARAGES

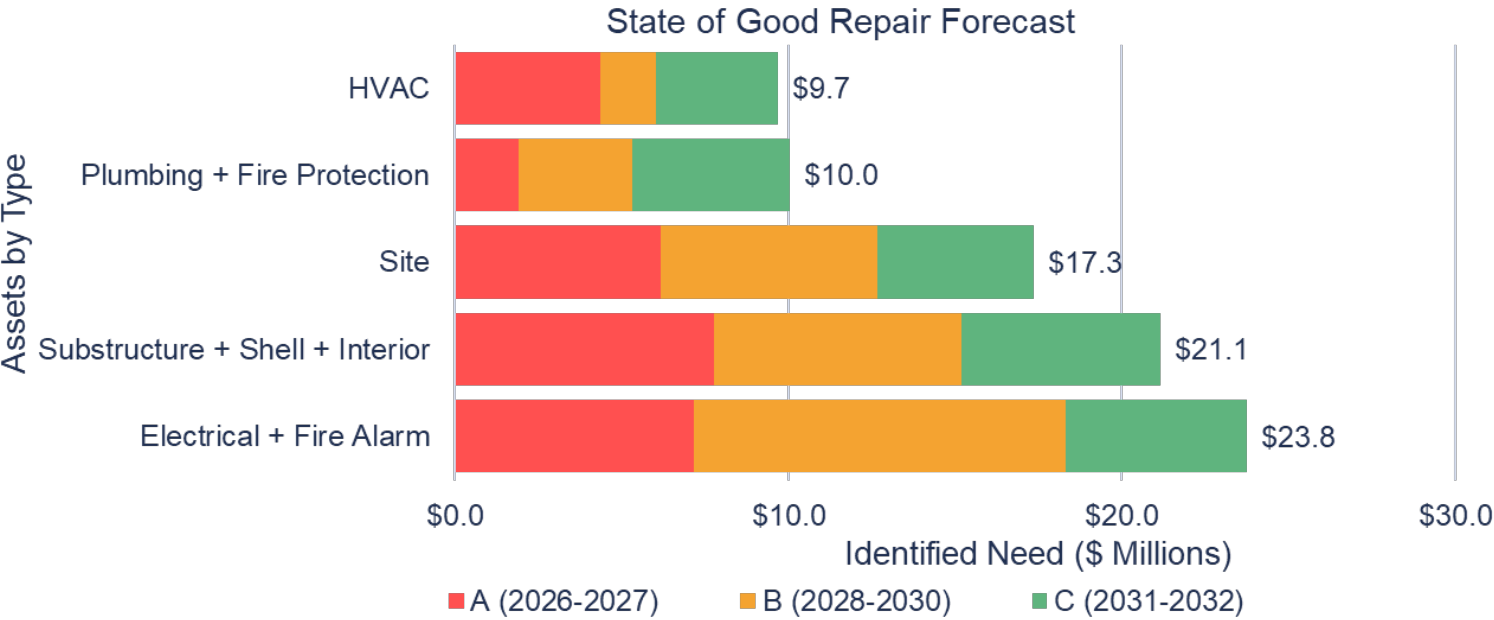
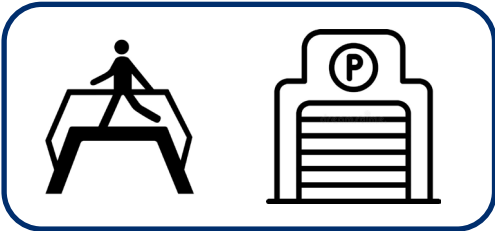
- Continuous collection of condition assessment data for over 100 facilities
- Structural assessments conducted on a regular cycle:
  - Pedestrian bridges: every 5 years
  - Parking garages: every 3 years



2023-2025 SGR Score Average:  
Weighted Condition Rating:  
**4.08**

# 6-YEAR FACILITY RENEWAL-NEEDS FORECAST

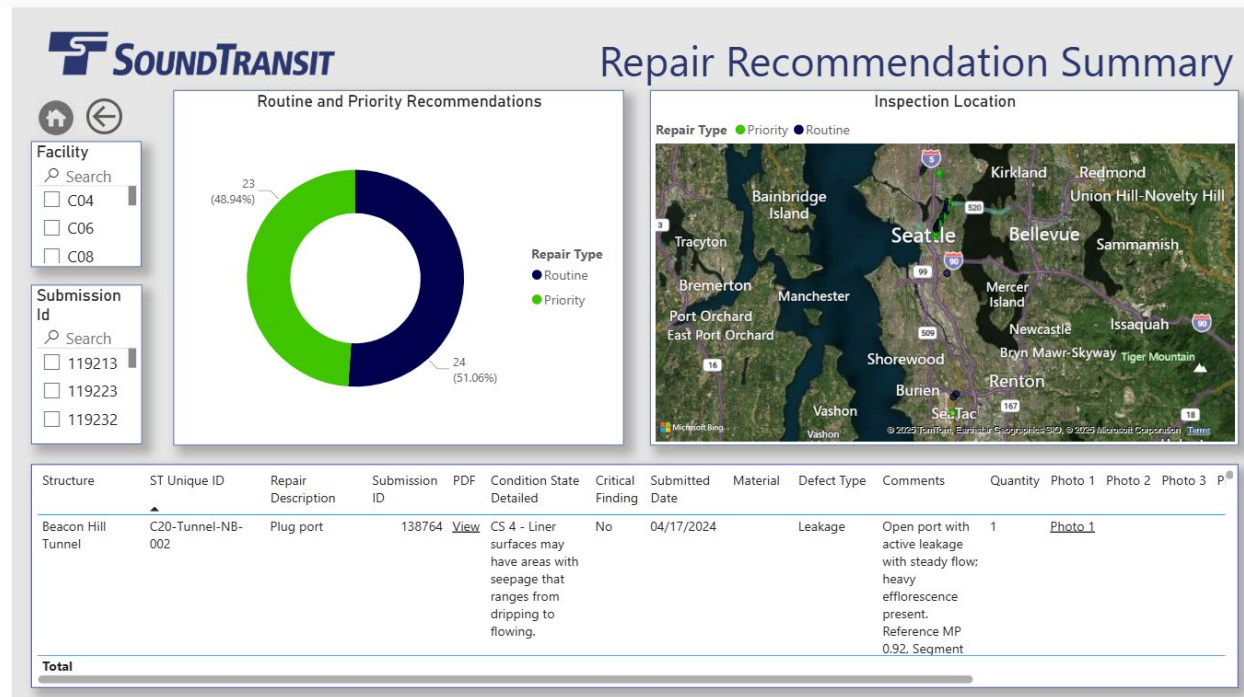
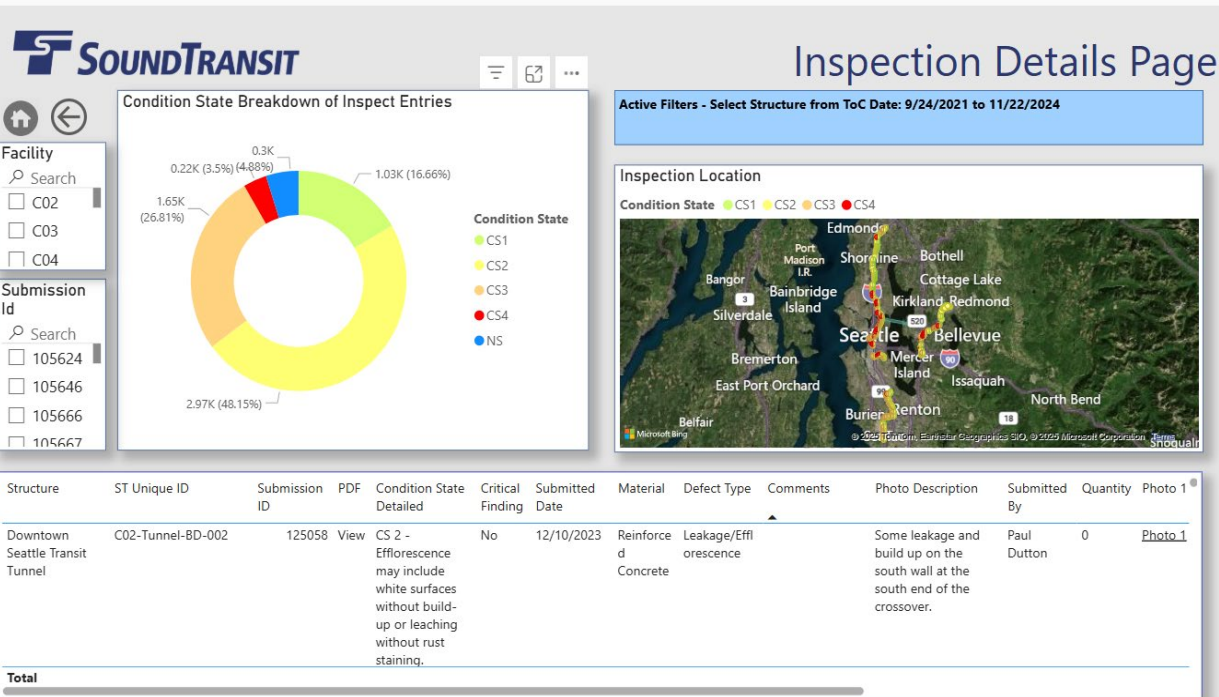
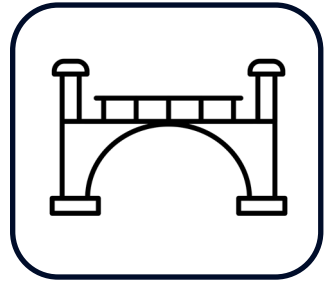
Forecasted facility renewal needs by asset class from 2026 to 2032



\* Excludes vertical conveyance as it is managed under a separate program, but condition is still factored into State of Good Repair scoring and forecasting.

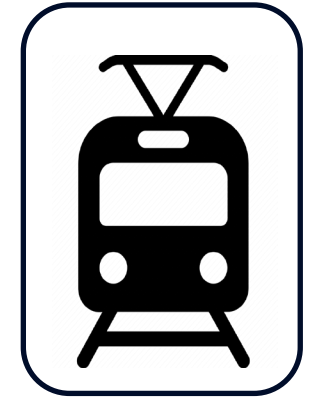
# BRIDGE and TUNNEL

- Developed and published a structural inspection standard to ensure consistent condition assessment of critical infrastructure assets
- Ensured timely inspections, prioritized defect repairs, and implemented corrective actions to maintain safety and reliability



# LIGHT RAIL VEHICLES

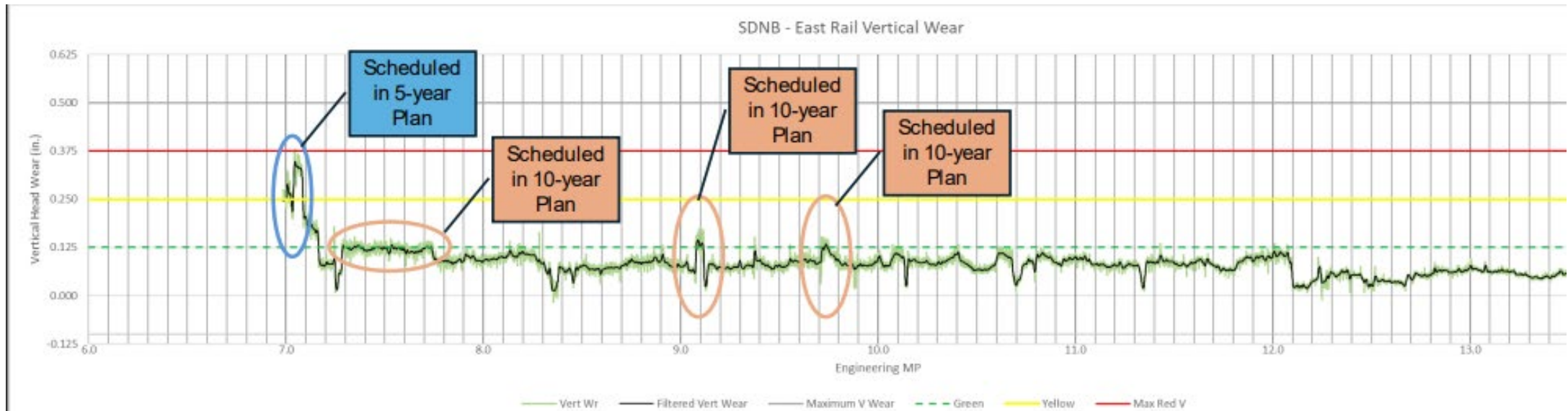
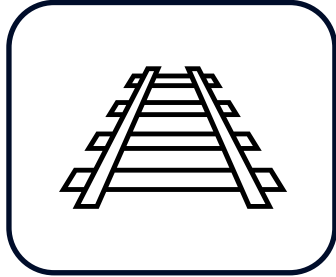
Conducted preliminary analysis on average deterioration rates based on data collected on **Feb 2025**



		2007 ST1's						2011 ST1's					
SubGroup	Element	Excellent	Good	Fair	Marginal	Worn	Avg Condition	Excellent	Good	Fair	Marginal	Worn	Avg Condition
Roof	Brake Resistors	0%	0%	84%	16%	0%	3.18	0%	0%	100%	0%	0%	3.20
	Inverters	0%	0%	100%	0%	0%	3.38	0%	0%	100%	0%	0%	3.44
	APSE	0%	0%	84%	16%	0%	3.26	0%	0%	100%	0%	0%	3.42
	HVAC	0%	0%	100%	0%	0%	3.55	0%	0%	100%	0%	0%	3.60
	Pantograph	0%	0%	100%	0%	0%	3.63	0%	0%	100%	0%	0%	3.63
	HSCB	0%	4%	84%	12%	0%	3.24	0%	0%	95%	5%	0%	3.18
	Lightning Arrestor	0%	0%	100%	0%	0%	3.65	0%	0%	100%	0%	0%	3.68
	Air Compressor	0%	32%	68%	0%	0%	3.79	0%	5%	95%	0%	0%	3.64
	Line Choke	0%	0%	100%	0%	0%	3.66	0%	0%	100%	0%	0%	3.51
Trucks	Axles	0%	3%	89%	8%	0%	3.23	0%	2%	98%	0%	0%	3.25
	Traction Motor	0%	0%	100%	0%	0%	3.49	0%	1%	99%	0%	0%	3.46
	Gear Box	0%	0%	100%	0%	0%	3.50	0%	0%	100%	0%	0%	3.45
	Caliper	0%	0%	60%	29%	0%	3.11	0%	0%	46%	43%	0%	3.03
	Coupler	0%	0%	50%	50%	0%	3.01	0%	0%	43%	58%	0%	2.98
	EHU	0%	0%	68%	32%	0%	3.11	0%	0%	45%	55%	0%	3.01
Cab Exterior	Cabs A & B	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
Car Body	Skin	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
Cab Interiors	Panel	0%	71%	29%	0%	0%	3.86	0%	51%	49%	0%	0%	3.76
	Master Controller	0%	0%	88%	12%	0%	3.17	0%	0%	100%	0%	0%	3.22
	TOD	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
	MMI	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
	Breaker Panel	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
	Radio	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
	Windows	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
Passenger Area	Seats	0%	0%	100%	0%	0%	3.00	0%	0%	100%	0%	0%	3.00
	Windows	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
	Doors	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
PIS	Interior Destination Signs	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
	Exterior Destination Signs	0%	100%	0%	0%	0%	4.00	0%	100%	0%	0%	0%	4.00
Cameras	Cameras	0%	99%	0%	0%	1%	3.95	0%	100%	0%	0%	0%	4.00
Average of Overall Fleet Condition		3.63						3.61					

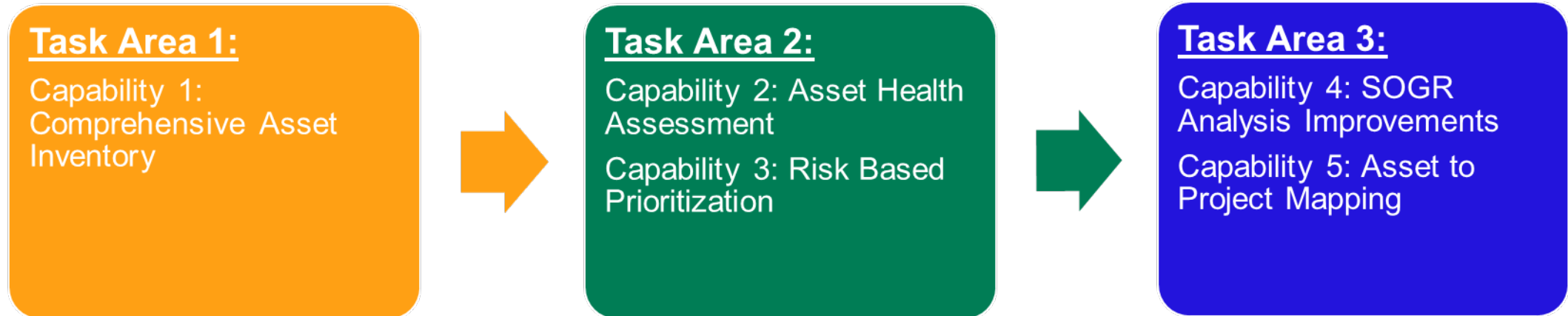
# TRACK

- Established a Track SOGR (State of Good Repair) framework using useful life benchmarks and inspection data
- Ongoing accumulation of inspection and condition data to support future modeling



# NEXT STEPS

- Roadmap developed to advance capability in analyzing asset deterioration and forecasting renewal needs
- Focused on maturing three core task areas
- 2025 priorities:
  1. Traction Electrification (TPSS)
  2. Overhead Catenary System (OCS)
  3. Track
  4. Electrical Systems





*Thank you.*



 *soundtransit.org*

