

"Is the Sky Really Falling?" Communicating
TAM Results - TRB Asset Management Conference
Emily M. Burns, PMP & Colleen Fegley

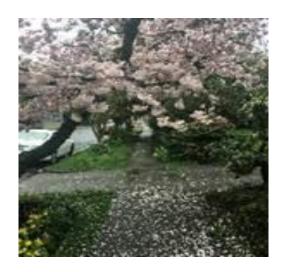


Project Overview

- Staffed with project manager, project engineer, intern coordinator, 14 interns
- Sidewalk asset data update/validation of existing attributes (material, width, planting strip, etc.)
- System-wide list of vertical differences, obstructions, minimum widths, vegetation issues, and other elements
- Establish condition criteria and update individual asset condition ratings
- Collection tools, IT system improvements, and data uploads
- Provide externally facing, user-friendly, and dynamic maps
- Project report and recommendations













Sidewalk Assessment Timeline

Jan - Mar 2017

Project planning

Design

Tool testing

Sept 2017

•End of data collection

Jan - Feb 2018

Draft executive summary Q2 - Q4 2018

- Pilot repair prioritization
- Publish final report
- •Implement Inspection Tool
- Publish external web maps

















May 2017

•Start of data collection

Oct - Jan 2018

- Post-process data
- Update asset condition data

March - April 2018

- •Executive Summary
- Council Briefing
- Options Analysis

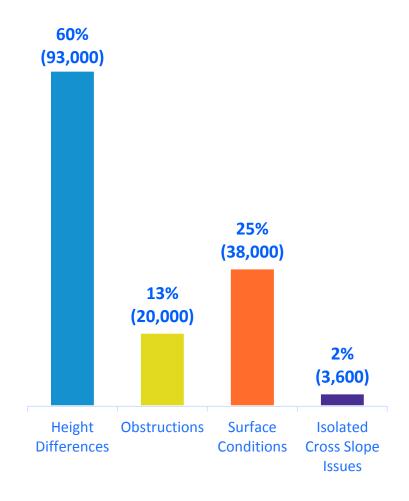
June 2019

- UpdateTransportation Status& Condition Report
- •Implement funded programs supported by Options Analysis

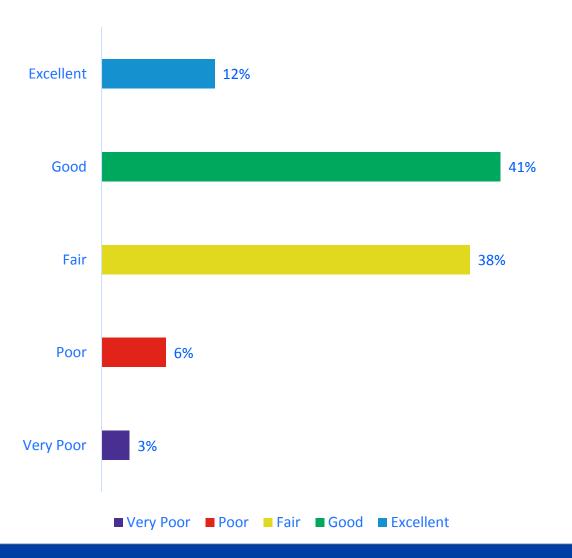


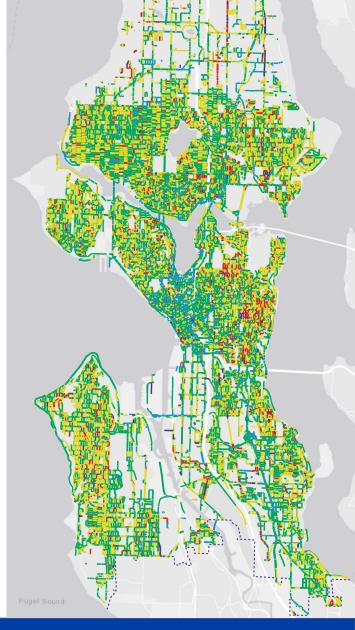
Collection Findings

- Over 34,000 blocks of sidewalk inspected
- Over 155,000 observations collected
- Equivalent to 2,323 miles



Condition Results







Condition Definitions

Excellent	Score = 100	No observable issues along the pedestrian clear zone, compliant width of ≥ 48 inches, and compliant primary cross slope of ≤ 2%
Good	85 ≤ Score < 100	Minor issues along the pedestrian clear zone: sidewalk extends the full length of the block with no discontinuities; may have minor uplifts and \leq 5% of the sidewalk requires slab replacement; may have a width $<$ 48 inches to \geq 36 inches and/or primary cross slope \leq 4% and $>$ 2%
Fair	45 ≤ Score < 85	Issues are of medium severity; discontinuities exist that may impact mobility; \leq 25% and > 5% of the sidewalk may need replacement; may have a width between $<$ 36 and \geq 24 inches and/or a primary cross slope \leq 6% and > 4%
Poor	5 ≤ Score < 45	Issues are severe; discontinuities exist that may impact mobility; $\leq 75\%$ and $> 25\%$ of the sidewalk may need replacement; may have a width < 24 and ≥ 12 inches and/or a primary cross slope $\leq 8\%$ and $> 6\%$
Very Poor	Score < 5	Widespread severe issues; discontinuities exist that impact mobility; 100% to 76% of the sidewalk needs replacement; may have a width < 12 inches and/or a primary cross slope > 8%

Communicating Results



Is the sky really falling

- We have better data. What now?
- How do we tell our story to different audiences:
 - Citizens
 - Mayor and City Council
 - Stakeholders / partners
 - Engineers / crews / planners



Communications

- Media / Blogs
- Presentations to Seattle Pedestrian Advisory Board, pedestrian forums, key community members and advocates
- Sidewalk Assessment Project website
- Observation <u>data</u>
- Conditions and sidewalk asset <u>data</u>
- Tree inventory, with ownership assigned

Project Report and Recommendations

- Prioritization methodology for permanent sidewalk repairs
- Implement risk mitigation program by proactively shimming and beveling uplifts and inspecting
- A 3-to-5 year capital plan with project opportunities and funding, with the goal of improving sidewalk conditions
- Implement a cost share and/or point of sale programs to provide shared funding strategies with property owners
- Increased vegetation and damage enforcement efforts

All recommendations require additional resources or a reprioritization of existing resources

Proactive Efficiencies

Repair Measures	2017	Shim Blitz (3 weeks)	
Total Shims	1,063	2,760	
Average Shims/Day	8	184	
What drives where	Customer	Data driven	
repairs occur	request	Data UTIVETI	

What we hear: "When I started, I thought our sidewalk repair needs were overwhelming. Now, using the data, I feel like I can make a difference."

Crews: Feel more invested in the outcome of a grid managed system that makes sense.





Repair & Mitigation Prioritization

Goal: Allocate Limited Budget to Provide Best Value for Community



- Safety Risk Score
 - Lift, Settlement, Cracks, Gaps...



- Mobility Impairment Score
 - Obstruction, Minimum Passable Width & Height, Cross-slope...

Scoring Criteria

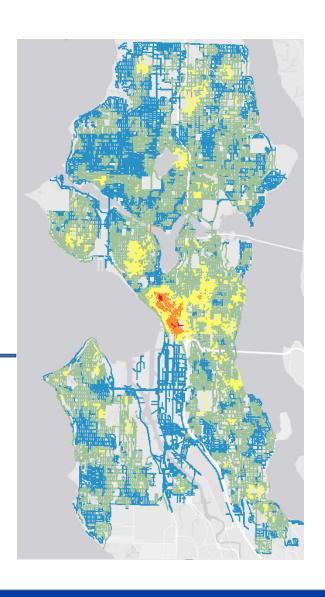


Cost Score

Maintenance, Repair, Replacement...

Usage Score

 Government Facilities, Transit Stops, Schools, Senior/Disabled Housing, Hospitals, Employment centers, Goods and Services



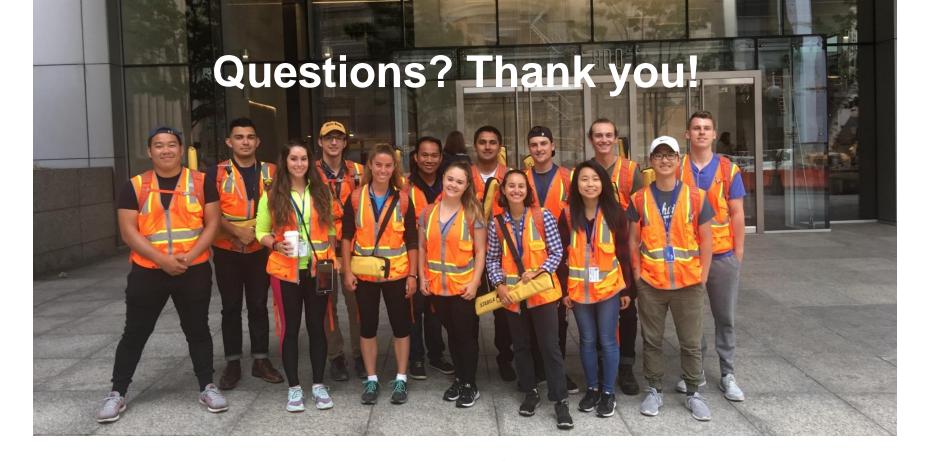
Sidewalk Funding – Performance Measures

Policy goal/Performance Measure	2017 Planned	Q4 2017 Results	2018 Planned	Annual Target Goal
Levy to Move Seattle				
Prioritize Pedestrians: # of blocks of new sidewalk	50	44	44.75	
Prioritize Pedestrians: # of blocks of existing sidewalk repaired	5	6.54	16	
Sidewalks - # of uplifts mitigated with beveling or shimming (2018 proposed Performance Measure)	NA	1,063	TBD	

Engineering Reviews w/in 5 days - no actions taken,

Sidewalk Repair – Communicating Next Steps

- Continue pursuing partnering repair opportunities with internal and external agencies
- Improve property owner notification process and encourage voluntary repairs
- SDOT recognizes there are competing policies for tree preservation and sidewalk repair
- Evaluate alternative repair materials and approaches for maintenance including tree root mitigation techniques



<u>Emily.Burns@seattle.gov</u> | 206-733-9972 <u>Colleen.Fegley@seattle.gov</u> | 206-615-0331

http://www.seattle.gov/transportation/about-sdot/asset-management

http://www.seattle.gov/transportation/projects-and-programs/programs/maintenance-and-paving/sidewalk-repair-program

