



We are here today to:

Share a summary of two Levy to Move Seattle bicycle-focused programs:

- **Program 5** Bike Safety
- **Program 27** Bike Parking and Bike Spot Improvements





All Ages and Abilities Bicycle Facilities

Contextual Guidance for Selecting All Ages & Abilities Bikeways

	All Ages & Abilities				
Target Motor Vehicle Speed*	Target Motor Vehicle Volume (ADT)	Motor Vehicle Lanes	Key Operational Considerations	Bicycle Facility	
Any		Any	Any of the following: high curbside activity, frequent buses, motor vehicle congestion, or turning conflicts [‡]	Protected Bicycle Lane	
< 10 mph	Less relevant	No centerline, or	Pedestrians share the roadway	Shared Street	
≤ 20 mph	≤ 1,000 – 2,000	single lane one-way	< 50 motor vehicles per hour in the	Bicycle Boulevard	
	≤ 500 – 1,500		peak direction at peak hour		
≤ 25 mph	≤ 1,500 − 3,000	Single lane each		Conventional or Buffered Bicycle Lane, or Protected Bicycle Lane	
	≤ 3,000 − 6,000	direction, or single lane one-way	Low curbside activity, or low congestion pressure	Buffered or Protected Bicycle Lane	
	Greater than 6,000		congestion pressure	Protected Bicycle Lane	
	Any	Multiple lanes per direction			
Greater than 26 mph [†]		Single lane each direction	Low curbside activity, or low	Protected Bicycle Lane, or Reduce Speed	
	≤ 6,000	Multiple lanes per direction	congestion pressure	Protected Bicycle Lane, or Reduce to Single Lane & Reduce Speed	
	Greater than 6,000	Any	Any	Protected Bicycle Lane	
High-speed limited access roadways, natural corridors, or geographic edge conditions with limited conflicts		Any	High pedestrian volume	Bike Path with Separate Walkway or Protected Bicycle Lane	
			Low pedestrian volume	Shared-Use Path or Protected Bicycle Lane	

Multi-Use Trails / Shared Use Paths

- Separate path
- Signs and wayfinding

Protected Bike Lanes

- Protected bike facility in the roadway
- Protected intersections and green paint markings

Conventional Bike Lanes/ In Street Minor Separation

Striped lane or painted marking in the roadway

Neighborhood Greenways

- Improved crossing of busy streets
- Walk and bike priority through traffic calming and side street stop control
- Wayfinding

Healthy Streets

- Street Closed
- Entrance narrowing



Bicycle Safety Program - Levy Goals

- Program 5 Bicycle Safety
 - 2015 Levy Ordinance: Build approximately 50 miles of new protected bike lanes and 60 miles of greenways, completing over half of the Bicycle Master Plan citywide network. Of the funds identified in this element, \$2M will be reserved for implementing bicycle improvements as part of the Accessible Mount Baker project.
 - 2018 Workplan Update: Project list for 2019-2024 being revised as part of the BMP Implementation Plan process; estimated bike facility (PBLs, NGWs, bike lanes) mileage of between 50 to 55 miles.

Reminder: Bicycle Safety Program as part of Levy Portfolio Status Update

2021 Planned investments into specific Levy 2022 Investment will be 2022 2021 programs were made/has been made SDOT worked on presented to LOC, Recommendations through supplemental Identified programs identifying funding included in 2023as part of a budget actions & for three programs to invest in to get 2024 proposed strategy to get administrative closer to 2015 goals to get even closer closer to 2015 budget transfers to/meet 2015 goals Ordinance goals. Recommendations for investment endorsed by LOC.

Bicycle Safety
Sidewalk Safety Repair
Arterial Roadway Maintenance
Paving Spot Improvements
New Sidewalks

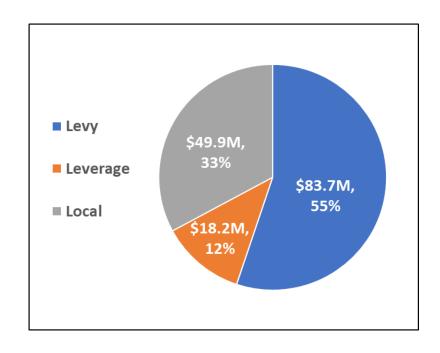
Bicycle Safety Arterial Roadway Maintenance Bridge Seismic



Bicycle Safety Program - Current Funding Picture

Total of \$151.8M (2016-2024)

- Levy \$83.7M
- Leverage \$18.2M
- Local \$49.9M

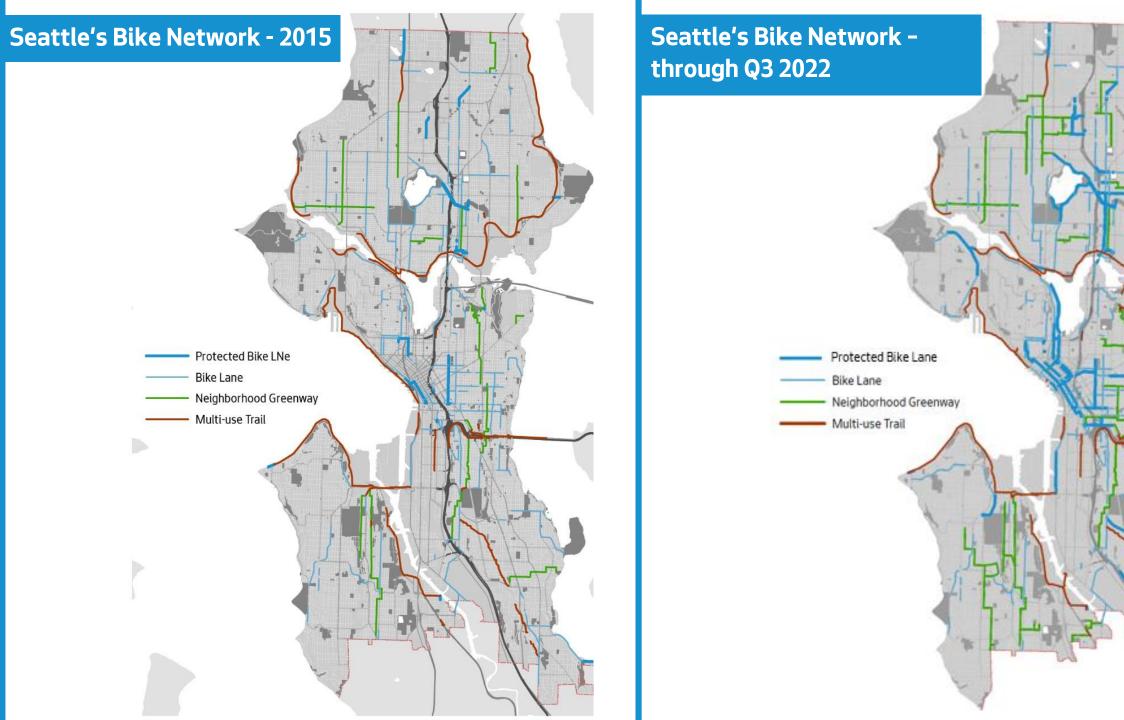




N 34th St

Bicycle Safety Program Deliverables to-date

LEVY DELIVERABLE	2016	2017	2018	2019	2020	2021	2022	TOTAL TO- DATE
Protected bike lane (miles)	2.40	4.17	2.34	5.82	2.16	9	3.12	29.01
Neighborhood Greenway (miles)	1.82	2.19	7.92	5.96	1.08	7.73	2.57	29.27
Bike lane (miles)	3.17	0	0	0.63	0.05	0.27	0.25	4.37



Bicycle Safety Program - Some completed projects







Clockwise from top left: 1st Ave and Broad St, 4th Ave, and 12th Ave S

Bicycle Safety Program - Some completed projects

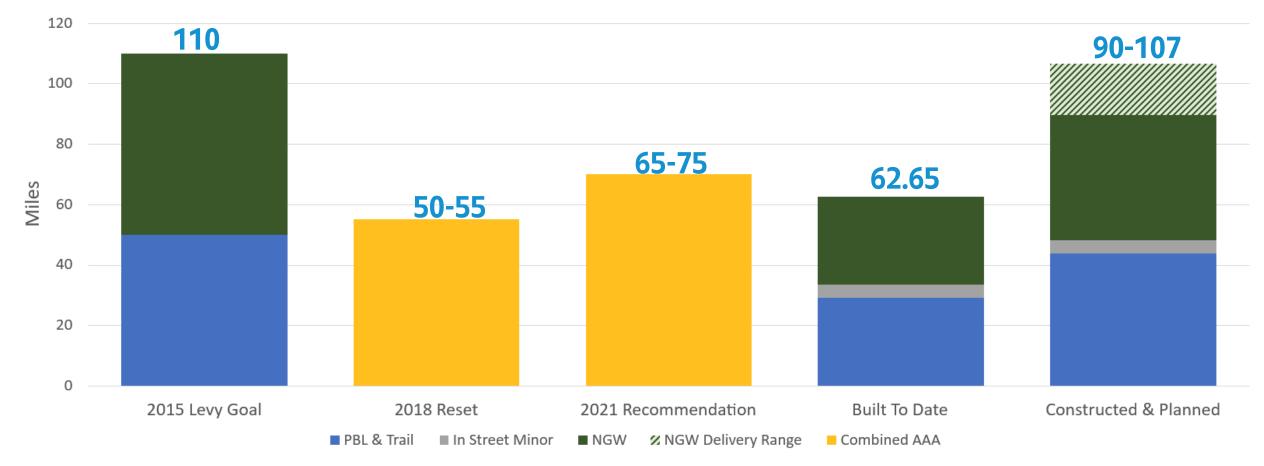






Transportation

Looking Ahead:Projected Bike Facilities Constructed with Levy Dollars





Finishing Strong - Delivery

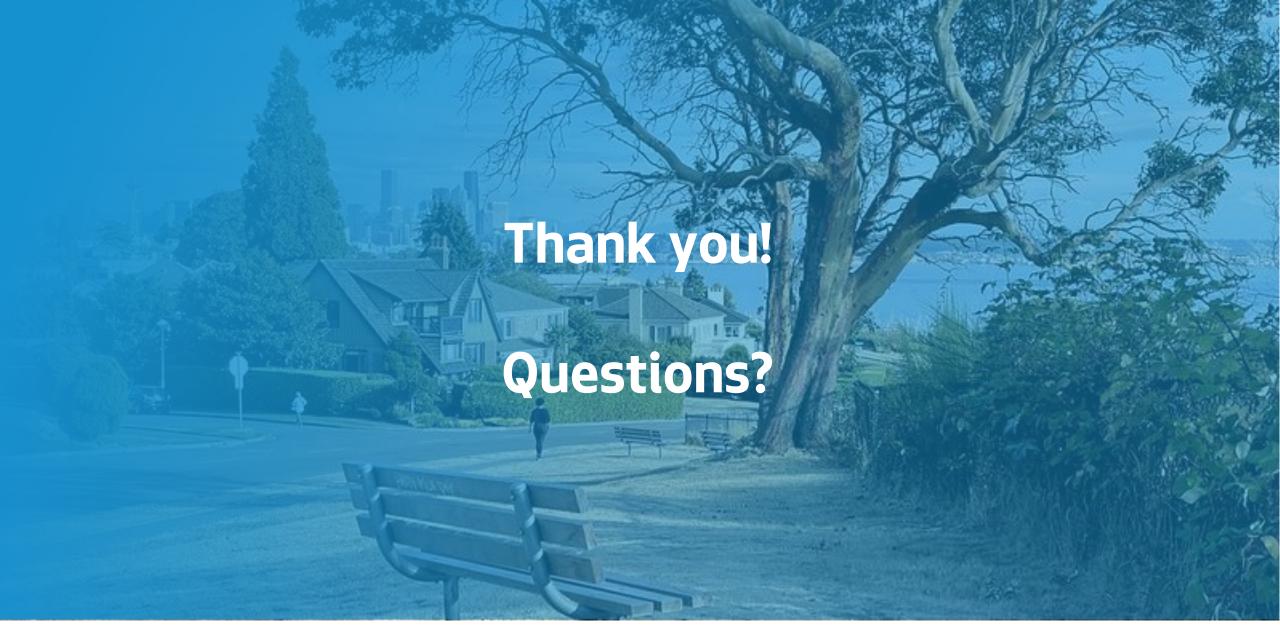
- To achieve these targets we will need to increase our rate of delivery via both crew and contractor built projects
- Finishing the Levy is a top priority for SDOT
- Some projects that you will see movement on in the coming year:
 - Build new protected bike lanes & trails (~15.25 miles)
 - Build new neighborhood greenways partnering with Safe Routes to School (~14.59 18.09 miles)
 - Build permanent Healthy Streets on existing neighborhood greenways built under the Bridging the Gap Levy (~2.7 9.5 miles)
 - Building neighborhood greenways and permanent Healthy Streets at the same time at locations that were prioritized during the pandemic (~3.1 miles)

Equity considerations

- BMP prioritization framework includes equity as criteria:
 - Populations of focus: Those without a car, BIPOC population, percentage of households below 200% of the poverty level, population under the age of 18, and populations over the age of 64.
- Ongoing SDOT priorities for continuous equitable improvement
 - Address disinvestment in south end of Seattle.
 - Fund and prioritize bicycle projects in southeast Seattle and other areas of the city that have been underinvested in (Lake City, Highland Park, South Park, etc.).
 - Use meaningful project engagement for bicycle projects to help support long-lasting relationships with BIPOC communities

Challenges and opportunities

- We are driven to produce equitable, co-created, impactful projects
- Capacity: Planning, design and crew delivery capacity to deliver an increased number of projects, remaining responsive to emerging issues
- Public engagement: Moving at the speed of trust and doing meaningful engagement with community means that we may take more time to build bike projects
- **Partnerships:** Several deliverables rely on other agencies like WSDOT or Railroad partners (Rainier Valley Greenway, MLK PBL); or larger SDOT projects (Burke-Gilman Missing Link, Rapid Ride J, etc.) to build the mileage







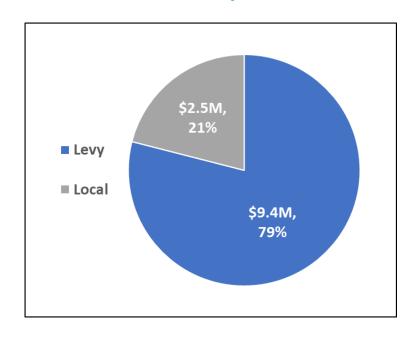
Levy Goals

- Program 27 Bike Parking and Bike Spot Improvements
 - 2015 Levy Ordinance: Install 1,500 new bicycle parking spots citywide and maintain existing bike facilities. Install other biking and walking investments.
 - 2018 Workplan Update Report: Noted anticipated completion of 1,500 new bike parking spaces by the end of 2019; outlined annual target of 10 bike spot safety improvements.

Bike Parking and Bike Spot Improvements - Funding

Total: \$11.9M (2016-2024)

- •Levy \$9.4M
- •Local \$2.5M



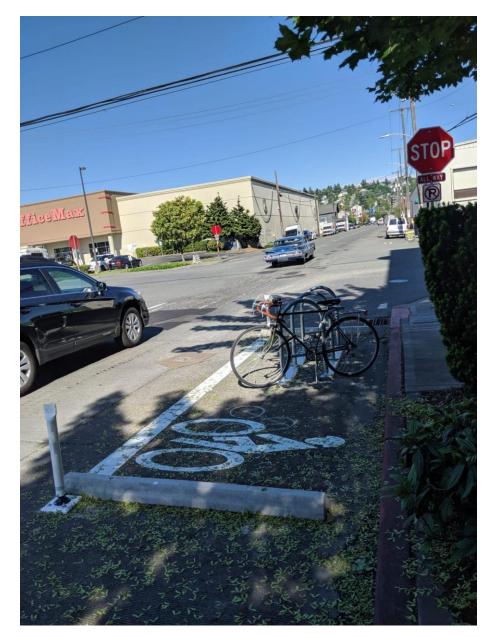


Bike Parking and Bike Spot Improvements Deliverables to-date

LEVY DELIVERABLE	2016	2017	2018	2019	2020	2021	2022	TOTAL TO- DATE
Bike parking spaces added	622	466	306	116*	20	68	14	1,612
Urban trail and bikeway spot imp.	10	12	12	15	6	10	10	75

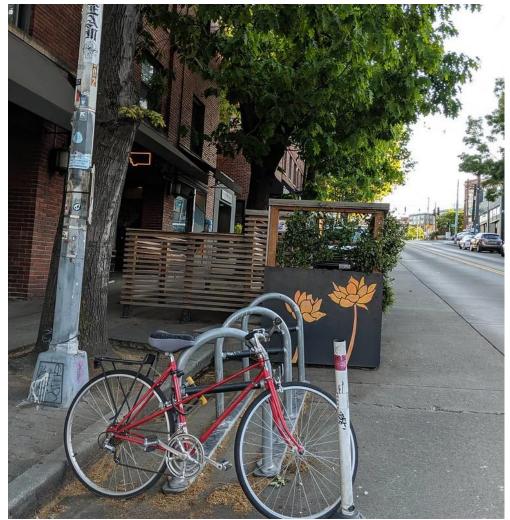
^{*}Met our goal of 1,500 bike parking spaces by end of 2019!

Bike Parking Spaces



- Building bike parking on the street frees up sidewalk space for all ages & abilities to get around
- Installing bike parking in the curb space adjacent to crosswalks has practical use and public safety benefit; makes people driving, walking, and biking more visible
- Supports safer, easier, more comfortable mobility options

Bike Parking Spaces



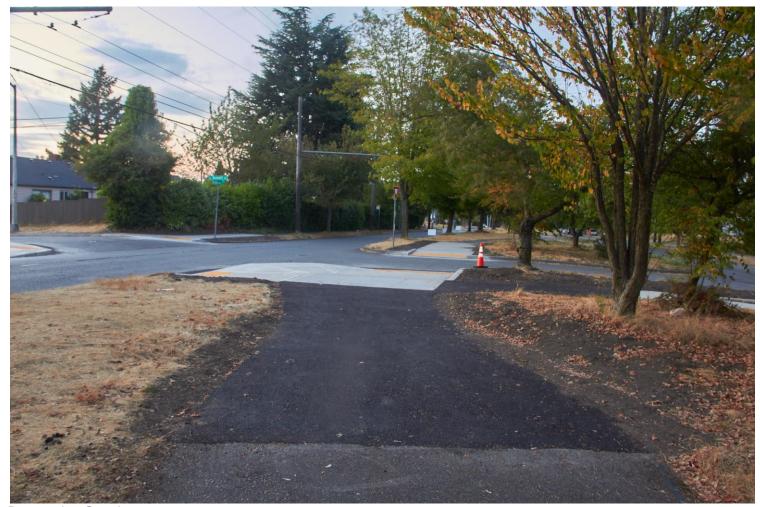


E Olive Way Harbor Ave SW

Bike Spot Improvements

- Improve bicyclist safety & mobility
- Examples in 2022 include:
 - Duwamish River Trail vegetation trimming and surface clearing
 - Mountains to Sound Trail signage upgrades
 - Queen Anne Ave N and W Republican St protected bike lane post upgrade for safety near a driveway
 - Chief Sealth Trail sign upgrade at a crossing to enhance trail wayfinding and limit vehicular confusion
 - Repaving Beacon Ave S Path
 - Signs and log barrier on Chief Sealth Trail to prevent vehicle traffic on trail

Bike Spot Improvements





Beacon Ave S path

Bike Spot Improvements



Queen Anne Ave N and W Republican St



Chief Sealth Trail

Evolution of Best Practices

- Currently, plastic posts are the PBL standard in Seattle & have been national industry standard for 10+ years
- Flexibility of plastic posts allowed us to install PBLs in areas that may require access for emergency vehicles, but require continued maintenance and replacement
- SDOT is pilot testing new materials to better separate people rolling, scooting, and biking from traffic; Council proviso to invest in better barriers
- Evaluating based on delivery success, material durability, and resolving supplychain issues



N 40th St



Even Better Bike Lanes - New Materials

- Four materials to pilot
- Concrete
 - 1x Precast Parking Stop
 - 1x Precast Barrier
 - 1x Extruded Curb
- Manufactured Polymer barriers
 - 1x Plastic Delineators
- Locations
 - NE 40th St Parking Stops
 - N 9th St Armadillo
 - S Columbian Way Toronto Barrier
 - S Dearborn St Extruded Curb









Equity Considerations

- Urban Trails and Bikeways prioritization framework includes equity as criteria
- Focus on maintenance of South Seattle Trails in 2022 with repaving, signage upgrades, and vegetation trimming

Challenges and Opportunities

- **Maintenance:** Limited funding for trail maintenance, so program seeks ways to combine bike spot safety projects with maintenance needs to achieve additional needed trail maintenance.
- **Data-Driven Prioritization:** Program targets bike spot safety improvements using collision frequency and historic use data. Program funds the <u>Bike and Pedestrian Safety Analysis (BPSA)</u>.
- **Bike Parking:** Reliant on partnership with other programs to fulfill ongoing community requests, such as partnerships at schools for bigger bike corrals for kids will deliver more spaces in 2023.



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https://www.seattle.gov/transportation/BMP