

View of Mt Tahoma from hə?apus Village Park

### Duwamish Valley & Port of Seattle Access and Mobility Study

#### Port Community Action Team

Presented by: Avery Brown, Jake Bookwalter, Rich Brown



### We would like to acknowledge that we are on the traditional land of the first people of Seattle, the Duwamish People past and present and honor with gratitude the land itself and the Duwamish Tribe.

Source: https://www.duwamishtribe.org/land-acknowledgement

### Agenda



- 2 Network Mapping & Field Work
- **3** Persona Journeys
- 4 Access & Mobility Needs
- 5 Next Steps

#### 6 Questions



Duwamish River shoreline at ťu?Əlaltx<sup>w</sup> Village Park & Shoreline Habitat

### **Project Team**



Rich Brown Project Lead



Avery Brown PCAT Intern



Jake Bookwalter PCAT Intern



Lauren Squires Multimodal Planner Nelson\Nygaard



Mariel Kirschen Planner and Designer Nelson\Nygaard

### **Study Area**

# DUWAMISH VALLEY, INCLUDING GEORGETOWN AND SOUTH PARK NEIGHBORHOODS

- Port of Seattle Parks (from north to south):
  - Jack Block Park
  - ťu?əlaltx<sup>w</sup> Village Park & Shoreline Habitat (former Terminal 105 Park)
  - hə?apus Village Park (former Terminal 107 Park)
  - Gateway Park North
  - Duwamish River People's Park (former Terminal 117 Park)

#### Duwamish Valley & Port of Seattle Access and Mobility Study



Learn more about the Port and Seattle Parks Foundations recent renaming of six Port-owned parks here: <u>https://www.portseattle.org/NameIncredibleParks</u>



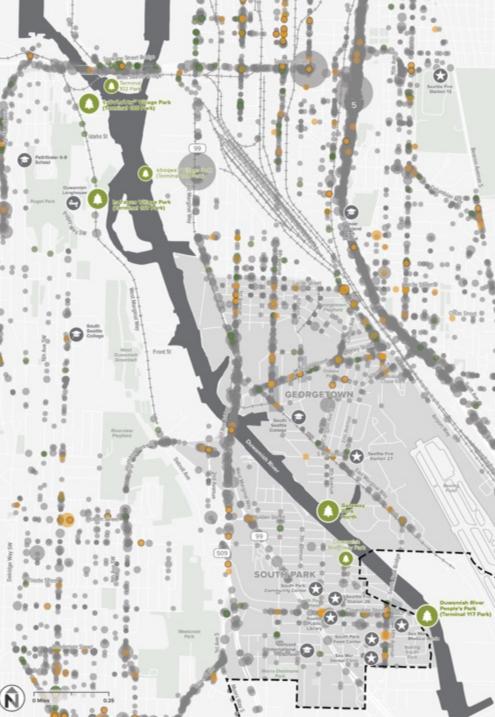
# **Project Goals**

SAFETY

Improve safety by identifying and improving locations with a history of collisions or with a perceived safety risk.

Focus on areas uncomfortable for people walking, rolling, and bicycling within the Duwamish Valley and near Port of Seattle properties.



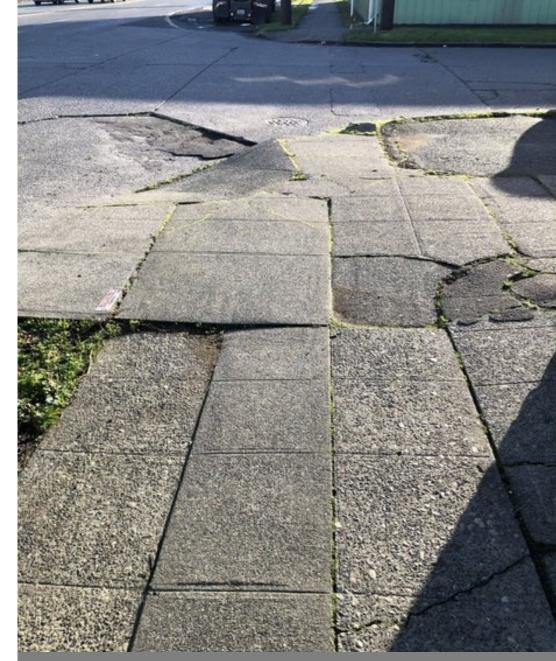


# **Project Goals**

**ACCESS & MOBILITY** 

Enhance walking, rolling, and bicycling connections between Duwamish Valley destinations, Port of Seattle properties, and existing multimodal facilities.

- Focus on people of all ages and abilities
- Promote Port of Seattle parks as welcoming, inclusive community spaces



Many sidewalks in South Park and Georgetown are not accessible for people with mobility challenges

# **Project Goals**

#### **HEALTH & EQUITY**

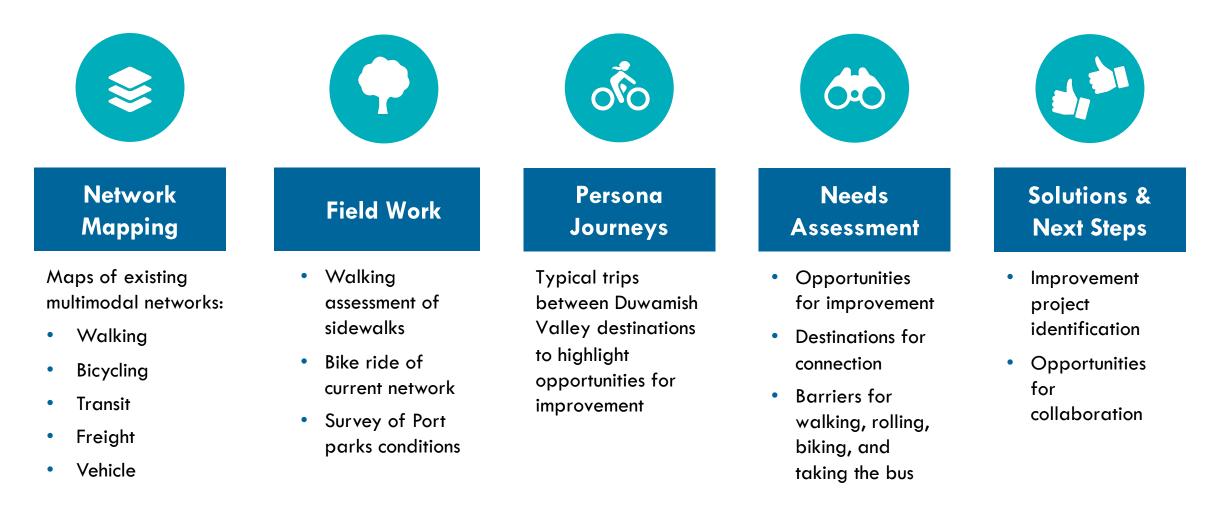
Address the impacts of institutional racism, historic disinvestment, and environmental degradation that have contributed to health and economic inequities in the Duwamish Valley.

- Improve health through active travel
- Reinforce sense of place and community identity
- Support youth leadership



**Community Leadership and Capacity Building** Center the voices and needs of the Duwamish Valley community with community-led process to satisfy the needs expressed by underserved populations and advance locally identified solutions.

# **Project Approach**



### Coordination with other Duwamish Valley efforts

#### Georgetown to South Park Trail

A safe walking and biking route connecting people with local businesses, services, and destinations on both sides of our river. (Source: <u>https://dvsafestreets.org/gsptrail</u>)

#### Duwamish Valley Safe Streets

A volunteer organization of South Park and Georgetown community members who envision a network of comfortable walking and biking routes that connect people to destinations in and around our neighborhoods.



#### **GEORGETOWN SOUTH PARK TRAIL**

THE GEORGETOWN SOUTH PARK TRAIL WILL BE A SAFE WALKING AND BIKING ROUTE CONNECTING PEOPLE WITH LOCAL BUSINESSES, SERVICES, AND DESTINATIONS ON BOTH SIDES OF OUR RIVER.



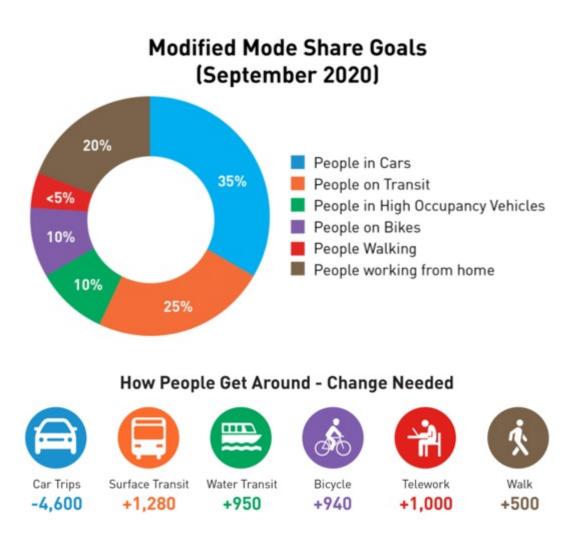
Source: <u>Duwamish Valley Safe Streets</u>

### Coordination with other Duwamish Valley efforts

#### **Reconnect West Seattle Implementation Plan**

SDOT's community-led process to identify challenges and prioritize solutions to increase options for transit ridership, bicycling and walking trips, and safety on our streets and sidewalks, especially in neighborhoods that are acutely impacted by increased traffic.

Source: <u>Reconnect West Seattle Framework</u>



We must change how we move to mitigate the impacts of the West Seattle bridge closure.

Source: Reconnect West Seattle, SDOT

### **Coordination with other Duwamish Valley efforts**

#### **Outside Citywide: South Park**

A City of Seattle interdepartmental initiative to envision and create an integrated, equitable, and inspiring public space network for a thriving, green Seattle.

Interactive mapping
 platform to explore public
 space connections



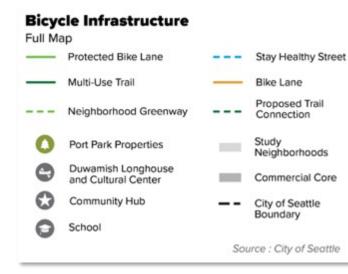
**Environmental Challenges in South Park** Source: Outside Citywide, South Park Neighborhood Profile

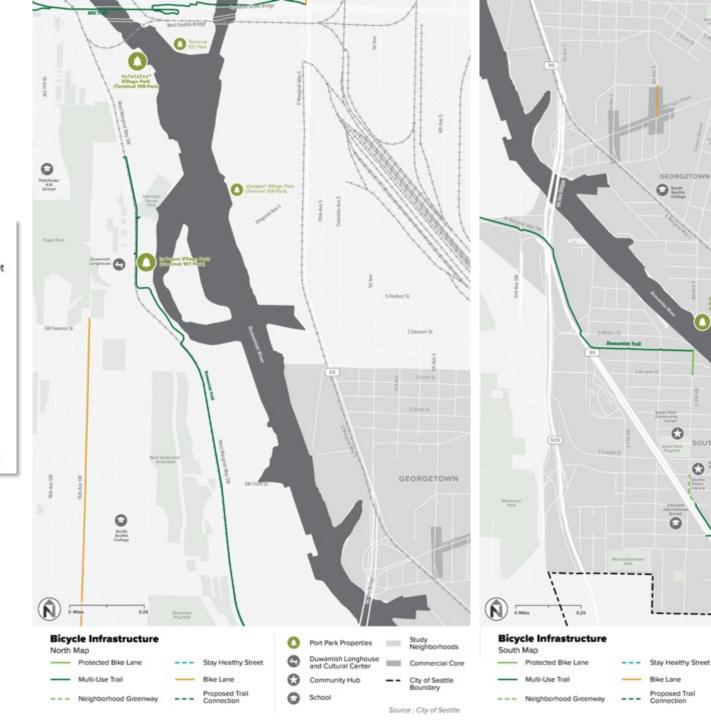


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# NETWORK MAPPING

### BICYCLE NETWORK



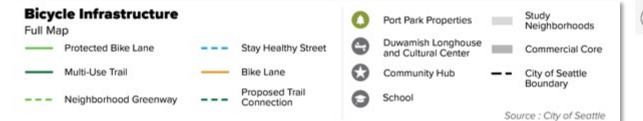


5 SOUTH PARK 0 C Study Neighborhoods 0 Port Park Properties 11000 Duwamish Longhouse and Cultural Center ٢ Commercial Cor 0 -- City of Seattle Boundary Community Hub School Source : City of Seattle

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# **BICYCLE NETWORK**

- Duwamish Trail and 1<sup>st</sup> Ave bridge trail are important routes, but they are disconnected.
  - End before connecting to other facilities
  - Don't get you into the heart of South Park or Georgetown
- Sharrows don't count.
- Unprotected bike lanes along **freight routes**.
- **Difficult to find your way.** Even the locals need maps.





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### **DUWAMISH VALLEY ON-STREET BIKE FACILITIES**



Faded sharrows indicate bike routes, but don't add to rider comfort.

Sharrow on S Cloverdale St in South Park

Unprotected bike lane with car lanes on both sides.

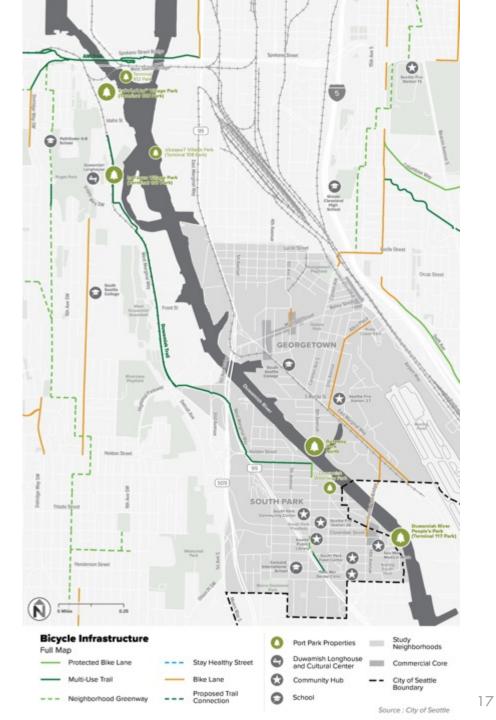
Bike lane along E Marginal Way approaching South Park Bridge Drainage and maintenance issues impact the safety of people riding.

Bike lane along 16<sup>th</sup> Ave S approaching South Park Bridge

# **BICYCLE NETWORK**

Main bike routes for local travel between and within Georgetown and South Park:

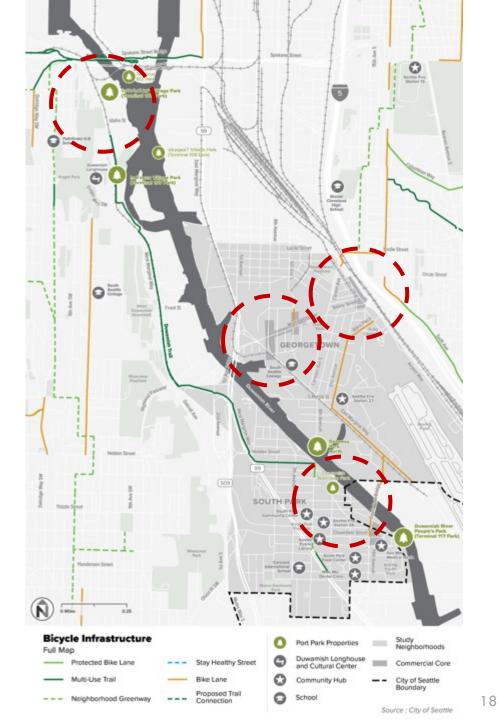
- Duwamish Trail and 1<sup>st</sup> Ave Bridge trail
  - Ends before tu?əlaltx<sup>w</sup> Village Park and West Seattle Bridge trail
- East Marginal Way
  - Unprotected bike lane along a major truck street
- South Park Bridge
  - Bike lanes end at Dallas Ave S (South Park Plaza)
- 8<sup>th</sup> Ave S and S Cloverdale St
  - Sharrows connecting to library, community center, and Duwamish Trail
- Ellis Ave S
  - Unprotected bike lanes in south Georgetown



# **BICYCLE NETWORK**

#### Important bicycle network gaps:

- West Seattle Bridge Trail to Duwamish Trail and hə?apus
  Village Park
- Georgetown to 1<sup>st</sup> Ave Bridge trail, including crossing of E Marginal Way S at S River St
- All ages and abilities bike routes within Georgetown and South Park
- Georgetown to South Park: Riding along and across East Marginal Way
- South Park Bridge to Duwamish Trail via S Cloverdale St and 8<sup>th</sup> Ave S
- Georgetown to Beacon Hill via the Lucille Overpass or Albro St. Bridge
- Georgetown to Downtown a route through SODO that connects the Duwamish Valley to downtown

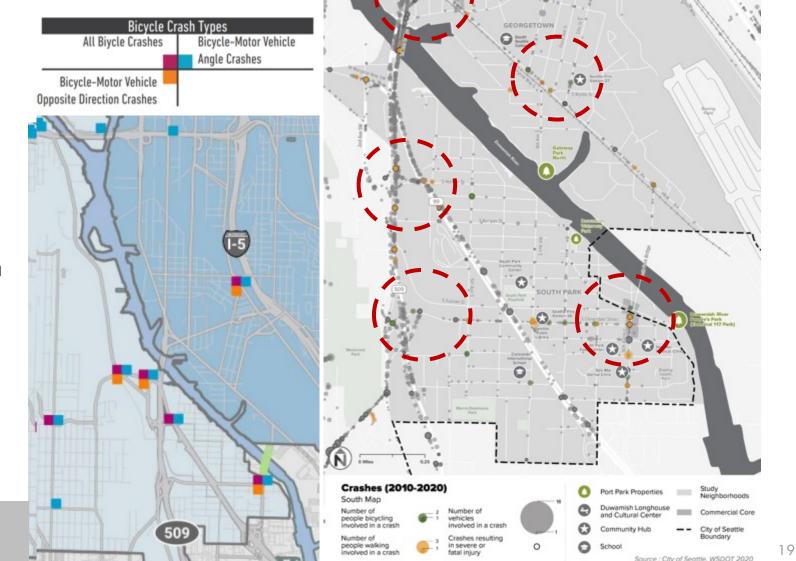


# **BICYCLE SAFETY**

Priority crash hotspots in the Duwamish Valley per SDOT's Bicycle and Pedestrian Safety Analysis:

- 14<sup>th</sup> Ave S/S Cloverdale St
- S Holden St/SR 99/Duwamish Trail
- Highland Park Way SW/W Marginal Way SW
- Airport Way S/S Lucile St

Source: <u>Seattle Bicycle and Pedestrian Safety</u> <u>Analysis (Feb 2020)</u>



### **BICYCLE SAFETY**

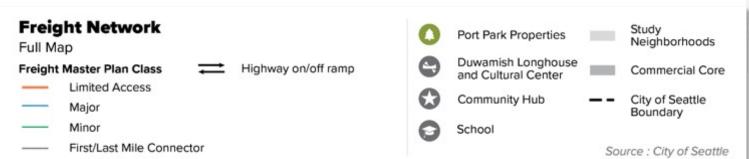
- Our community mourned the death of several people riding their bikes in the Duwamish Valley in recent years.
- We pause now for a moment of silence to honor the lives lost on Duwamish Valley streets.

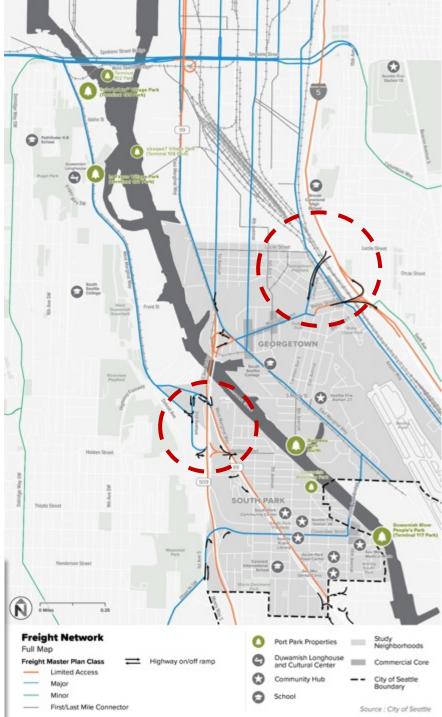


March 24, 2021, a person riding a bicycle was killed by a large truck at S Michigan St/Corson Ave S, an intersection with a history of crashes

### **FREIGHT NETWORK**

- SR 509 and SR 99 on-/off-ramps lead to conflicts and perceived lack of safety
- Amazon distribution centers create surges of delivery vehicles on South Park and Georgetown streets. Impacts of e-commerce.
- Railroad tracks and spurs cross local streets and pose hazards to people bicycling.

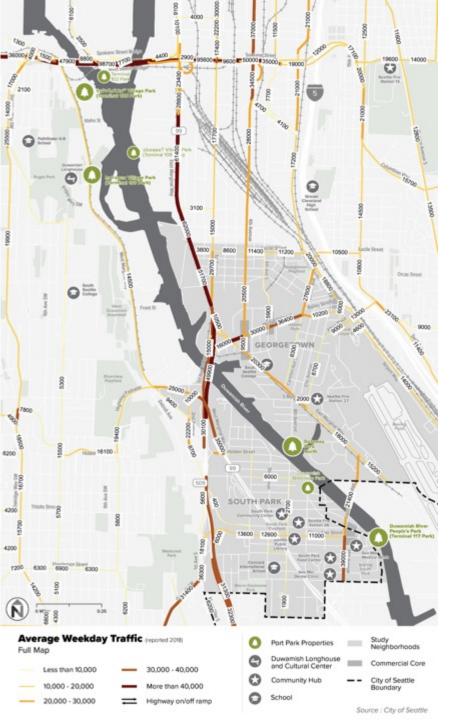




# **VEHICLE NETWORK**

- Freeways divide and isolate (i.e., SR 509 and SR 99).
  Lack of street connectivity limits alternate routes for people bicycling.
- Local streets are congested.
  - <u>WSB closure impact</u>: West Seattle traffic travels along the Duwamish Valley's limited local street connections.
- Freeway access points (i.e., on-/off-ramps) lead high-speed traffic onto local streets and bike routes.



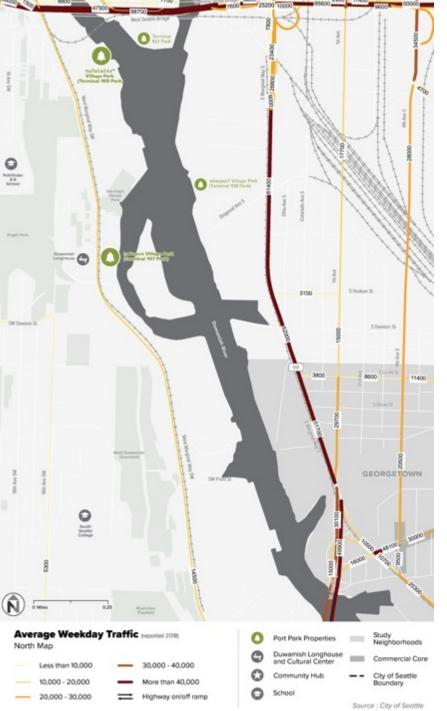


# TRAFFIC VOLUMES

#### 2018 (PRE-WSB CLOSURE)

#### Average Weekday Traffic (reported 2018) Full Map

	Less than 10,000	_	30,000 - 40,000	
_	10,000 - 20,000	_	More than 40,000	
-	20,000 - 30,000	≓	Highway on/off ramp	
0000	Port Park Properties Duwamish Longhouse and Cultural Center Community Hub School		Study Neighborhoods Commercial Core City of Seattle Boundary	
-		Source : City of Seattle		





Source : City of Seattle

### **VEHICLE CONDITIONS**



West Seattle traffic clogs W Marginal Way along Duwamish Trail.



High speed traffic along Ellis Ave, Georgetown's only bike route.

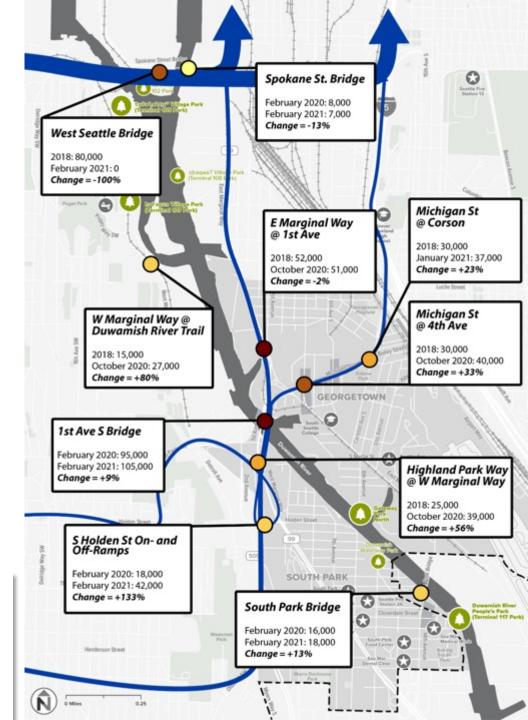


Traffic backs up along S Michigan St impeding crossings.

Prior to the West Seattle Bridge (WSB) closure:

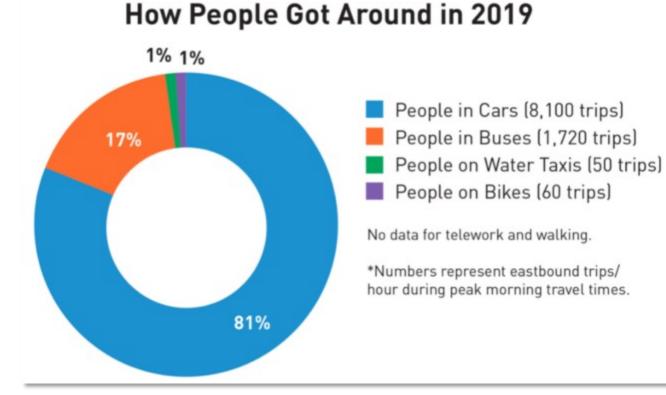
- 80,000 cars a day crossed the bridge
- 21 car lanes crossed the Duwamish River.
  Now, only 12 car lanes cross the river mostly through the Duwamish Valley.
- Freight vehicles accessed the Port of Seattle along the WSB Major Truck street.

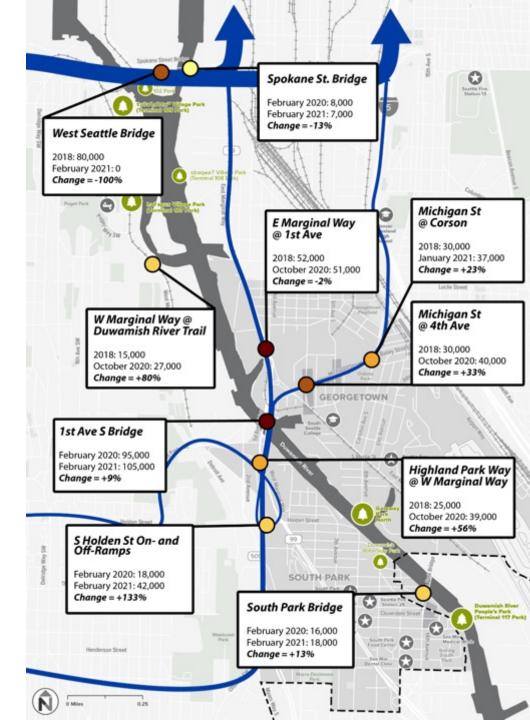




# Most people accessing the West Seattle peninsula drove prior to the bridge closure.

Source: Reconnect West Seattle Implementation Plan

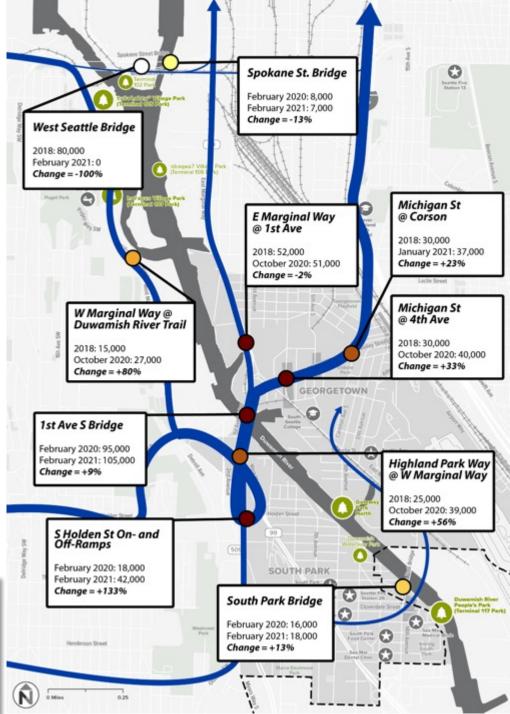




After the West Seattle Bridge (WSB) closure:

- The Duwamish Valley's limited local streets carry people accessing West Seattle:
  - S Michigan St
  - West Marginal Way
  - Highland Park Way SW
  - S Cloverdale St and South Park Bridge
  - East Marginal Way





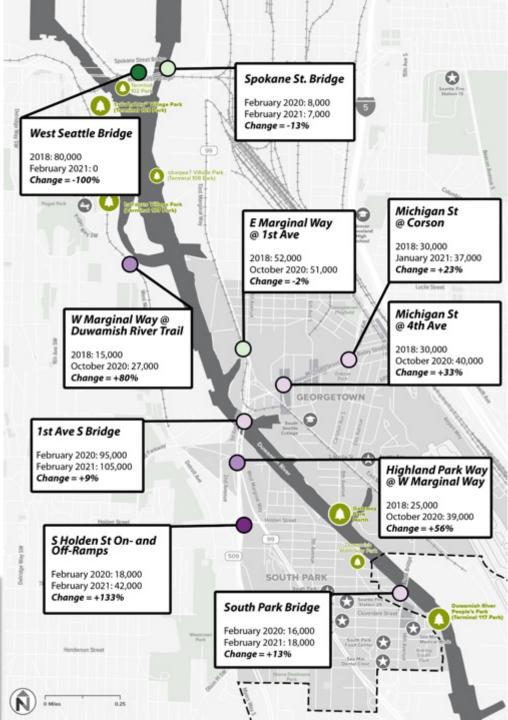
**Key intersections** along WSB detour route are carrying significantly more traffic:

- Highland Park Way SW/W Marginal Way
- Holden St SR 509 on-/off-ramps
- S Michigan St/4<sup>th</sup> Ave S
- South Park Bridge

# People bicycling must pass through these intersections, too.

#### Change in West Seattle Bridge Closure Travel Volumes Average daily travel change from before the bridge closure (2018 or Feb. 2020) to after (Oct. 2020 or Feb 2021)\* -150% -100% -50% -1% +1% +50% +100% +150% -Volume data not available for all points immediately before the bridge closure. Percentage change includes reductions in travel during the COVID-19 pandemic.





- Many of the Duwamish Valley's limited local • street connections are key bicycling routes.
- It was already hard enough to bike in the • Duwamish Valley.
- We must protect and enhance routes for people making the choice to bike

30.001 - 40.000

More than 40.000

Major northbound travel

flows out of West Seattle

**Post-West Seattle Bridge Closure Travel** 

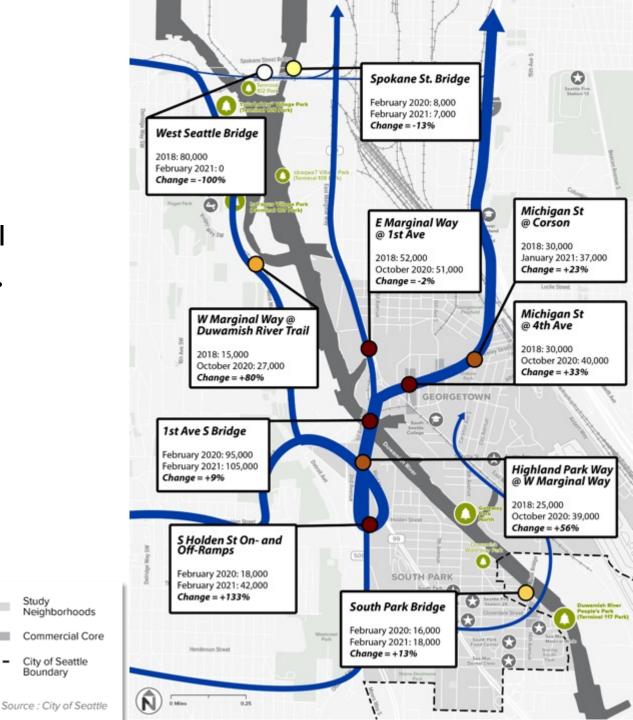
Average daily travel after bridge closure (Oct. 2020 or Feb. 2021)\*

Less than 10,000

10,000 - 20,000

20.001 - 30.000

"Volume data not available for all points in Feb. 2021



Study

Port Park Properties

and Cultural Center

Community Hub

School

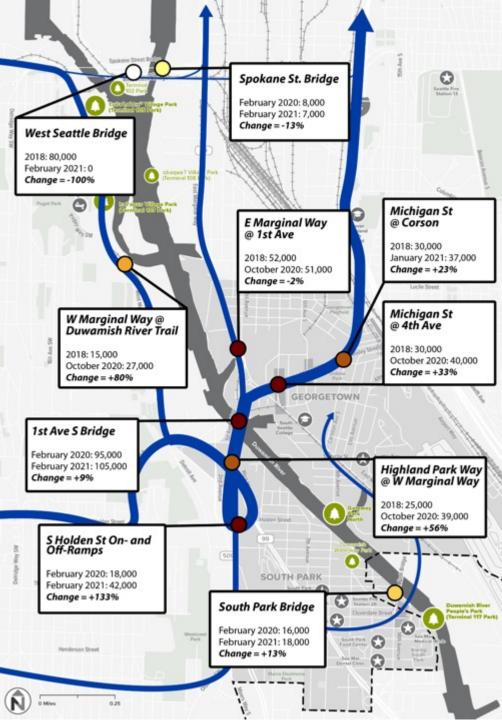
Duwamish Longhouse

The West Seattle Bridge closure and detour disproportionately impacts the Duwamish Valley:

- Greater risk to health and public safety
- Already has higher rates of asthma and lower life expectancy.
- South Park: 63% residents of color, 40% speak a language other than English at home

Source: <u>Reconnect West Seattle, SDOT</u>















#### **PERSONA JOURNEYS**

### Persona Journey Introduction

#### PERSONAS ILLUSTRATE TYPICAL TRIPS BETWEEN DUWAMISH VALLEY DESTINATIONS

 Green to red illustrate low to high levels of stress along the journey based on barriers or conflict points







• 1, 2, 3... indicate steps of the journey









#### **Jen & Oliver**

Georgetown > Duwamish River People's Park



Jen and Oliver leave their home near Eddy St & Flora Ave in Georgetown and turn onto Ellis Ave at Eddy St and Albro Pl.

- They take the unprotected bike lane down Ellis Ave.
- 4 5

They turn onto **E Marginal Way** and bike on the **sidewalk** instead of the bike lane.



They bike to **16th Ave** but have to backtrack to **14th Ave** to cross the street at a **crosswalk**. They ride to 16th in the **unprotected bike lane**.

- They walk their bikes across the bridge.
- They stop by the Bookmobile at South Park Plaza.



They ride in the **street on Dallas** to read in the **Duwamish River People's Park** before heading home.





#### Horace

Georgetown > Gateway Park North



Horace leaves his home near the 5th St and Brandon St.



He bikes in the street on Brandon St., 6th St., and Orcas St. to Corson Ave.

4

He turns onto **Corson** and rides on the **sidewalk** where he nearly runs into a pedestrian.



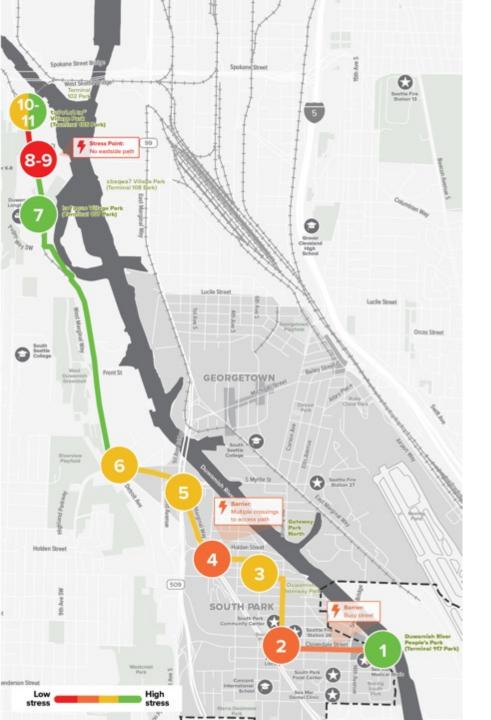
He turns onto **East Marginal Way**. He bikes on the **sidewalk** for the one block to **Carleton Ave**.



He crosses the street at the **crosswalk** and turns down **8th Ave**.



He shares the street with Recology garbage trucks on **8th Ave.** until he gets to to **Gateway Park North**.







Duwamish River People's Park ► tu?əlaltx<sup>™</sup> Village Park

Stanley bikes from his home near the **Duwamish River People's Park**.

He takes **Cloverdale to 8th Ave** and then zig zags through the neighborhood to get onto the **Duwamish Trail from Portland St.** 

5 6

He follows the **Trail** along **W Marginal Way**, which takes him across 1st Ave and under Highway 509. He continues along the **Trail** and makes a right to continue on **W Marginal Way**.



He follows the Trail into **hə?apus Village Park** and takes the paths to continue north.



When the trail ends, he chooses to ride in the road instead of crossing over the sidewalk trail.



He makes a right into the driveway to **tu?əlaltx<sup>w</sup> Village Park** and hangs out with his friends before heading home.

# **ACCESS & MOBILITY NEEDS**

# DESTINATIONS & CONNECTIONS

#### IMPORTANT DUWAMISH VALLEY DESTINATIONS FOR MULTIMODAL CONNECTIONS

- Connections between and within Georgetown and South Park
- Travel between Duwamish Valley and surrounding neighborhoods
  - Southeast Seattle and the Central District
  - Admiral, especially from South Park

#### **KEY DESTINATIONS:**

#### PARKS & OPEN SPACES

- Port Parks
- Georgetown Playfield
- South Park Playground

#### NEIGHBORHOOD COMMERCIAL HUBS

- 14th/Cloverdale, South Park
- Michigan St, Georgetown
- Airport Way, Georgetown

#### CIVIC & CULTURAL CENTERS, SERVICES

- Duwamish Longhouse
- South Park Community Center
- South Park Library
- SeaMar Clinics
- South Park Food Center

#### SCHOOLS

- South Seattle College
- Concord International
- Mercer MS, Cleveland HS, Rising Star ES, Denny MS and Chief Sealth HS

### BARRIERS

#### BARRIERS COMPOUND TO LIMIT MULTIMODAL TRAVEL

- Freeways divide and isolate
- Topography. "Short distance, but no way to get there"
- Busy streets with freight traffic
- Lack of all ages and ability facilities
- Long distances between safe street crossings
- Disconnected facilities

- "Even the locals have to use maps" Need for wayfinding.
- Lack of transit service
- Railroad track crossings
- Sidewalks are uplifted, lack curb cuts and are disjointed.
- No sidewalks in industrial areas means a lot of Georgetown lacks sidewalks

### Assets to Leverage

#### **DUWAMISH VALLEY IS RICH WITH COMMUNITY ASSETS**

- Shoreline and river access
- Duwamish Valley Trail and 1<sup>st</sup> Ave Bridge Trail
- Historic Georgetown Business District
- South Park Library and Community Center
- Seamar Clinic and Neighborcare Dental
- Georgetown Playfield and South Park Playground
- Duwamish Longhouse and Cultural Center



and Cultural Center

### **BICYCLING NEEDS**

#### CONNECTED, ALL AGES AND ABILITIES BIKE FACILITIES

 Neglected and fragmented bike infrastructure isolates the Duwamish Valley and makes it difficult to access Port Parks

#### **IMPORTANT AREAS AND PROJECTS TO STUDY FURTHER:**

- Corson Ave. S.
- Connecting the Duwamish Trail to the Green River Trail and the Alki Trail
- Georgetown to South Park Trail
- Georgetown to Downtown connections
- S Lucile St. Between 12th and 15th and/or Albro PI. S.
- S Cloverdale St.



### **NEXT STEPS**

- Identity solutions and develop projects with SDOT, Port of Seattle, and King County Metro
- Share findings with Duwamish Valley community and organizations to gather feedback
- Coordinate with <u>Reconnect West Seattle</u> to mitigate the impacts of the West Seattle Bridge closure and detour
- Fund and implement the <u>Georgetown to</u>
  <u>South Park trail</u>



#### Thank you! Questions?

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