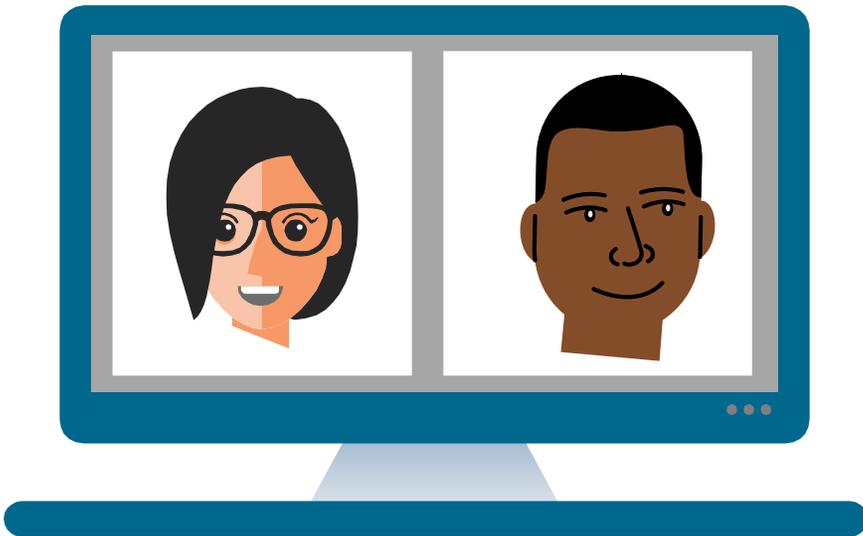


Welcome to the Port of Seattle Equity Index Webinar



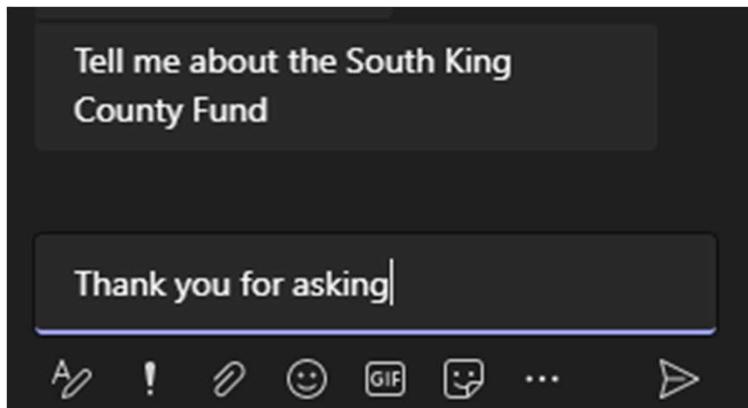
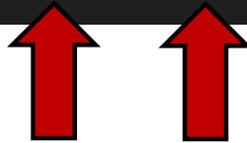
Notice: This session is being recorded and subject to public disclosure. This will be posted on the Port of Seattle's YouTube website for later public viewing.

Virtual Meeting Guidance



- Turn Off Mics When Not Talking
- **Ask Questions**, Either:
 - In the Chat Feature
 - Raise Your Hand to Talk
- **Notice:** *This session is recorded and subject to public disclosure. By participating in this Session, you are providing consent to being recorded and potentially having the recorded forwarded to other parties. This Session will be posted to YouTube for later public viewing.*

Navigating MS TEAMS



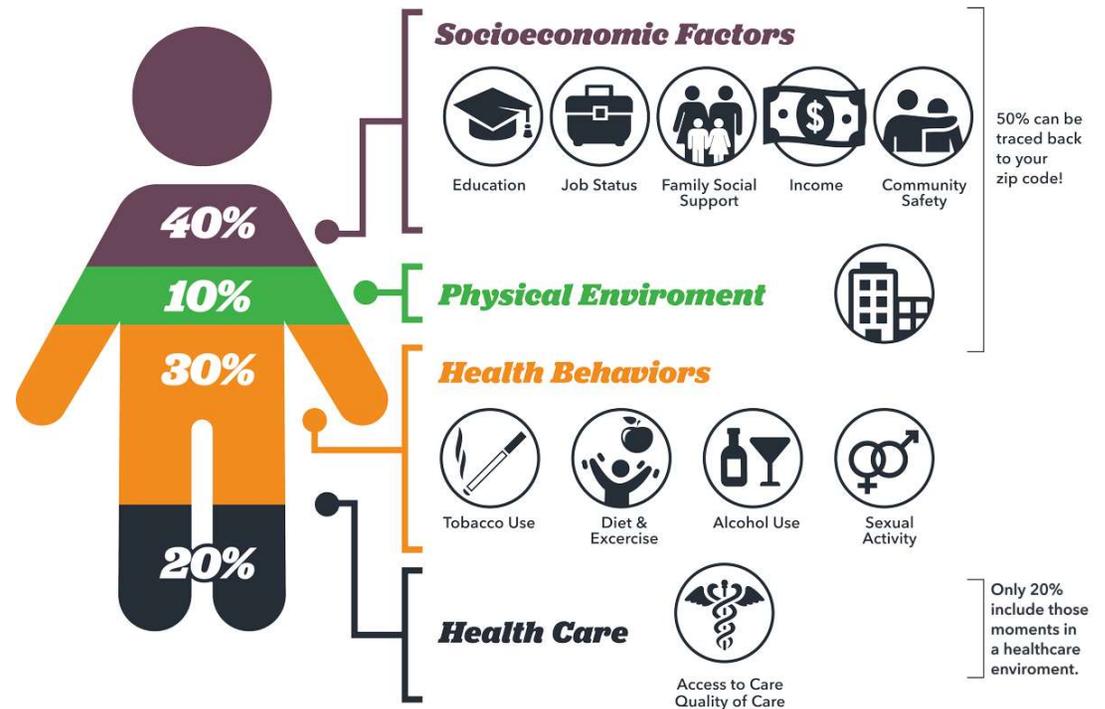
- Turn Off Mics When Not Talking
- **Communicating in MS Teams:**
 - Use the Chat Feature 
 - Raise Your Hand to Talk 

Agenda

- Background
- Method
- Index
- Next Steps
- Demonstration



What influences health & well being?



Source: Institute for Clinical Systems Improvement, Going Beyond Clinical Walls: Solving Complex Problems (October 2014)

Two Communities

During COVID-19

Most Impacted



- ❖ Economic Stress
- ❖ Environmental Stress
- ❖ Health Stress

- ❖ Job Loss
- ❖ Mental Strain
- ❖ COVID - 19

Least Impacted



- ❖ Solid Economy
- ❖ Quality Environment
- ❖ No Underlining Aliments

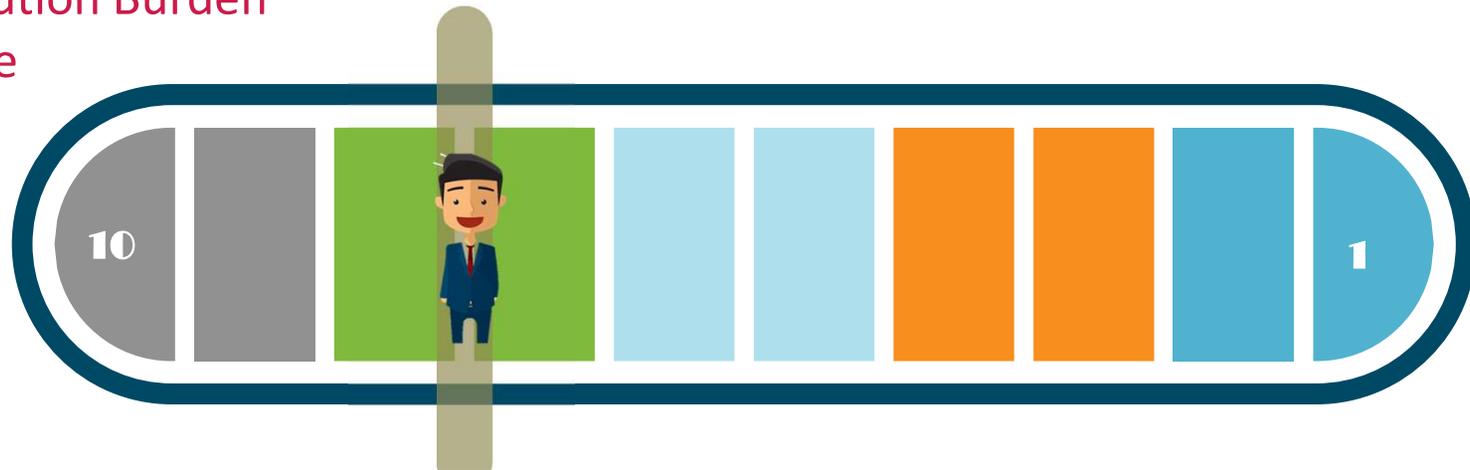
Equality

During COVID-19

Most Impacted



- ❖ Economic Recovery
- ❖ Lower Pollution Burden
- ❖ Health Care



Least Impacted

Equity

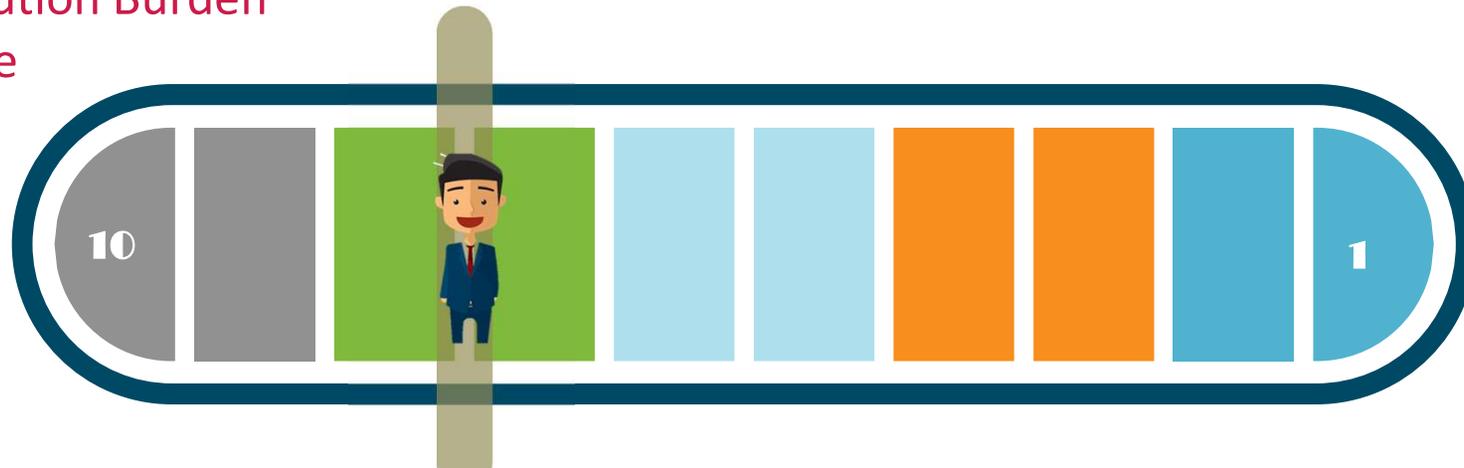
During COVID-19

Prioritizing the Most Impacted Communities

Most Impacted



- ❖ Economic Recovery
- ❖ Lower Pollution Burden
- ❖ Health Care



Least Impacted

Working Together

LINKS

[Online Tool](#)
[Equity Index | Port of Seattle \(portseattle.org\)](#)

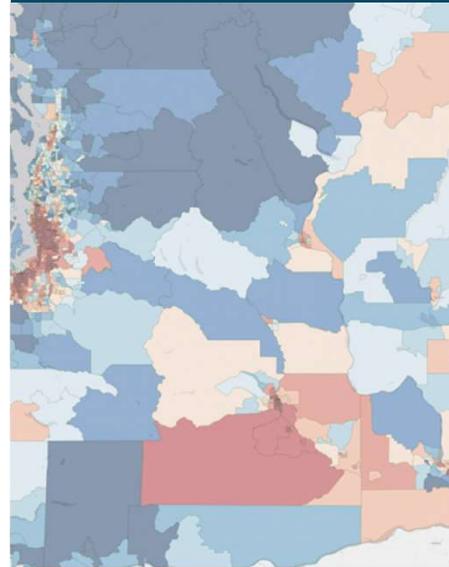
HEAL ACT



Environmental Disparities



Partnership



Community



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What is an Index?

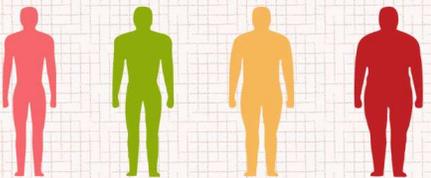
What is Your Body Mass Index (BMI)

Formula

$$\text{BMI} = \frac{\text{Weight in Kilograms}}{\text{height in meters} \times \text{height in meters}}$$

$$\text{BMI} = \frac{\text{Weight in Lbs} \times 703}{\text{height in inch} \times \text{height in inch}}$$

the HEALTH Science Journal



BMI Chart

- BMI less than 18.50 → Underweight
- BMI 18.50 - 24.99 → Healthy weight
- BMI 25.00 - 29.99 → Overweight
- BMI 30 or more → Obese

www.TheHealthScienceJournal.com



The Big Mac index



The Science of Wind Chill

NO WIND

98.6°F
Average temperature of the human body

When people lose heat through convection – there's still a layer of heat between our skin and our cold surroundings.

The Science of Wind Chill

WINDY

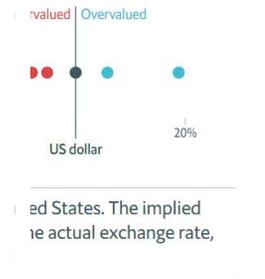
95°F
Hypothermia begins when our body temperature drops two to four degrees

But when it's windy, the moving air breaks up this insulating layer. It speeds up heat loss by whisking away the warmth from our skin.

Heat is moved away from our bodies.

weather.gov/winter

The US dollar in July



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What is the Port of Seattle's Equity Index

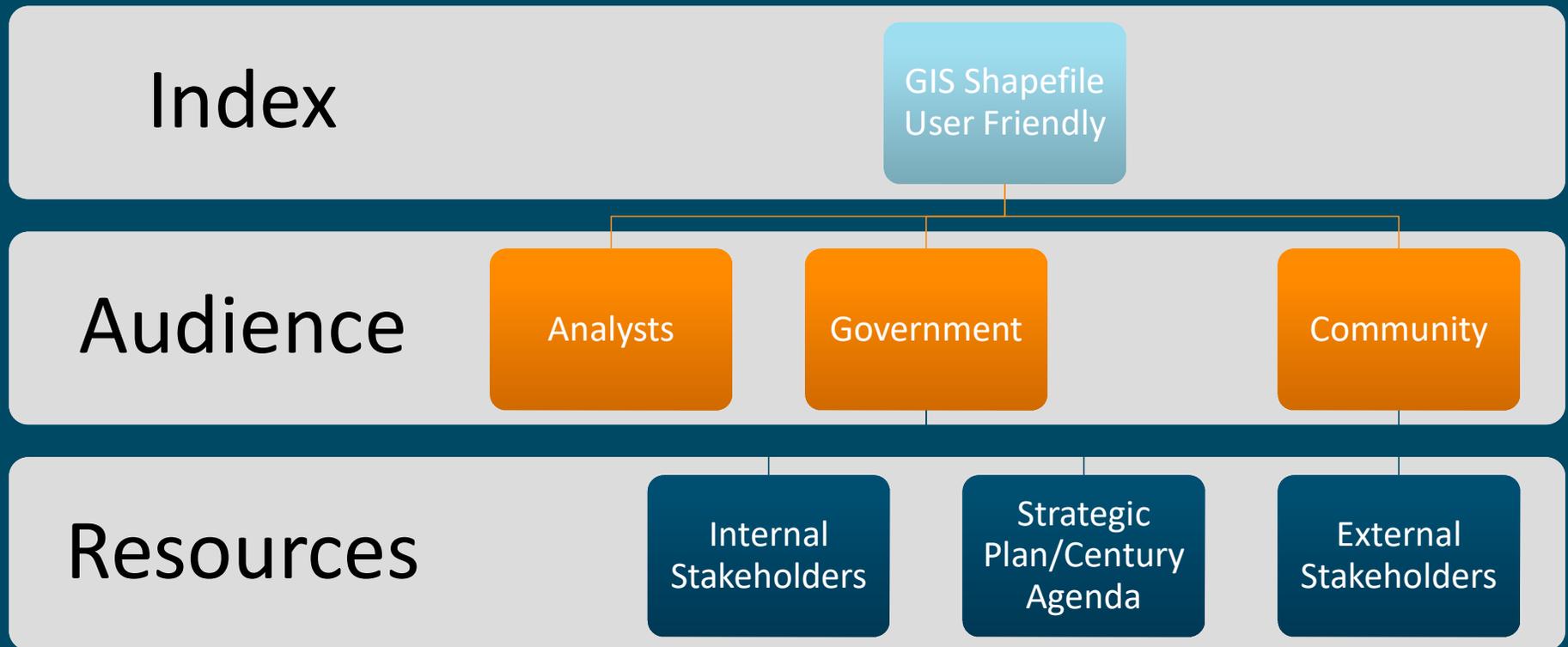
Mapping Tool

Helps leverage
limited
resources

Identifies
Opportunity

**Using Data to
Help Advance
Equity**

Starting Points:



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The Do's and Don'ts

Don't Blame

Do Identify
YOUR Faults

Don't Shame

Do Use
Accurate Data

Examples of Don't Blame or Shame



Data

Home Ownerships Rates

Redlining

Generational Wealth



Know what you control:

Transit Access

- Bus Frequency
- Diesel Emissions
- Highway Placements

Zoning

- Healthy Food Access



Coloring of Maps

Black

Red

Data and Color Association

Dictionary.com replied

disaster :) @sumbabyy · 38m
Black is such a hated word and used as so offensive in the dictionary and in general. It is so important to not tear someone down for their color but to stand by them, it is so important to have more positive words for Black, words define perception @Dictionarycom

1 3 11

Dictionary.com @Dictionarycom · 18m
We agree that how words are defined can impact perception, and our lexicographers will be updating our entry for the word Black.



black *adj* 1 **black** sad, gloomy, or gloomy. 2 **black** occurrence of calamitous. 3 **black** hostility or anger. 4 **black** discontent; pessimistic; dis- 5 **black** hostile; without any moral quality or wicked. 6 **black** indicating censure, 7 **black** beautiful.

Redefine Black: Why Dictionary.com Is Updating Its Definition - Every...
At Dictionary.com we take words very seriously. They are foundational to how individuals think about themselves, and they can influence the percept...
dictionary.com

What changes will we make to our current definition?

If you look on Dictionary.com today, the adjectival sense of *Black* that refers to people is the third sense on the page. Currently this definition sits right above a definition that reads “soiled or stained with dirt.” While there are no semantic links between these two senses, their proximity on the page can be harmful. It can lead to unconscious associations between this word of identity and a negative term. These are not associations we want anyone to get from Dictionary.com, and so we will be swapping our second and third senses on the page.

Unconscious Bias

 **Alexis Ohanian Sr.**  
@alexisohanian Following

Software is written by humans who have bias, the training data is generated by humans with bias -- it's not malicious (in most cases) but it does absolutely exist, @AOC is correct. 🟢

 **Ryan Saavedra**  @RealSaavedra
Socialist Rep. Alexandria Ocasio-Cortez (D-NY) claims that algorithms, which are driven by math, are racist

0:35

2:19 AM - 23 Jan 2019

9,402 Retweets 50,575 Likes

752 9.4K 51K

 **Alexis Ohanian Sr.**  
@alexisohanian Following

Here's a good starting point for those of you interested in learning more:
[nature.com/articles/d4158...](https://www.nature.com/articles/d4158...)

(Nature is one of the top science journals in the world) 🟢



AI can be sexist and racist — it's time to make it fair
Computer scientists must identify sources of bias, de-bias training data and develop artificial-intelligence algorithms that are robust to skews in the data.
[nature.com](https://www.nature.com)

What is the Port of Seattle's Equity Index

- Aggregated by Census Blocks Groups
- 4 Equally Weighted Determinant Categories
- 21 Indicators
- Racial Demographic Overlay

All sources were authoritative, accurate and reliable data; collected by block group or census tract.

Established all calculations and data within ArcGIS **First**

Categories | Century Agenda | Definitions

Accessibility

Goal #5 Become a model for equity, diversity, and inclusion.

Indicators that are not necessary for survival but advance the standard of living in a community so that people of all abilities can fully access and participate in public life (e.g. proximity to parks and open space, access to healthy food, pedestrian and bike facilities).

Economy

Goal #3 Responsibly invest in the economic growth of the region and all its communities.

Indicators that demonstrate the opportunity for the creation, retention, transfer, and accumulation of wealth within a community for residents, businesses, and community stakeholders (e.g. poverty rate, median household income, educational attainment).

Environment

Goal #4 Be the greenest and most energy efficient port in North America.

Indicators that represent the health of the environment, including human-made impacts and bio-physical elements, and thus the vitality of the community (e.g. diesel emissions, risk of toxic release from facilities, traffic density).

Livability

Goal #6 Be a highly effective public agency.
Objective #18 Partner and engage with external stakeholders to build healthy, safe, and equitable communities.

Indicators that demonstrate a safe and healthy standard of living (e.g. housing cost burden, home ownership rate, transit access).

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Methodology



Accessibility

- Proximity to Parks and Open Space
- Access to Healthy Food
- Pedestrian and Bike Facilities
- Internet Access
- Voter Participation

Environmental

- Diesel Emissions and NOx Emissions
- Average Annual PM 2.5
- Risk of Toxic Releases from Facilities
- Traffic density

Livability

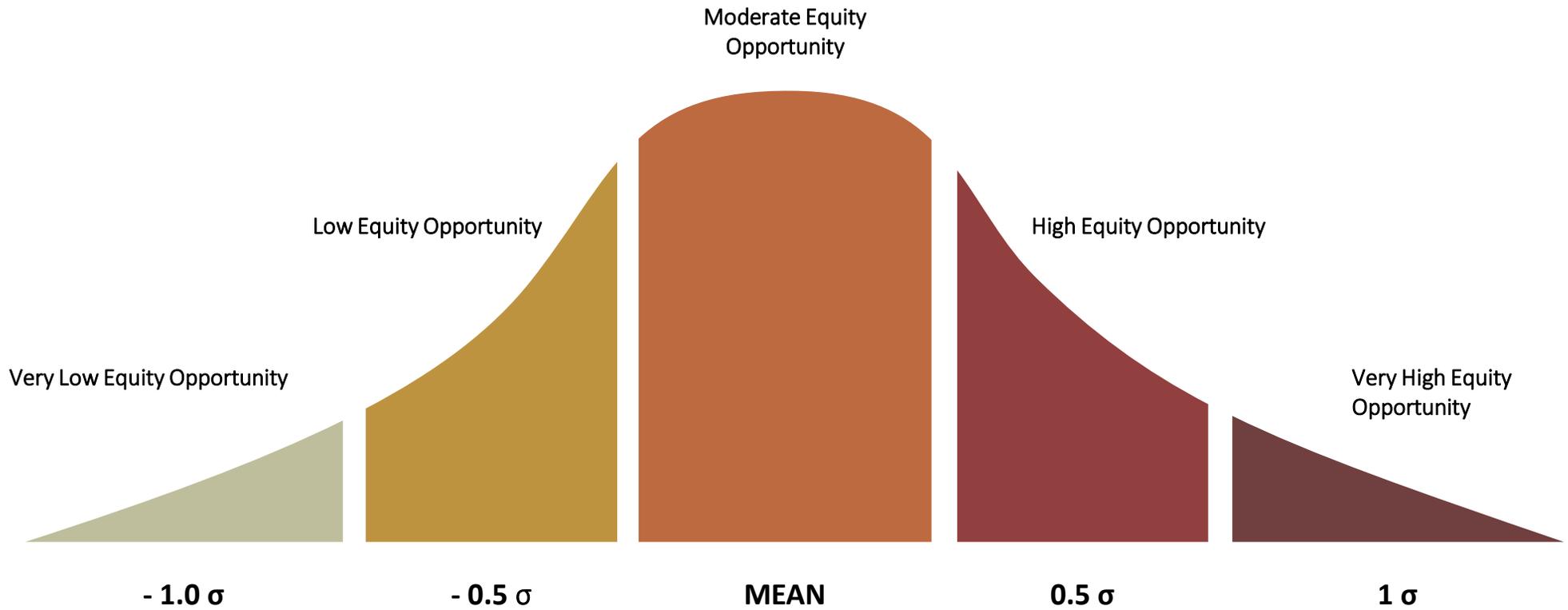
- Housing Cost Burden
- Transit Access
- Access to Jobs by Transit
- Crime Index
- Life Expectancy
- High School Graduation Rate

Economy

- Poverty Rate
- Unemployment Rate
- Median Household Income
- Educational Attainment
- Job Density

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Distribution of Data





Port of Seattle Index Equity Value

- Very Low
- Low
- Moderate
- High
- Very High

Port of Seattle Equity Index

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Port of Seattle Equity Index

Port of Seattle Index

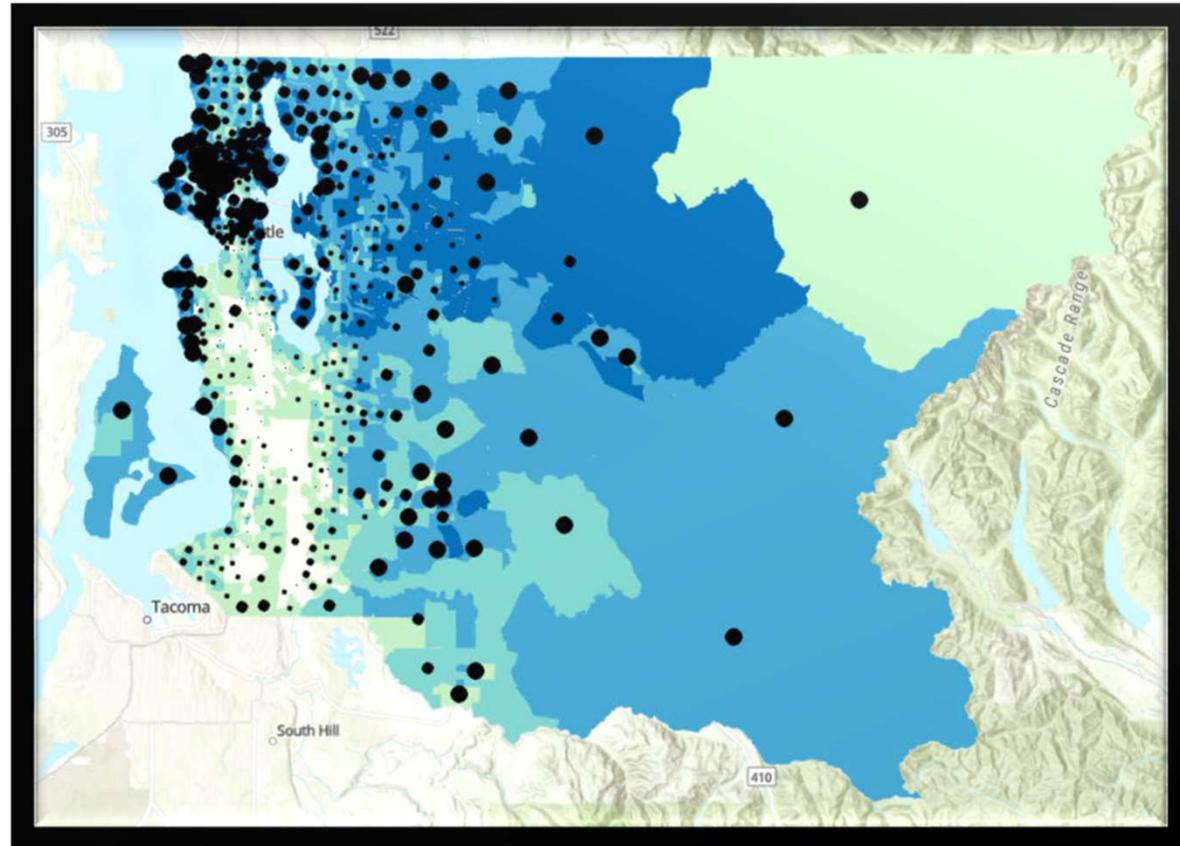
Equity Value



Race

Percent of Population that is White alone, Non-Hispanic

- 9.1% - 35.9%
- 35.9% - 52.9%
- 52.9% - 66.8%
- 66.8% - 78.1%
- 78.1% - 95.7%



Port of Seattle Equity Index

The Port of Seattle's Equity Index is an interactive map that displays a visual representation of social and environmental disparities in King County. It uses 21 indicators in four categories to determine indicators burden and social inequities in communities across the region. This index serves as a tool for the Port to integrate equity data into decisions about programs, policies, and resources.

[Explore Map](#)

Economy
Indicators related to creation, retention, transfer, and accumulation of wealth within a community

Livability
Indicators that demonstrate a safe and healthy standard of living

Accessibility
Indicators that advance the standard of living in a community so that people can fully access and participate in public life

Environment
Indicators that represent the health and vitality of the environment

Landing Page

LINKS [Online Tool](#)

King County, Washington

Overall Combined Index Value for the Selection Area:
★ ★ ★ **Moderate**

Population
2.2 m

Disabled
9%

Race & Ethnicity

Asian	8%	166,063
Black	6%	147,790
Native American	1%	17,197
Other	4%	97,377
Pacific Is.	1%	16,342
Two or More Races	6%	140,166
White	64%	1,484,324
Hispanic	9%	212,241
Non-Hispanic	9%	1,381,261

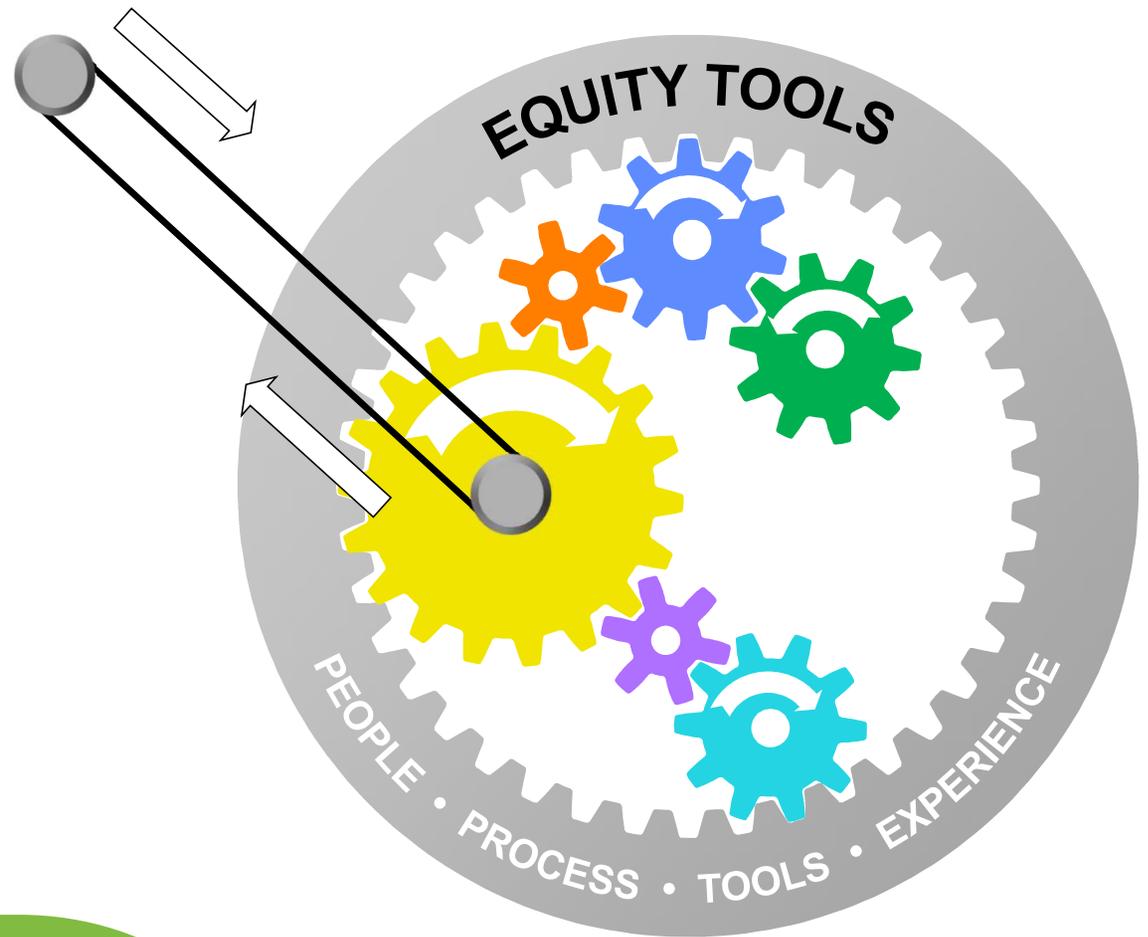
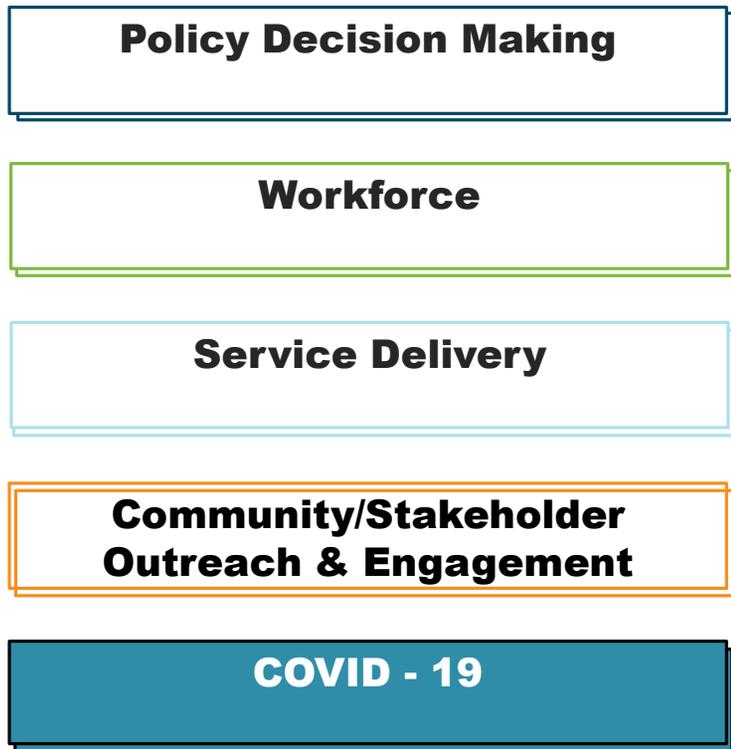
Foreign Pop.
23%

English Language Learners
3%

User Friendly Interactive Webpage

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Data Driven Applications



Port of Seattle Equity Index

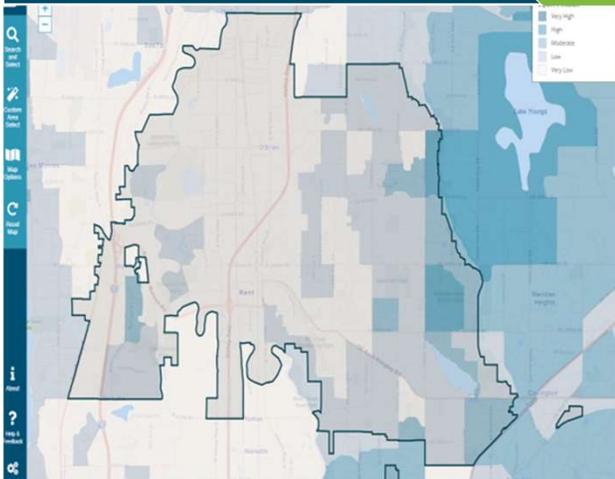
Equity Index
City of Kent



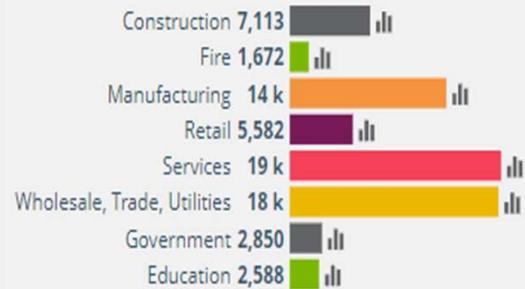
Economic Data



City of Kent



Estimated Jobs Total



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Next Steps

Case Studies

Building
Partnerships

Story Maps

Demonstration

Search &
Select

Custom
Areas

Map
Options

Print
Option

Categories

Questions?

Alison Beason
Beason.A@PortSeattle.org

Thank You

Port 
of Seattle®