

Data

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Measuring People-friendly Streets Global Designing Cities Initiative

April 11, 2018

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A Paradox:

"We know very much about the habitat of Siberian tigers and mountain gorillas, but only very little about the habitat of homo sapiens."

> *Enrique Peñalosa, Mayor of Bogotá, Columbia*

> > for public life

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A Daily Reality:



© marketoonist.com

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Gehl + Gehl Institute

A shared vision: cities for people

Gehl Institute creates conditions for cities for people by creating knowledge and cultivating champions.



Gehl Institute **Gehl** makes cities for people through consulting and design.



How We Measure The Public Realm Today Chubo Speed Reliability Flow Capacity Efficiency Gehl Institute for public life

It Seems Like We Care A Lot About...



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Poor Quality Places Inhibit Well-Being







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The 21st Century Street Is Also a PLACE



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Where What We Value Isn't Just Efficiency, Numbers and Geometry...

Get

...It's Also About The Experience

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Pioneers of People-First Planning



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People-first Planning, Policy + Design

Gehl Institute enables cities for people...



...through knowledge creation that advances systemic change.

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Public Life Is...

Public life is what a collective group of people create when they live their lives outside their homes, workplaces, and cars.



Public space is the backdrop for our:

- Everyday Routines
 - Culture
 - Community
 - Social Activities
 - Physical Activity
 - Civic life

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Public Life Is A Driver Of...



- 1. PHYSICAL AND MENTAL HEALTH
- 2. SUSTAINABILE MOBILITY
- **3. SOCIAL BENEFITS**
- 4. IDENTITY AND SENSE OF PLACE
- **5. SAFETY**
- 6. ECONOMIC DEVELOPMENT



Can We Realign Our Priorities?

Turk

WHEELS ALI

EVERY FAILURE

SHES

TUNE-UP-BATTERIES

-Goodrich

LIL' TOML

BEHIN

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FYEAR

KAHN & KEVILLE

TIRES



















People Are The Key!

Cultures and climates are different from city to city...



...but we all experience our environment from the same starting point...

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How Do YOU Experience the City?



Average speed





Average human viewpoint for public life



Stimuli activate our senses. A happy brain needs 1000 stimuli per hour.

That's once every 4 seconds!

A City Based on the Human Dimension

4

sec

6m

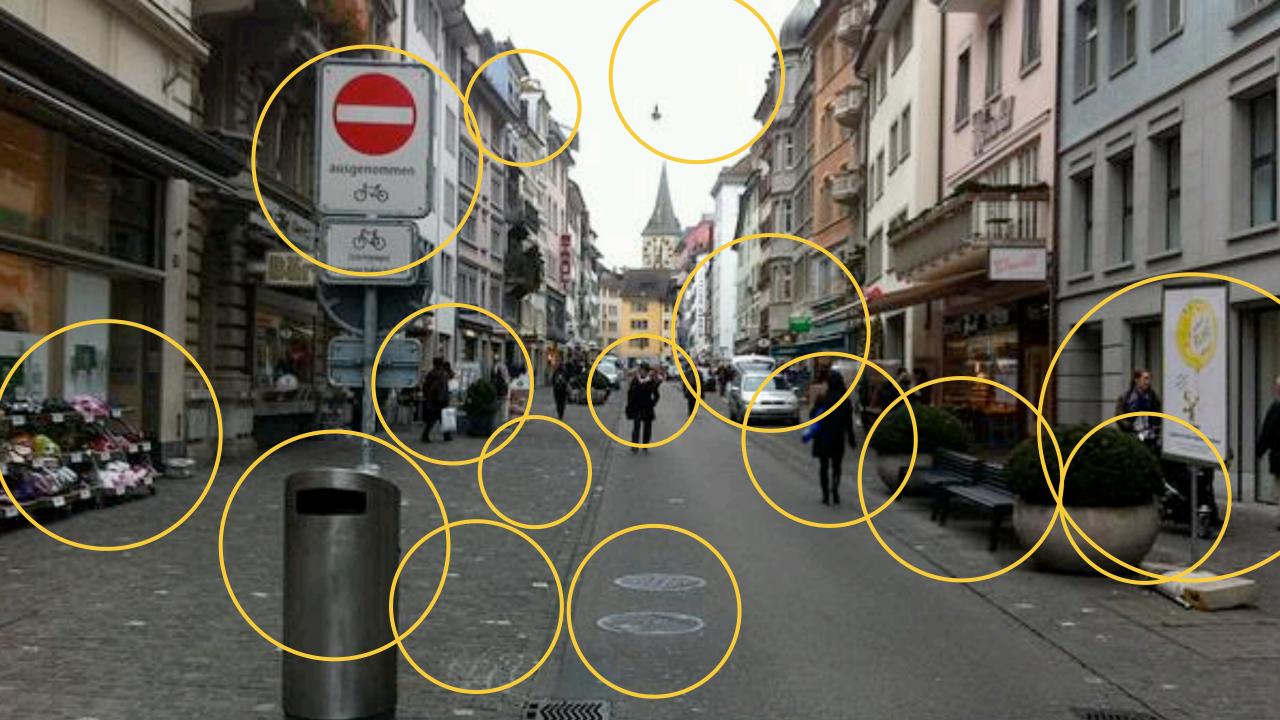
Understanding public life requires understanding many different components

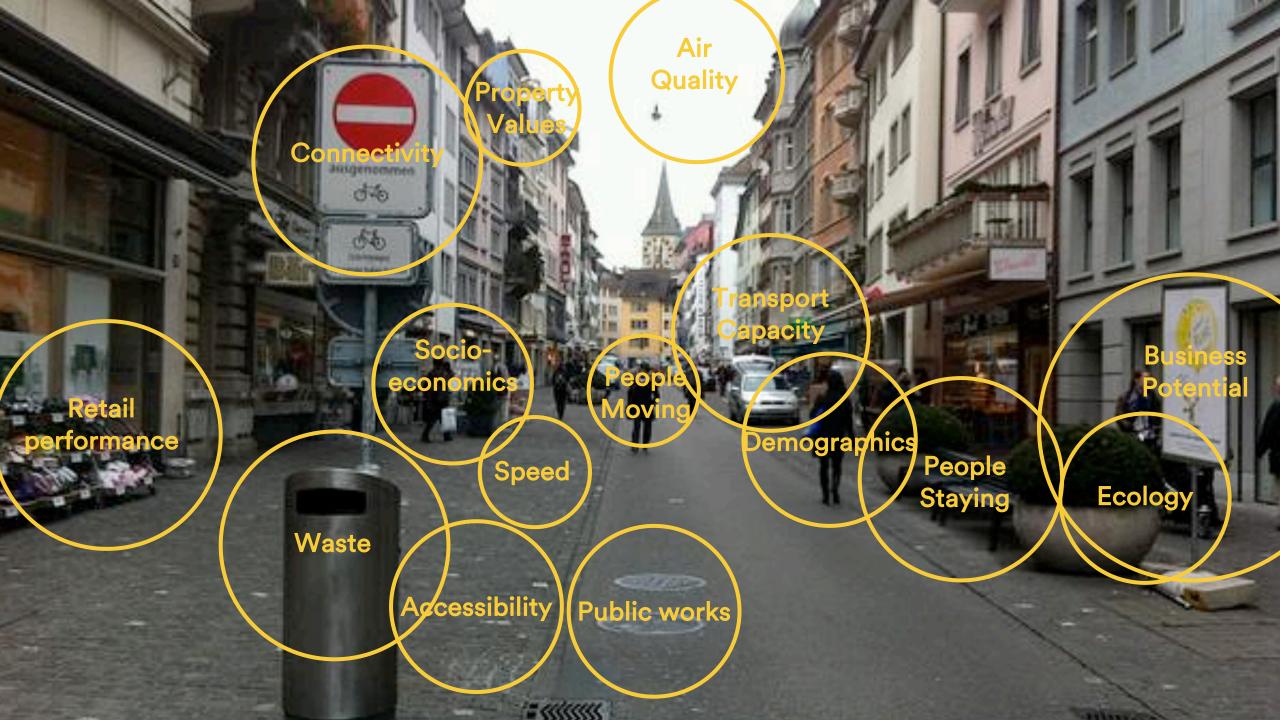
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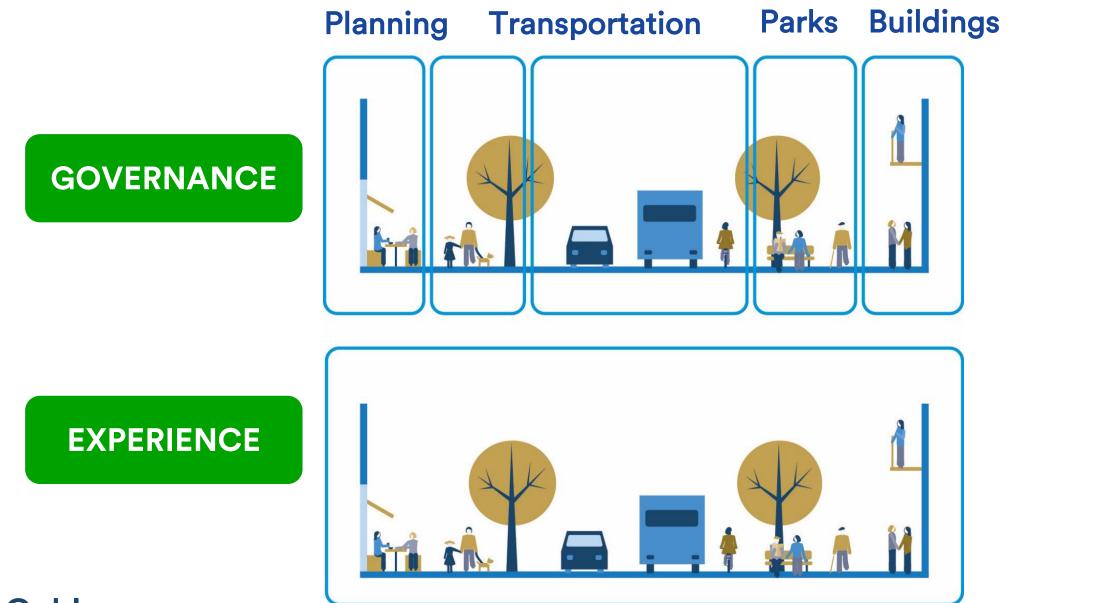
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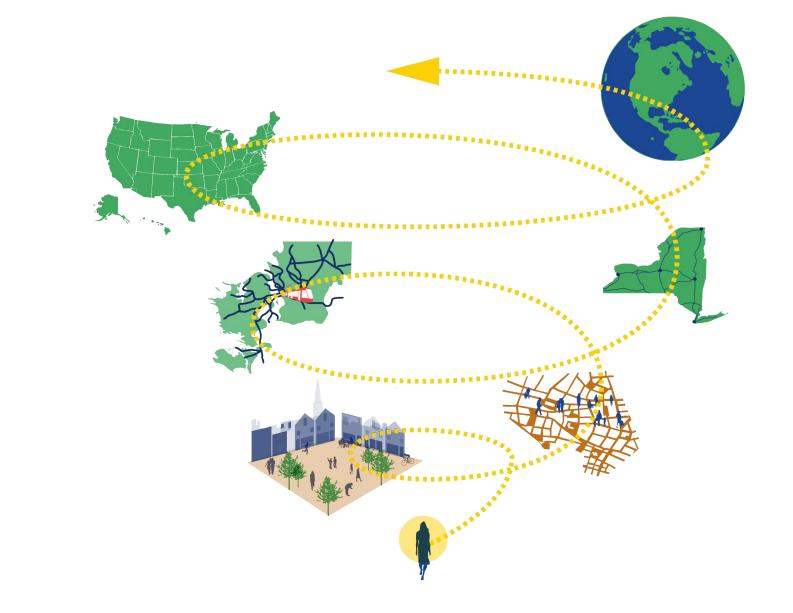


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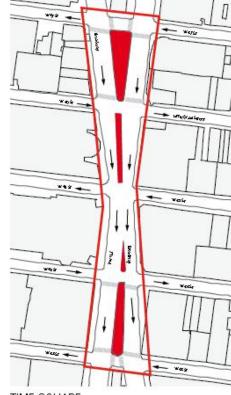
Global Best Practices Will Be Needed



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Seeing a Place with Fresh Eyes



TIME SQUARE total area: 16 960 m2 Redestrian area: 1 880 m2

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Times Square consists of 89 % road space 11 % people space Institute





Understanding Impacts and Change

90% of users were pedestrians

10% of users 90% of area for cars motorists



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HERBIC CONTRACTOR OF CONTRACTO

What Do We Measure?





Counting people walking and cycling

Tallying age and gender



Mapping how people spend time



Surveying social dimensions of public space

Observing design – spatial interaction

Î

Evaluating Spatial components





Observation, Surveys & Analysis

We look at both quantitative factors...





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Observation, Surveys & Analysis

2 = IN BETWEEN

TWELVE URBAN QUALITY CRITERIA

LOCATION:

...and qualitatitive ones.

Protection	Protection against traffic and accidents. Do groups across age and ability experience traffic safety in the public space? Can one safely bike and walk without fear of being hit by a driver?	Protection against harm by others. Is the public space perceived to be safe both day and night? Are there people and activities at all hours of the day because the area has, for example, both residents and offices? Does the lighting provide safety at night as well as a good atmosphere?	Protection against unpleasant sensory experience. Are there noises, dust, smells, or other pollution? Does the public space function well when it's windy? Is there shelter from strong sun, rain, or minor flooding?
	Options for mobility.	Options to stand and linger.	Options for sitting.
	Is this space accessible? Are there physical elements that might limit or enhance personal mobility in the forms of walking, using of a wheelchair, or pushing a stroller? Is it evident how to move through the space without having to take an illogical detour?	Does the place have features you can stay and lean on, like a façade that invites one to spend time next to it, a bus stop, a bench, a tree, or a small ledge or niche?	Are there good primary seating options such as benches or chairs? Or is there only secondary seating such as a stair, seat wall, or the edge of a fountain? Are there adequate non-commercial seating options so that sitting does not require spending money?
Comfort	Options for seeing. Are seating options placed so there are interesting things to look at?	Options for talking and listening/ hearing. Is it possible to have a conversation here? Is it evident that you have the option to sit together and have a conversation?	Options for play, exercise, and activities. Are there options to be active at multiple times of the day and year?
Enjoyment	Scale. Is the public space and the building that surrounds it at a human scale? If people are at the edges of the space, can we still relate to them as people or are they lost in their surroundings?	Opportunities to enjoy the positive aspects of climate. Are local climatic aspects such as wind and sun taken into account? Are there varied conditions for spending time in public spaces at different times of year? With this in mind, where are the seating options placed? Are they located entirely in the shadows or the sun? And how are they oriented/ placed in relation to wind? Are they protected?	Experience of aesthetic qualities and positive sensory experiences. Is the public space beautiful? Is it evident that there is good design both in terms of how things are shaped, as well as their durability?



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Public Life Toolkit



Counting

Counting is a widely used tool in public life studies. In principle, everything can be counted, which provides numbers for making before-and-after comparisons, between different geographic areas over time.



Looking for traces

Human activity often leaves traces, which can give the observer information about city life. Traces can be counted, photographed or drawn on a map.



Plotting

Activities, people, places for staying and much more can be plotted in, i.e. drawn as symbols on a plan of an area being studied to mark the number and type of activities and where they take place. This is also called behavioral mapping.



Photographing is an essential part of public life studies as it helps to document situations where urban life and form either interact or don't after changes have been made.



Tracing

People's movements inside or crossing limited spaces can be drawn as lines of movement on the plan of the study area.



Keeping a diary

Keeping a diary can register details and nuances about the interaction between public life and space. Noting observations can later be categorized and/or quantified.



Tracking

In order to observe people's movements over a large area or for a longer time, observers can discreetly follow people without their knowing it or follow someone who knows and agrees to be followed and observed. This is also called shadowing. Test walks Taking a walk whi

Taking a walk while observing is underway can be made more or less systematic, so that the observer sees problems and potentials for himself on any given route. From *How to Study Public Life* by Jan Gehl + Birgitte Svarre



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Telling Stories About Impact



Longitudinal Analysis

Investment

Surveys or Testimonials Impact on Public Life



Democratizing Data



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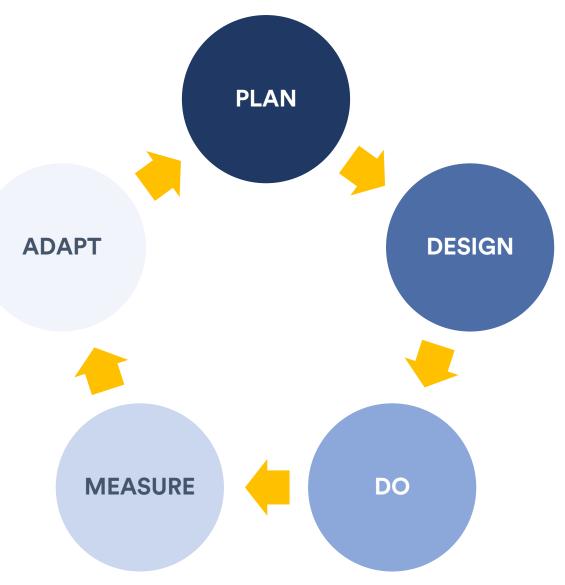
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12 Quality Criteria

Stationary Activity Mapping

See All Tools

Connecting Action and Evaluation

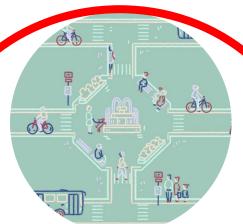


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More Ways To Understand Public Life



New knowledge: Inclusive Healthy Places



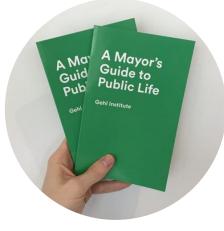
Open, standard language: Public Life Data Protocol



Learning experiences: Public Life Dialogues



Dialogues: Public x Design



Targeted Reference Guides Implementation Experiments

Open resources: Public Life Tools



Applied engagement: Study Tours/Policy Labs Shift focus to people, life, and culture to tackle urban challenges

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New York City Plaza Study

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room

Teas n

Measuring Economic + Social Impact



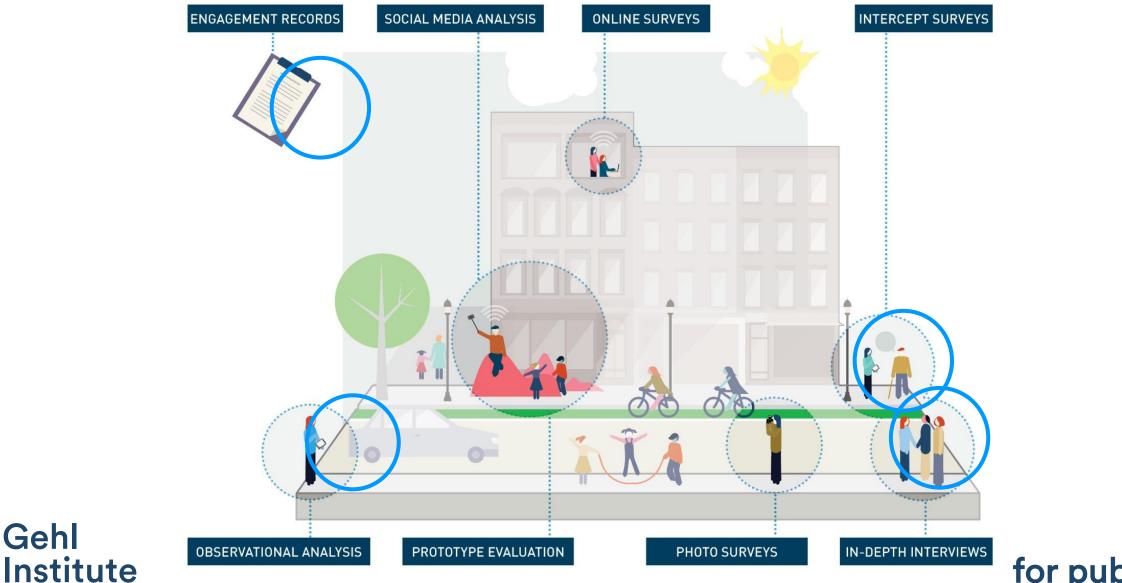
Economic impacts are often the sole metric.

Social impacts have been less explored

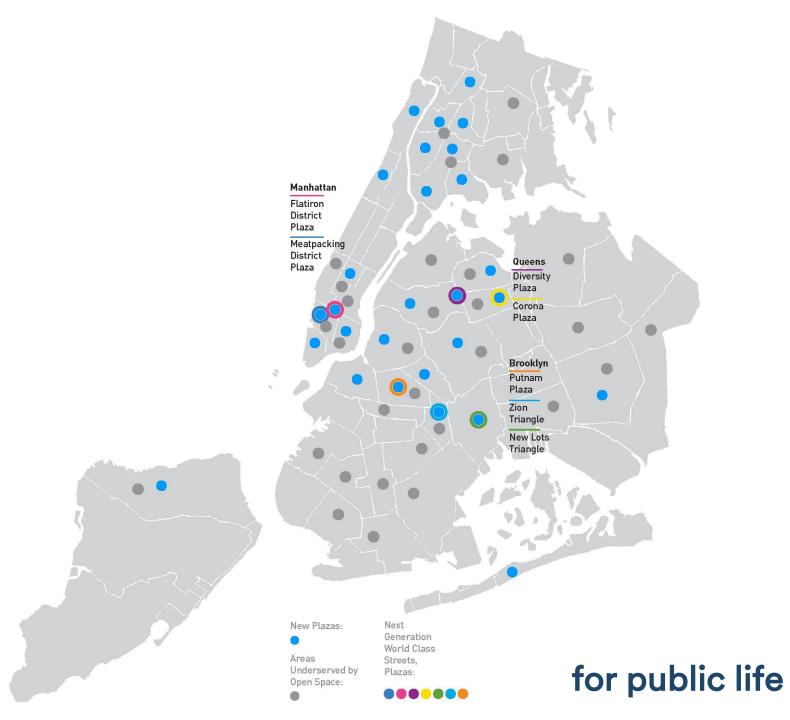
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NYC Plazas: Evaluation Methods

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7 Plazas

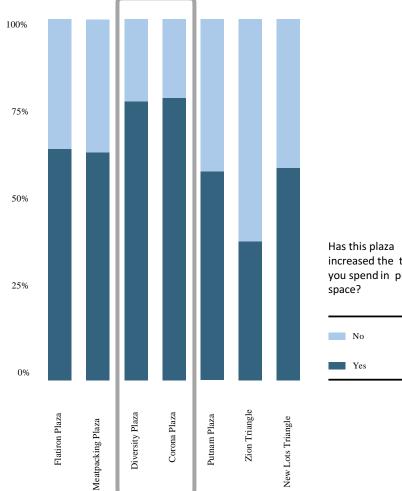


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Use Increased

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Neighborhoods that lack open space the most reported a greater increase in time spent outside.

increased the time you spend in public

53% across all 7 plazas recognize or know more people since the plaza opened

Plazas foster social connections.



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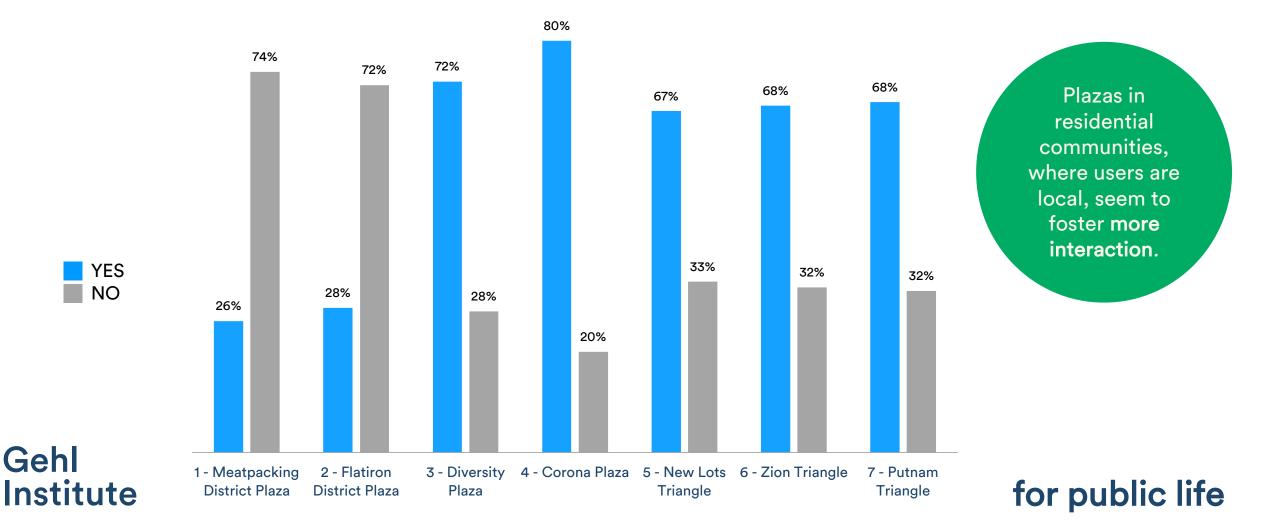
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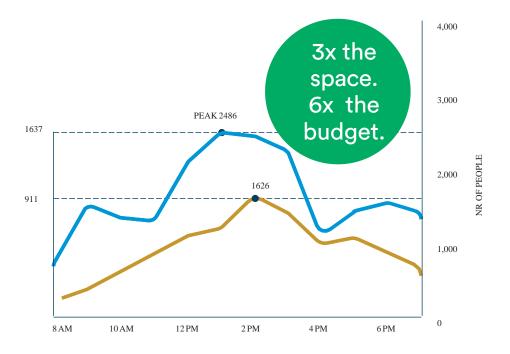
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Everyday Spaces Create Cohesion

"Since the plaza opened, do you recognize or know more people in the neighborhood?"

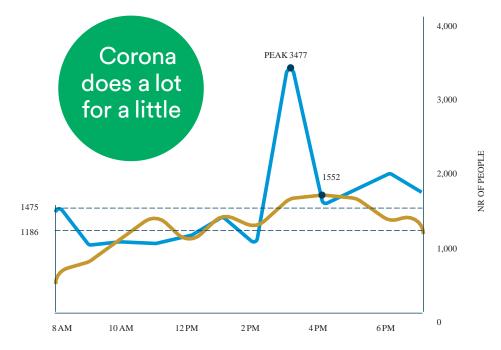


"Everyday" Spaces Do More With Less



Flatiron 45,000 sq ft. Operations Budget (2014) \$375,000

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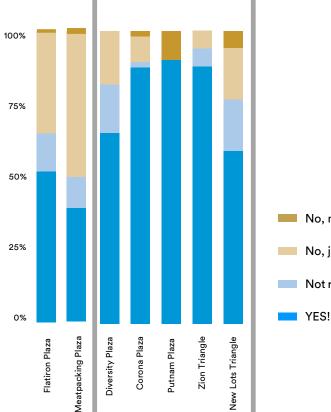


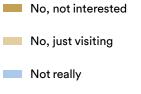
Corona 13,500 sq. ft. Operations Budget (2014) **\$65,000**

pedestrian volumes weekday weekend

Everyday Spaces Support Stewardship

Is this plaza your plaza?





Respondents in outer-borough plazas responded YES at a higher percentage than in the Manhattan plazas.

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ALIENTO DE VIDA, INC.



Seattle DOT Corridor Analysis

5% Payalap

dit

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Corridor Performance

Seattle DOT's MISSION:

 Deliver high-quality transportation system for Seattle

Seattle DOT's VISION:

• Connected people, places, and products

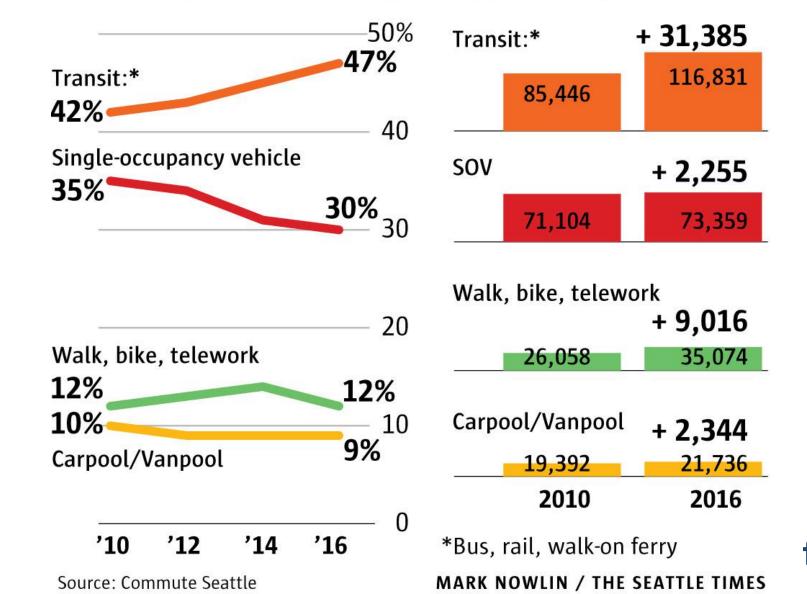
Seattle DOT's CHALLENGE:



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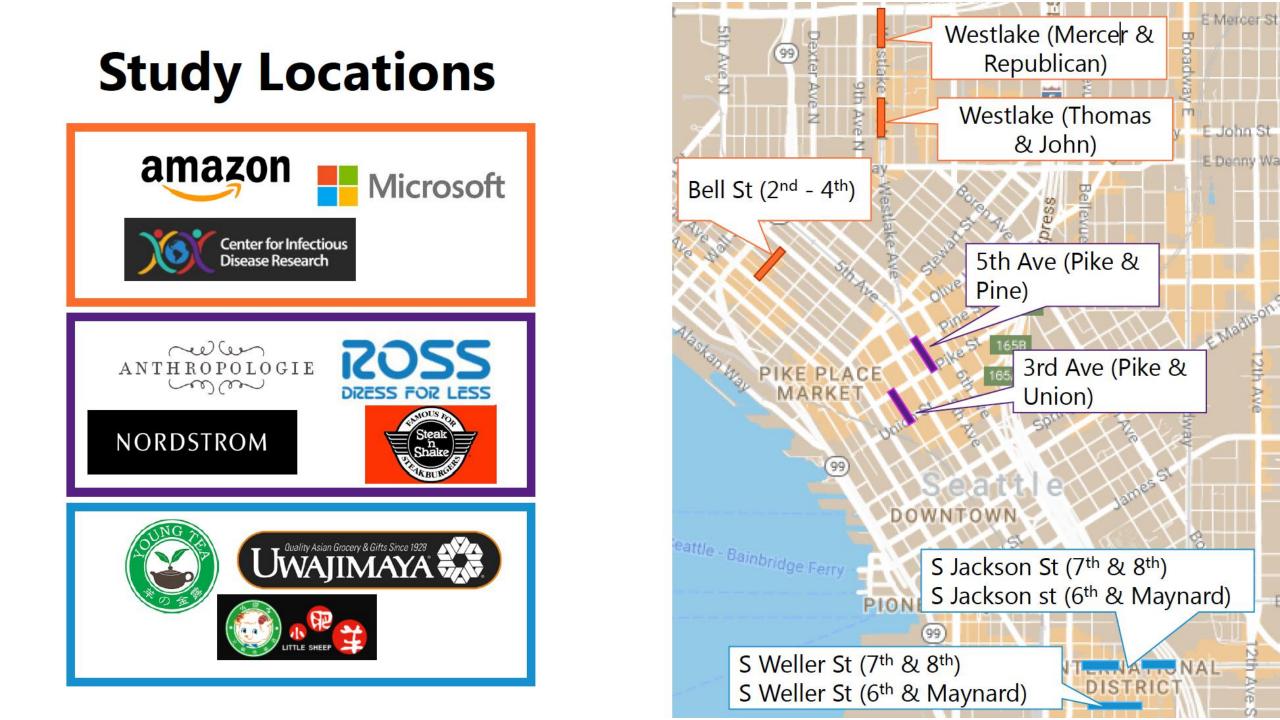
Shifting the commute

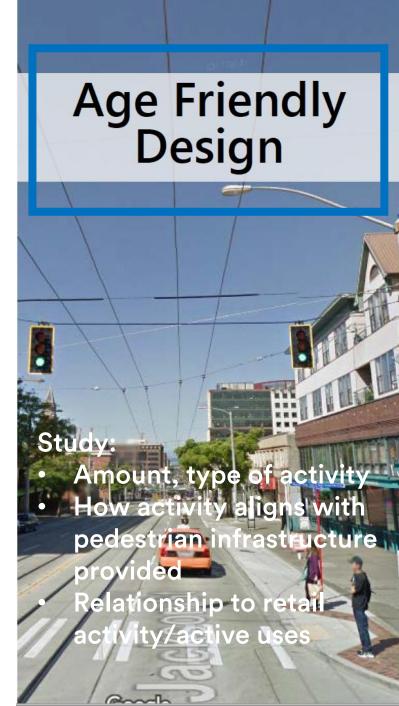
Transit use has increased to 47 percent of central-city commuters, while solo driving has dipped to 30 percent.



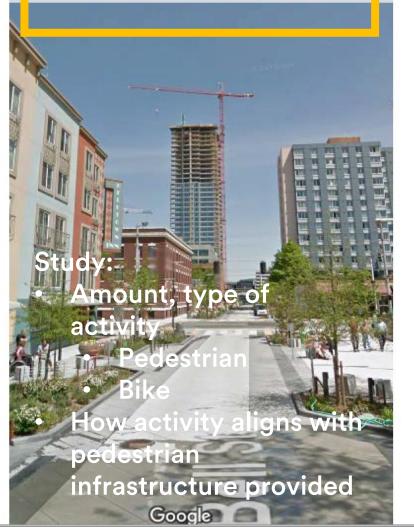
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Market to MOHAI



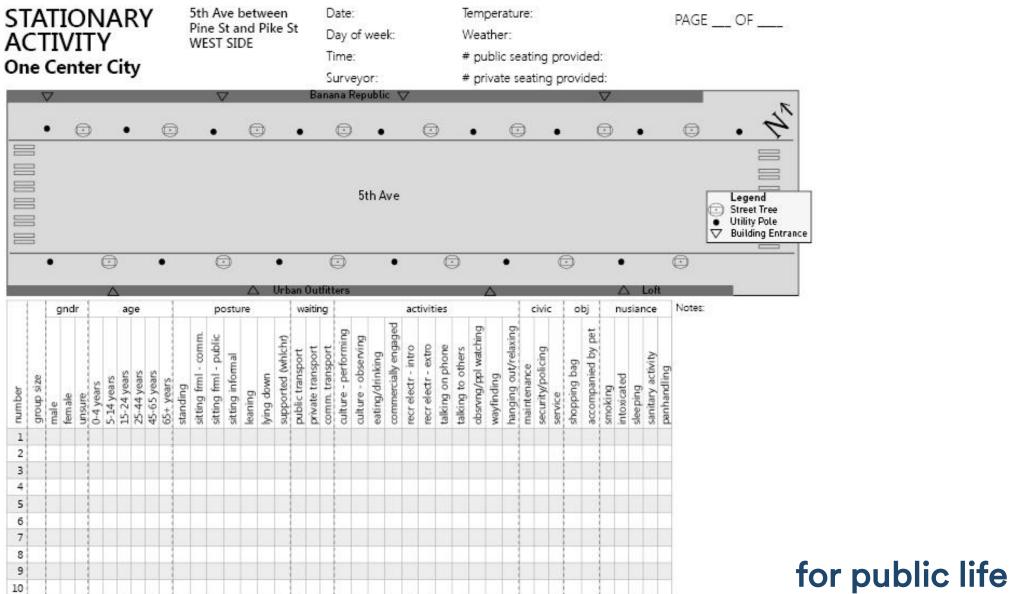
One Center City Study: Type of stationary activities present Emphasis on social behaviors and transit queuing

Google

Adapting The Tools

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Adapting The Tools

PEDESTRIAN	Street name:	Date:
COUNTS	between	Day of week:
COONIS	8	Time:
One Center City	Side of street: N S E V	V Surveyor:
Count 1. Number of pedestrians, split b	y group size. 10 minutes. STA	urt: Stop:
SIZE	TALLY	1

SIŻE	TALLY	TOTAL
1 person		
2 people		
3 people		
4 people		
5 people		
6 people		
7 people		
8 people		
>8 people		
0.8	TOTAL:	

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PEDESTRIAN	Street name:	Date:
COUNTS	between:	Day of week:
COONTS	8	Time:
One Center City	Side of street: N S E W	Surveyor:

Count 2.

Number of pedestrians, split by age. Indicate also if pedestrian is carrying shopping bag. 10 minutes.

i.

START:

STOP:

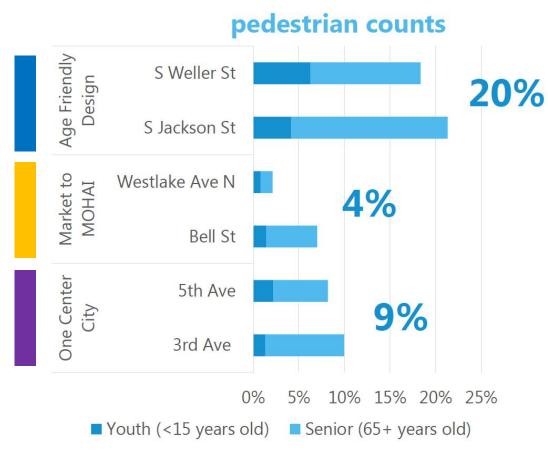
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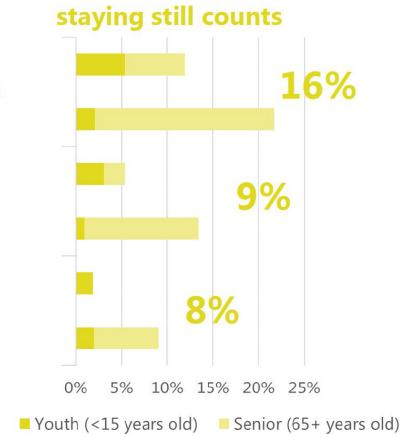




Seattle's Findings

Indicator: age

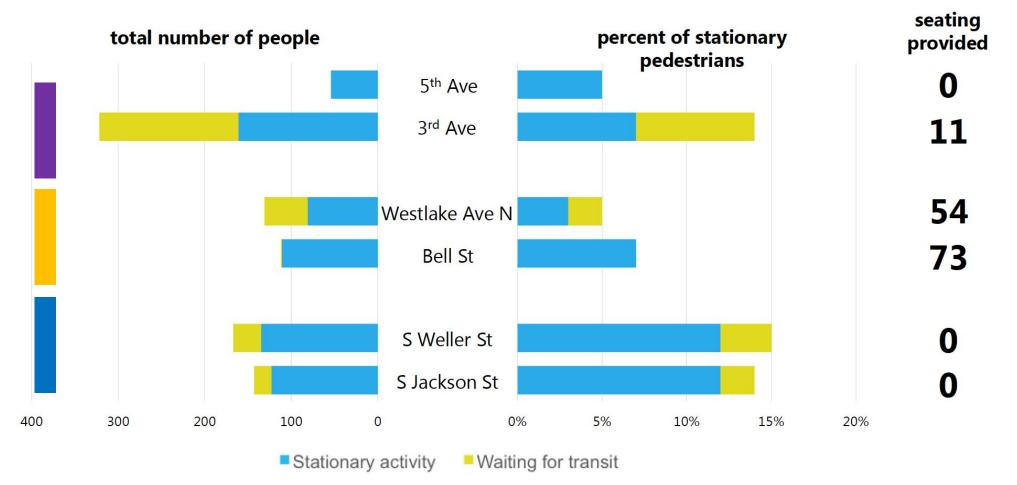




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Seattle's Findings

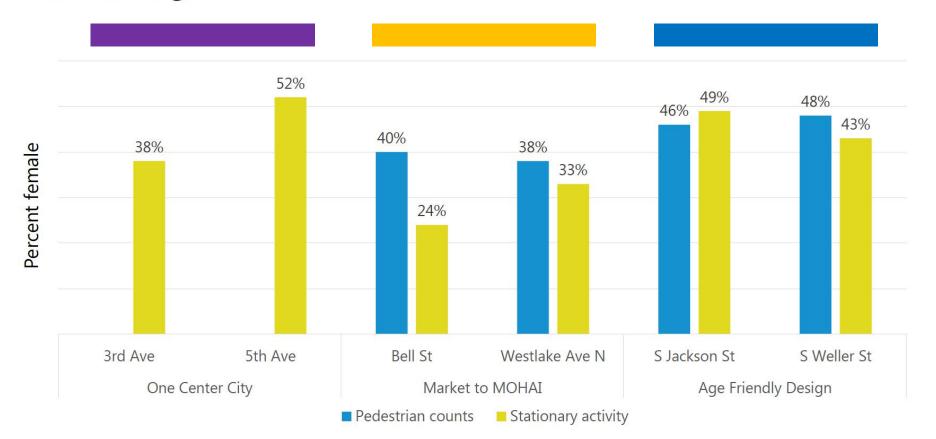
People staying still



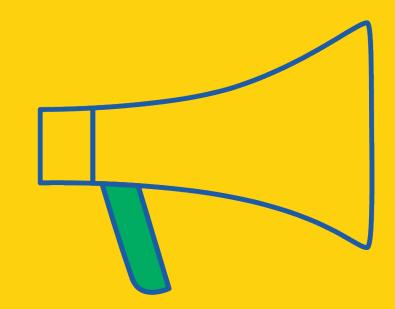
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Seattle's Findings

Indicator: gender



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Thank you!

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