

The Economic Costs of the Mobility Status Quo

Fixing the first, last & middle miles

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A thriving city needs continuous progress towards integrated, highly utilized world-class mobility options

When traffic grinds to a halt, so does economic opportunity. The bottom line depends on getting people to their destinations — whether it's to live, to work, to spend.



“

“We wake up earlier, but how much earlier should I have to suggest our daughter to wake up because traffic is so bad?”

Sunbelt cities are particularly vulnerable to congestion because of poor public transit.

Bad traffic hurts regional economies because people lose time they could be spending working. Shops and restaurants miss out on customers who can't reach them.

“They way underestimated their growth.”

Gridlock also threatens to make regions less competitive.

Companies are also hesitant to move operations somewhere with congested traffic [Amazon HQ2, others]

”

THE WALL STREET JOURNAL.

Sunbelt Traffic Jams Are Frustrating Drivers and Threatening Growth

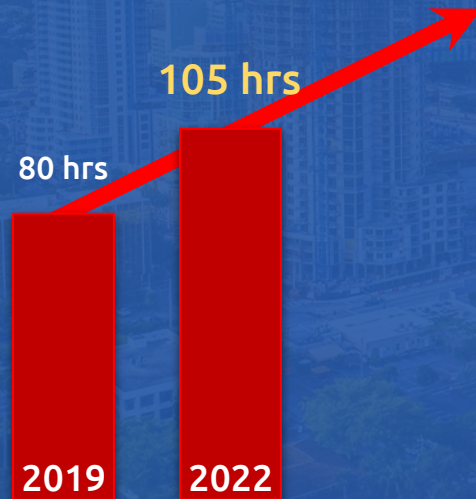
Worsening congestion gums up commutes in cities like Miami, Nashville and Las Vegas – March 14, 2023

It's getting costly out there!



- Transportation is a US household's 2nd highest cost
- Inflation is putting a further squeeze on residents
- Our inaction adds **\$1,733 per year per resident**, or **\$4.5 billion annually for the region**
- National of required car ownership: **\$10,728**. Two person household: **\$21,456**. *Median* household income is only \$64,522
- Miami & Orlando spend the highest share of household income on autos in the country: **14% of income**. Lowest are Seattle, Minneapolis, DC, SF (7.5% to 9.4%)
- Impacts competitiveness for **employer relocation decisions** (e.g. value of Amazon HQ2: **\$6.5 billion** in construction, **50,000 jobs**, total payroll **\$10 billion** to **\$13 billion**)
- Impacts competitiveness for **tourism** (Value: **\$11.1 billion** in **Miami-Dade** & **\$11.4 billion** in **Broward**)
- Impacts quality of life for all residents

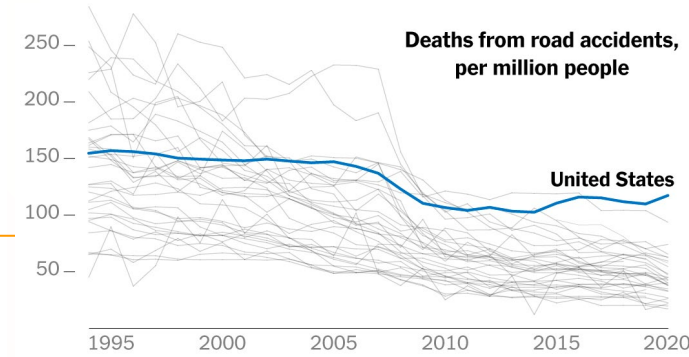
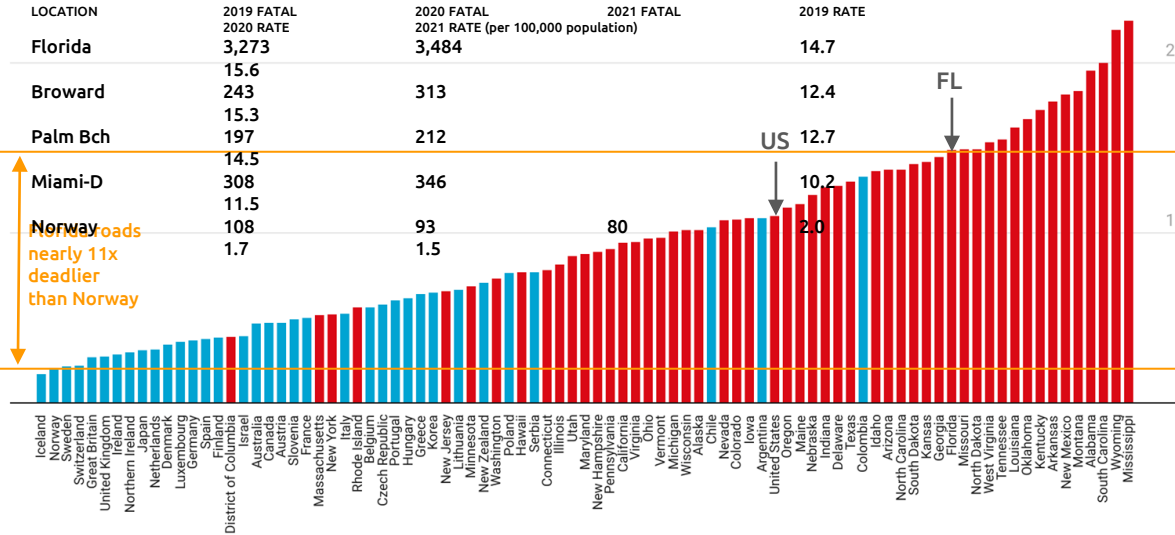
Hours spent in traffic, urban area



And with deadly consequences

Per Capita Traffic Fatalities in OECD and US States

The United States as a whole has a per capita traffic fatality rate of about twice the OECD average, and five times more deadly than leading countries. Data is traffic fatalities per 100,000 people.



US states shown in Red. OECD countries in Blue. US traffic deaths per 100,000 created using 2015-2019 NHTSA data and 2019 B01003 5-year estimate from the American Community Survey.

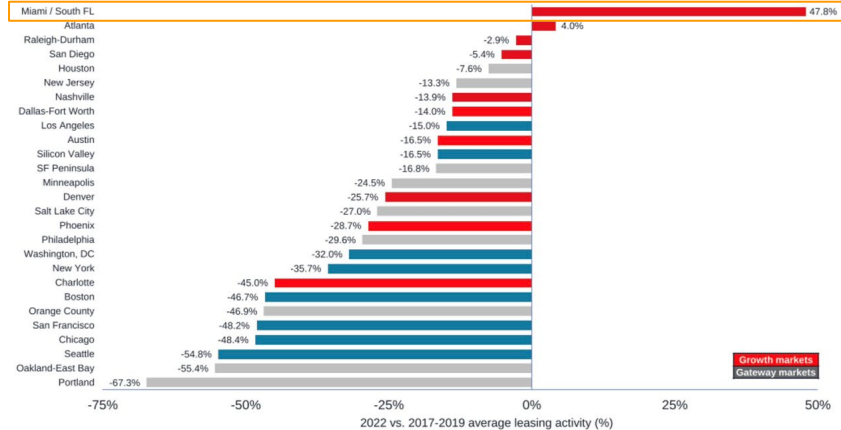
Chart: The League of American Bicyclists • Source: IRTAD, NHTSA, and ACS • Created with Datawrapper

“Compared with automobile travel, intercity and commuter passengers have about 1/20th, urban rail passengers about 1/30th, and bus passengers about 1/60th the fatality rate per 100 million passenger-miles”

The Miami Herald

Florida is the fastest-growing state in the nation, Census says.
What's behind the surge?

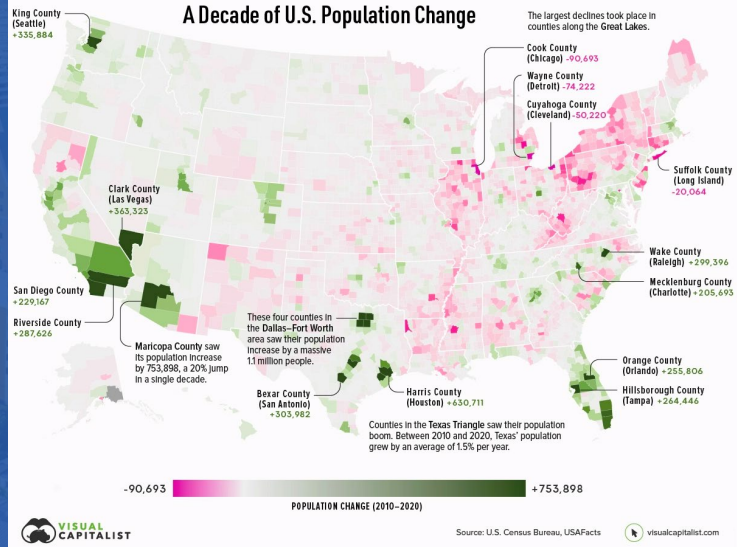
South Florida and Sun Belt Markets Lead The Way in Post Covid Leasing Activity



Source: JLL Research



A Decade of U.S. Population Change



A Case Study in Handling Growth

South Florida & Puget Sound



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Case Study in Rapid Growth: 2010s Edition



OF ALL DOWNTOWN OFFICE DEVELOPMENT NATIONWIDE,

20%

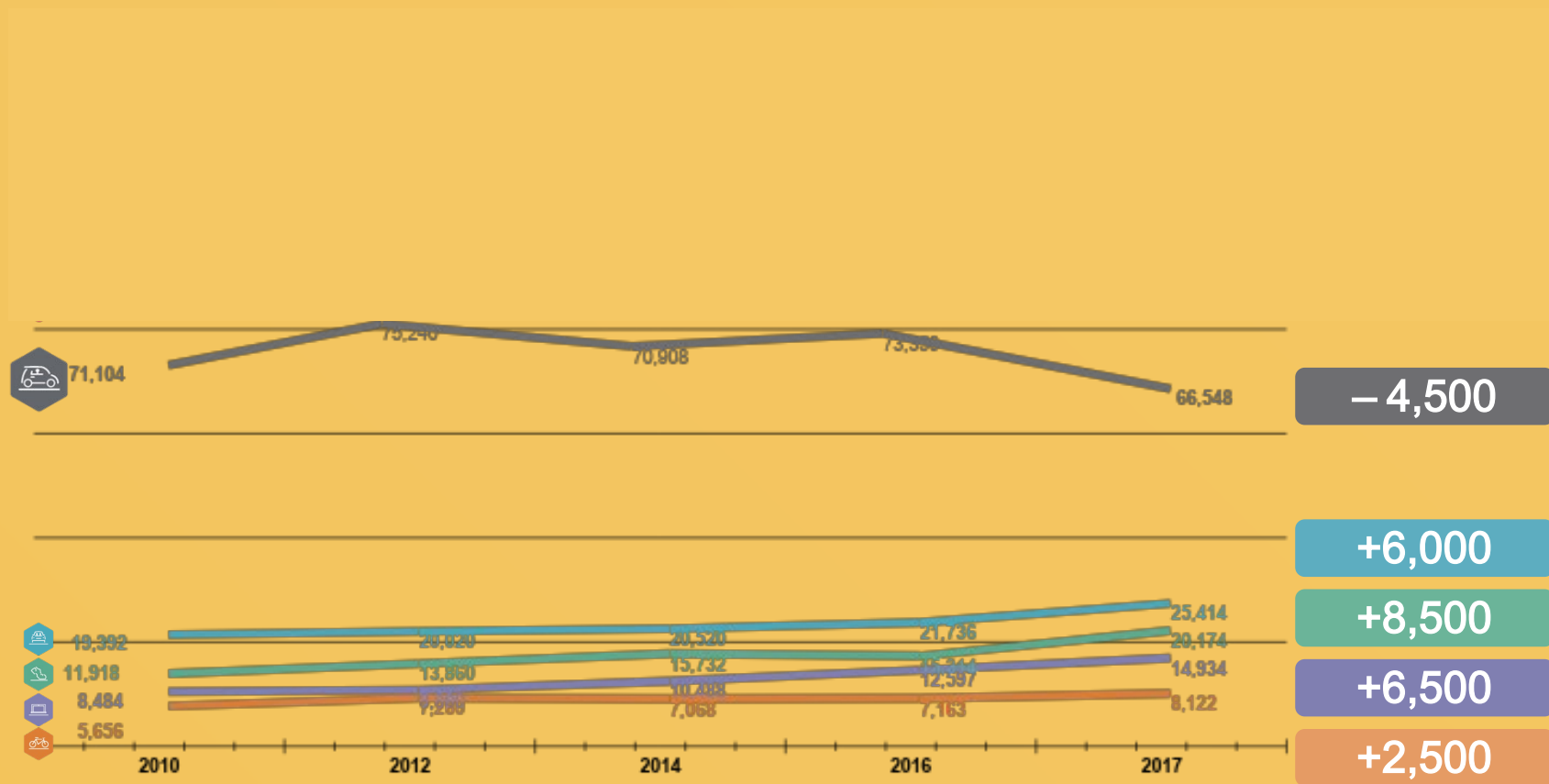
OCCURRED IN DOWNTOWN SEATTLE IN 2017

A Literal Ceiling in System Capacity

Traffic was bad in 2010. Traffic was bad in 2017. But the system moved +60k



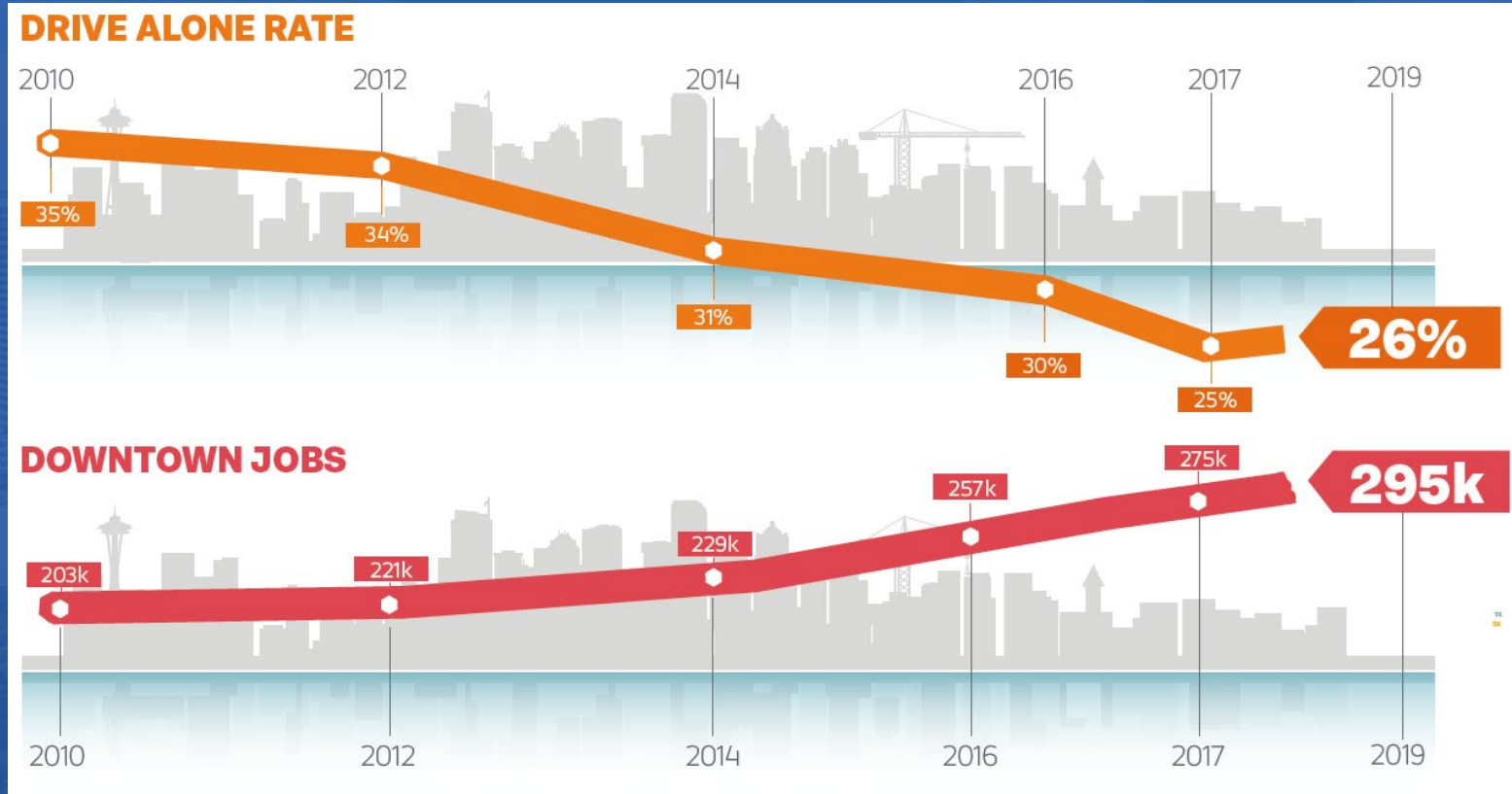
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How a City Adds 100,000 Jobs; Same Roads



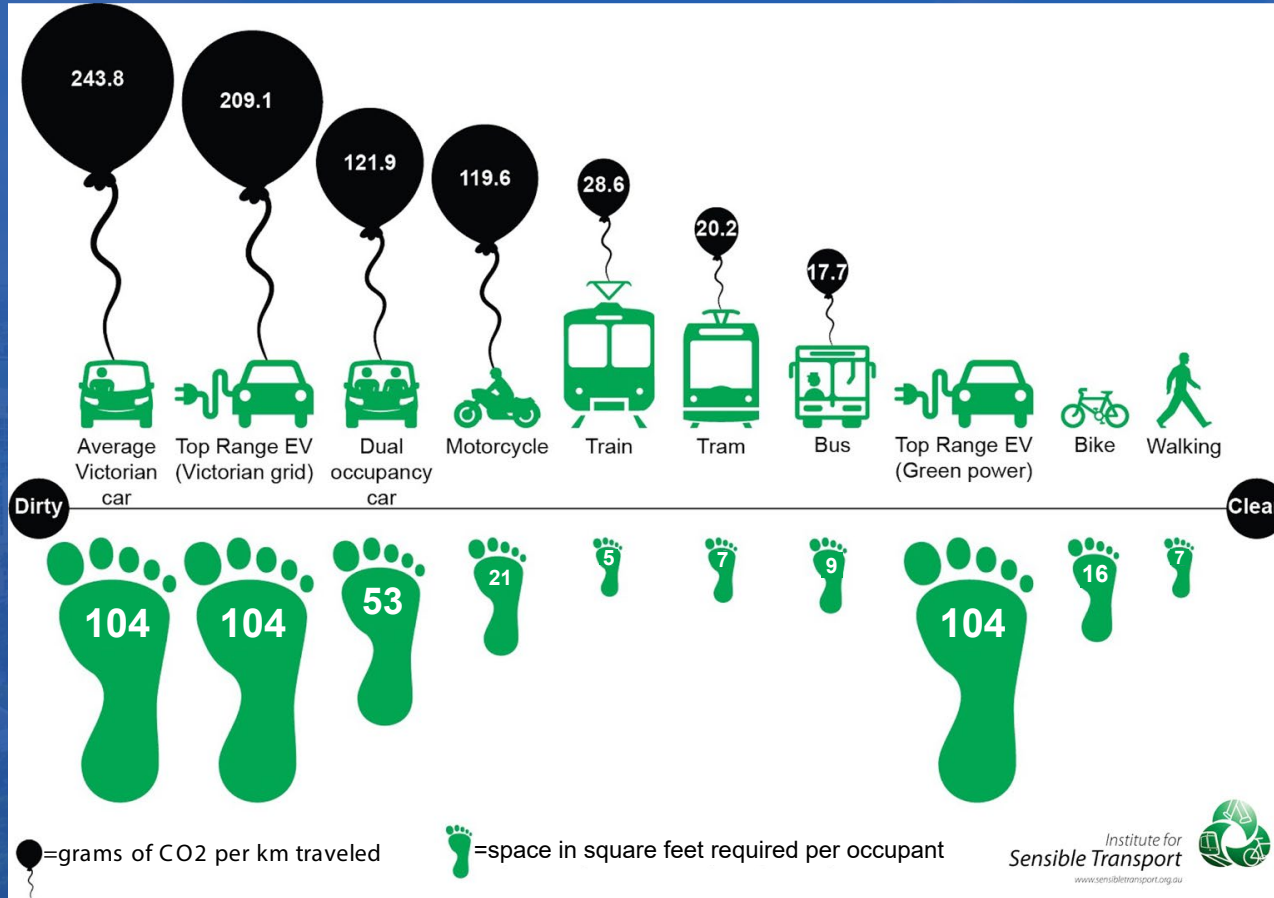
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A Geometry Problem. Merge Right →



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A Geometry Problem. Imagine the Possibilities!



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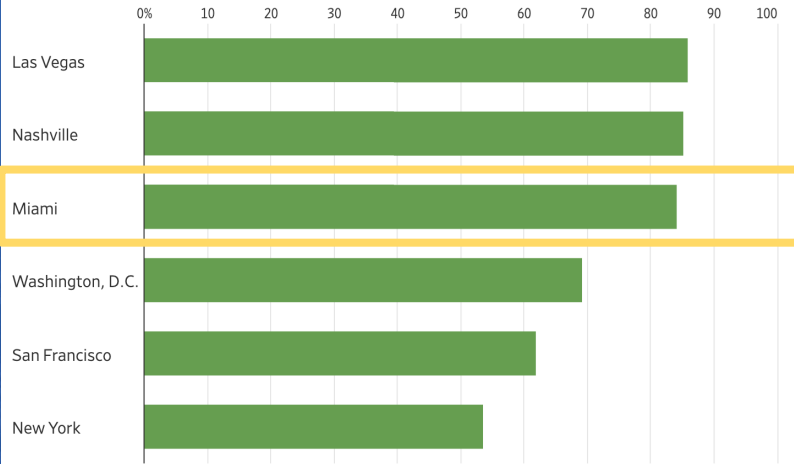
Here are 200 people in 177 cars



A Geometry Problem.

More Cars, More Gridlock

Estimated share of workers who drive or carpool to work, by metro area



Source: U.S. Census Bureau 2017-2021 American Community Survey

What does it take to move a thousand people? ST3 edition

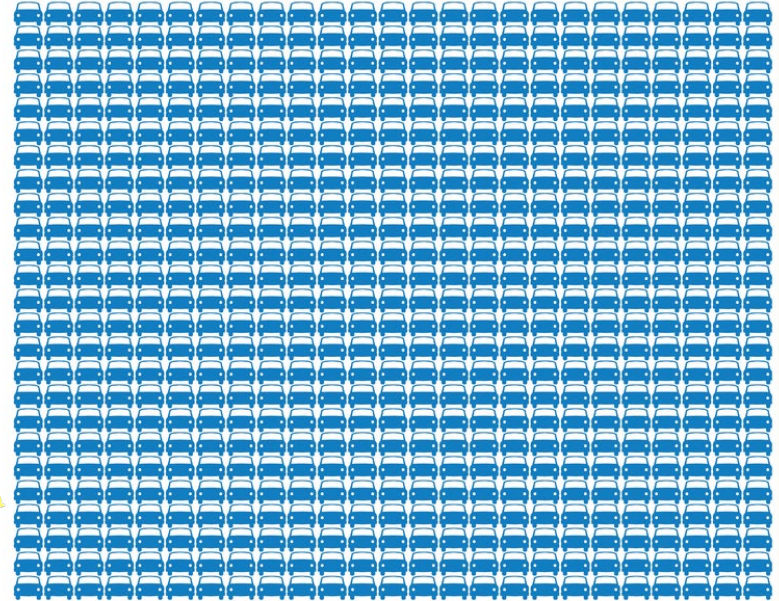
One Link train (4 cars)



15 Buses



625 Cars*



* Car option also requires over five acres of parking at both start and destination



Best Practices in Bridging the Gap

*Putting the Rider at the Center
of a Seamless Multi-Agency
System in All That We Do*



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Customer (not Agency) Centricity



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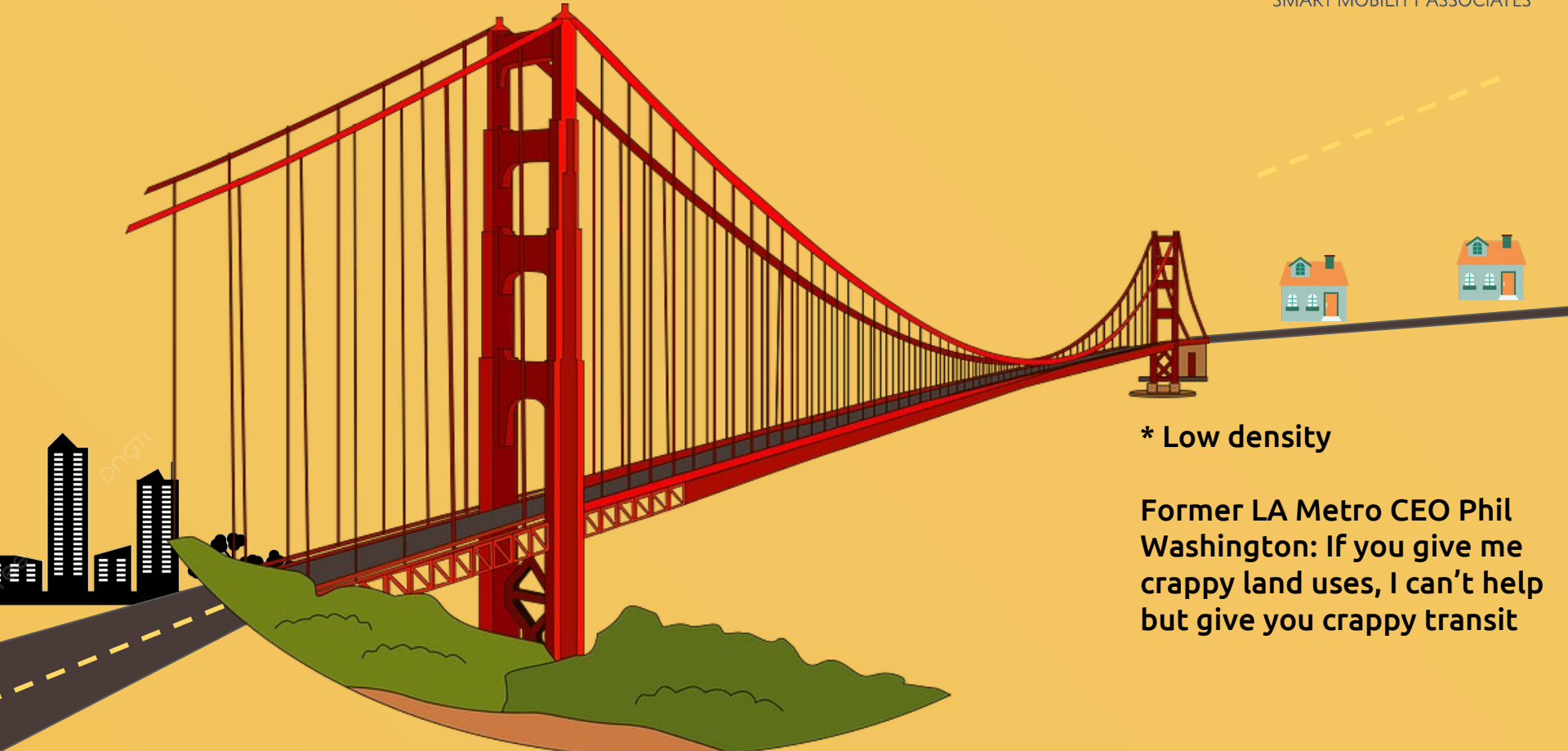
OR



??



Bridging the Gap



*** Low density**

Former LA Metro CEO Phil Washington: If you give me crappy land uses, I can't help but give you crappy transit

Bridging the Gap



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*** We already have
transit oriented
communities**

Bridging the Gap



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**MISSING HIGH QUALITY
MIDDLE MILE**
Lack of all day, frequent, 10-min
service leaves out choice riders



*** We already have
transit oriented
communities**

Bridging the Gap

Without a last mile provided by TOD / Density, bus service, safe bike lanes, walkable environments, or other mobility tools & investments, the bridge remains incomplete



Bridging the Gap



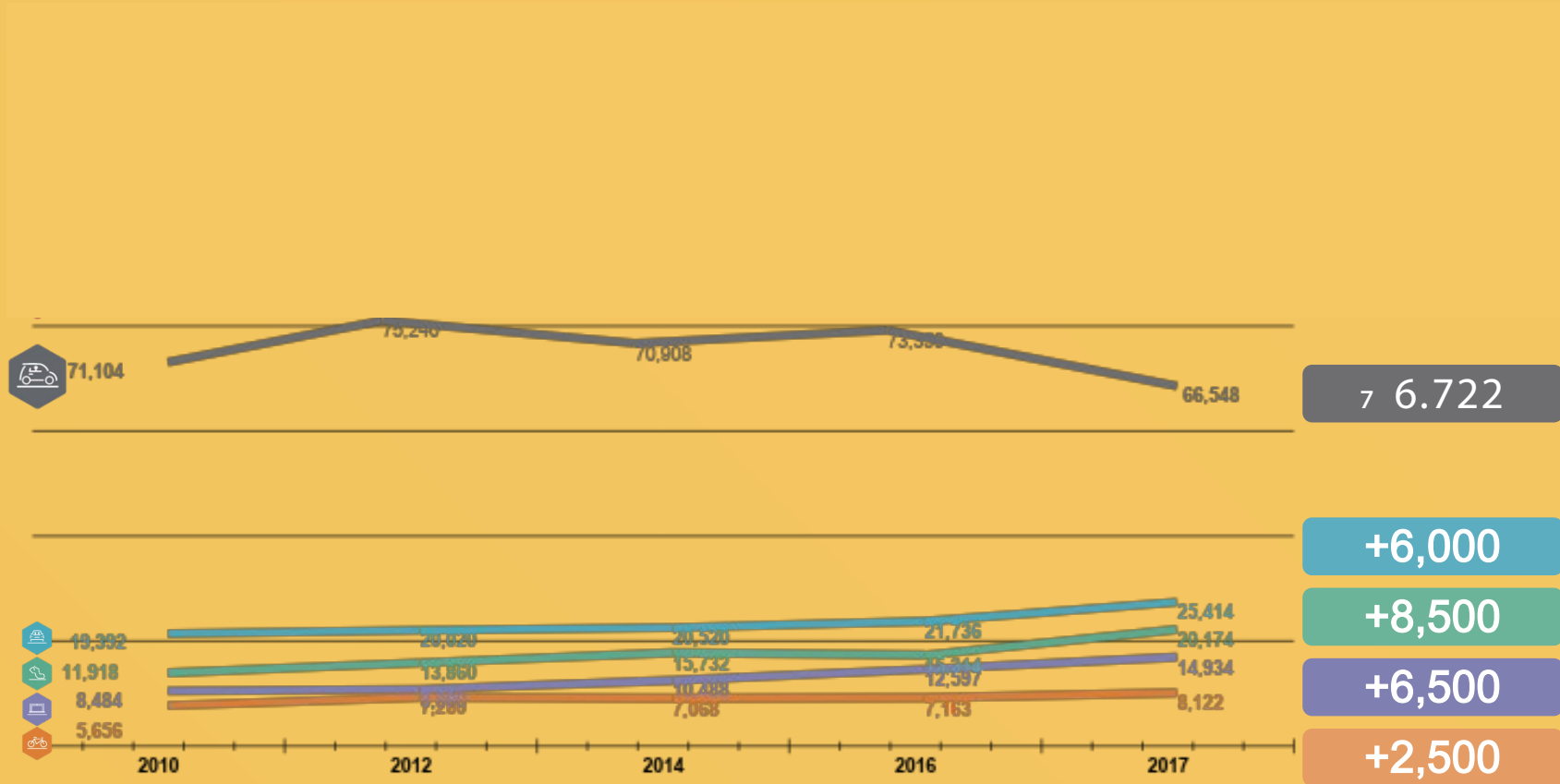
If we bridge the gap and put the customer at the center, with service that doesn't waste their time or cost too much, regardless of agency, will it help solve our problems?

Moving the Needle

Adding Jobs Without Adding Misery



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Key Behavioral Levers

Most Important Factors for Mode Shift

Cost

(Borne by the Rider)



1

Convenience

(Time)



2

Experience

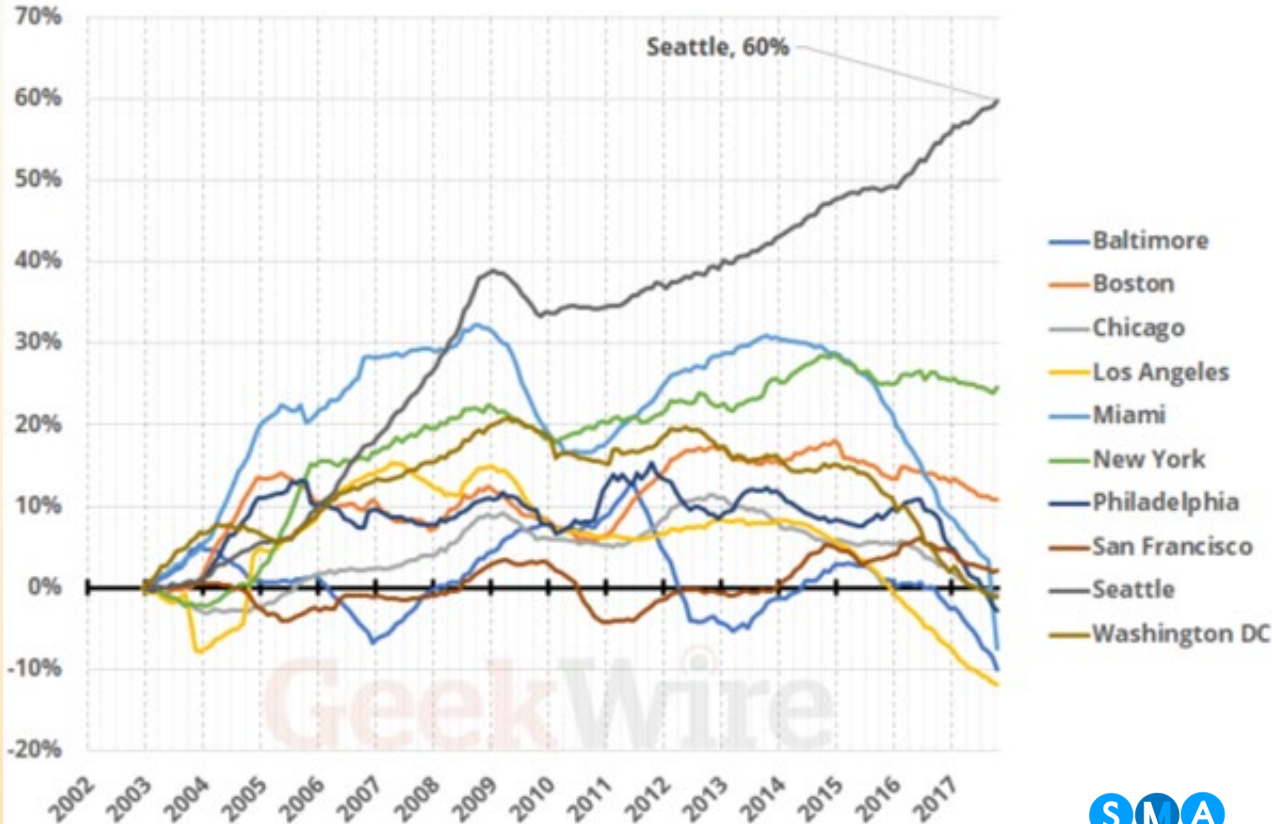
(Environment, Safety)



3

Change in Bus + Rail Ridership

Improvements that never stop. It's a competition to win.



- 3; ; 3  UW U-Pass
CTR (measurement)
- 1993  1993 Employer Pass
Reg. Transit Auth.
- 1999  1999 Regional Bus
- 2000  2000 Commuter Rail
- 2009  2009 Regional Pass
- 2009  2009 Light Rail
- 4232  4232 BRT Launches
- 2016  2016 Light Rail Station
- 4243  4243 Light Rail Expansion

data via Federal Transit Administration's National Transit Database - <https://www.transit.dot.gov/ntd>

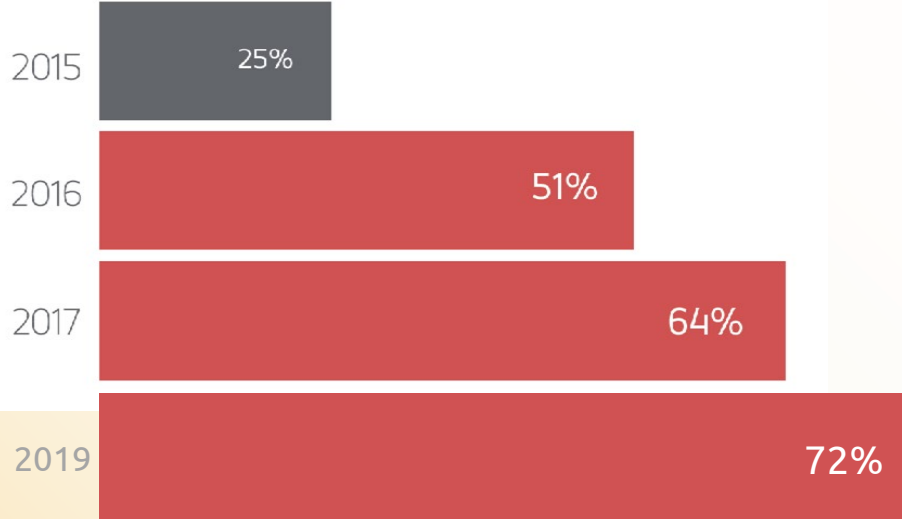


Shorten the Last Mile: Transit

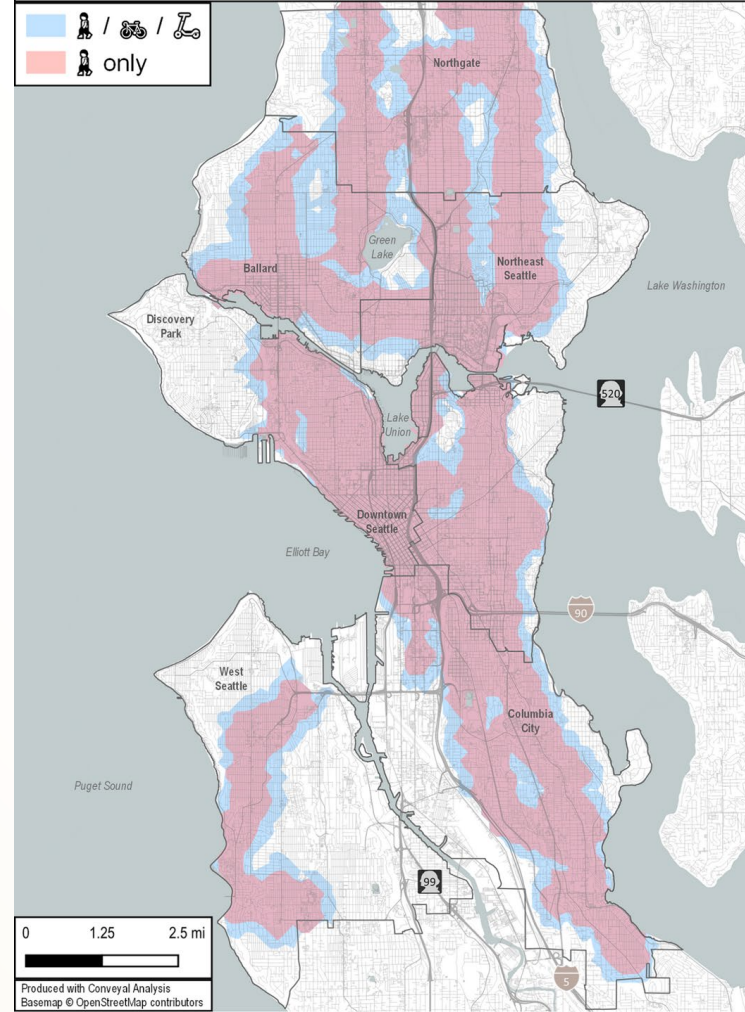
10-min bus service within a 10 minute walk



SEATTLE RESIDENTS
NEAR FREQUENT TRANSIT



Access to transit stops with frequent service

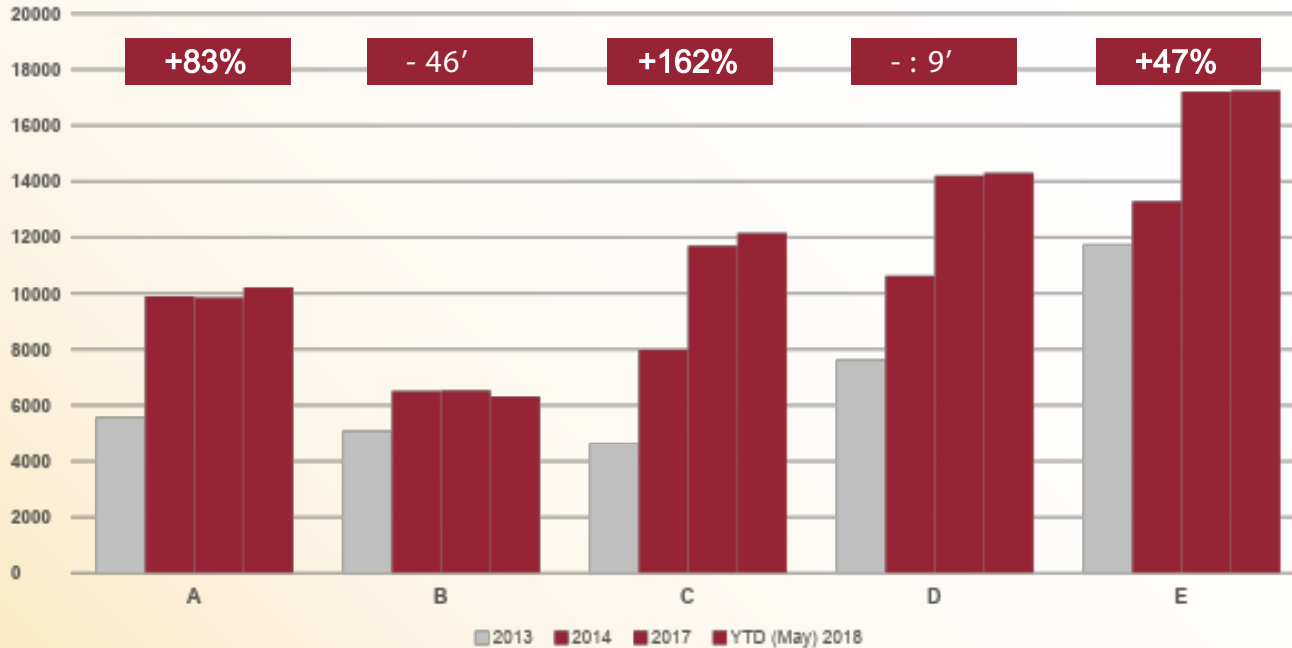


Premium Bus Service Has Impact

BRT-Lite mostly impacts frequency; insufficient on some routes

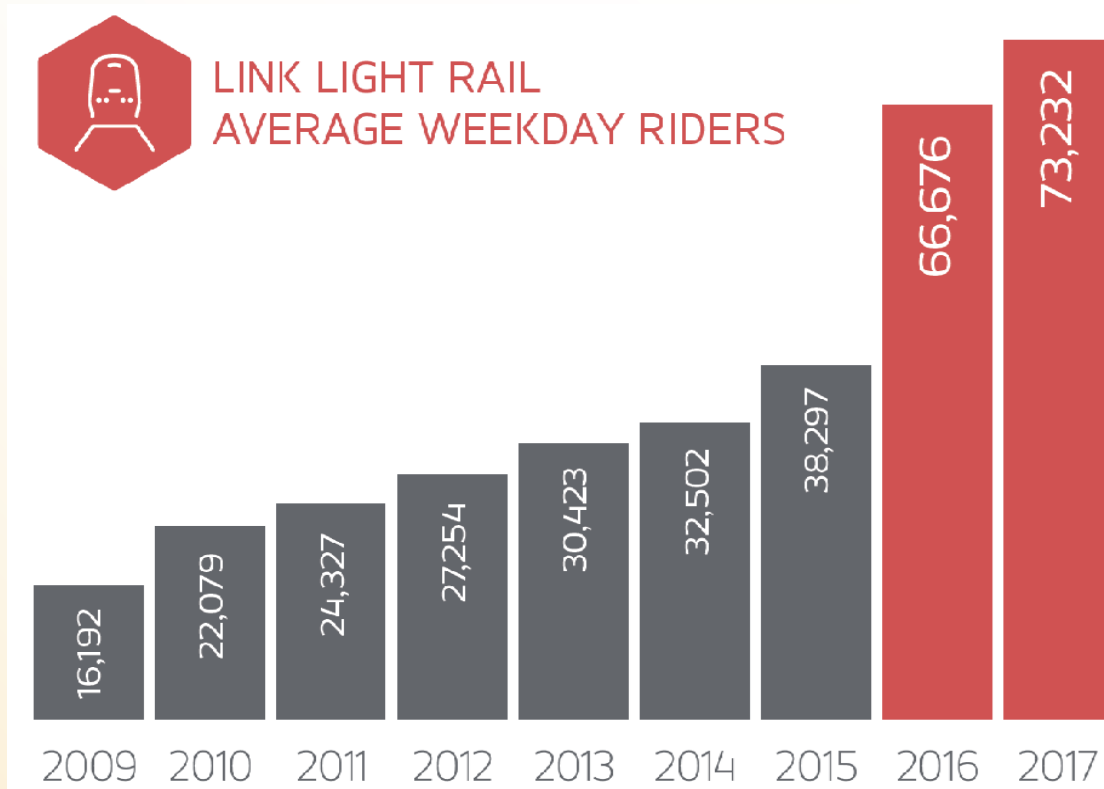
RapidRide (BRT) Launch Ridership Effects

RapidRide launched in 2014



2016 Transit Expansion Network Effects

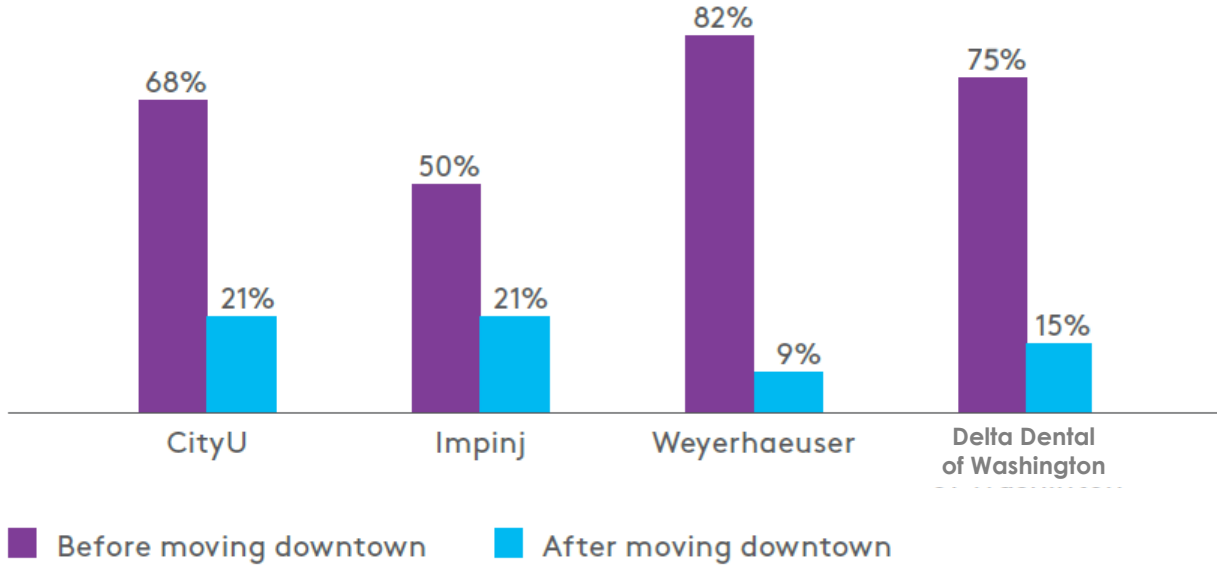
Full trains have become a typical experience



Employers Respond

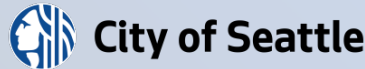
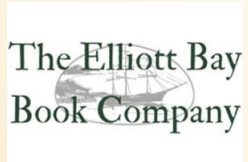
Enabling employers to choose density helps fix our geometry

Drive-alone Employee Rate Reductions



Remove barriers

Partnerships focused on a common goal: SOV mode share reduction

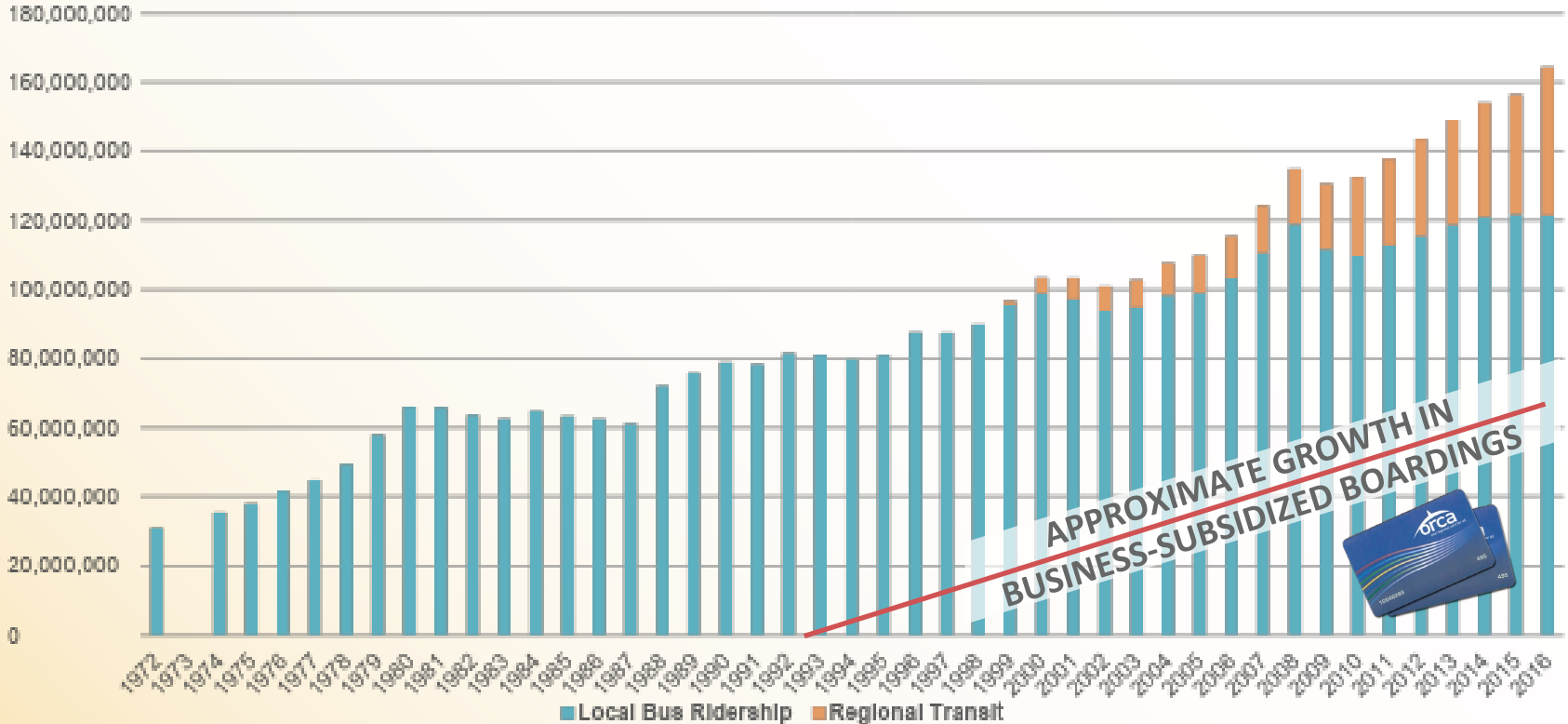


- "J wpf tgf u"O qtg.



Institutional Transit Passes = 60% of Fare \$\$

Equivalent to fare-free for rider, without budget impacts to agency



Tools to Move the Needle



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Daily Commuters Added 2010 to 2019

From 2010 to 2019, center city drive alone commutes increased by approximately 6,000 while all other modes grew by approximately 82,000 commutes.

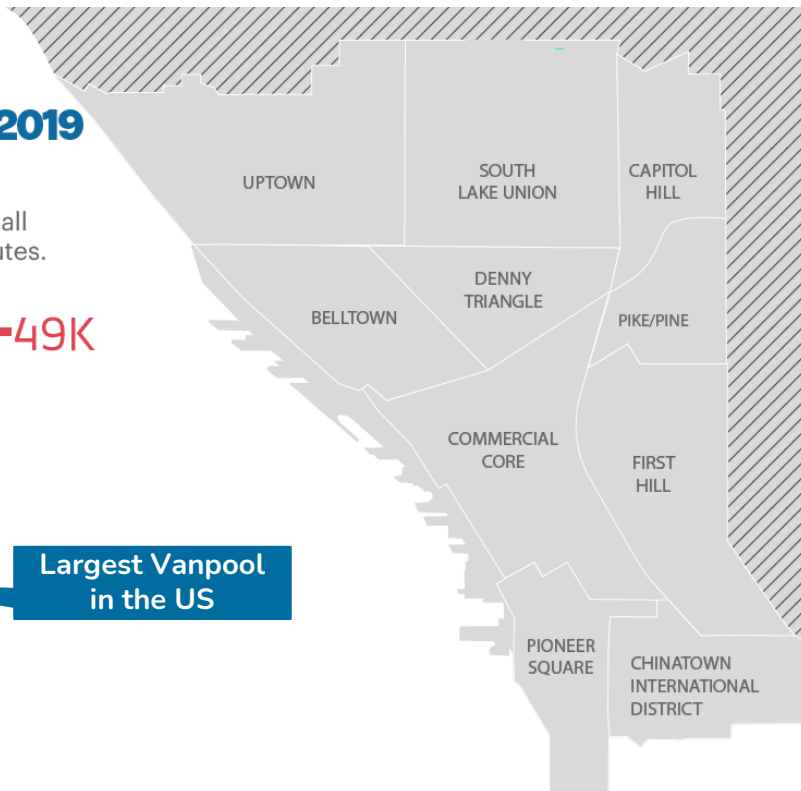
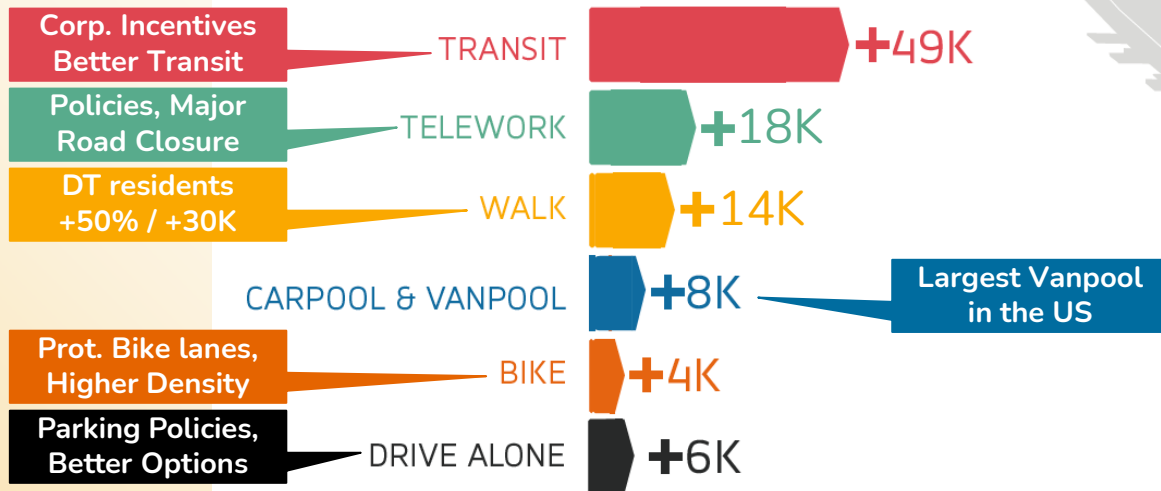


Illustration of survey area. Detailed map available in full report.

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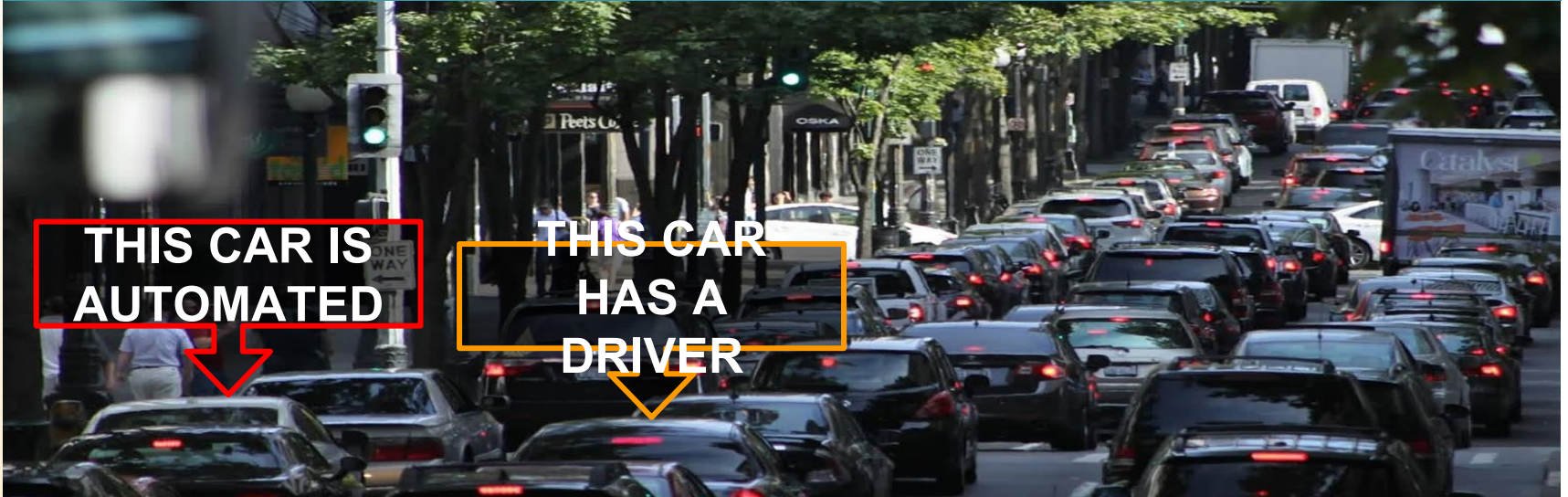
Founder, Smart Mobility Associates

Jonathan@SMA.LLC

OPPONENTS CLAIM

Autonomous cars will fix everything.

REALITY



BOTH ARE STUCK IN TRAFFIC.



VOTE YES ON SOUND TRANSIT PROP 1



The Seattle Times

2008:

“Most people don’t want to get out of their cars. As the world changes, they may buy cars that burn fuel from tar sands, canola, algae or wood chips.”

SEATTLE TIMES EDITORIAL BOARD
2008 Endorsement Opposing Link Light Rail to
Lynnwood, Federal Way & Bellevue

REALITY

2016:

- New residents choose transit over cars by **2:1 margin**
- Cars and trucks still contribute **nearly 50%** of our state’s greenhouse emissions



The Seattle Times

2008:

The ST2 light rail plan
“retards our economy”

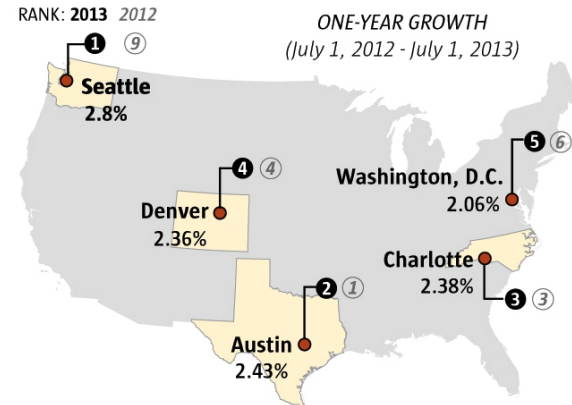
SEATTLE TIMES EDITORIAL BOARD
2008 Endorsement Opposing Link Light Rail to
Lynnwood, Federal Way & Bellevue

REALITY

2016:

Seattle tops list of fast-growing cities

Seattle had the fastest rate of growth among the 50 most-populous U.S. cities from 2012 to 2013.



Source: U.S. Census Bureau

KELLY SHEA / THE SEATTLE TIMES



The Seattle Times

2008:

The ST2 light rail plan
“retards our economy”

SEATTLE TIMES EDITORIAL BOARD
2008 Endorsement Opposing Link Light Rail to
Lynnwood, Federal Way & Bellevue

REALITY

2016:

“OUR ECONOMY” SUPPORTS PROP 1



UBER



amazon



PREMERA | 
BLUE CROSS



 **PEMCO**
Insurance



GEOENGINEERS 




GroupHealth.




chamber
of commerce



ECONOMIC DEVELOPMENT BOARD
FOR TACOMA-PIERCE COUNTY


OneRedmond

Economic Alliance
SNOHOMISH COUNTY 



 **BELLEVUE DOWNTOWN**
ASSOCIATION





Numbers of the Day

The Seattle Times

\$164

Annual Subscription Cost
Per Person



\$169

Annual New ST3 Cost
Per Person

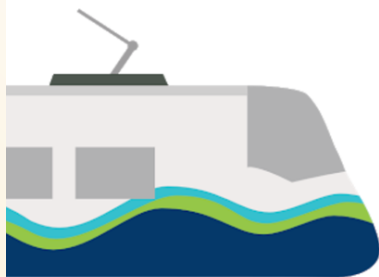
Only one will make your life any easier in the future.

Source: soundtransit3.org/overview. Need to save money? Call 1-800-542-0820 to cancel your subscription to the Seattle Times.

BALLARD

TO

S. LAKE UNION



11 MIN

VOTE YES ON SOUND
TRANSIT PROP 1





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