

FEB 4, 2021

# Emerging Mobility Patterns during COVID-19: the benefits of the 15-minute community

*Prepared for SCAG Community Economic and Human  
Development Committee & Transportation Committee*

Tiffany Chu  
CEO & Co-founder, Remix  
@tchu88 • @remix • tiffany@remix.com



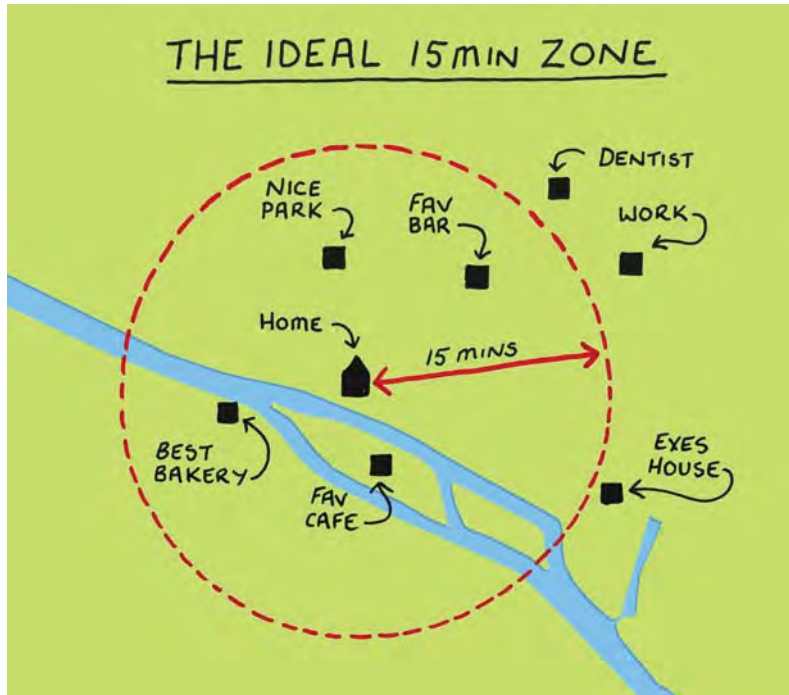
DEFINING THE CONCEPT

## What is a 15-minute community?

It's a strategy that focuses on meeting the needs of your community by giving residents access to everything they could need within a 15-minute radius of their home by foot, bike, or public transit.

It's an approach to neighborhood-level urban planning that aims to improve quality of life while prioritizing sustainability.





remix

<https://atmos.earth/coronavirus-europe-green-cities/>



MICHAËL



<https://www.planning.vic.gov.au/policy-and-strategy/planning-for-melbourne/plan-melbourne/20-minute-neighbourhoods>



# City of Brea Zoning Map



### Legend

#### ZONING

BHSP BIRCH HILLS SPECIFIC PLAN	C-RC RECREATIONAL COMMERCIAL	ORSP OLINDA RANCH SPECIFIC PLAN	R-1H SINGLE-FAMILY RESIDENTIAL-HILLSIDE
BISP BREIA INDUSTRIAL SPECIFIC PLAN	FP FLOOD PLAIN	PC-PLANNED COMMUNITY	R-2 MULTIPLE FAMILY
C-G MAJOR SHOPPING CENTER	M-1 LIGHT INDUSTRIAL	PARKS/RECREATION/OPEN SPACE-NATURAL OPEN SPACE	R-3 MULTIPLE FAMILY
C-G GENERAL COMMERCIAL	M-2 GENERAL INDUSTRIAL	PARKS/RECREATION/OPEN SPACE-PARKS/RECREATION	SGS SPECIAL GEOLOGICAL STUDIES
C-M INDUSTRIAL COMMERCIAL	M-P PLANNED INDUSTRIAL	PF PUBLIC FACILITIES	THSP TONNER HILLS SPECIFIC PLAN
C-N NEIGHBORHOOD COMMERCIAL	MIXED USE-I	HR HILLSIDE RESIDENTIAL	TPSP TOMLINSON PARK SPECIFIC PLAN
C-P ADMINISTRATIVE AND PROFESSIONAL OFFICE	MIXED USE-II	R-1 SINGLE-FAMILY RESIDENTIAL	
	MIXED USE-III	R-1 SINGLE-FAMILY RESIDENTIAL 5000	



#### Vertical Mixed-Use Development

- Combines different uses within the same building.
- Provides for more public uses on the lower floor (such as retail shops, restaurants, or commercial businesses).
- Provides for more private uses on the upper floors such as residential units, hotel rooms, or office space.



Source: Placemakers.com

#### Horizontal Mixed-Use Development

- Consists of single-use buildings within a mixed-use zoning district parcel, which allows for a range of land uses in a single development project.
- Provides for a variety of complementary and integrated uses that are walkable and within a given neighborhood, tract or land, or development project.



Source: Placemakers.com

#### Mixed-Use Walkable Areas

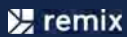
- Combines both vertical and horizontal mix of uses in an area, within an approximately 10-minute walking distance to core activities.



Architectural rendering, downtown Palm Springs (Allen + Philp Partners)

LOOKING BACK AT HISTORY

# Pandemics have always hit cities the hardest.



CHAPTER TWO

1800s

LONDON

Public water and sewers

## Cholera changes cities



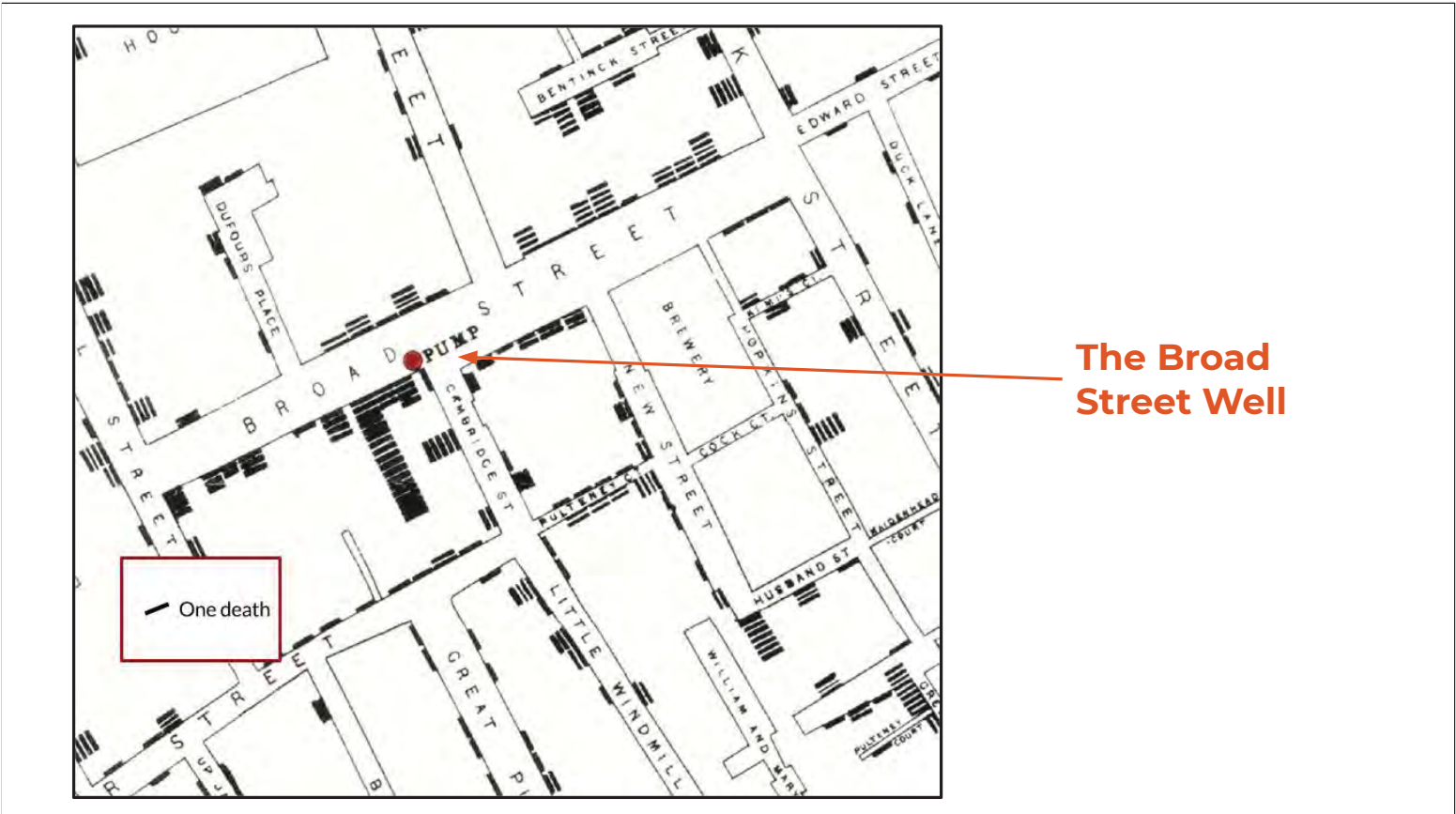
Edwin Chadwick

*People were willing to accept the next great lesson in ending pandemics only because of a disease that was among the most frightening they had ever experienced. When this scourge broke out in 1817 in the city of Jessore, now part of Bangladesh, its new virulence shocked people even there, though they knew its terrors from past outbreaks*



The bodies of cholera victims in less than a week. Crowds overwhelmed

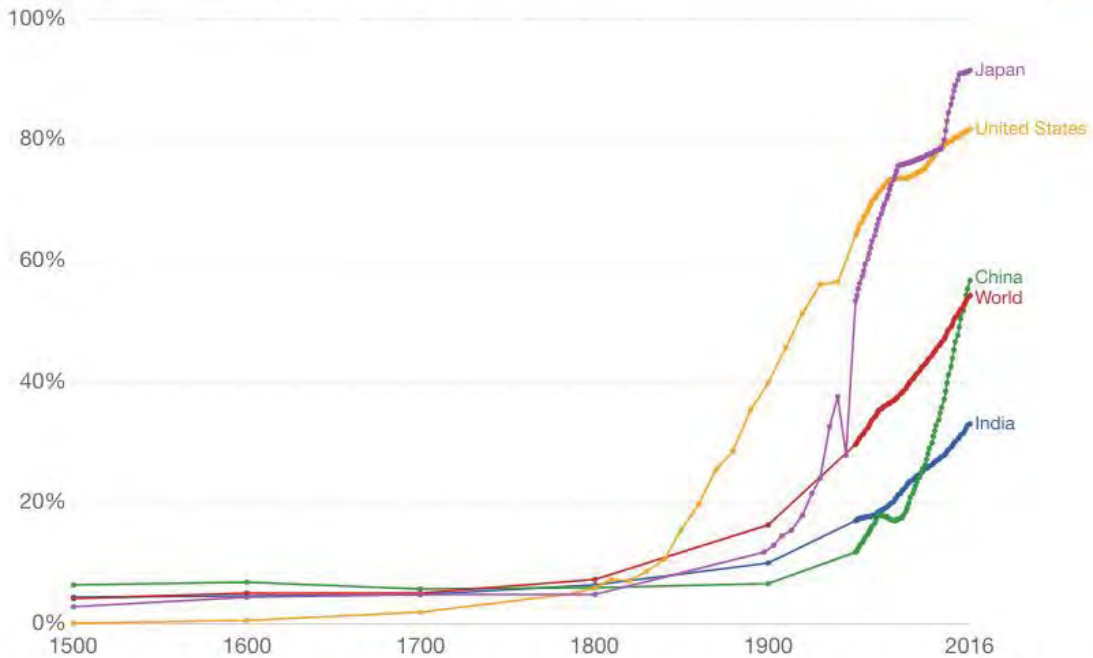




# Urbanization over the past 500 years

Share of the total population living in urban areas.

Our World  
in Data



Source: OWID based on UN World Urbanization Prospects 2018 and historical sources (see Sources) OurWorldInData.org/urbanization • CC BY  
Note: Urban areas are based on national definitions and may vary by country.

POLITICO POLITICOPRO Europe Edition

## The death of the city

Teleworking, not the coronavirus, is making urban living obsolete.

By AITOR HERNÁNDEZ-MORALES, KALINA OROSHAKOFF AND JACOPO BARIGAZZI | 7/27/20, 4:02 AM CET | Updated 8/3/20, 12:28 PM CET

PERSONAL TOWNHALL

### Is COVID-19 the End of Cities?

OCTOBER 2019

### America's Biggest Cities Were Already Losing Their Allure. What Happens Next?

The urge among some residents to leave because of the coronavirus may be temporary. But it follows a deeper, more powerful demographic trend.

By Sabrina Tavernise and Sarah Mervosh

Forbes

## Will COVID-19 Kill Cities?

Roger Valdez Contributor  
Policy

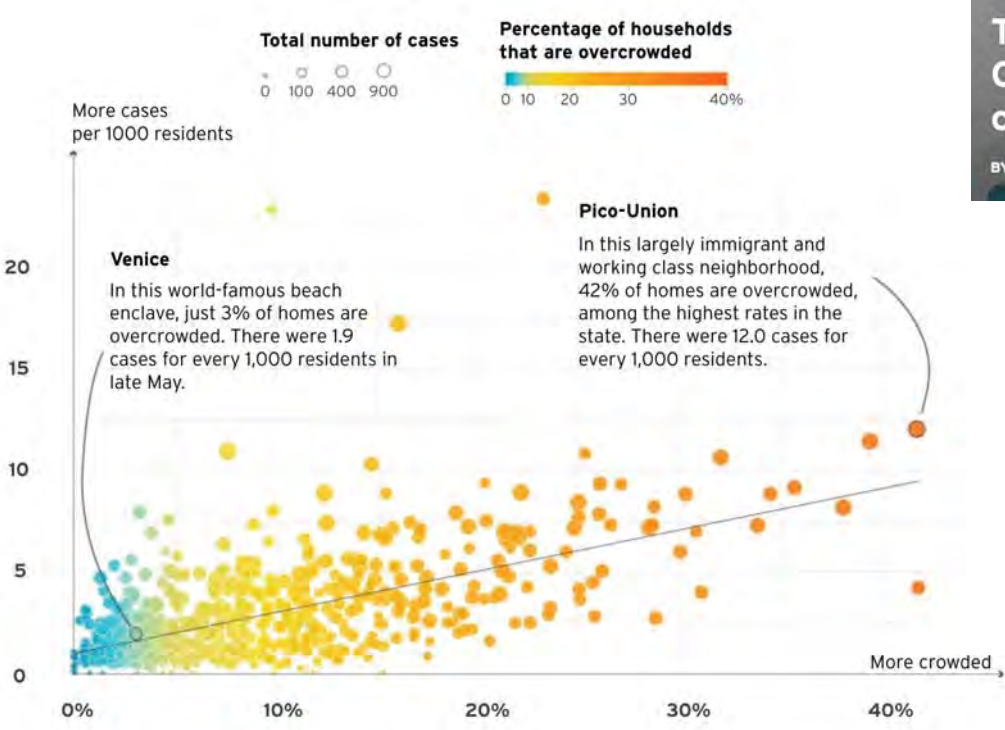
HOME > SCIENCE

## The coronavirus pandemic spells the end for big cities — again

Aria Bendix  
May 8, 2020, 8:44 AM

f M





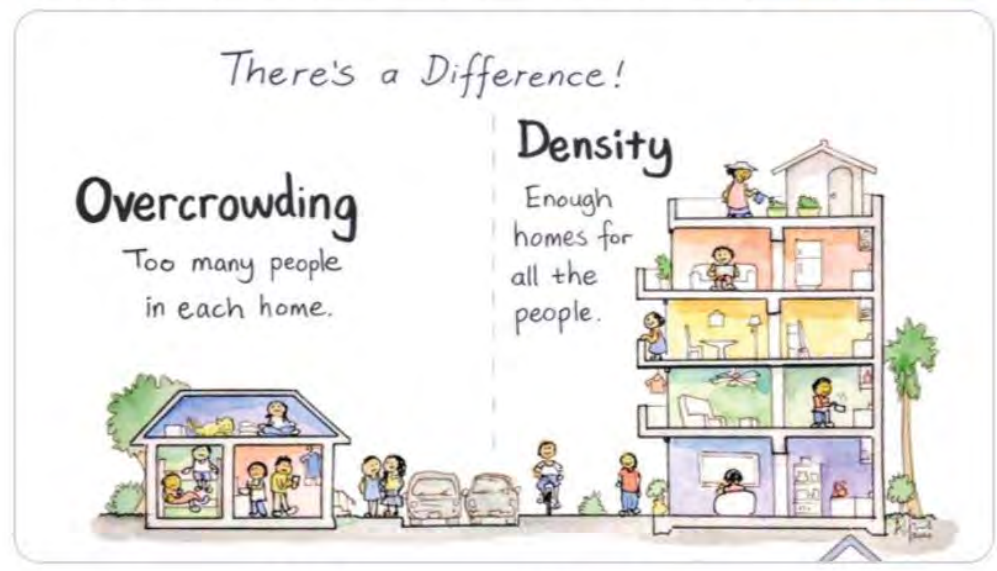
Source: 5-year ACS 2014-2018 and California counties' public health departments.  
 Credit: Jackie Botts/Lo Bénichou, CalMatters

**The neighborhoods where COVID collides with overcrowded homes**  
 BY JACKIE BOTTS AND LO BÉNICHOU JUNE 12, 2020

**The pattern was startlingly consistent across the counties, whether urban or rural, coastal or inland, northern or southern.**



**East Bay Leadership Council @EBLConline · 16h**  
 An artistic reminder that more density = less overcrowding. #HousingForAll

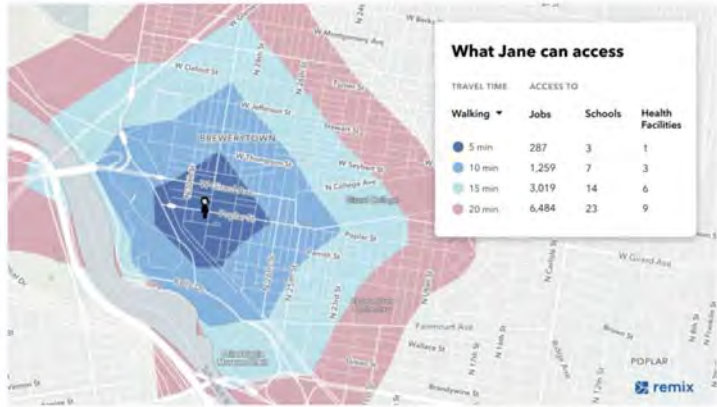


10 28



# Covid-19 Is Not The 'Death Of The City' - It's The Rise Of The Neighborhood Center

Transportation systems are often designed for peak commuters going downtown, which has plummeted since the pandemic. To not only recover but emerge improved, cities must invest in a travel pattern long neglected: the neighborhood trip.



An isochrone analysis of what's accessible within a 5, 10, 15, and 20-minute walk from Philadelphia's Brewertown neighborhood. [-] REMIX



Diana Budds  
@DianaBudds

a look at the typologies of COVID-19 improvisational architecture. first off: color blocking!



6:07 PM · Jul 7, 2020 · Twitter for iPhone

1K Retweets 199 Quote Tweets 6K Likes

Diana Budds @DianaBudds · Jul 7  
Replying to @DianaBudds  
next up: trellises



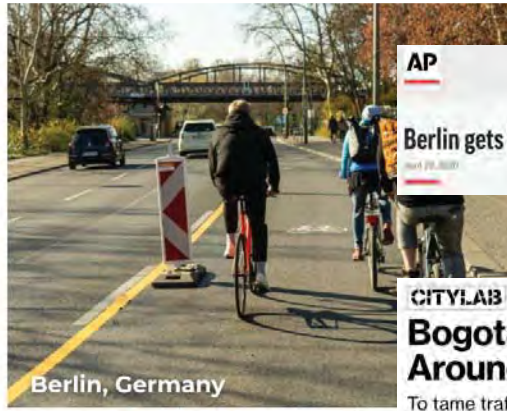
## FRENCHMEN ST: DAILY PEDESTRIAN MALL (7PM TO 4AM)







Bogota, Colombia



Berlin, Germany

AP

Berlin gets 'pop-up' bike lanes to boost cycling in pandemic

AP

CITYLAB

Bogotá Is Building its Future Around Bikes

To tame traffic after pandemic lockdowns, the Colombian capital has embarked on a bike-lane building spree that could be a model in Latin America.



Porto Alegre, Brazil



Indianapolis, Indiana

World cities turn their streets over to walkers and cyclists

From Berlin to Bogotá there are new footpaths and bike lanes - but not in London

Coronavirus - latest updates

**Bloomberg Businessweek**

The Climate Mission: Are We Ready for a Biden Administration?

### The 15-Minute City —No Cars Required—Is Urban Planning's New Utopia

From Paris to Portland, cities are attempting to give residents everything they need within a few minutes of their front doors. Can it work—without leaving anyone out?

By Feargus O'Sullivan and Laura Bliss  
From **New Economy**

Fifteen Minutes in Three Cities

Within 15 minutes of the + symbol

- On foot
- By public transit

Paris

Place de la Bastille



Detroit

Livernois-McNichols



- K-12 school
- Preschool or child-care center
- Grocery

1 km

1 mi

Portland

Alberta Arts District





The newly-launched **C40 Mayors Agenda for a Green and Just Recovery** outlines bold steps to deliver an equitable and sustainable recovery from the COVID-19 pandemic. Led by C40 mayors around the globe, the specific measures outlined in this agenda focus on creating green jobs, investing in crucial public services, protecting mass transit, supporting essential workers, and giving public spaces back to people and nature.

The Agenda was released by the C40 Global Mayors COVID-19 Recovery Task Force, established at the direction of C40 Chair and Mayor of Los Angeles, Eric Garcetti, and chaired by Mayor of Milan Giuseppe Sala. The Task Force is guided by a **Statement of Principles**, already endorsed by more than 40 city leaders from around the world.

**C40 mayors have collectively identified key actions that are critical to achieving a vision for a green and just recovery – and a future that works for everyone.**

C40 mayors will lead in taking action for **jobs and an inclusive economy** by:

- Creating new, good green jobs, fast
- Supporting and lifting up essential workers
- Training and upskilling workers to enable a just transition to an inclusive economy.

C40 mayors will continue to take the lead in acting for **resilience and equity**, providing fundamental public services for all, that underpin a fair society and strong economy, and that are resilient to future shocks by:

- Delivering a safe and resilient post-COVID mass transit system
- Providing fundamental public services for all such as clean water, food, sanitation and affordable, healthy housing

C40 mayors will lead in taking action for **health and well-being** – giving public space back to people and nature, reclaiming our streets and guaranteeing clean air to ensure liveable, local communities by:

- Creating '15 minute cities' where all residents of the city are able to meet most of their needs within a short walk or bicycle ride from their homes
- Giving streets back to people, by permanently reallocating more road space to walking and cycling, investing in city-wide walking and cycling networks and green infrastructure
- Building with nature to prioritise 'nature based solutions' such as parks, green roofs, green walls, blue infrastructure and permeable pavements, to help reduce the risks of extreme heat, drought, and flooding, and improve liveability and physical and mental health

CONTEXT

# So what does this mean for Southern California?

SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS



ADOPTED ON SEPTEMBER 23, 2020

World Health Organization

Home / Newsroom / Feature stories / Detail / Urban planning crucial for better public health in cities

Urban planning crucial for better public health in cities

New WHO and UN-HABITAT sourcebook guides health and planning practitioners on putting health at the heart of urban and territorial planning

21 May 2020

As the COVID-19 pandemic continues to highlight the importance of safe distancing in cities, a new sourcebook



# PROJECTED REGIONAL GROWTH



HOUSEHOLDS

2016

6M

+1.6M

2045

7.6M



POPULATION

18.8M

+3.7M

22.5M



EMPLOYMENT

8.4M

+1.6M

10M



# CHALLENGES IN THE REGION



100 HRS/YR

Time Average Motorist Spends Stuck in Traffic



\$16.7B

Annual Cost of Treating Chronic Disease

heart disease, strokes, chronic lower respiratory disease & diabetes



~15%

of Bridges on NHS are in Poor Condition



1,500

Traffic Fatalities Annually



21%

Farm Land Lost since 1984



Climate Change

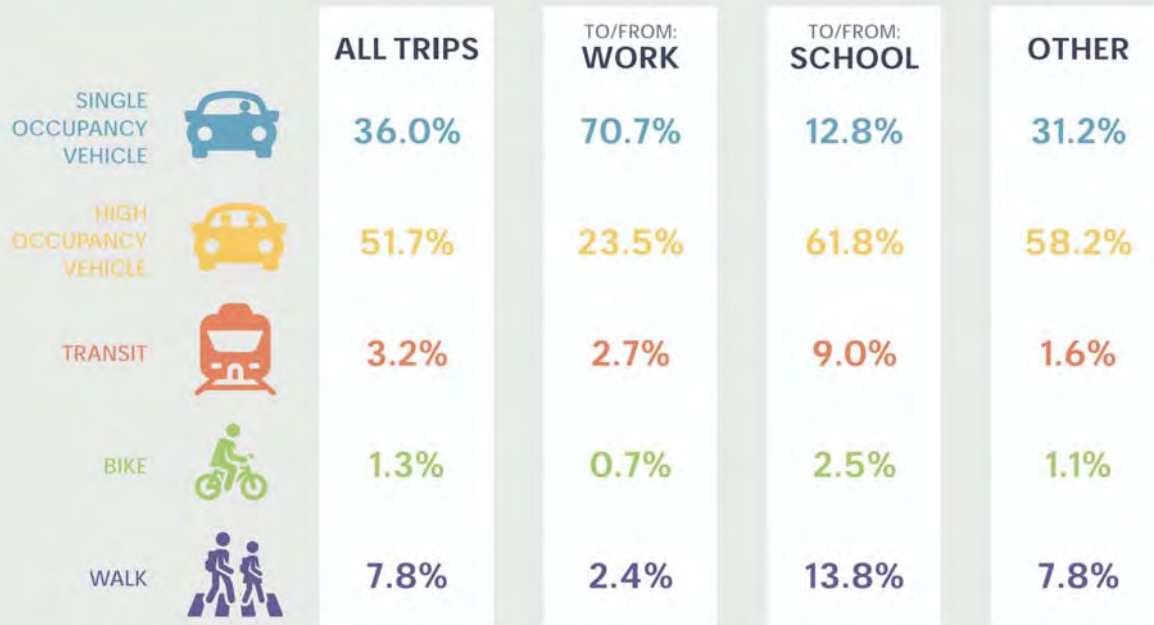
could adversely impact traditionally underserved communities

77%

of Residents in Flood Hazard Zones are Minority



## HOW WE TRAVEL TODAY (2016)



Source: SCAG Activity Based Model

### IN SUMMARY

## The benefits of a 15-minute community strategy?

# 1

### Health benefits.

Healthier residents, improved environmental air quality, less incidents of respiratory and cardiovascular problems

# 2

### Financial benefits.

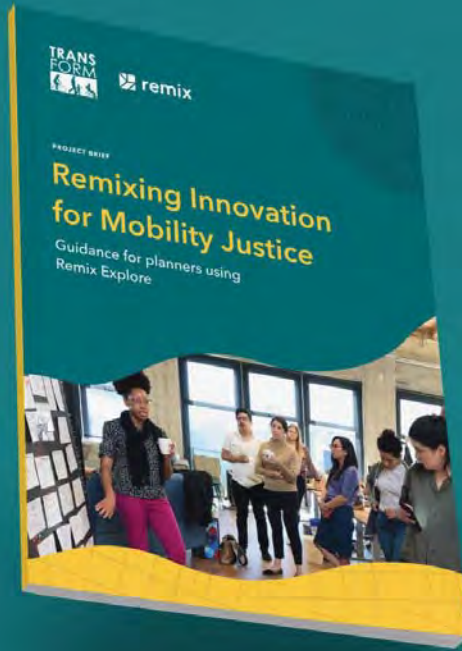
Supporting local businesses, increasing economic development within neighborhoods, reducing the cost of car ownership and car dependence for residents

# 3

### Community benefits.

Increased pedestrian safety, decreased isolation, and promotion of community cohesion.





<https://www.remix.com/resources-library/remixing-innovation-for-mobility-justice-guidance-for-planners-using-remix-explore>

*"The better news is that as we transform how we generate energy, how we move ourselves around, how we grow our food and how we live in cities, we have a historic opportunity to build a society that is fairer on every front."*

**- Naomi Klein**

**Thank you.**

Tiffany Chu  
CEO & Co-founder, Remix  
@tchu88 • @remix • tiffany@remix.com

