
RAIL~VOLUTION 2020

Equity Meets Change:

Transportation Technologies, the
Pandemic, and the Future of Equitable
Mobility

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WHERE ARE WE



COVID-19 is especially impacting vulnerable communities

8M Cases in the US

(CDC, 10.19.20)

218K Deaths in the US

(CDC, 10.19.20)

5.2% Shrink in Global Economy

(World Bank)

Racial and ethnic minorities experience

disproportionate illness and death

(CDC)

Women are more vulnerable
due to existing gender inequalities

(McKinsey)



Technology is already transforming how we connect and travel

136M Shared Micromobility

Trips in US
(NACTO, 2019)

1-1.5 mile Average Trip

Length
(NACTO, 2019)

4.6B Networked Devices in US by
2022
(Cisco)

91% of Vehicles Sold in US in
2020 will be Connected
(Automotive World)

50% of Large US Cities Planning
for Autonomous Vehicles
(National League of Cities)

Our systems have not been designed to meet women's needs

WOMEN'S NEEDS



Mode Choice



Safety



Mobility of Care



Trip Chaining





Transportation infrastructure can connect communities, but can also divide

Example: Displacement of tens of thousands of people in the 50s and 60s in East Los Angeles to build the 710 freeway

**WHAT COULD
HAPPEN NEXT?**



BUSINESS AS USUAL

Inequity exacerbated

Driving alone increases for those who can

Transportation funding decreased

Environment at the expense of the economy / The economy at the expense of the environment

Digital divide

A MORE EQUITABLE TOMORROW

Equity and access central to decision-making

Data and new technologies integrated to enhance access and sustainability

Improvements accelerated, made permanent

More places for people

Bridging the digital divide

**GETTING TO
A MORE EQUITABLE
TOMORROW**



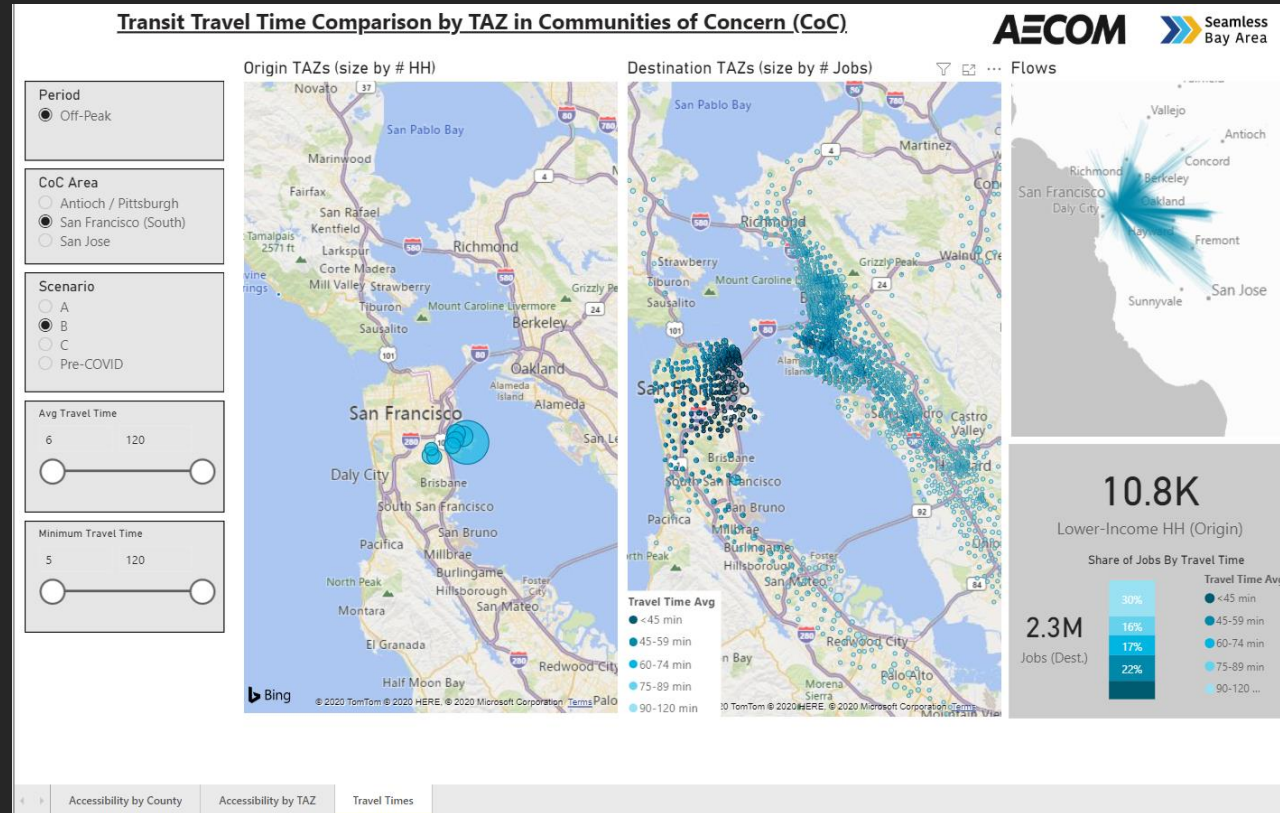
Disaggregating Analysis to Focus on Equity

Bay Area Transit Recovery Vision

You get what you measure, what you don't measure is lost

Averages hide inequities

We need to disaggregate data in order to focus on communities of concern



Flexible + Adaptable Infrastructure to Connect Communities

Transport for London

In London, AECOM has been commissioned to engineer temporary cycle lanes for Transport for London (TfL) and we're providing similar services to other cities in the UK

These projects support the flexible and dynamic use of infrastructure to enable social distancing, use of active transportation and reduce pressure on public transit systems.

Focus Technology to Expand Access

InnovateUK + Centre for Connected & Autonomous Vehicles, London

In the U.K., an AECOM-led consortium is piloting the use of connected and autonomous vehicles to move people around airports, hospitals, business parks, shopping and tourist centers

The pilot project includes the design, development and testing of new autonomous and connected pods on-demand (PODs)

Technologies like these could free women from caring trips, provide more service in off-peak hours, support point to point trips

Representation matters as we change the face of our industry

The Valley Metro South Central Light Rail Extension will bring new opportunities and connections to South Phoenix residents – and new jobs for local residents, opportunities for disadvantaged small businesses, and unique programs to engage our future generations

The project includes mentorship, internship and training programs to help develop the next generation of our industry's leaders

Changing the Future of Our Industry

Valley Metro, South Central LRT Jobs & Workforce Development

GETTING TO A MORE EQUITABLE TOMORROW

YOU GET WHAT YOU MEASURE

CONNECT, NOT DIVIDE

**TECHNOLOGY AS A TOOL FOR
EQUITY**


REPRESENTATION MATTERS



Thank you.

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