



ITE Hawaii Section Meeting October 2020

## Randy McCourt ITE President









Chair: Randy McCourt, ITE President

Task Force:
Alison Felix, Boston Metro Planning Council
Jonathan Kiser, Neel-Schaffer
Karyn Robles, Village of Schaumburg, IL
Mike Spack, Spack Solutions
Ted Trepanier, Inrix
Joe Bartus, Macomb County/HNTB
Kevin Hopper, ITE
Matthew Skelly, Fuss & O'Neill

Ruben Gallegos, National Data & Surveying Wayne Kittelson, Kittelson and Associates



- Ethics
- Big Data and Why
- Policies
- When Will Normal Return?
- Forecasting
- Trip Generation





# Cannon of Ethics for Members

#### Section 6

- AdequateKnowledge
- HonestConviction



## Guidance - Traffic Count and Speed Data, Collection and Analysis During Pandemic - June 2020

- When to use historic peak hour count data.
- How to apply an adjustment factor.
- How to obtain current traffic counts from the State and City.
- How to apply a background growth rate for traffic studies.



Briefing on Temporary Policy for Traffic Counts

Collection and Transportation Impact Study Submission

During COVID-19 Pandemic – May 2020

- Established a policy to suspend traffic count data collection in the County until further notice.

  At the same time, the Department does not want to inhibit development applications from proceeding.
- Recommend a combination of a Growth Factor Approach and a Traditional Counts After Specified Time Approach.
- Will investigate opportunities to utilize innovative approaches such as "Big Data" to estimate traffic counts.

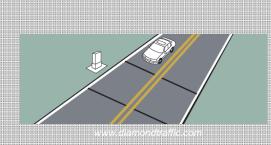


#### **Private Sector**

**Options to obtain historic counts** 



 Review transportation studies (e.g., Long-Range Transportation Plans, Corridor Plans, and Transportation Impact Studies).



 Collaborate with consultants, traffic data collection companies, and public agencies.



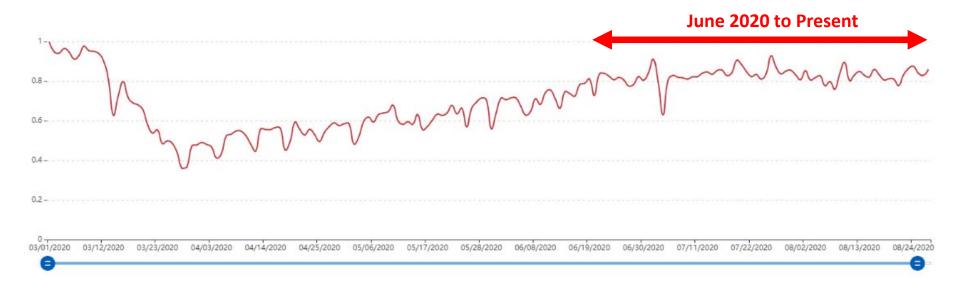


Active Traffic
 Management/Traffic
 Operation Center Data Sets

skyscrapercity.com

 Identify data collection methods (e.g., road tubes, manual counters, video cameras, and drones).  Couple big data/probe data (e.g., Streetlight, INRIX, ClearGuide) with traditional traffic volume sources or apply independently.

#### The Plateau



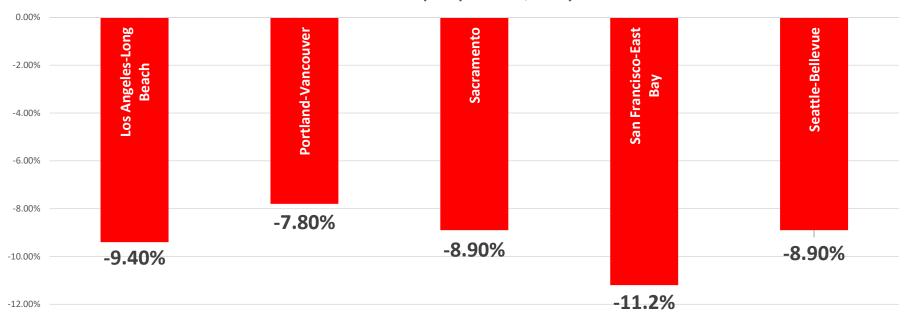
Seasonally adjusted trips to a Jan/Feb 2020 reference Portland, Oregon



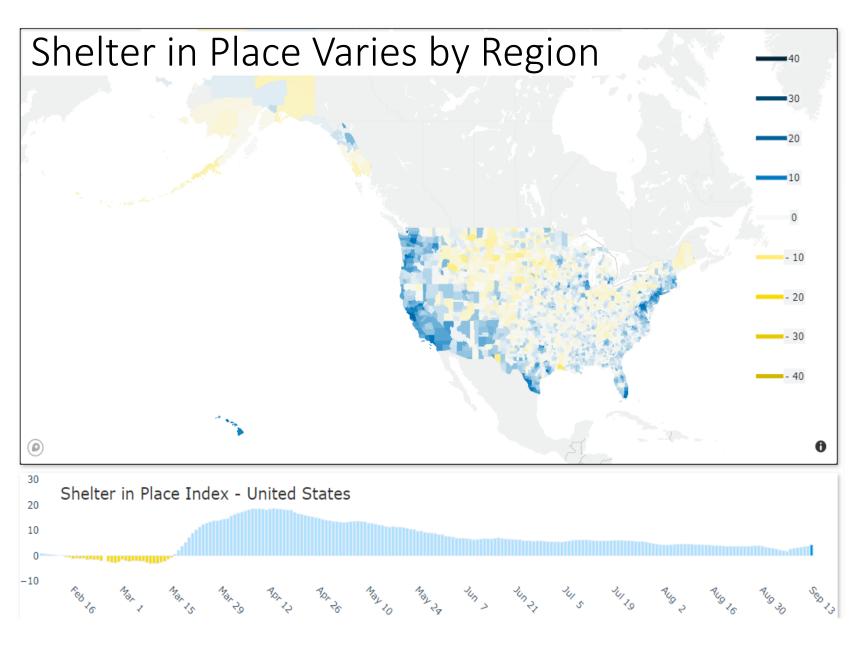


## Employment is down

US Bureau of Labor Statistics
Non-Farm Employment, July 2020







#### **BLUE**

More shelter in place

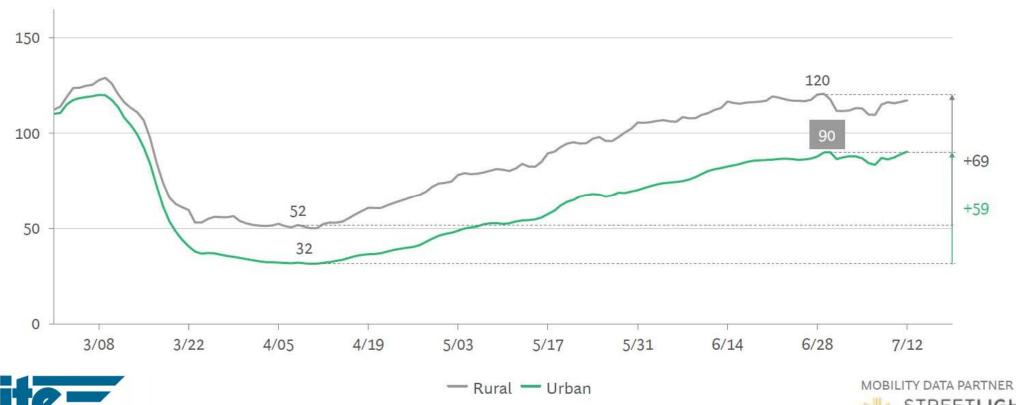
#### **YELLOW**

Less shelter in place

Early February Baseline

#### Urban v. Rural

VMT Indexed to January 2020 (%)







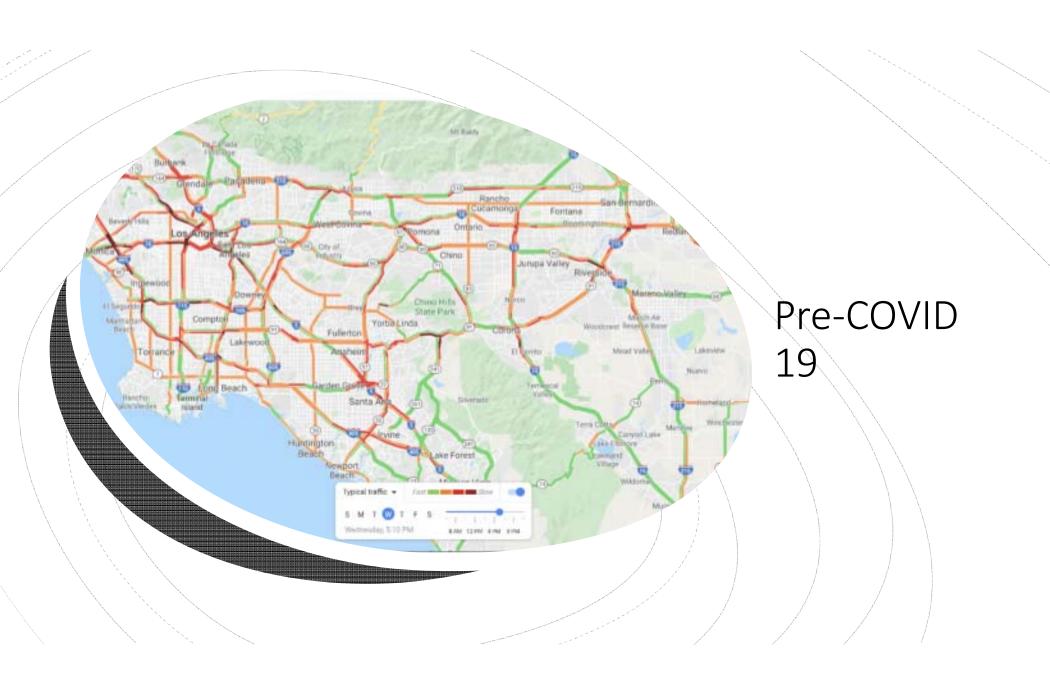
### The Recovery Varies by Region

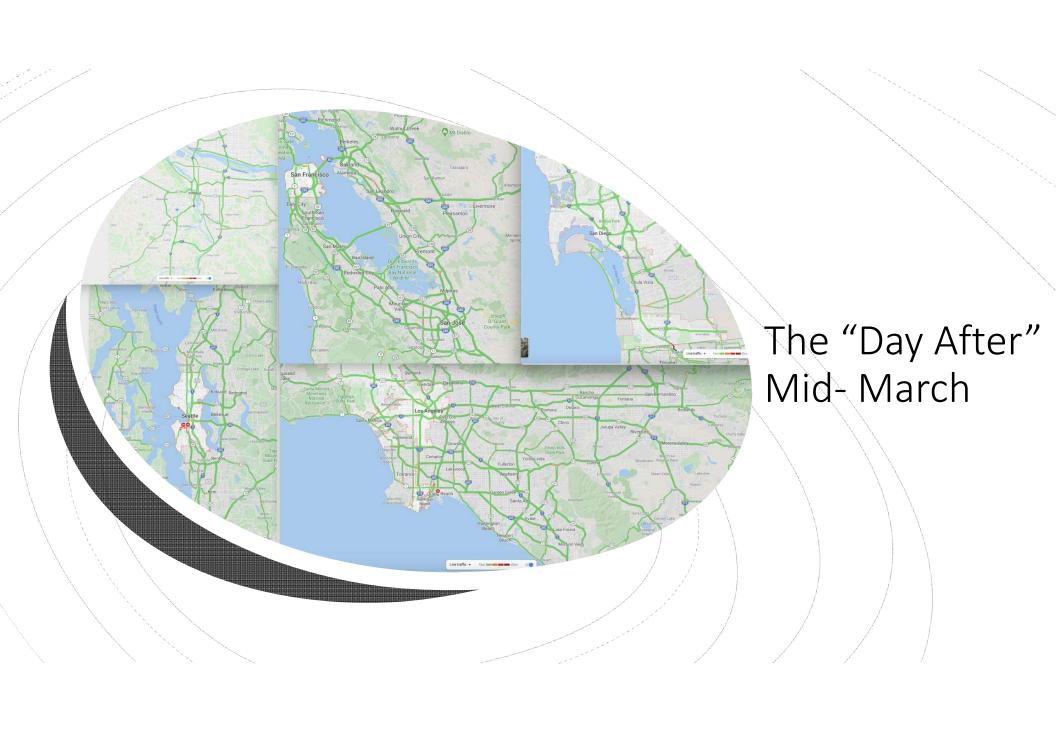


VMT comparison by west coast metro region Comparison to a seasonally adjusted Jan/Feb 2020 reference



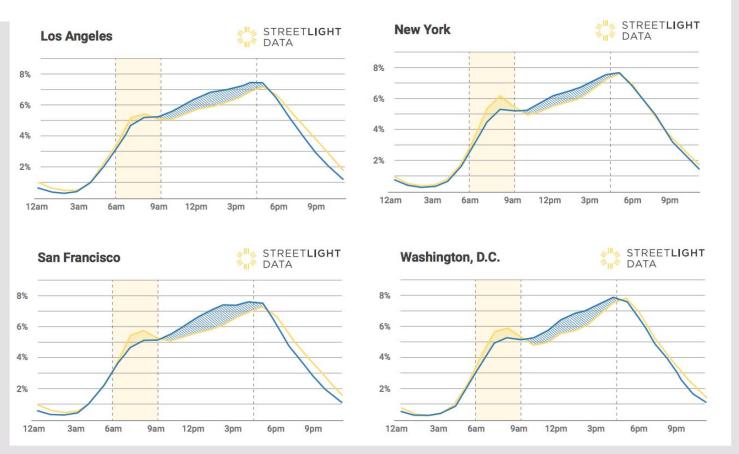






#### Peak patterns have changed in U.S. metro areas

#### DISTRIBUTION OF DAILY VMT BY TIME OF DAY

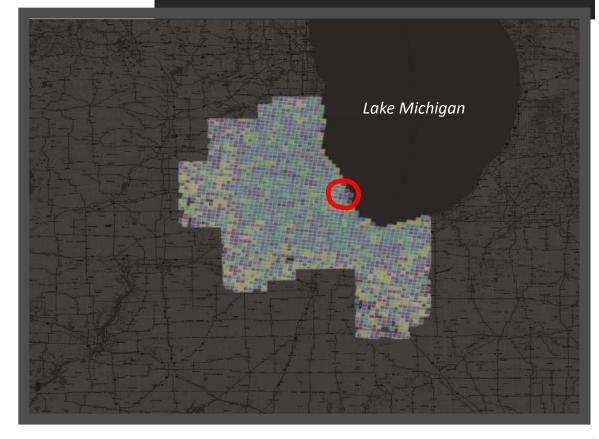




# Changes in *where* trips are occurring

- Light yellow zones indicate heavier
   VMT vs last year
- Dark purple zones indicate lighter
   VMT vs last year

## CHANGE IN TRIP STARTS FROM JUN'19 TO JUN'20 CHICAGO MSA

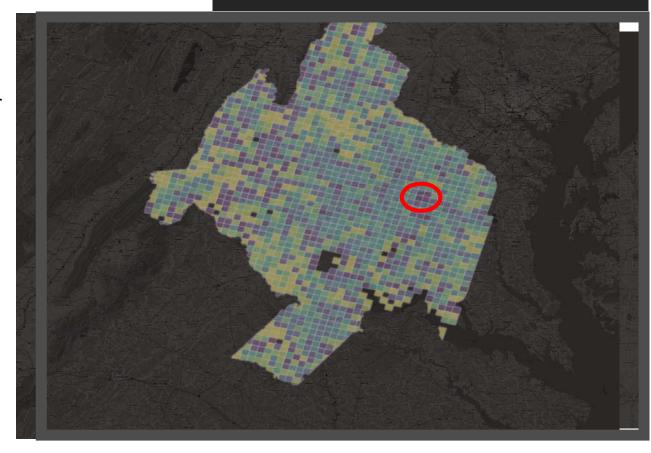




# Similar dynamic in Washington D.C.

- Light yellow zones indicate heavier
   VMT vs last year
- Dark purple zones indicate lighter
   VMT vs last year

## **CHANGE IN TRIP STARTS FROM JUN'19 TO JUN'20** WASHINGTON D.C.





### Bicycle Share Impacts

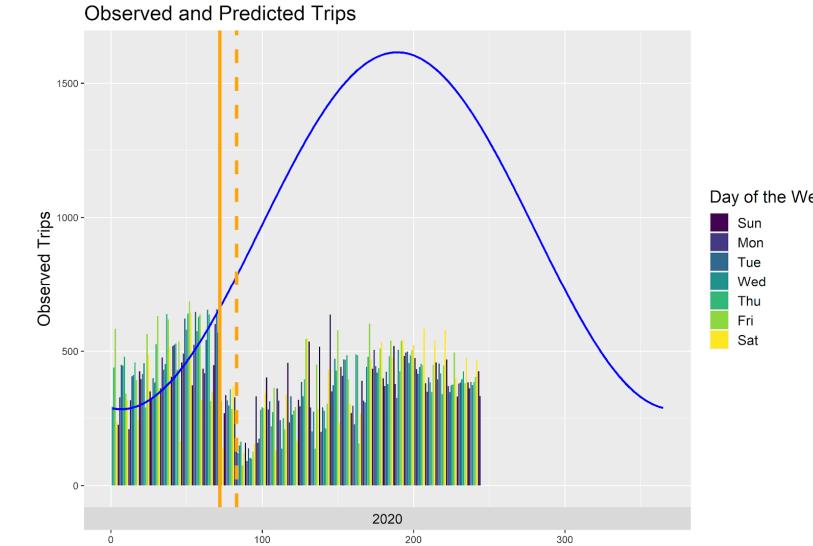
Figure 1: Percent Change in Docked Bikeshare Trips, March through May Change from same days of week in 2019



NOTE: Data for Nice Ride Minnesota includes only May as system began operations in mid-April in 2019 and 2020.



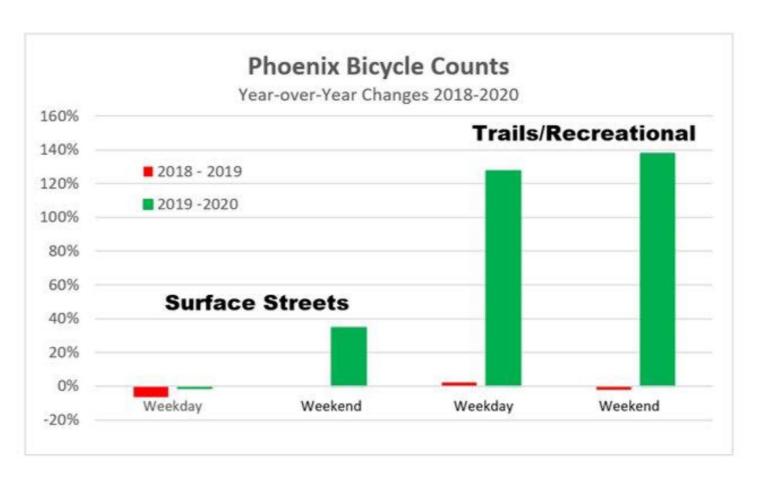
Biketown w/ e-Bike



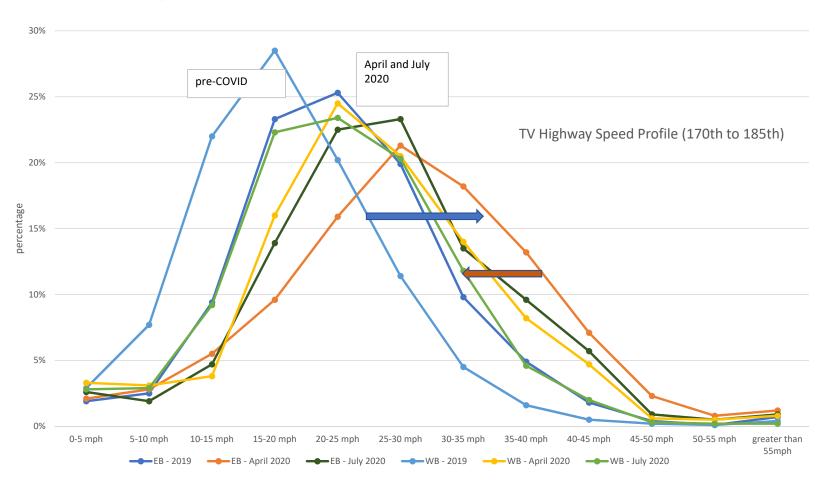
https://trec.pdx.edu/news/bike-share-ridership-portland-down-727-during-pandemic

Day of the Year

## Other Bicycle Activity is up – Way Up!



## Data reveals speed trends



Trip Generation



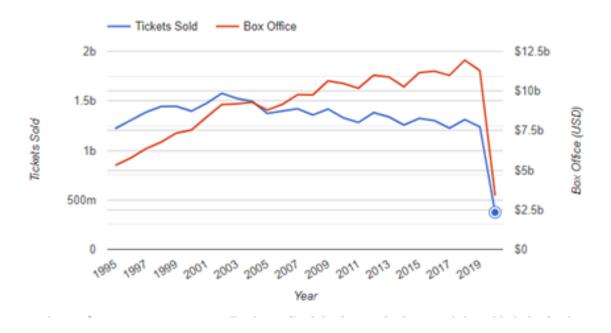
Data Forecasting Sensitive Land Uses



# Data Forecasting Sensitive Land Uses

#### Theaters

#### **Annual Ticket Sales**

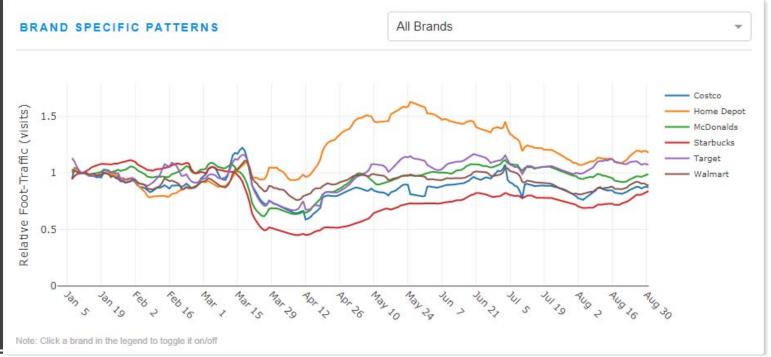






# Data Forecasting Sensitive Land Uses

#### Retail



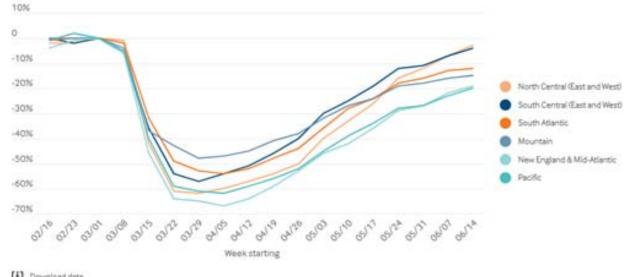
Source: Safegraph, U.S. Consumer Activity During COVID-19 Pandemic.

## Data Forecasting Sensitive Land Uses



#### Medical





[4] Download data

Data are presented as a percentage change in the number of visits in a given week from the baseline week (March 1-7). Distribution of states across U.S. census divisions is available at the census website.

Source: Ateev Mehrotra et al., The Impact of the COVID-19 Pandemic on Outputient Visits: Practices Are Adapting to the New Normal (Commonwealth Fund, June 2020), https://doi.org/10.26099/2v5t-9y63



# Data Forecasting Sensitive Land Uses

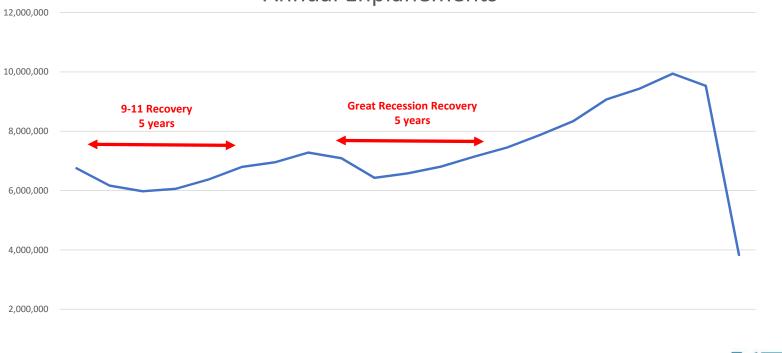
#### Restaurants



Source: Safegraph, U.S. Consumer Activity During COVID-19 Pandemic.

#### When do we recover?

#### Portland International Airport Annual Enplanements







## Randy McCourt, ITE President

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