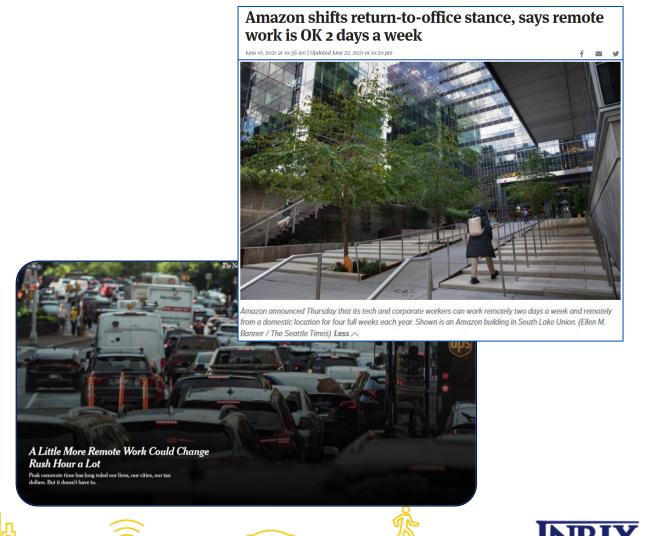


The "New Normal"

Traffic is coming back or has already come back, but is it going to be the same?

- There are clearly places where congestion is at pre-covid levels, and even more
- Many businesses continuing telecommuting reducing commute trips
- Key Questions:
 - ➤ How have travel patterns changed?
 - ➤ How do areas compare?
 - ➤ When will traffic "normalize"?



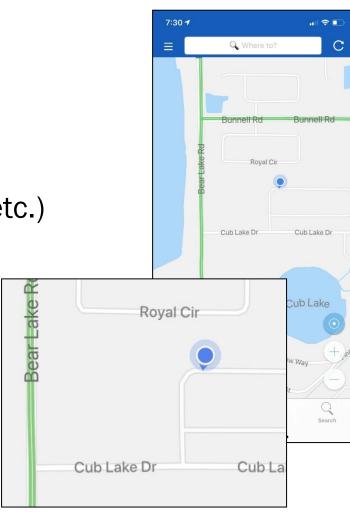
Analysis

Data Types

- Consumers
 - Connected Cars
 - Mobile Phones
- Local Fleets (service, delivery, etc.)
- Long Haul Trucks

<u>Analysis</u>

- Trip Volumes
 - Time of Day Distribution
- Trip Patterns (O/D)
 - Urban and Residential
- Congestion Levels
 - Impacts













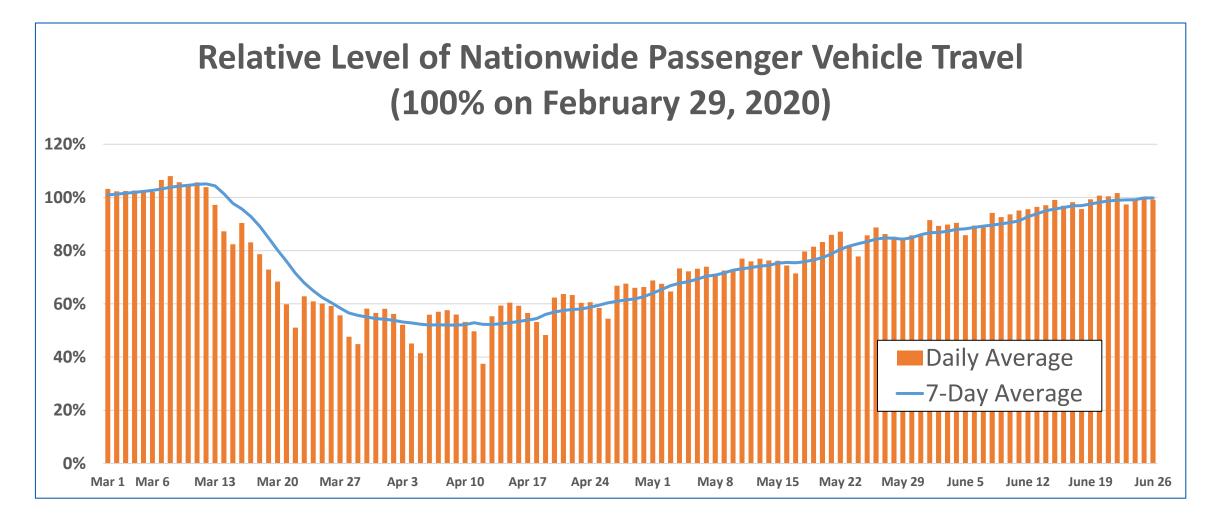








Travel Declines Peaked in Mid-April





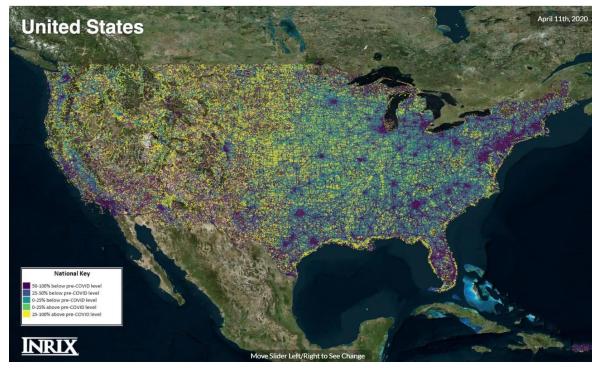




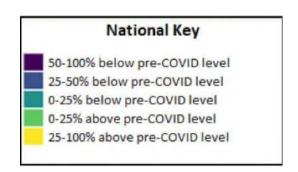




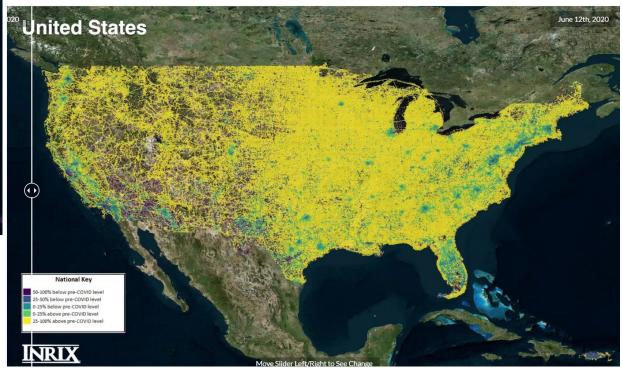
Activity Levels...Coming Back...Differently?



April 11, 2020



June 12, 2020





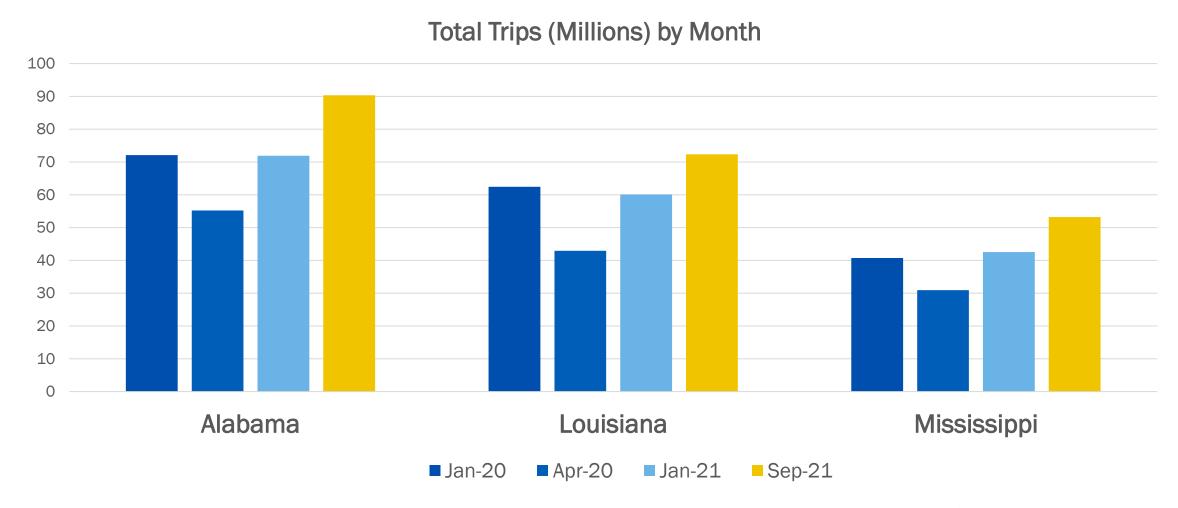








COVID Effect on Statewide Trips













Urban Core vs Nearby Residential Areas

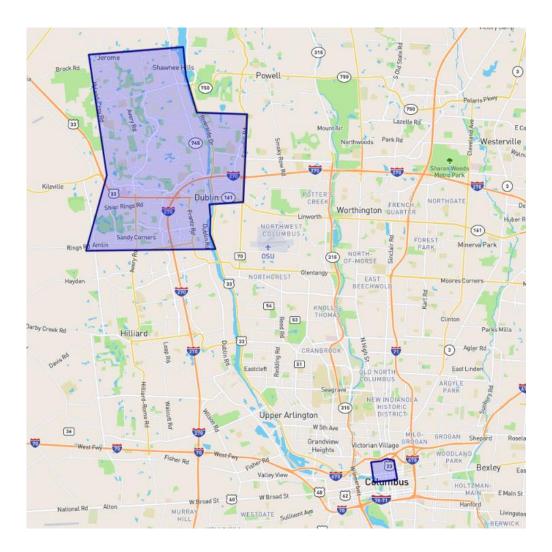
Trip Starts by Hour

January 2020: Pre-COVID

April 2020: Lowest recorded traffic

• January 2021: YOY

September 2021: "Current" conditions







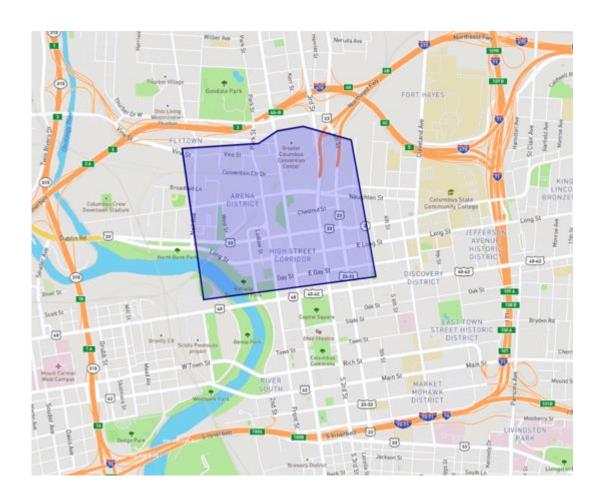


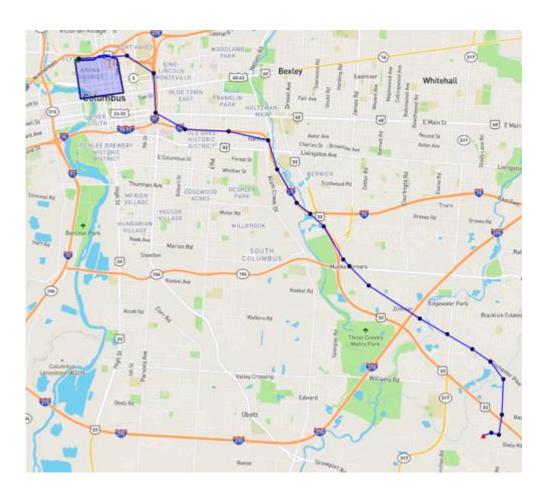




Downtown Columbus

Pre-COVID sample: 31,876 observed Trips per week









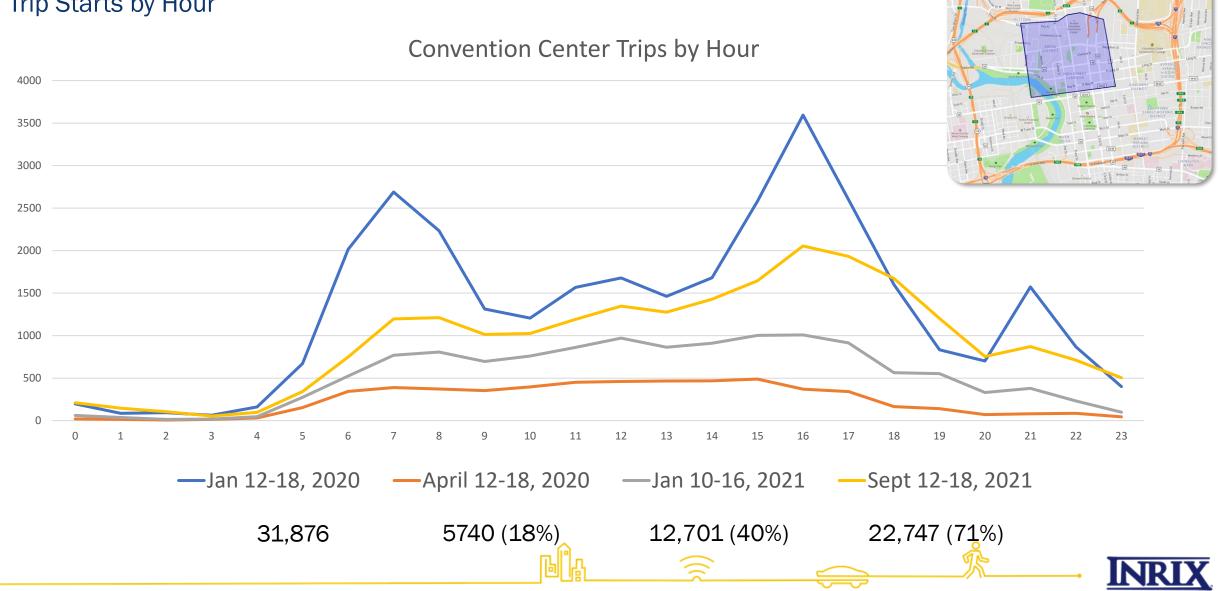






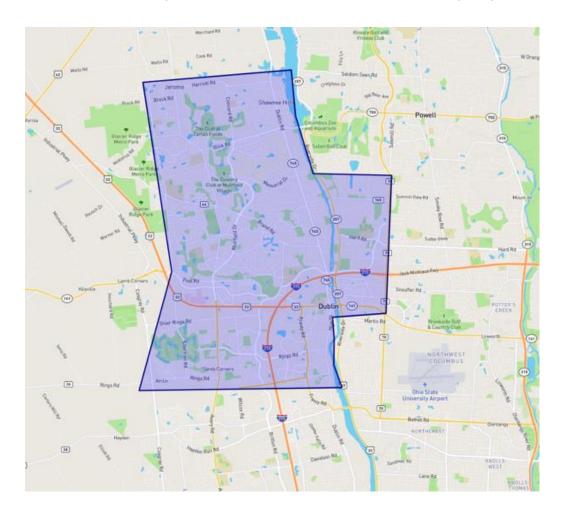
Downtown Columbus

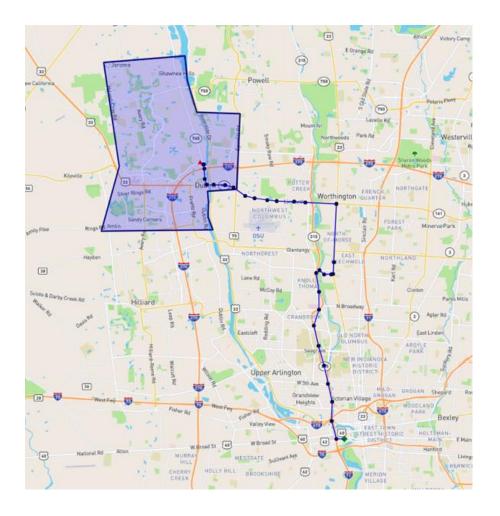
Trip Starts by Hour



Residential Area

Pre-COVID sample: 159,927 Observed Trips per week







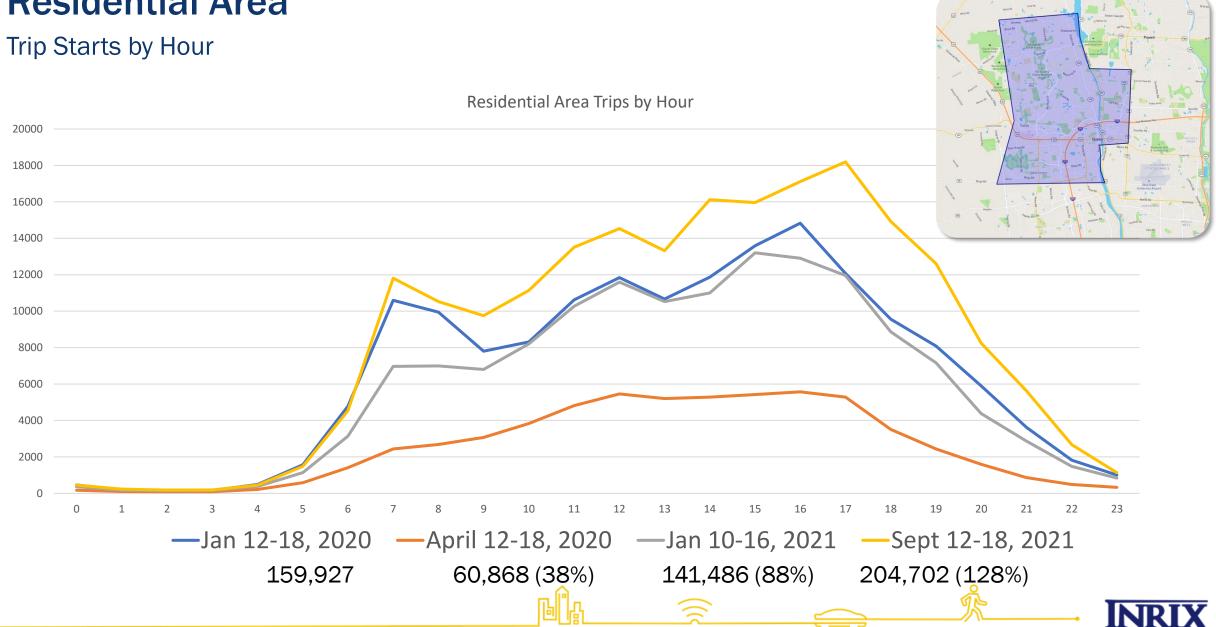








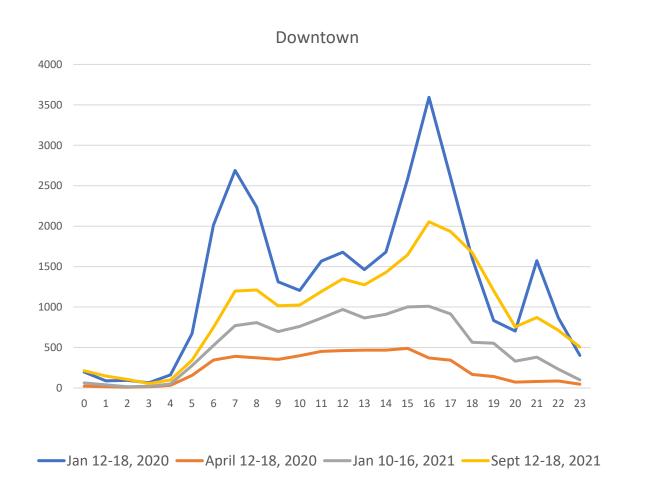
Residential Area

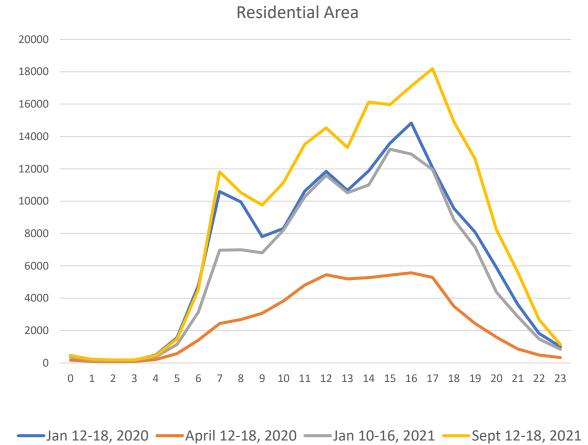


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Downtown Columbus vs Residential Area

Trip Starts by Hour







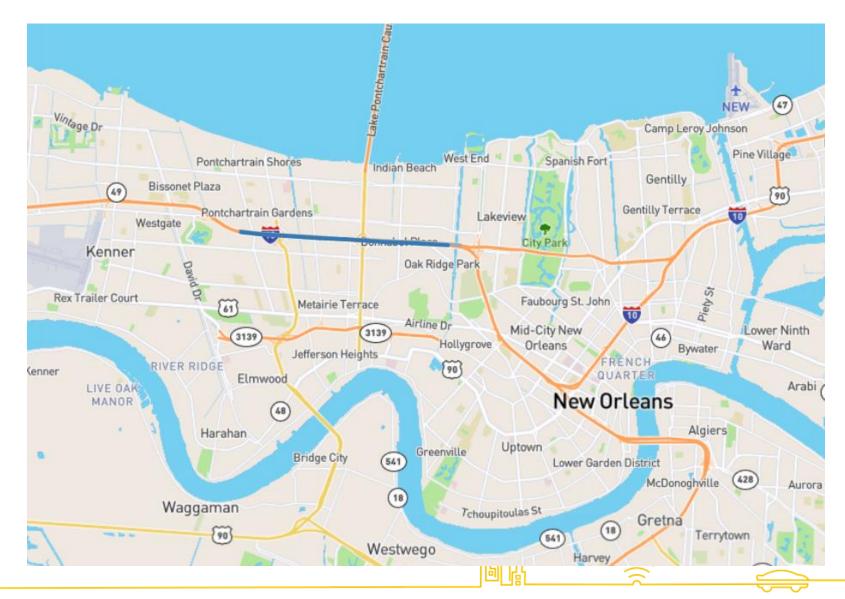








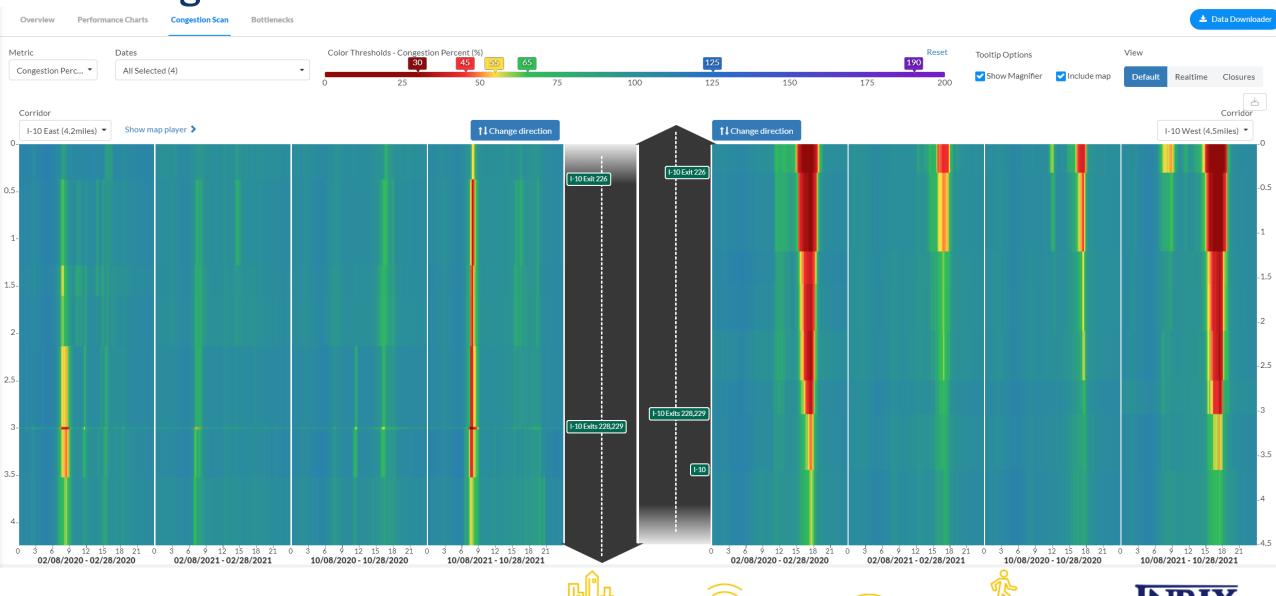
Section of I-10, New Orleans



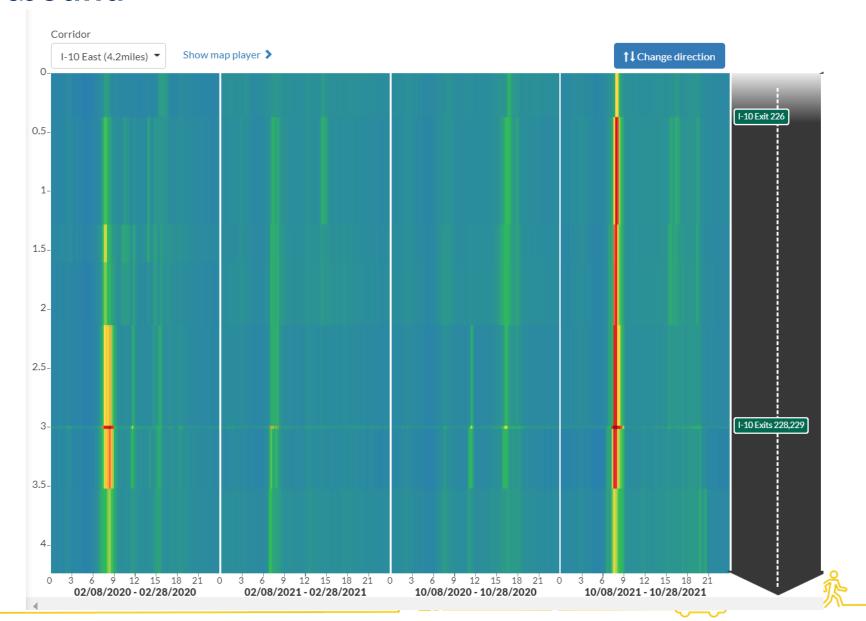




I-10 Congestion Scans

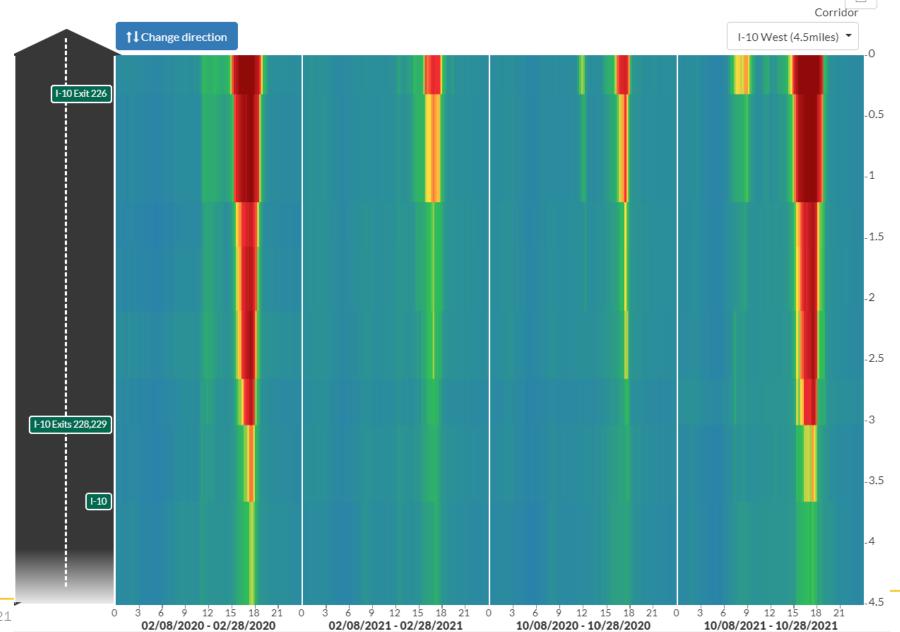


I-10 Eastbound



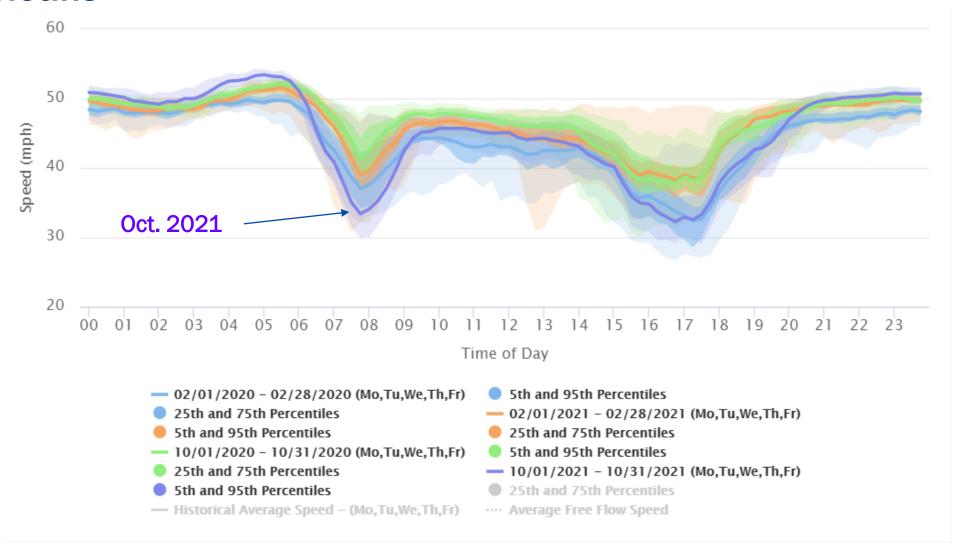


I-10 Westbound





New Orleans







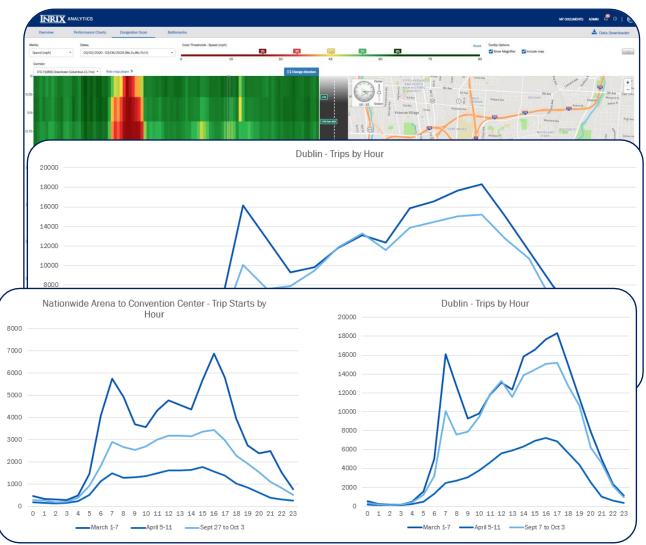






When will traffic return to pre-COVID levels?

- Volumes in many areas have returned and even exceeded pre-COVID levels
 - New home based trips are taking the place of some of the busiest routes
 - Traffic is still in flux
- Increased teleworking is promoting peak-spreading
- Traffic patterns will never be the same











Where does this leave us? More questions?

Are companies going to continue with modified work weeks?

When will we catch up on the supply chain?

Are early retirees going to go back to work?

When will more people back in the work force?











Thank You

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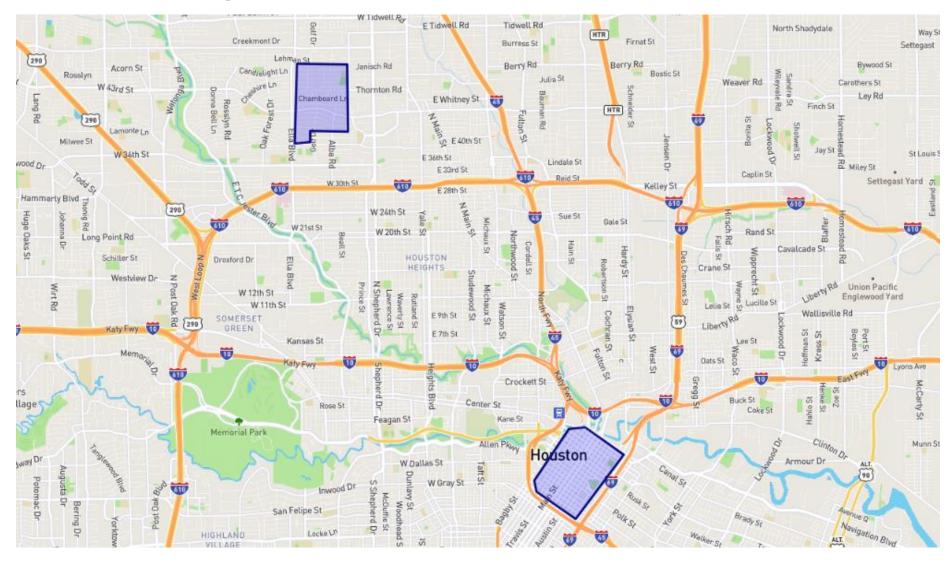
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Houston CBD vs Shepherd Park Plaza Residential Area







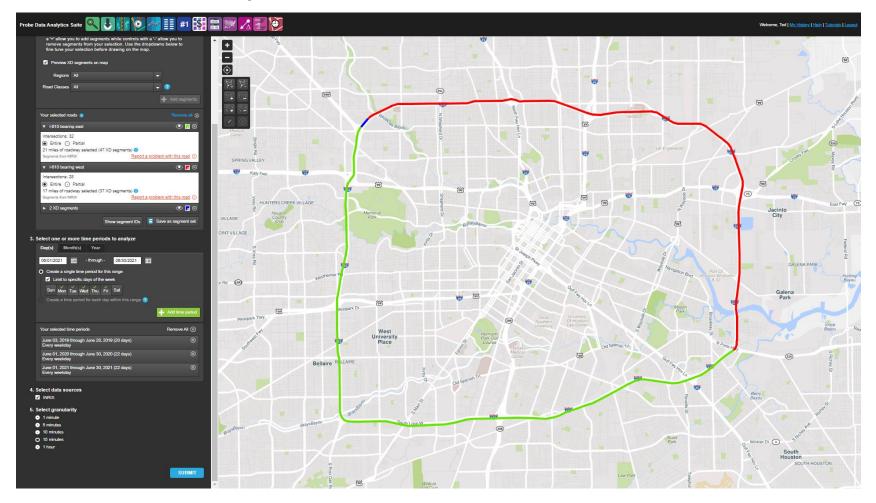






Congestion Comparison

I-610 Counterclockwise – Weekdays of June 2019, 2020, and 2021







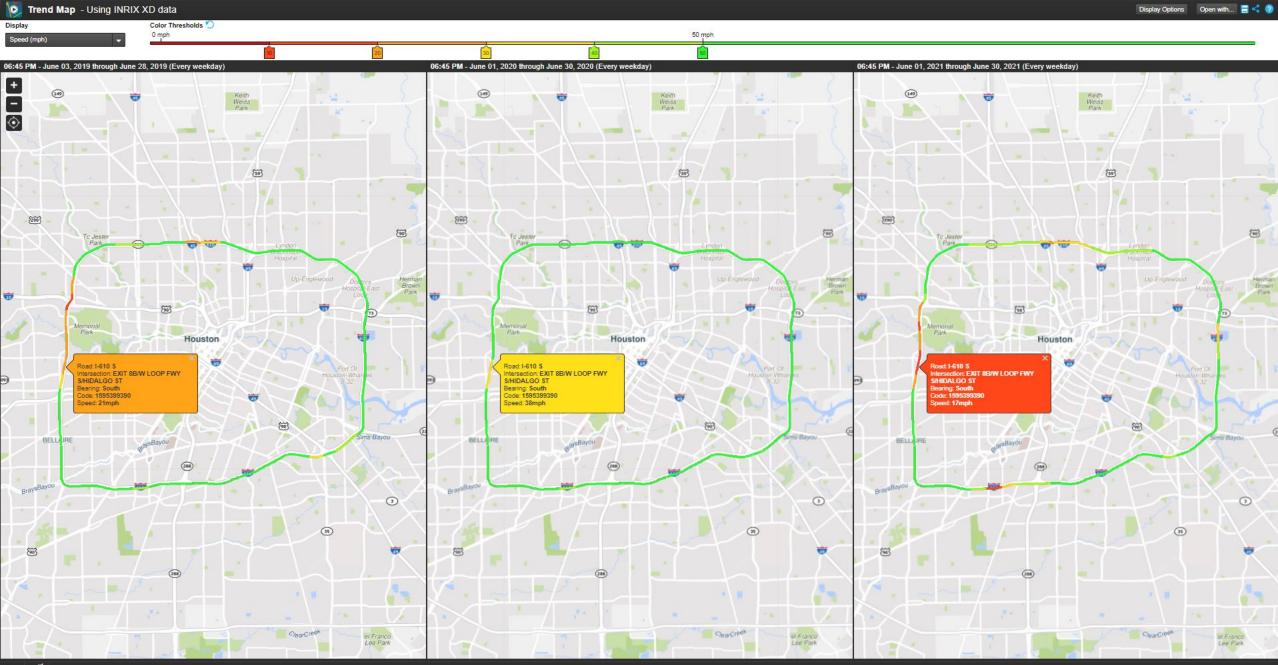




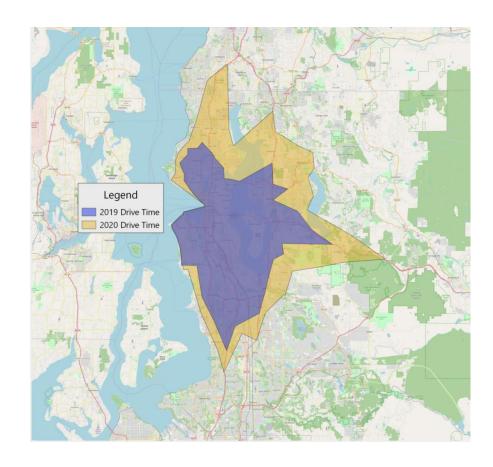


11:45 PM at 15 minute intervals

06:45 PM



30 minute drive













Big Data Toolbox

- Real-Time XD Traffic Flow
- Roadway Analytics (Historical Speed)
- Trip Analytics
 - Volume, O-D, and Pattern Changes
- Signal Analytics



