



Route to sustainable transportation

SHARING DATA & AVAILABLE CAPACITY





SHARING DATA & AVAILABLE TRANSPORTATION CAPACITY:

Future of mobility vs pooling  
Pooling taxis and e-commerce



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# The New Automobility: Lyft, Uber and the Future of American Cities

2018: "Transportation platforms are making traffic worse and compete with public transit."

July 25, 2018

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## TRIPS, USERS AND USAGE

- TNCs transported 2.61 billion passengers in 2017, a 37 percent increase from 1.90 billion in 2016.
- Combined TNC and taxi ridership is likely to surpass local bus ridership in the U.S. by the end of this year, making them among the largest urban transportation providers.
- 70 percent of Uber and Lyft trips are in nine large, densely-populated metropolitan areas (Boston, Chicago, Los Angeles, Miami, New York, Philadelphia, San Francisco, Seattle and Washington DC.)
- TNCs account for 90 percent of TNC/taxi trips in eight of these nine large metro areas (New York is the exception), but taxis serve slightly more passengers than TNCs in suburban and rural areas.
- TNC customers are predominantly affluent, well-educated and skew younger.

## ROLE IN URBAN MOBILITY

- TNCs added 5.7 billion miles of driving in the nation's nine largest metro areas at the same time that car ownership grew more rapidly than the population.
- About 60 percent of TNC users in large, dense cities would have taken public transportation, walked, biked or not made the trip if TNCs had not been available for the trip, while 40 percent would have used their own car or a taxi.
- TNCs are not generally competitive with personal autos on the core mode-choice drivers of speed, convenience or comfort. TNCs are used instead of personal autos mainly when parking is expensive or difficult to find and to avoid drinking and driving

## SHARED RIDES AND TRAFFIC

- Shared ride services such as UberPOOL, Uber Express POOL and Lyft Shared Rides, while touted as reducing traffic, in fact add mileage to city streets. Even with these shared services, TNCs put 2.6 new TNC vehicle miles on the road for each mile of personal driving removed, for an overall 160 percent increase in driving on city streets.
- Shared rides add to traffic because most users switch from non-auto modes. In addition, there is added mileage between trips as drivers wait for the next dispatch and then drive to a pick-up location. Finally, in even a shared ride, some of the trip involves just one passenger (e.g., between the first and second pick-up).
- TNCs and microtransit can be valuable extensions of – but not replacements for – fixed route public transit

## PUBLIC POLICY

- Trip fees, congestion pricing, bus lanes and traffic signal timing can help cities manage current congestion generated by increasing TNC trip volumes combined with other demands on limited street space.
- If additional steps are needed to reduce traffic congestion, policy makers should look toward a more far-reaching goal: less traffic. Key steps involve limiting low-occupancy vehicles, increasing passenger occupancy of TNCs and taxis, changing commercial vehicle operations, and ensuring frequent and reliable bus and rail service.

## AUTONOMOUS VEHICLES

- Without public policy intervention, the likelihood is that the autonomous future mirrors today's reality: more automobility, more traffic, less transit, and less equity and environmental sustainability.
- Policy-makers should steer AV development away from this future starting today with steps to manage TNCs and personal autos and emphasize frequent, reliable and comfortable high-capacity transit service.

## New Research Confirms That Ride-Hailing Companies Are Causing a Ton of Traffic Congestion



Bryan Menegus

5/08/19 2:00pm • Filed to: GIG ECONOMY CRUNCH



6.2K



23



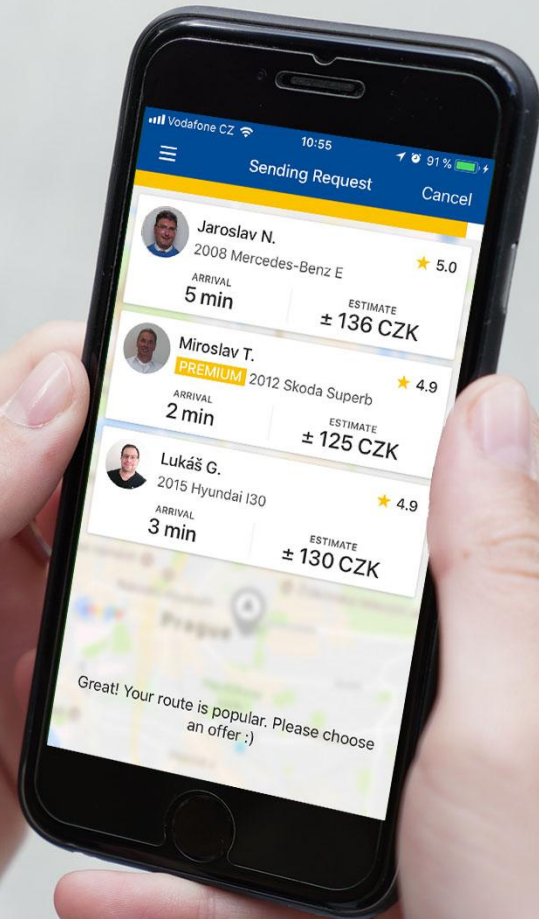
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2019: "Transportation platforms are making traffic worse and compete with public transit."

Photo: Getty

A study published today in *Science Advances* comparing pre- and post-rideshare boom traffic in San Francisco found that the presence of [redacted] and similar companies has been an overall detriment for people who like getting where they're going quickly.



Vodafone CZ 10:55 91%  
Sending Request Cancel

Jaroslav N.  
2008 Mercedes-Benz E 5.0

ARRIVAL 5 min ESTIMATE ± 136 CZK

Miroslav T.  
PREMIUM 2012 Skoda Superb 4.9

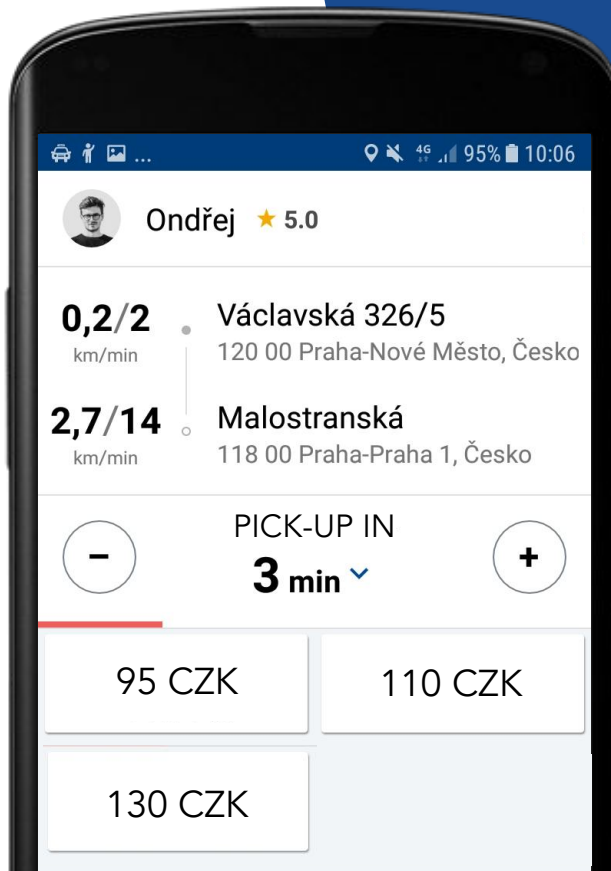
ARRIVAL 2 min ESTIMATE ± 125 CZK

Lukáš G.  
2015 Hyundai i30 4.9

ARRIVAL 3 min ESTIMATE ± 130 CZK

Great! Your route is popular. Please choose an offer :)

Liftago



Liftago Driver  
app →





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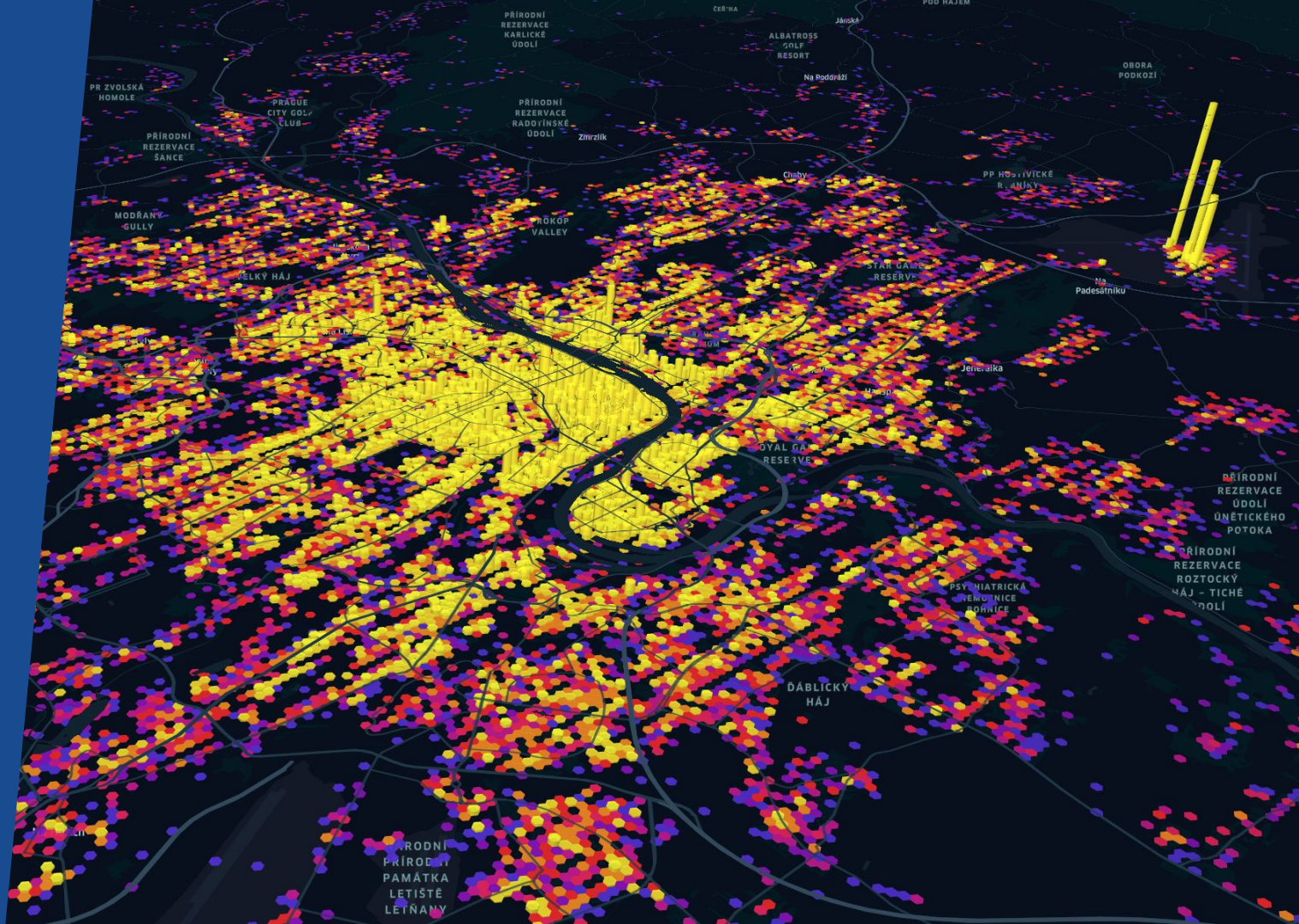


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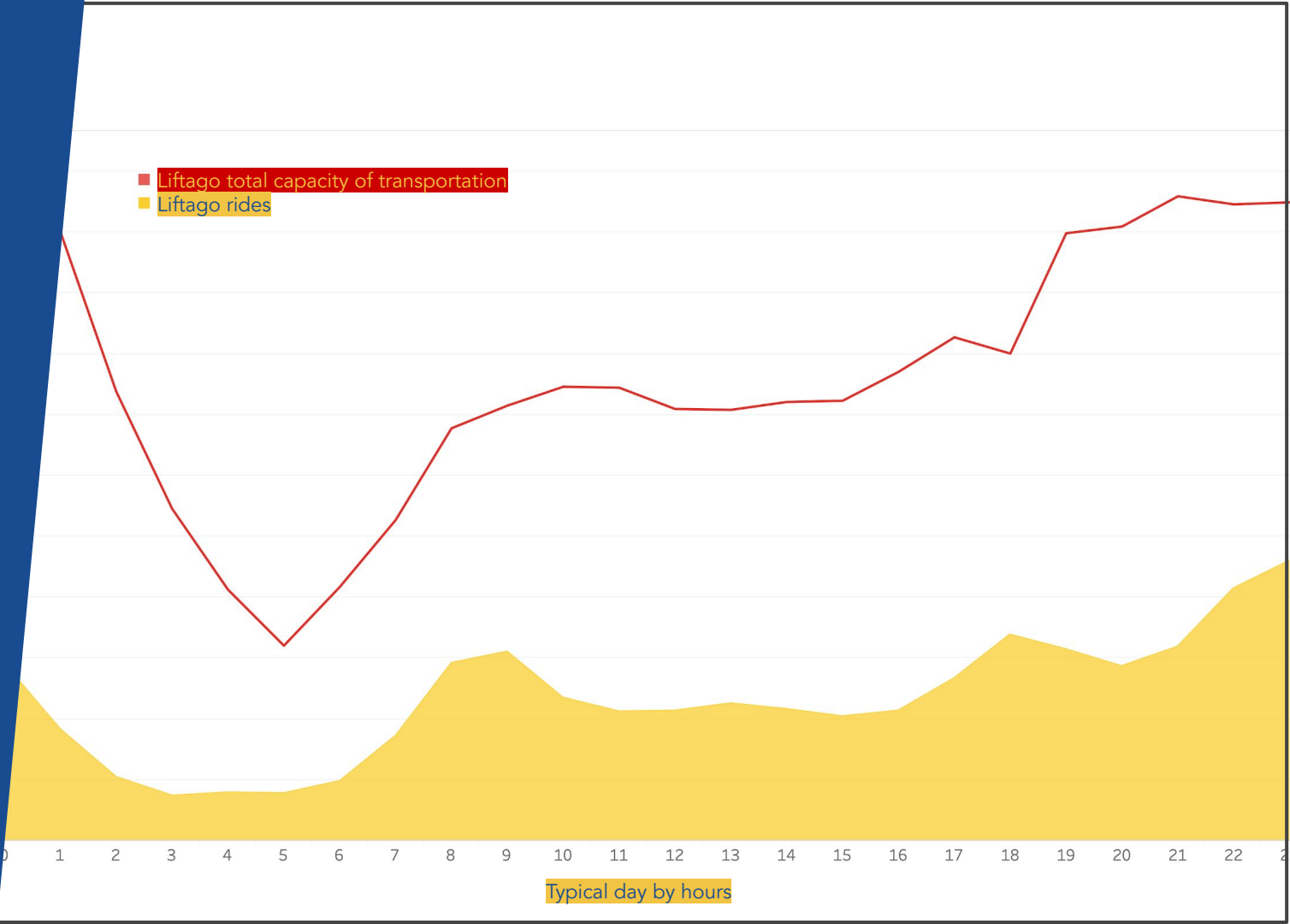


# POOLING TAXIS & E-COMMERCE (PRAGUE)





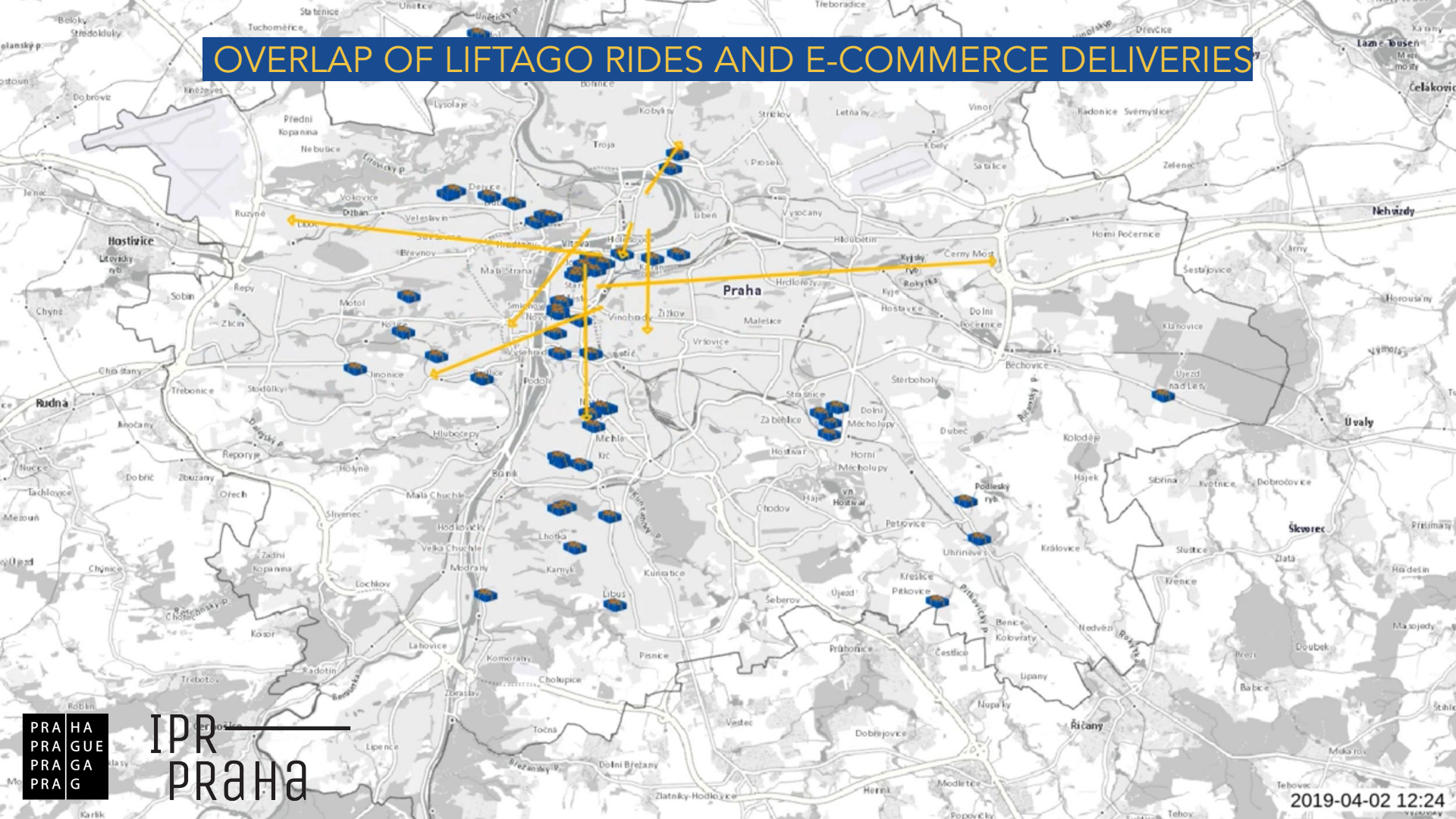
# POOLING TAXIS & E-COMMERCE (PRAGUE)



Typical day by hours



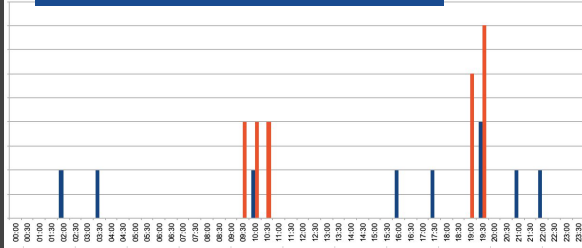
# OVERLAP OF LIFTAGO RIDES AND E-COMMERCE DELIVERIES



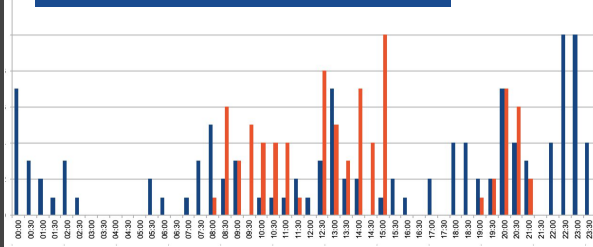
PRAGUE  
PRAGUE  
PRAGUE

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PRAGUE

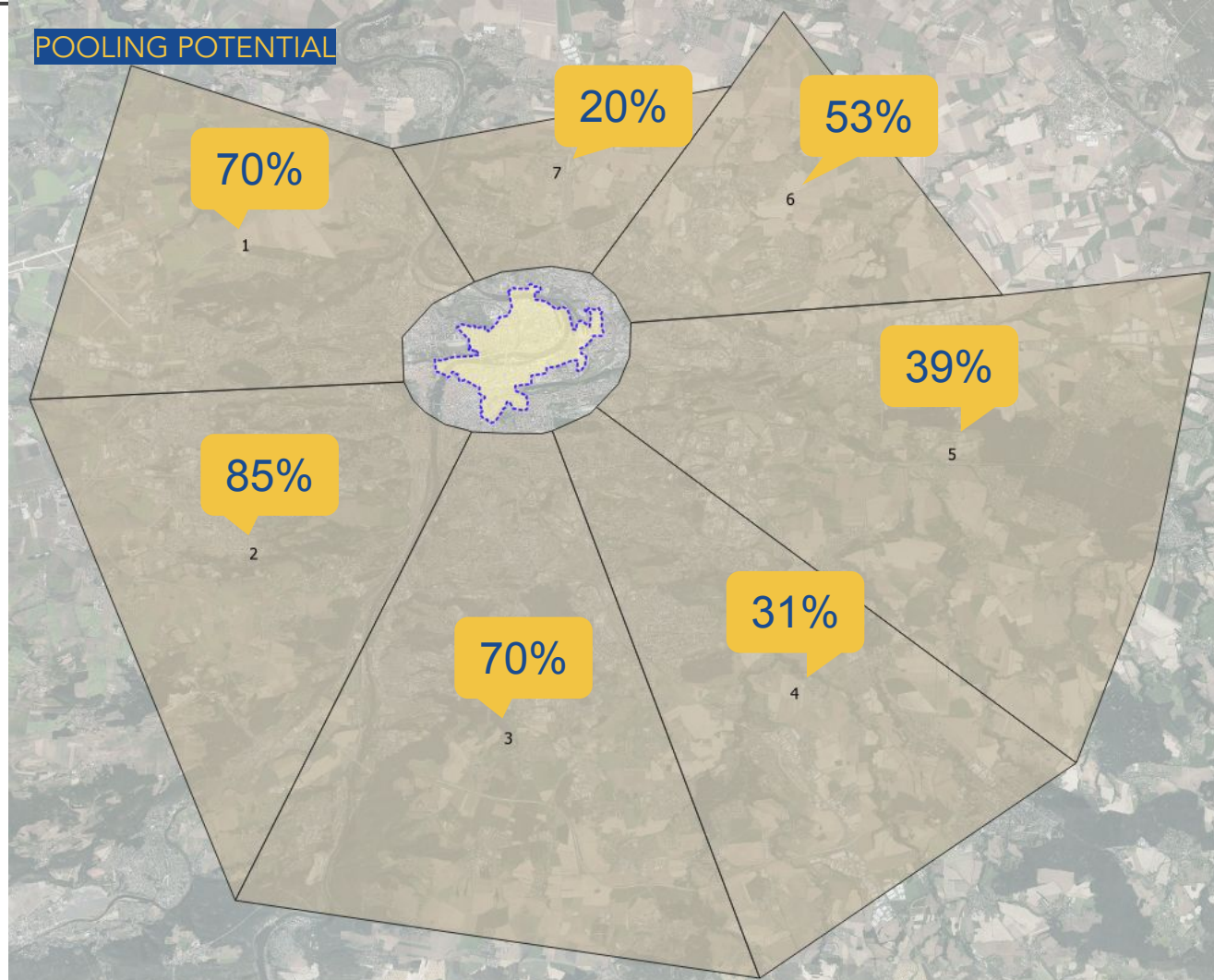
LOW POOLING POTENTIAL



HIGH POOLING POTENTIAL

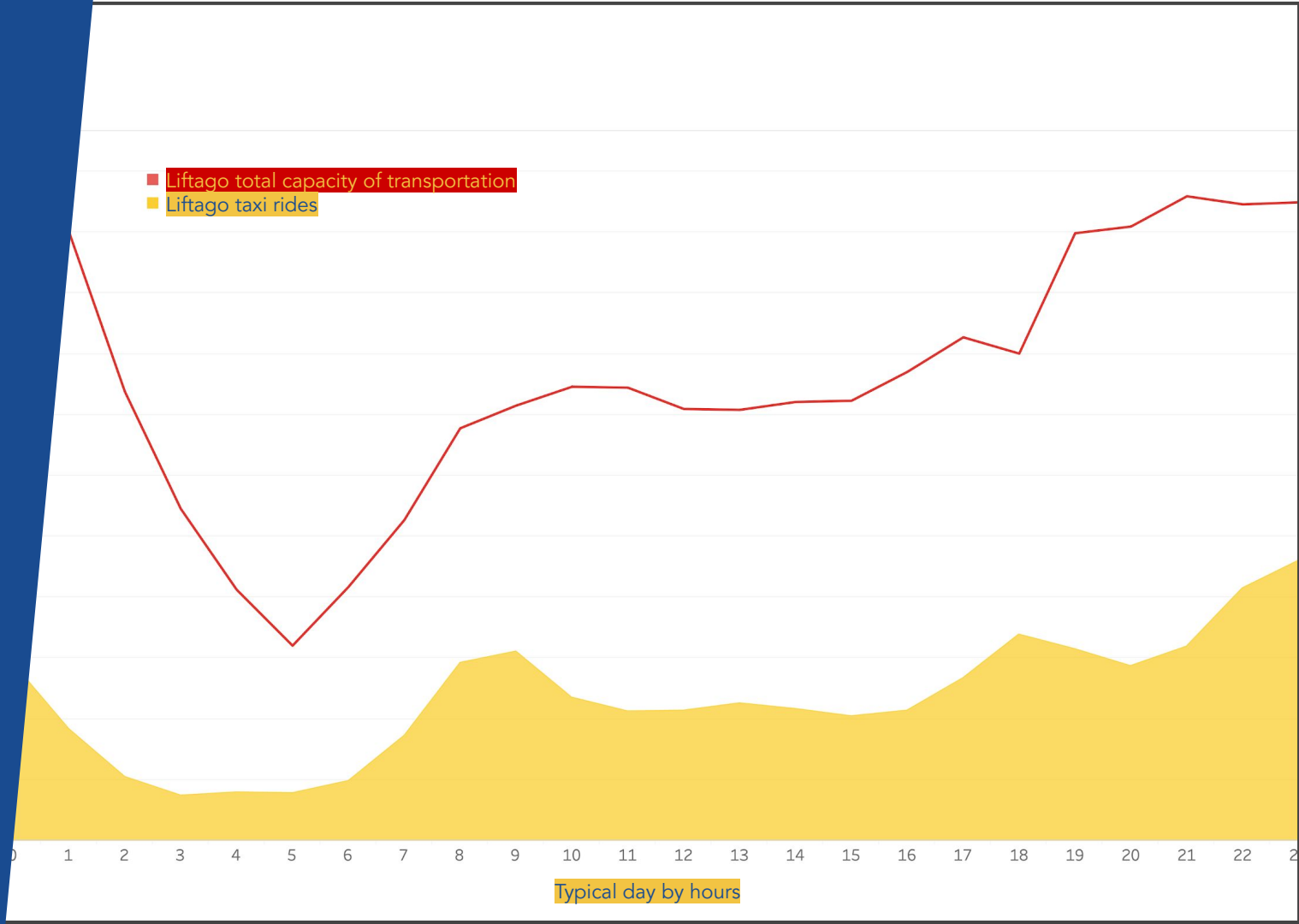


POOLING POTENTIAL





# POOLING TAXIS & E-COMMERCE (PRAGUE)

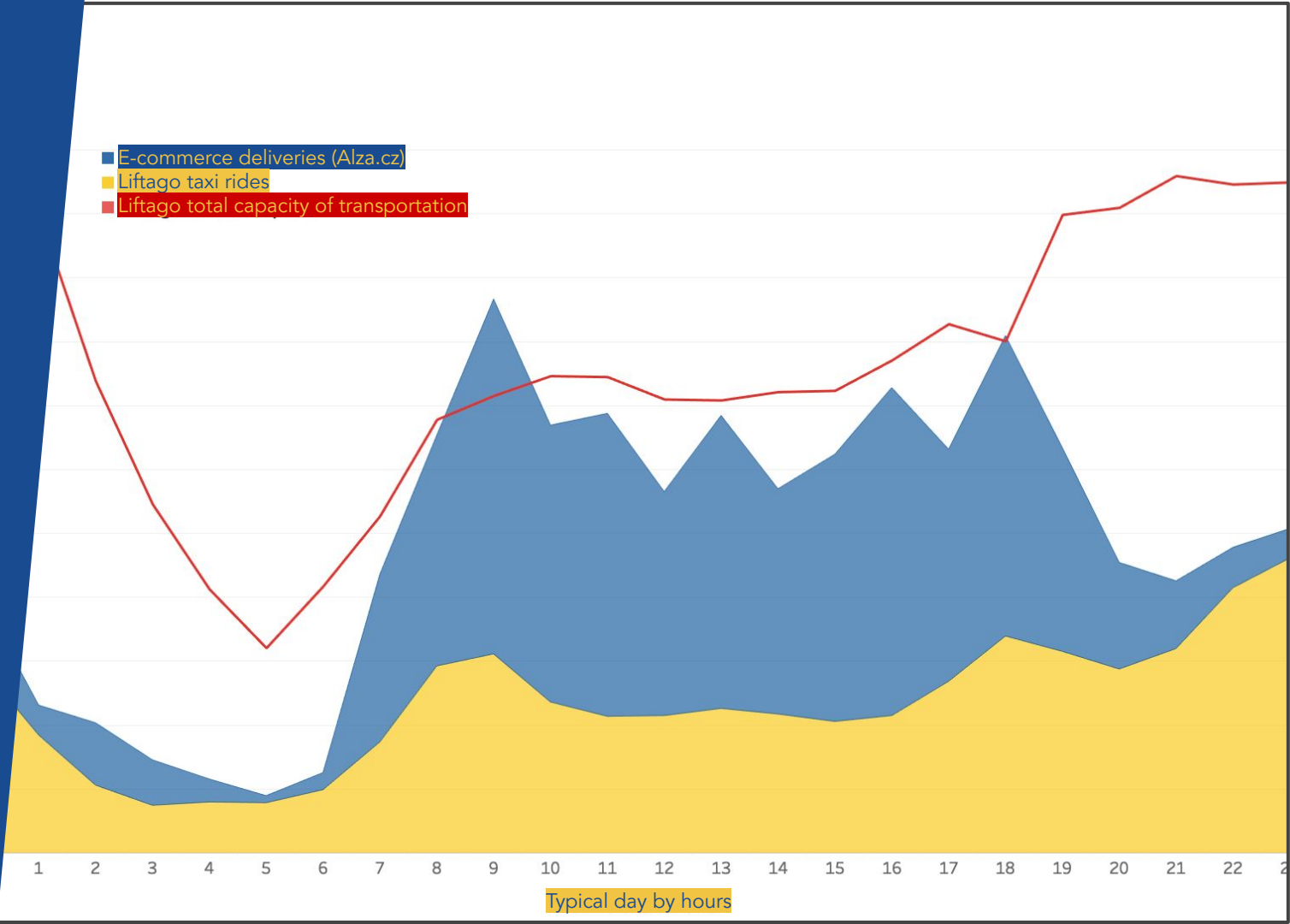


Typical day by hours



# POOLING TAXIS & E-COMMERCE (PRAGUE)

- E-commerce deliveries (Alza.cz)
- Liftago taxi rides
- Liftago total capacity of transportation



Typical day by hours

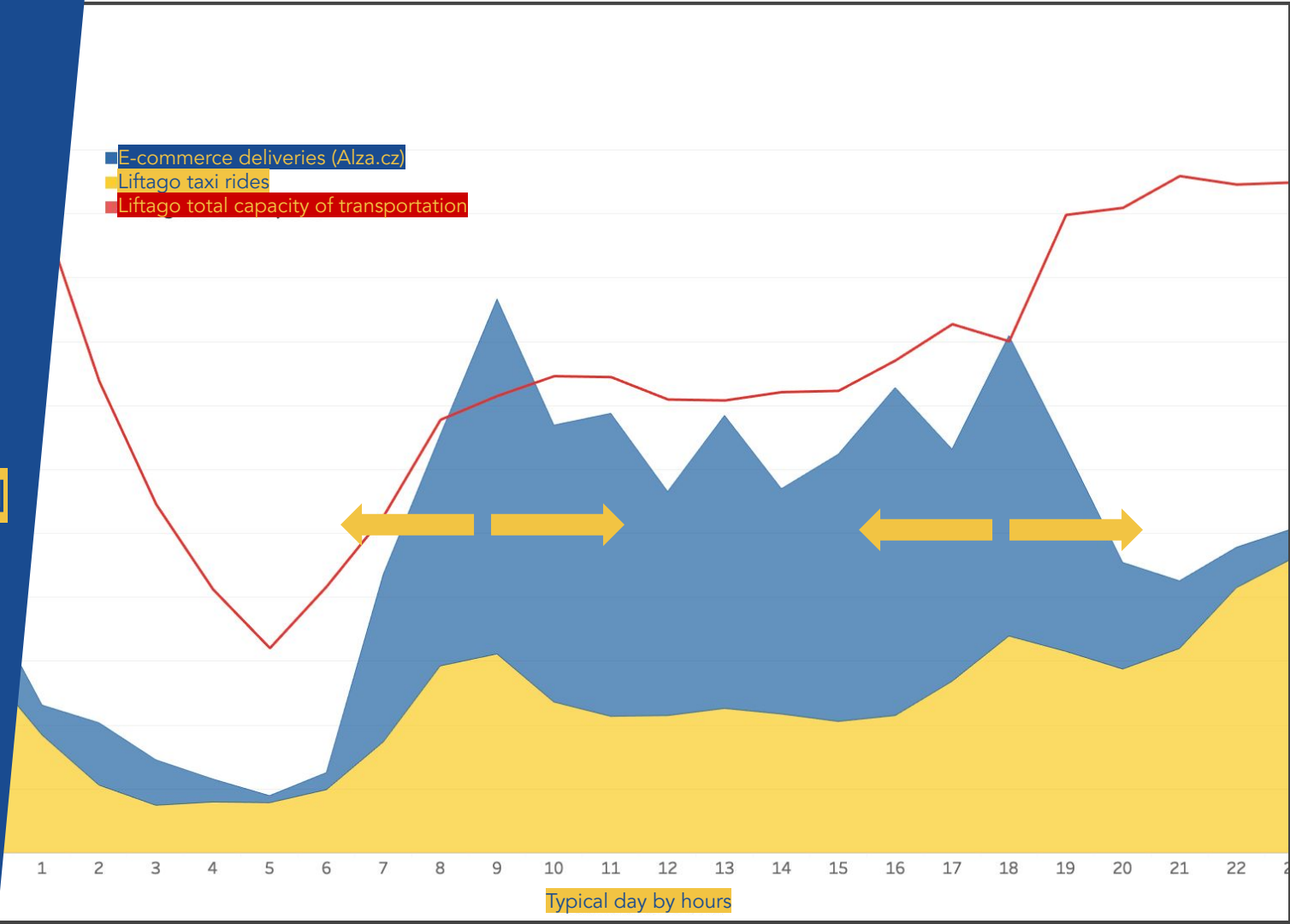




# REDUCING CONGESTION

(PRAGUE)

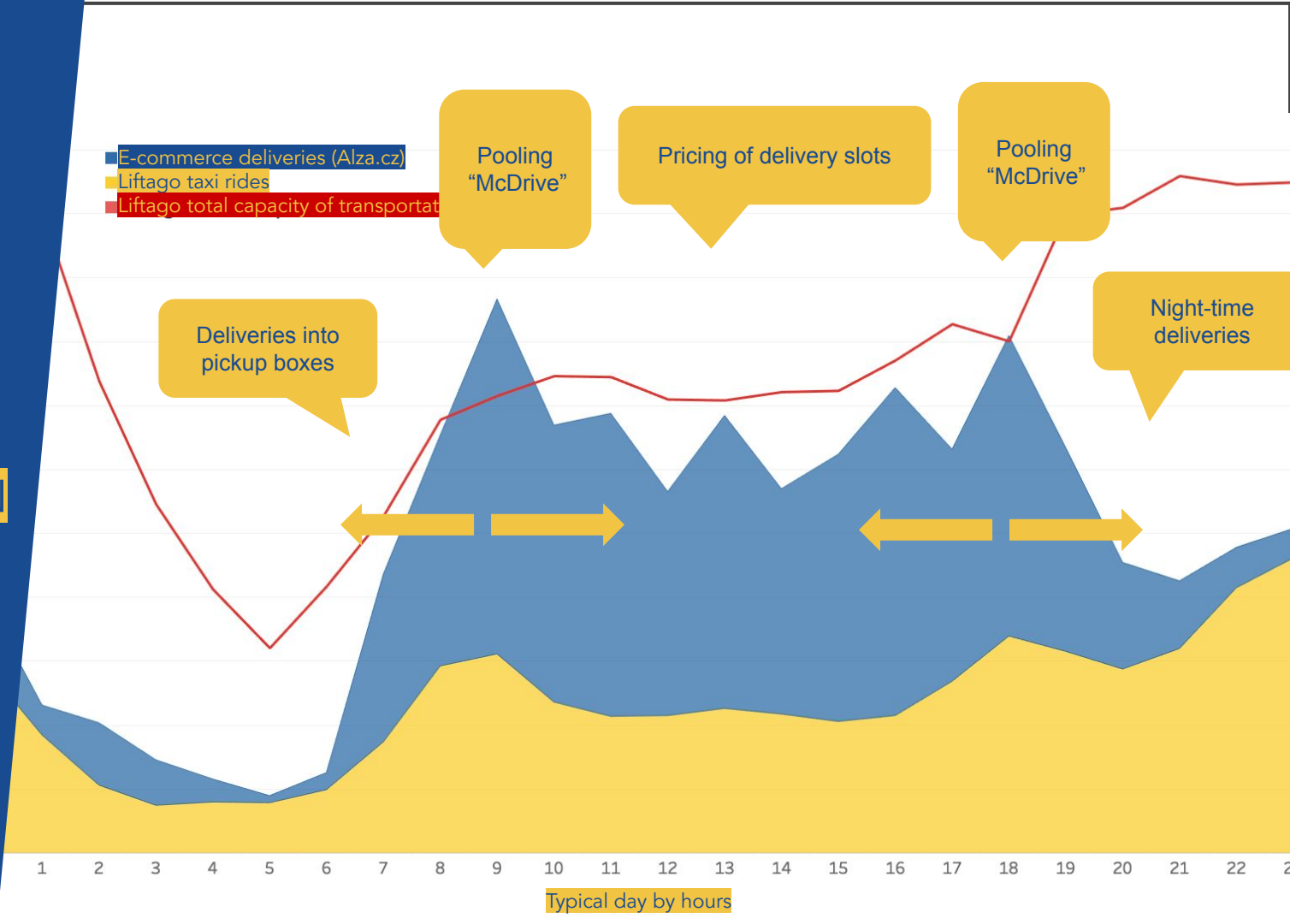
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Typical day by hours



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VISION:  
DATA &  
CAPACITY  
SHARING

E-COMMERCE



COURIER SERVICE



MOBILITY DEMAND

RIDE-HAILING



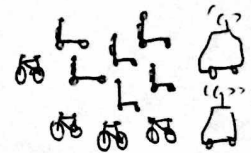
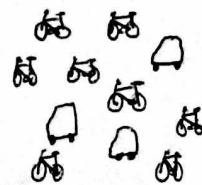
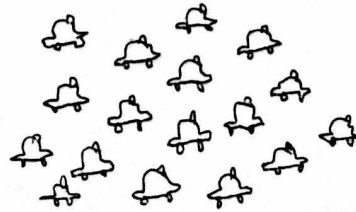
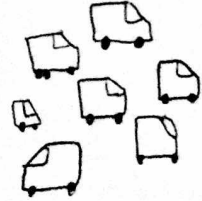
FOOD DELIVERY



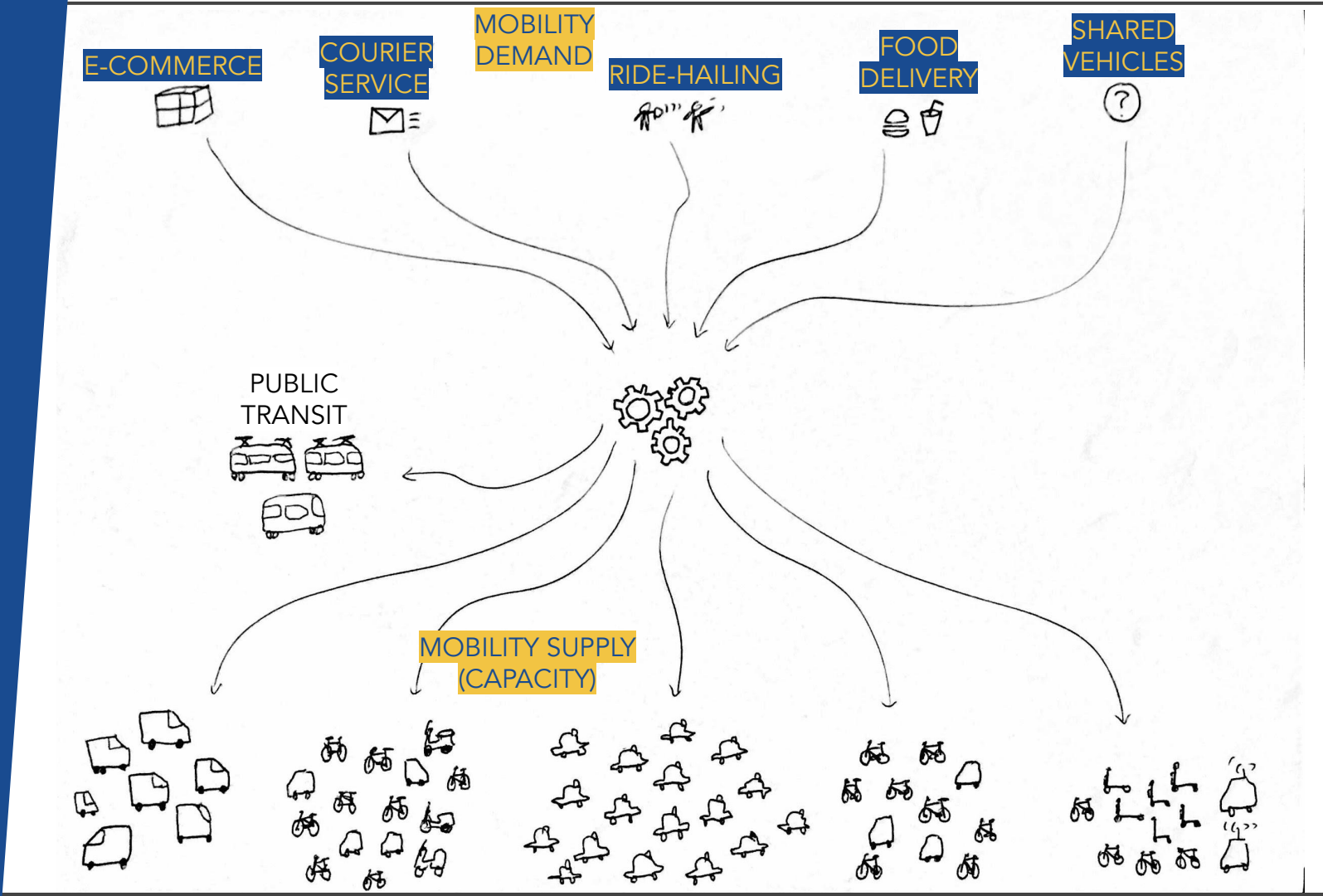
SHARED VEHICLES



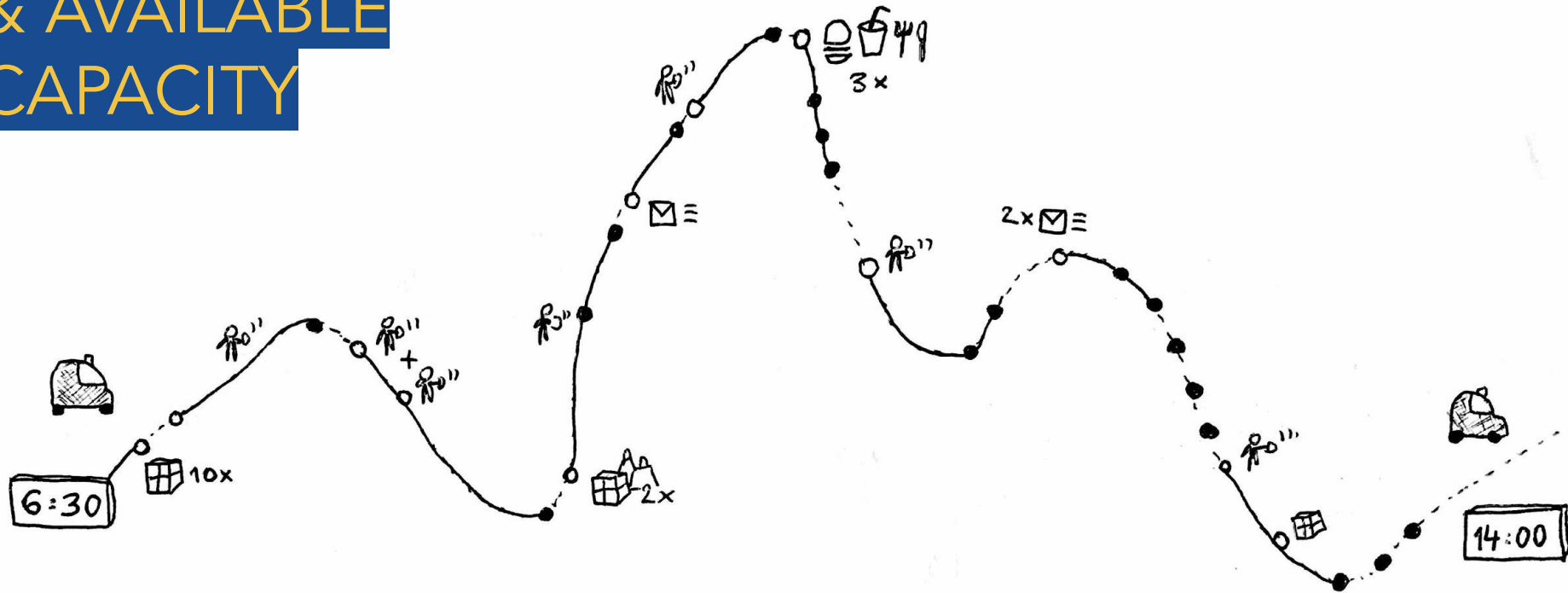
MOBILITY SUPPLY (CAPACITY)



VISION:  
DATA &  
CAPACITY  
SHARING



# SHARING DATA & AVAILABLE CAPACITY





“Pooling people transport and delivery is more sustainable route than growth through own fleets and competition with public transportation. It reduces the number of vehicles in the streets.”

Ondřej Krátký, Liftago   
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