TNCs Today:
A Profile of San Francisco Transportation Network Company Activity

AC Transit Board
November 8, 2017
Motivations, Purpose & Methodology

- SF as ground zero for “emerging mobility services and technologies”
- Perception of great number of TNC vehicles on SF streets, but no data
- Provide information on number, location, time-of-day in SF
  - Drivers and vehicles
  - Trips
  - VMT (includes in-service and out-of-service)

Data
- Gathered by Northeastern University
- All SF, every 5 seconds for 6 weeks

Limitations
- Imputed trips: Not directly observed
- Intra-SF trips only
How many TNCs operate in San Francisco today?

- 45,000 drivers contacted by City
- 21,000 complied with license registration
  - Only 29% are SF residents.
- At peak, approx. 5,700-6,500 vehicles on the road
- 15 times the number of taxis

How many TNC trips are occurring in San Francisco?

- 170,000 TNC intra-SF vehicle trips on typical weekday
- 15% of intra-SF vehicle trips
- At least 9% of intra-SF person trips
- Conservative estimate (excludes trips with an end outside SF)
When are TNC trips occurring in San Francisco?

- Varies by day-of-week
  - 222,500 trips on Friday
  - 129,000 trips on Sunday
- Varies by time-of-day
  - During peak when congestion is greatest

Where are TNC trips occurring in San Francisco?

- Concentrated in the densest and most congested parts of San Francisco
- At peak periods, TNCs comprise ~25% of vehicle trips in South of Market.
How many vehicle miles traveled (VMT) do TNCs generate within San Francisco?

- Intra-SF TNC trips generate at least 570,000 VMT on a typical weekday
- 20% of intra-SF weekday VMT
- 6.5% of total weekday VMT
- Primarily during peaks

<table>
<thead>
<tr>
<th></th>
<th>TNCs</th>
<th>Taxis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trips</td>
<td>170,400</td>
<td>14,400</td>
</tr>
<tr>
<td>VMT</td>
<td>569,700</td>
<td>65,900</td>
</tr>
<tr>
<td>Average Total Trip Length</td>
<td>3.3</td>
<td>4.6</td>
</tr>
<tr>
<td>Average In-service Trip Length</td>
<td>2.6</td>
<td>2.6</td>
</tr>
<tr>
<td>Average Out-of-Service Trip Length</td>
<td>0.7</td>
<td>2.0</td>
</tr>
<tr>
<td>% Out-of-Service Trips Length</td>
<td>21.0%</td>
<td>43.6%</td>
</tr>
</tbody>
</table>

Do TNCs provide a high degree of geographic coverage throughout the entire City?

- Broader coverage across the city than taxis.
- Fewer trips per population and employment in southern and southeastern areas of the city.
Future Research & Costs

Research

- **TNCs and Safety**: How do TNCs affect the safety of people who use the roads, including transit riders, bicyclists and pedestrians?
- **TNCs and Transit Demand**: How do TNCs complement, compete with, or otherwise affect transit ridership?
- **TNCs and Transit Operations**: How do TNCs affect transit service operations?
- **TNCs and Congestion**: How do TNCs affect roadway congestion, delay, and travel time reliability?
- **TNCs and Disabled Access**: To what extent do TNCs serve people with disabilities?
- **TNCs and Equity**: Can TNCs be accessed by all San Francisco residents including communities of concern?
- **TNCs and Air Quality**: How do TNCs affect air quality emissions?
- **TNC Policies**: What is the role of government in regulating TNCs?
- **TNC Best Practices**: What potential impacts of TNCs have other agencies identified, and what policies have they enacted in response?

Costs

- Northeastern University collected data and shared with SFCTA at no cost
- SFCTA staff time for TNC Today report approx. $30K
Questions?

Project Manager: Joe Castiglione, joe.castiglione@sfcta.org