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

Citizens Advisory Committee
Agenda Item 13

SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY
June 28, 2017
Purpose & Data Methodology

- 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

- No info on TNC trip purposes, travel party size, fares paid, traveler attributes

- Future SFCTA research will determine how much TNCs contribute to congestion
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
- 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
- TNCs generate less out-of-service VMT per trip

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

---

### Intra-SF TNC & Taxi Trip Lengths

<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>

### Intra-SF TNC & Taxi VMT by Day-of-Week

- TNC Pickups per Taxi Pickup
- TNC Pickups per Population + Employment

---

---
Future 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?
Questions?

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