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



SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY

June 13, 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







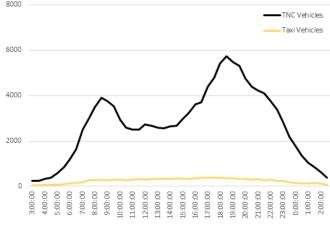
How many TNCs operate in San Francisco today?

- ► 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

Estimated SF-Registered TNC Businesses

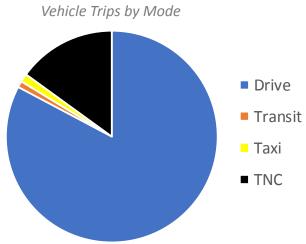
	%
Alameda	21%
Contra Costa	12%
Marin	2%
Napa	0%
San Francisco	29%
San Mateo	16%
Santa Clara	6%
Solano	2%
Sonoma	1%
Outside Bay Area	10%
Total	100%

TNC Vehicles on Street by Time-of-Day (Weekday)



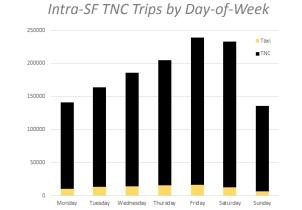
How many TNC trips are occurring in San Francisco?

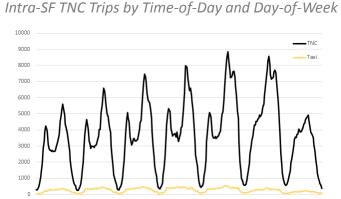
- ► 170,000 TNC intra-SF vehicle trips on typical weekday
- ► 15% of intra-SF vehicle trips
- Conservative estimate (excludes trips with an end outside SF)



When are TNC trips occurring in San Francisco?

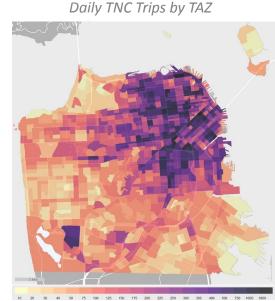
- Varies by day-of-week
 - ► 222,500 trips on Friday
 - **▶** 129,000 trips on Sunday
- Varies by time-of-day
 - **▶** During peak when congestion is greatest





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.





TNC % of Peak Vehicle Trips By Supervisorial District

DIST	AM %	PM %
1	8%	7%
2	20%	17 %
3	19%	20%
4	4%	3%
5	14%	13%
6	25%	26%
7	5%	4%
8	10%	8%
9	10%	9%
10	7%	7%
11	3%	2%

How many vehicle miles traveled (VMT) do TNCs generate

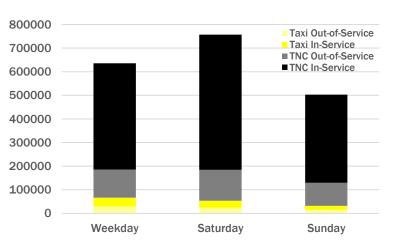
within San Francisco?

- 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

Intra-SF TNC & Taxi Trip Lengths

	TNCs	Taxis
Trips	170,400	14,400
VMT	569,700	65,900
Average Total Trip Length	3.3	4.6
Average In-service Trip Length	2.6	2.6
Average Out-of-Service Trip Length	0.7	2.0
% Out-of-Service Trips Length	21.0%	43.6%

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

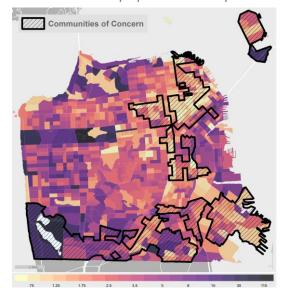


Do TNCs provide a high degree of geographic coverage

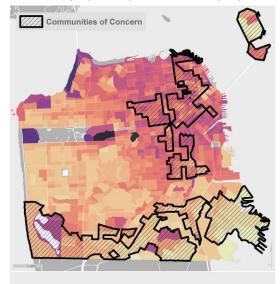
throughout the entire City?

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

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?

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