# Information on Findings of the Clean Miles Standard

2018 Base Year Emissions Inventory of TNCs



San Francisco County Transportation Authority

Transportation Authority Board Agenda Item 15 February 25, 2020

### **SB 1014** (Skinner 2018)

- 2019: CARB must establish an inventory of emissions per passenger mile for TNCs for the year 2018
- 2021: CARB must develop annual emissions targets per passenger mile for TNCs
- 2023: CPUC must implement annual emissions targets developed by CARB

• CARB: California Air Resources Board



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CPUC: California Public Utilities Commission

### **SB 1014** (Skinner 2018)

- September 2019: Workshop with draft methodology and findings
- December 2019: 2018 Base Year Emissions Inventory Report published



#### Methodology



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#### **Emissions per-passenger-mile:**

## $\frac{Grams \ CO_2}{PMT} = \frac{VMT \ (miles)x \ In \ Use \ Fuel \ Consumption \ \left(\frac{gal}{mi}\right)x \ Conversion \ Factor \ \left(\frac{gCO_2}{gal}\right)}{Ride \ VMT \ (miles)x \ Occupancy + Active / Transit \ PMT}$





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- 1. Collect driving information by period from TNCs
- 2. Account for drivers using multiple platforms
- 3. Estimate passenger occupancy
- 4. Develop emissions profiles

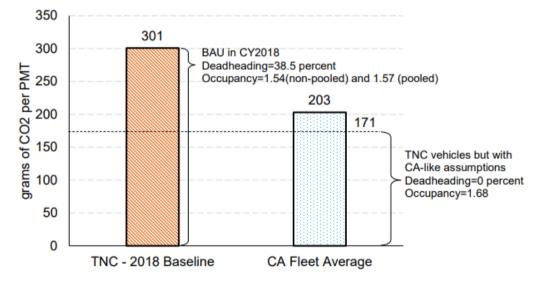


Table 1. Summary Statistics of TNC Trips vs California Trips

	TNC California	California Passenger Vehicles (EMFAC2017)
Total number of vehicles	642,00022	25.6 million
Total VMT	4.3 billion miles	342.3 billion miles
Number of trips (only P3) <sup>23</sup>	365 million*	41.4 billion
Average Trip Length	12 miles per trip <sup>24</sup>	8.3 miles per trip
Cars vs. Trucks (percent)	79 vs. 21	63 vs. 37
VMT-weighted Avg. MY	2010.5	2009
Average Age	7.5	9

### Results

# TNCs have higher emissions per passenger mile than the CA fleet

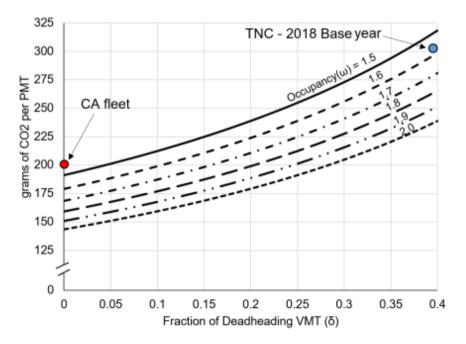




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### Results

## TNCs would need to reduce deadheading and increase occupancy





Source: CARB 2018 Base Year Emissions Inventory

### **Next Steps**

- 2021: CARB must develop annual emissions targets per passenger mile for TNCs
- 2023: CPUC must implement annual emissions targets developed by CARB
- **Transportation Authority and SFMTA** staff to continue to engage with CARB



**County Transportation** 

### Thank you. For more information:

https://ww2.arb.ca.gov/our-work/programs/cleanmiles-standard



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