Council Referral Robots, Drones, and e-Scooters

Transportation Commission, Item 5C December 3, 2018





Background

- April 2nd and May 1st Council Referral to Consider:
 - Banning Commercial Vehicles including Robotic Deliveries from Sidewalks
 - Banning Commercial Drone Aircraft used for Deliveries
 - Banning Electric (Powered) Scooters





Background

- The "Last Mile" problem
- Private development of new technology
- Pace of change
- Pros, Cons, and City response





Robotic Delivery



STY Alameda

Robotic Delivery: Pro / Cons

Benefits:

- Saves a Vehicle Trip
- Convenience
- Operate at "Walking Speed"

Main Concerns:

- Sidewalk Congestion
- Free use of Public r/w
- Liability





Robotic Delivery

Response of other Cities / States:

- Walnut Creek and Redwood City approved a Pilot Programs in 2016
- San Francisco Banned prior to requiring Permit in 2018
- Florida, Virginia, Idaho, and Wisconsin have State Laws





Robotic Delivery: Recommendation

Take No Action at this Time

- Emerging Technology Uncertain Demand
- No Requests to Operate in Alameda
- Apply Lessons Learned from other Programs





Robotic Delivery: Alt Recommendation

Introduce Reading to Ban Autonomous Delivery Devices from Public Sidewalks





Commercial Drone Delivery







Commercial Drone Delivery

- Navigable Airspace Regulated by the FAA
- Limited to 55lbs max and Line-of Sight requirements
- FAA Pilot Program in Ten Cities to Evaluate Operational Concepts, Safety, and Reliability Measures





Commercial Drone Delivery

- City cannot strictly Ban Drone Delivery
- Can restrict (permit) take-offs and landings
- Protections for individual privacy, trespassing
- · Limits on land use, hours of operation, noise





Drone Delivery - Recommendation

Take No Action at this Time

Staff will continue to Monitor Companies Proposed Use, the FAA Pilot Program and other Cities Response





Electric Scooters: Overview

Benefits:

- More transportation choices
- Reduce congestion and parking demand
- Reduce greenhouse gas emissions

Portland User Survey:

- 1/3 of scooter trips replaced an auto trip
- Almost 50% of users had never ridden a bicycle



E-Scooters: Issues/Concerns

Main Concerns:

- Sidewalk riding
- Kids riding, especially without helmets

Data:

- Complaints: 10
 - 3 via See Click Fix
 - 7 via email (from 1 individual)
- Collisions: 2
 - Child and e-scooter riders
 - E-scooter rider (solo)
- Citations
 - For riding on sidewalks or no helmet





E-Scooters: State Laws

State law requires:

- Have drivers license or instruction permit
- Wear a helmet (after Jan 1, only those under 18 years old)
 - No sidewalk riding

Note:

- City cannot restrict usage of motorized scooters on City streets
- Can restrict parking on sidewalks



E-Scooters: Recommendation

- Develop pilot program within one year for Council consideration
- Continue to work with scooter companies to discourage deployment and parking in Alameda

- Continue enforcing state laws
- Educate public on safe and legal scooter riding



E-Scooters: At Recommendation

- Develop pilot program within one year, for Council consideration
- In the interim, ban parking of shared electric scooters in Alameda, via new ordinance

- Continue enforcing state laws
- Educate public on safe and legal scooter riding

