

**OCTOBER 17, 2018 CITY COUNCIL BRIEFING AGENDA
CERTIFICATION**

This certification is given pursuant to Chapter XI, Section 9 of the City Charter for the City Council Briefing Agenda dated October 17, 2018. We hereby certify, as to those contracts, agreements, or other obligations on this Agenda authorized by the City Council for which expenditures of money by the City are required, that all of the money required for those contracts, agreements, and other obligations is in the City treasury to the credit of the fund or funds from which the money is to be drawn, as required and permitted by the City Charter, and that the money is not appropriated for any other purpose.



T.C. Broadnax
City Manager

10/12/2018
Date



Elizabeth Reich
Chief Financial Officer

10-12-18
Date

RECEIVED

2018 OCT 12 PM 4:23

CITY SECRETARY
DALLAS, TEXAS

City of Dallas

1500 Marilla Street
Dallas, Texas 75201



COUNCIL BRIEFING AGENDA

October 17, 2018

(For General Information and Rules of Courtesy, Please See Opposite Side.)

(La Información General Y Reglas De Cortesía Que Deben Observarse

Durante Las Asambleas Del Consejo Municipal Aparecen En El Lado Opuesto, Favor De Leerlas.)

General Information

The Dallas City Council regularly meets on Wednesdays beginning at 9:00 a.m. in the Council Chambers, 6th floor, City Hall, 1500 Marilla. Council agenda meetings are broadcast live on WRR-FM radio (101.1 FM) and on Time Warner City Cable Channel 16. Briefing meetings are held the first and third Wednesdays of each month. Council agenda (voting) meetings are held on the second and fourth Wednesdays. Anyone wishing to speak at a meeting should sign up with the City Secretary's Office by calling (214) 670-3738 by 5:00 p.m. of the last regular business day preceding the meeting. Citizens can find out the name of their representative and their voting district by calling the City Secretary's Office.

If you need interpretation in Spanish language, please contact the City Secretary's Office at 214-670-3738 with a 48 hour advance notice.

Sign interpreters are available upon request with a 48-hour advance notice by calling (214) 670-3738 V/TDD. The City of Dallas is committed to compliance with the Americans with Disabilities Act.

The Council agenda is available in alternative formats upon request.

If you have any questions about this agenda or comments or complaints about city services, call 311.

Rules of Courtesy

City Council meetings bring together citizens of many varied interests and ideas. To insure fairness and orderly meetings, the Council has adopted rules of courtesy which apply to all members of the Council, administrative staff, news media, citizens and visitors. These procedures provide:

- That no one shall delay or interrupt the proceedings, or refuse to obey the orders of the presiding officer.
- All persons should refrain from private conversation, eating, drinking and smoking while in the Council Chamber.
- Posters or placards must remain outside the Council Chamber.
- No cellular phones or audible beepers allowed in Council Chamber while City Council is in session.

"Citizens and other visitors attending City Council meetings shall observe the same rules of propriety, decorum and good conduct applicable to members of the City Council. Any person making personal, impertinent, profane or slanderous remarks or who becomes boisterous while addressing the City Council or while attending the City Council meeting shall be removed from the room if the sergeant-at-arms is so directed by the presiding officer, and the person shall be barred from further audience before the City Council during that session of the City Council. If the presiding officer fails to act, any member of the City Council may move to require enforcement of the rules, and the affirmative vote of a majority of the City Council shall require the presiding officer to act." Section 3.3(c) of the City Council Rules of Procedure.

Información General

El Ayuntamiento de la Ciudad de Dallas se reúne regularmente los miércoles en la Cámara del Ayuntamiento en el sexto piso de la Alcaldía, 1500 Marilla, a las 9 de la mañana. Las reuniones informativas se llevan a cabo el primer y tercer miércoles del mes. Estas audiencias se transmiten en vivo por la estación de radio WRR-FM 101.1 y por cablevisión en la estación *Time Warner City Cable* Canal 16. El Ayuntamiento Municipal se reúne el segundo y cuarto miércoles del mes para tratar asuntos presentados de manera oficial en la agenda para su aprobación. Toda persona que desee hablar durante la asamblea del Ayuntamiento, debe inscribirse llamando a la Secretaría Municipal al teléfono (214) 670-3738, antes de las 5:00 pm del último día hábil anterior a la reunión. Para enterarse del nombre de su representante en el Ayuntamiento Municipal y el distrito donde usted puede votar, favor de llamar a la Secretaría Municipal.

Si necesita interpretación en idioma español, por favor comuníquese con la oficina de la Secretaría del Ayuntamiento al 214-670-3738 con notificación de 48 horas antes.

Intérpretes para personas con impedimentos auditivos están disponibles si lo solicita con 48 horas de anticipación llamando al (214) 670-3738 (aparato auditivo V/TDD). La Ciudad de Dallas está comprometida a cumplir con el decreto que protege a las personas con impedimentos, *Americans with Disabilities Act*. **La agenda del Ayuntamiento está disponible en formatos alternos si lo solicita.**

Si tiene preguntas sobre esta agenda, o si desea hacer comentarios o presentar quejas con respecto a servicios de la Ciudad, llame al 311.

Reglas de Cortesía

Las asambleas del Ayuntamiento Municipal reúnen a ciudadanos de diversos intereses e ideologías. Para asegurar la imparcialidad y el orden durante las asambleas, el Ayuntamiento ha adoptado ciertas reglas de cortesía que aplican a todos los miembros del Ayuntamiento, al personal administrativo, personal de los medios de comunicación, a los ciudadanos, y a visitantes. Estos reglamentos establecen lo siguiente:

- Ninguna persona retrasará o interrumpirá los procedimientos, o se negará a obedecer las órdenes del oficial que preside la asamblea.
- Todas las personas deben de abstenerse de entablar conversaciones, comer, beber y fumar dentro de la cámara del Ayuntamiento.
- Anuncios y pancartas deben permanecer fuera de la cámara del Ayuntamiento.
- No se permite usar teléfonos celulares o enlaces electrónicos (*paggers*) audibles en la cámara del Ayuntamiento durante audiencias del Ayuntamiento Municipal.

"Los ciudadanos y visitantes presentes durante las asambleas del Ayuntamiento Municipal deben de obedecer las mismas reglas de comportamiento, decoro y buena conducta que se aplican a los miembros del Ayuntamiento Municipal. Cualquier persona que haga comentarios impertinentes, utilice vocabulario obsceno o difamatorio, o que al dirigirse al Ayuntamiento lo haga en forma escandalosa, o si causa disturbio durante la asamblea del Ayuntamiento Municipal, será expulsada de la cámara si el oficial que esté presidiendo la asamblea así lo ordena. Además, se le prohibirá continuar participando en la audiencia ante el Ayuntamiento Municipal. Si el oficial que preside la asamblea no toma acción, cualquier otro miembro del Ayuntamiento Municipal puede tomar medidas para hacer cumplir las reglas establecidas, y el voto afirmativo de la mayoría del Ayuntamiento Municipal precisará al oficial que esté presidiendo la sesión a tomar acción." Según la sección 3.3(c) de las reglas de procedimientos del Ayuntamiento.

Handgun Prohibition Notice for Meetings of Governmental Entities

"Pursuant to Section 30.06, Penal Code (trespass by license holder with a concealed handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a concealed handgun."

"De acuerdo con la sección 30.06 del código penal (ingreso sin autorización de un titular de una licencia con una pistol oculta), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola oculta."

"Pursuant to Section 30.07, Penal Code (trespass by license holder with an openly carried handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a handgun that is carried openly."

"De acuerdo con la sección 30.07 del código penal (ingreso sin autorización de un titular de una licencia con una pistola a la vista), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola a la vista."

9:00 a.m. Invocation and Pledge of Allegiance 6ES

Special Presentations

Open Microphone Speakers

VOTING AGENDA 6ES

1. 18-1105 Approval of Minutes of the October 3, 2018 City Council Meeting
2. 18-1106 Consideration of appointments to boards and commissions and the evaluation and duties of board and commission members (List of nominees is available in the City Secretary's Office)

BRIEFINGS 6ES

A. Robotic Delivery Devices

B. Dockless Vehicles Program and Motorized Scooter Ordinance Update

Lunch

Open Microphone Speakers

6ES

The above schedule represents an estimate of the order for the indicated briefings and is subject to change at any time. Current agenda information may be obtained by calling (214) 670-3100 during working hours.

Note: An expression of preference or a preliminary vote may be taken by the Council on any of the briefing items.

EXECUTIVE SESSION NOTICE

A closed executive session may be held if the discussion of any of the above agenda items concerns one of the following:

1. seeking the advice of its attorney about pending or contemplated litigation, settlement offers, or any matter in which the duty of the attorney to the City Council under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with the Texas Open Meetings Act. [Tex. Govt. Code §551.071]
2. deliberating the purchase, exchange, lease, or value of real property if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.072]
3. deliberating a negotiated contract for a prospective gift or donation to the city if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.073]
4. deliberating the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; or to hear a complaint or charge against an officer or employee unless the officer or employee who is the subject of the deliberation or hearing requests a public hearing. [Tex. Govt. Code §551.074]
5. deliberating the deployment, or specific occasions for implementation, of security personnel or devices. [Tex. Govt. Code §551.076]
6. discussing or deliberating commercial or financial information that the city has received from a business prospect that the city seeks to have locate, stay or expand in or near the city and with which the city is conducting economic development negotiations; or deliberating the offer of a financial or other incentive to a business prospect. [Tex Govt. Code §551.087]
7. deliberating security assessments or deployments relating to information resources technology, network security information, or the deployment or specific occasions for implementations of security personnel, critical infrastructure, or security devices. [Tex Govt. Code §551.089]



City of Dallas

1500 Marilla Street
Dallas, Texas 75201

Agenda Information Sheet

File #: 18-1105

Item #: 1.

SUBJECT

Approval of Minutes of the October 3, 2018 City Council Meeting



Agenda Information Sheet

File #: 18-1106

Item #: 2.

AGENDA DATE: October 17, 2018

DEPARTMENT: City Secretary

COUNCIL DISTRICT(S): N/A

SUBJECT

Consideration of appointments to boards and commissions and the evaluation and duties of board and commission members (List of nominees is available in the City Secretary's Office)

Memorandum



CITY OF DALLAS

DATE October 12, 2018

TO Honorable Mayor and Members of the City Council

SUBJECT **Robotic Delivery Devices**

On Wednesday, October 17, 2018, you will be briefed on Robotic Delivery Devices. The briefing materials are attached for your review.

If you have any questions or concerns, please Michael Rogers, Director of Transportation, at 214-671-9596.

A handwritten signature in blue ink, appearing to read 'Majed Al-Ghafry'.

Majed Al-Ghafry
Assistant City Manager

[Attachment]

c: T.C. Broadnax, City Manager
Chris Caso, City Attorney (I)
Carol A. Smith, City Auditor (I)
Biliera Johnson, City Secretary
Preston Robinson, Administrative Judge
Kimberly Bizer Tolbert, Chief of Staff to the City Manager

Jon Fortune, Assistant City Manager
Joey Zapata, Assistant City Manager
Nadia Chandler Hardy, Assistant City Manager and Chief Resilience Officer
M. Elizabeth Reich, Chief Financial Officer
Directors and Assistant Directors

Robotic Delivery Devices

City Council Briefing
October 17, 2018

Michael Rogers, PWLF
Director
Department of Transportation



Presentation Overview

- Definition
- Background/History and Technology
- Purpose: Robotic Delivery Devices Pilot
- Issues/ Operational or Business Concerns
- Operational Impact
- Proposed Action: Vote to Authorize a Pilot
- Next Steps



Background/History

- This item was briefed to the Mobility Solutions, Infrastructure and Sustainability Committee on Monday, August 13, 2018 as “Autonomous Delivery Devices”



Background/History

- Robotic Delivery Devices (RDDs) are being explored as alternative delivery methods for property, goods and food instead of traditional gas powered vehicles

Definition

A “Robotic Delivery Device” is an electronically powered, autonomous vehicle.



Description

A “Robotic Delivery Device” is:

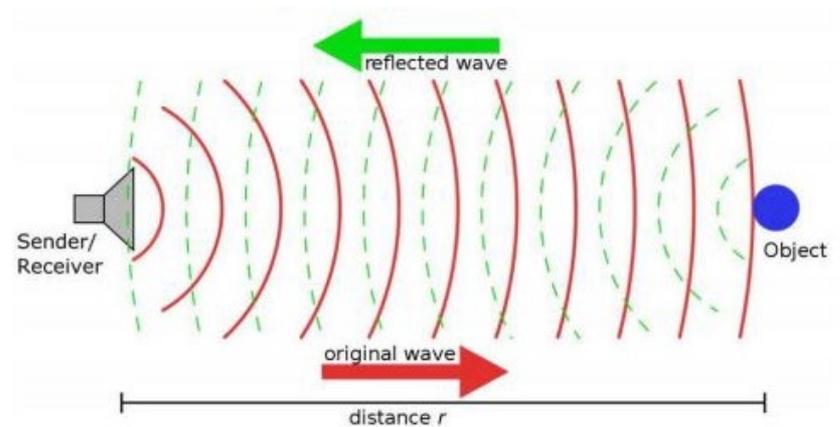
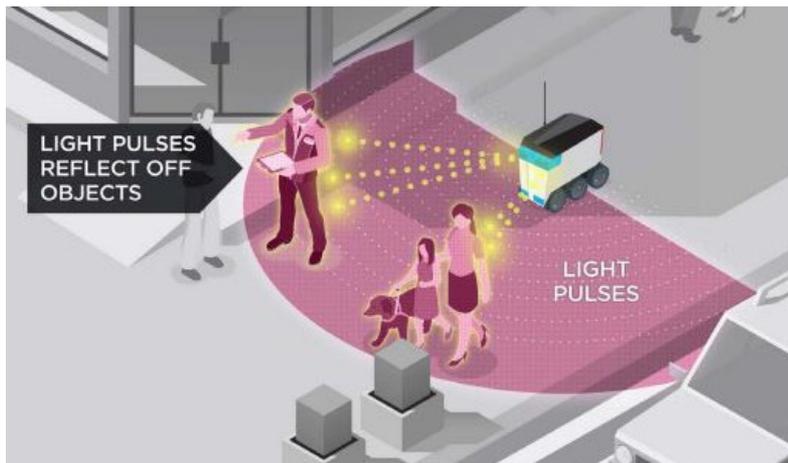
- Used for transporting goods
- No more than 26 inches wide and 48 inches high (similar to wheelchair specifications)
- Operates at a maximum speed of 5 mph



<https://www.youtube.com/watch?v=9gfgD98iCDM&feature=youtu.be>

Technology

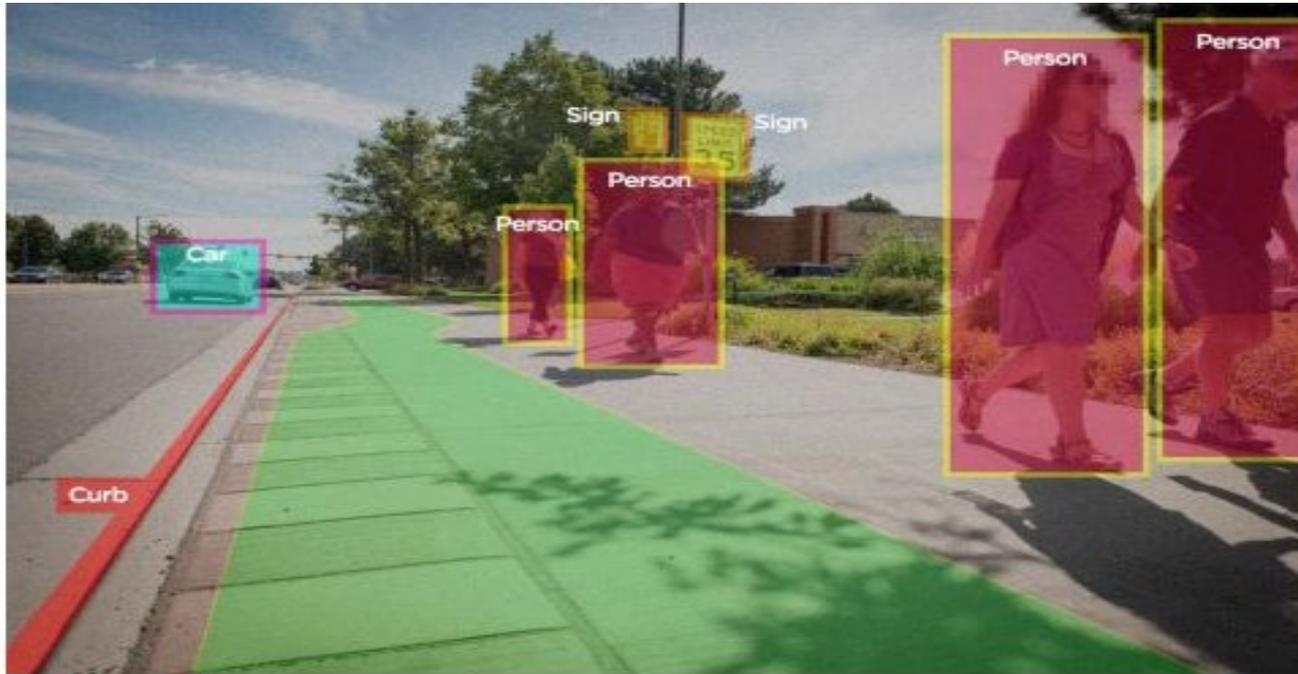
- Sensors allow robots to process a picture of the environment in order to navigate safe pathways.
- Lidar detects how far away the robot is from objects around it.



Source: Public Commons.

Technology

- Cameras detect and identify objects in its path.



Source: OIG.

Operational Benefit

- RDDs reduce the number of delivery vehicles on streets.
 - *Environmental Impact:* RDDs are estimated to reduce annual pollutant emissions by approximately 4,311 metric tons of CO2 per year.
 - *Reduce congestion:* Minimize on-street lanes from Delivery Vehicles parked idling in roadway and on bicycle lanes.

Operational Service

- RDDs reduce delivery costs for business
- RDDs will utilize Dallas owned sidewalks
- RDDs have mapping software which produces 3D maps of sidewalks in the City which are useful for both mobility and ADA planning.

Robotic Delivery Device Pilot

- The RDD pilot in Dallas will be used to assess the utility and effectiveness of a delivery solution.
- Parameters:
 - Limited number of devices
(20 devices per company)
 - Human operator walking behind device, to intervene if necessary
 - Set delivery routes, where there are available and accessible sidewalks

12

U.S. Cities Conducting Pilots

- San Francisco, CA
- Washington, DC
- Austin, TX
- Redwood City, CA
- Arlington, TX
- Concord, CA

International Examples

- Australia
- Switzerland
- Germany
- Portugal
- Estonia

Other Cities Regulations at the Local Level

Locality	Date Enacted	Testing-only Restriction	Speed Limit (mph)	Weight Limit (lbs)	Details
Redwood City, CA ¹⁴⁸	11/13/2016	Yes	10	80	Requires commercial general liability insurance (\$4,000,000), bodily/personal injury insurance (\$2,000,000), property damage liability insurance (\$1,000,000 per accident), plus automobile and workers comp insurance.
Washington, DC (Current) ¹⁴⁹	10/8/2016	Yes	10	50	In case of technology failure, robot must be retrieved by owner within 24 hours.
Washington, DC ¹⁵⁰	(Proposed)	No	10	90	\$1,000,000 public liability and property damage insurance required; \$1,000 permit fee per applicant.
Austin, TX ¹⁵¹	8/10/2017	Yes	10	300	\$1,000,000 general liability insurance.
Concord, CA ¹⁵²	10/3/2017	Yes	10	500	\$4,000,000 bodily injury, personal injury, and property damage insurance \$1,000,000 automobile liability required. This was specifically a pilot run by the company Marble. Starship also has a pilot (approved in July 2017).
San Francisco, CA ¹⁵³	12/5/2017	Yes	3	None	General, automotive, and workman's comp insurance (unspecified amounts); No more than 3 robots per permit holder. Human operator must be within 30 ft.

Source: RARC Report, April 9, 2018

Other Regulations at the State Level

State	Date Enacted	Speed Limit (mph)	Weight Limit (lbs)	Details
Virginia ¹⁵⁴	2/24/2017	10	50	Municipalities can prohibit but not further regulate delivery robots.
Idaho ¹⁵⁵	3/24/2017	10	80	Municipalities may adopt further regulations for the safe operation of delivery robots on sidewalks.
Florida ¹⁵⁶	6/23/2017	10	80	Municipalities may adopt further regulations for the safe operation of delivery robots on sidewalks; \$100,000 commercial general liability insurance requirement.
Wisconsin ¹⁵⁷	6/21/2017	10	80	Municipalities can prohibit but not further regulate delivery robots.
Ohio ¹⁵⁸	6/30/2017 (effective 9/29/2017)	10	90	Municipalities may enact additional regulations that apply to the operation of delivery robots; \$100,000 general liability insurance requirement.

Source: RARC Report, April 9, 2018

15

Proposed Pilot: Rules and Regulations

- Operate on sidewalks, crosswalks and pedestrian walkways approved by the City of Dallas. RDDs will NOT operate on trails.
- Obey all traffic control devices, signs, markings and restrictions established by the Director of Transportation
 - During the pilot, the human operators will navigate the RDDs through intersections. Eventually they will link their software to smart signals to navigate intersections.

16

Proposed Pilot: Rules and Regulations

- Operated in a manner that does not endanger pedestrians, bicyclists and other users of the public space
- RDDs will yield to pedestrians using personal assistive mobility devices, skates, skateboards, scooters and bicyclists.
- System will alert operator to critical technology failures or degraded performance.

17

Proposed Pilot: Rules and Regulations

- RDDs will NOT operate along the pavement side of public roadways, state or county highways. They will only operate on sidewalks and crosswalks.
- RDDs will have identification including the operating companies website address and contact information for public information purposes.

Proposed Pilot: Rules and Regulations

- Limit the devices to 20 per company
- Human operator within 20 feet of the device
- Set delivery routes within specific zones
- Six month pilot from October 18, 2018 - March 18, 2019

Proposed Application Process

- Submit a permit to the City of Dallas, including:
 1. Areas of operation, to be approved by the City
 2. Proof of liability insurance deemed appropriate by the City of Dallas
 3. An application processing fee of \$100 per company

Measures of Pilot Success

- Customer Satisfaction
 - Measured by customer service survey
- Sidewalk Assessment
 - Data from company
- Congestion
 - Number of delivery trips reduced by device
- Number of Complaints/Severity
 - 311 complaints
- Business Partners want to continue

Safety: Accidents

- At this time, there are no reported accidents involving RDDs.
- Pedestrian safety will be monitored throughout the pilot program.

Staff Recommendation

1. Staff recommends that the City Council vote to approve the Robotic Delivery Device Pilot Program for a period of six months from October 2018- March 2019.
2. At the completion of a successful pilot, staff will present findings to the City Council and will recommend next steps.

Robotic Delivery Devices

City Council Briefing
October 17, 2018

Michael Rogers, PWLF,
Director
Department of Transportation



Memorandum



CITY OF DALLAS

DATE October 12, 2018

TO Honorable Mayor and Members of the City Council

SUBJECT **Dockless Vehicles Program and Motorized Scooter Ordinance Update**

On Wednesday, October 17, 2018, you will be briefed on the status of the Dockless Vehicles Program and Motorized Scooter Ordinance. The briefing materials are attached for your review.

If you have any questions or concerns, please Michael Rogers, Director of Transportation, at 214-671-9596.

A handwritten signature in blue ink, appearing to read 'Majed Al-Ghafry'.

Majed Al-Ghafry
Assistant City Manager

[Attachment]

c: T.C. Broadnax, City Manager
Chris Caso, City Attorney (I)
Carol A. Smith, City Auditor (I)
Biliera Johnson, City Secretary
Preston Robinson, Administrative Judge
Kimberly Bizer Tolbert, Chief of Staff to the City Manager

Jon Fortune, Assistant City Manager
Joey Zapata, Assistant City Manager
Nadia Chandler Hardy, Assistant City Manager and Chief Resilience Officer
M. Elizabeth Reich, Chief Financial Officer
Directors and Assistant Directors

Dockless Vehicles Program and Motorized Scooter Ordinance Update

**City Council Briefing
October 17, 2018**

**Michael Rogers, PWLF
Director
Department of Transportation**



Overview

- Dockless Vehicle Program
- Current Operators and Fleet Composition
- 311 Trends and 911 Reports
- Education and Enforcement
- Staff Recommendations
- Next Steps

Dockless Vehicle Program

- In June 2018 the Dallas City Council passed the Dockless Vehicle Ordinance and amended an existing City ordinance to remove a ban on the use of motor-assisted scooters
- Since Ordinance Adoption:
 - Three companies left the Dallas market (Ofo, Mobike, Spin)
 - Lime reduced its bicycle fleet and introduced scooters
 - Bird entered the market with scooters
 - Razor USA entered the market with scooters

Current Operators and Fleet Composition

- Bird
 - 3,000 scooters
- Lime
 - 1,000 bikes
 - 2,000 scooters
- Razor USA
 - 1,000 scooters
- VBikes*
 - 500 bikes

* Permit application is currently under review

4

Data From Operators

- Ridership Data: July 1, 2018 to September 20, 2018

Vehicle Type	Total Number of Trips	Total Distance Ridden (miles)	Average Trip Length (miles)	Average Trip Time (minutes)	Total Number of Vehicles in Service
Scooter	450,514	595,437	1.05	13.23	3,212
Bicycle	31,956	41,973	.65	19.67	632
All Types	482,470	637,410	.85	16.45	3,844

Data provided by Bird and Lime

Data From Operators

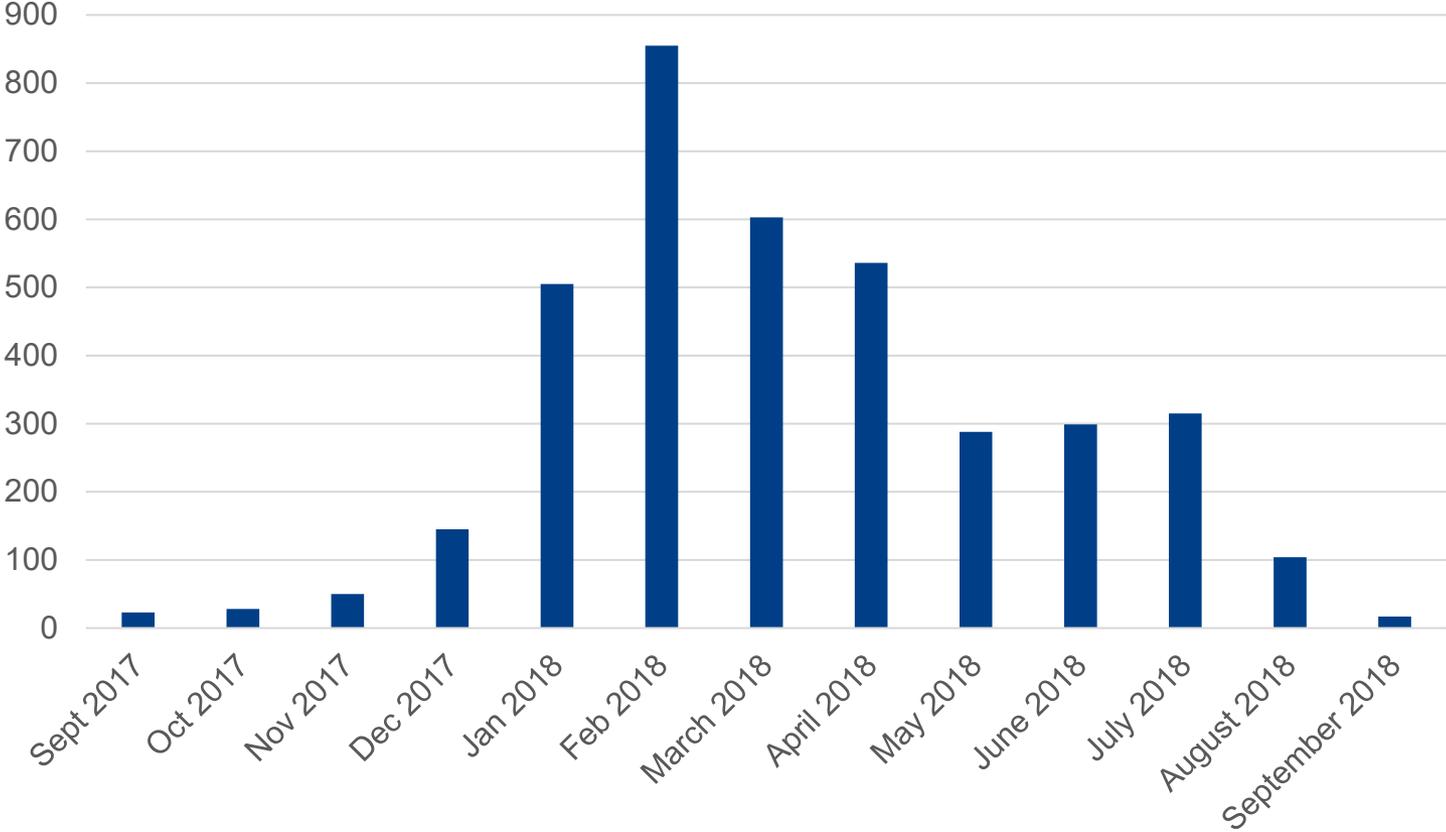
- Ridership Comparison

Vehicle Type	Total Number of Trips	Time Period
Scooter	245,758	Approx: 3 months
Bicycle	481,406	Approx: 11 months

Data provided by Lime

311 Report Trends

Bike Share Comments Received (9/17 - 9/18)

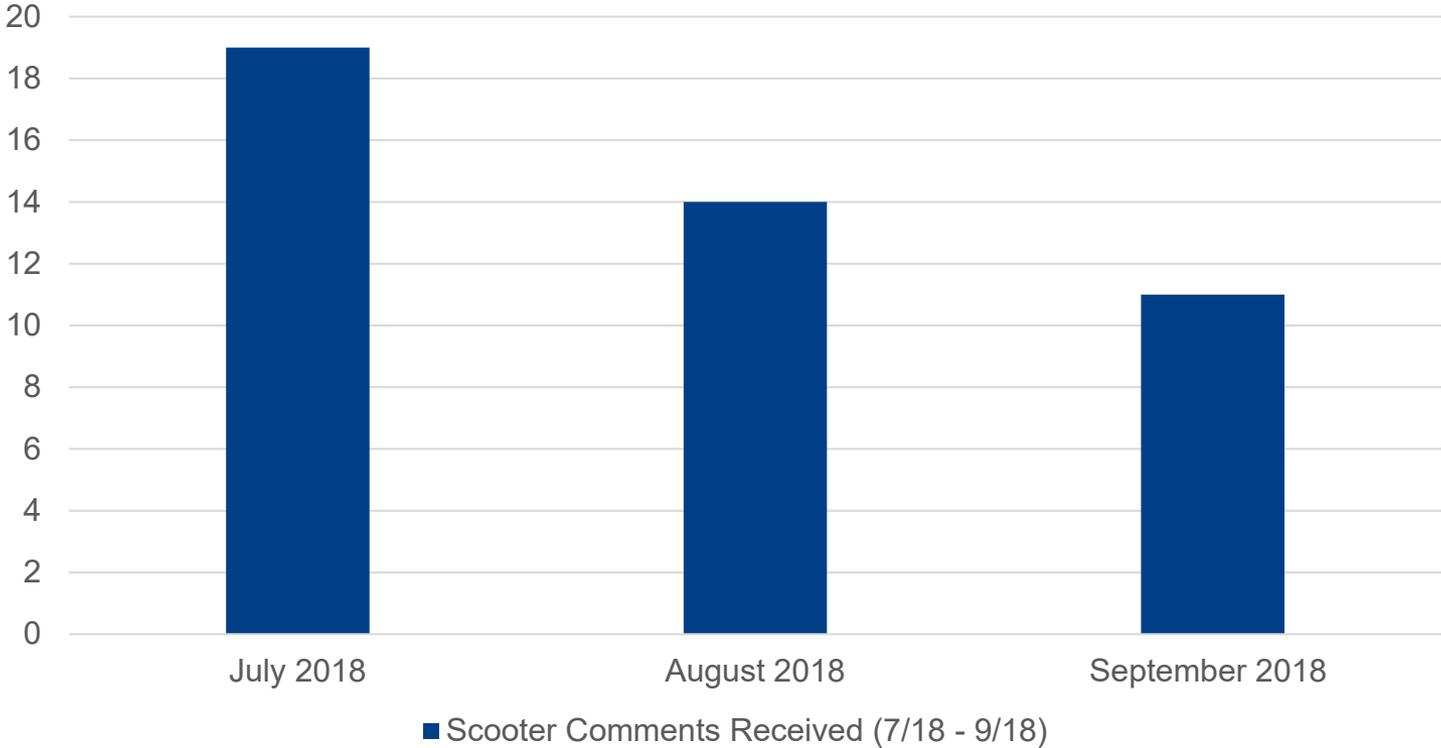


■ Bike Share Comments Received (9/17 - 9/18)



311 Report Trends

Scooter Comments Received (7/18 – 9/18)



911 Reports

- All Reported Crashes since July 1, 2018

	Fatal	Injury	Property Damage Only	Total
Motor Vehicle	23	1,707	3,578	5,308
Motorcycle	5	62	8	75
Pedestrian	8	93	2	103
Bicycle	2	35	6	43
Motorized Scooter	0*	4	0	4
Total	38	1901	3,594	5,533

* Possible incident under investigation

9

911 Reports

- Electronic Patient Care Reports (ePCR)* Involving Bicycles and Scooters (May 2018 – September 2018)

	Bicycle Mentioned	Scooter Mentioned
Noted as Rented	2	1
Unknown if Rented	41	12
Total	43	13

* ePCR is the reporting system paramedics use to document their patient assessment

Enforcement and Education

- Trail Signage
- Public Service Announcements
- Targeted Sweeps
 - Address improperly parked bikes and scooters
 - Provide warnings for improper riding
- Continued coordination with stakeholders and other City departments

Staff Recommendations

- Extend the motorized scooter trial period for an additional six months to:
 - Continue to study key issues related to dockless bikes and scooters
 - Refine education and enforcement strategies
 - Collect ridership data
 - Engage a third party to ensure compliance and evaluate fees and expected performance metrics

Staff Recommendations

- Implement a third party pilot to provide visual & virtual verification of data including, but not limited to:
 - Analyzing and processing data provided by operators
 - Developing deployment/parking strategies
 - Developing a funding model/fee for scooters/enforcement
 - Developing performance metrics aligned with the City's goals of mobility and safety
 - Recommending citation mechanism on ordinance requirements

Next Steps

- Mobility Solutions, Infrastructure & Sustainability Committee, approved a motion on October 8, 2018 to amend the motorized scooter ordinance to extend the duration of the program through June 2019.
- City Council consideration of the proposed motorized scooter ordinance amendment to be placed on a future agenda.
 - If no action, the current ordinance will 'sunset' on December 27, 2018.

Dockless Vehicles Program and Motorized Scooter Ordinance Update

**City Council Briefing
October 17, 2018**

**Michael Rogers, PWLF
Director
Department of Transportation**

