





## Webinar Agenda

2:00 PM Introductions and Agenda Overview - Marcel Porras

2:05 PM Overview of the One Year Permitting Process - Jose Elias

2:15 PM Requirements for MDS Provider Compliance During One Year Permit

- Hunter Owens

2:20 PM Introducing MDS Agency API for the One Year Permit - Todd Petersen

2:35 PM The MDS Sandbox Environment - Sean Holman

3:10 PM How We're Defining MDS Agency Compliance - John Ellis

3:50 PM Wrap Up/Next Steps - Marcel Porras

4:00 PM End

## Overview of the One-Year Permitting Process

### Overview: When does the pilot start?

- January 28: application opened
- February 15: application closes
  - takes 15-20 business days to process
- March 4: begin issuing permits



## Insurance Requirements

- CGL: \$5 million
- Umbrella: \$5 million
- Workers' Comp: \$1 million
- Auto: \$1 million

\*GL: \$5M per occurrence. [Can be satisfied w/a min \$1M CGL w/a policy specific CGL Excess policy of \$4M.]

		Date:	12/21/2018
Agreement/Reference- <u>Dockless On-Demar</u> below, with the specified minimum limits, m Amounts shown are Combined Single Limits I CSL if the total per occurrence equals or exce	ust be submitted an ("CSLs"). For Autom	d approved prior to occupan obile Liability, split limits ma	cy/start of operations.
A CONTROL OF CONTROL O			Limi
_ ✓ Workers' Compensation - Workers' Compensa	ation (WC) and Employer	's Liability (EL)	WC Statutory
☐ ✔Waiver of Subrogation in favor of City	8	Longshore & Harbor Workers Jones Act	EL \$1,000,000
General Liability City of Los Angeles m	nust be named as a	dditional insured	\$5,000,000
Fire Legal Liability		Sexual Misconduct	
✓ Automobile Liability (for any and all vehicles use	ed for this contract, other	er than commuting to/from work)	\$1,000,000
Professional Liability (Errors and Omissions)  Discovery Period  12 Months After Completic	on of Work or Date of	Termination	
Property Insurance (to cover replacement cost	t of building - as determin	ned by insurancecompany)	
Property Insurance (to cover replacement cost  All Risk Coverage Flood Earthquake	t of building - as determin	ned by insurancecompany)  Boiler and Machinery  Builder's Risk	
All Risk Coverage	t of building - as determin	Boiler and Machinery	
All Risk Coverage Flood Earthquake Pollution Liability	8	Boiler and Machinery Builder's Risk	100% of the contract
All Risk Coverage Flood Earthquake  Pollution Liability  Surety Bonds - Performance and Payment (Lab	8	Boiler and Machinery Builder's Risk	100% of the contract
All Risk Coverage Flood Earthquake  Pollution Liability  Surety Bonds - Performance and Payment (La	ibor and Materials) Bo	Boiler and Machinery Builder's Risk	

## **Bond Requirements**

- Performance bond of \$80/vehicle
- Include LLC: dba
- Must be notarized
- Submit bond to cao.insurance.bonds@lacity.org

Bond #\_\_\_\_

#### Contractor's Performance Rond

That I'm LLC: dba		
I nat I/we	1	
as PRINCIPAL(S), and <u>(insert surety bond</u> corporation organized under the laws of the		and duly authorized to
	of California, as SURETY, are held and firml	
Los Angeles, a municipal corporat Two Hundred Forty Thousand & 00/100	tion, as OBLIGEE, in the just	and full sum o
	I money of the United States of America, for the d SURETY bind themselves, their heirs, ex- firmly by these presents.	
THE CONDITION of the forgoing about to enter into a contract, attached hereto, Dockless On-Demand Personal Mobility O	obligation is such that, whereas the above to with said OBLIGEE to do and perform the follone-Year Permit	bounden PRINCIPAL i llowing, to-wit:
as will more fully appear from said contract documents incorporated therein by reference a	, reference to which is hereby made, and whare expressly made a part hereof.	ich said contract and al
addition to the terms of the contract of the wo		on of time, alteration o
NOW, THEREFORE, if the above b to be done under said contract, and shall full conditions of said contract upon its or his part remain in full force and effect. No right of action shall accrue under		form the work contracted the terms, covenants and and void, otherwise to
to be done under said contract, and shall full conditions of said contract upon its or his part remain in full force and effect.  No right of action shall accrue under	rk.  counden PRINCIPAL shall well and truly perf y and faithfully carry out and perform all of t t to be performed, then this obligation to be nu	form the work contracted the terms, covenants and and void, otherwise to
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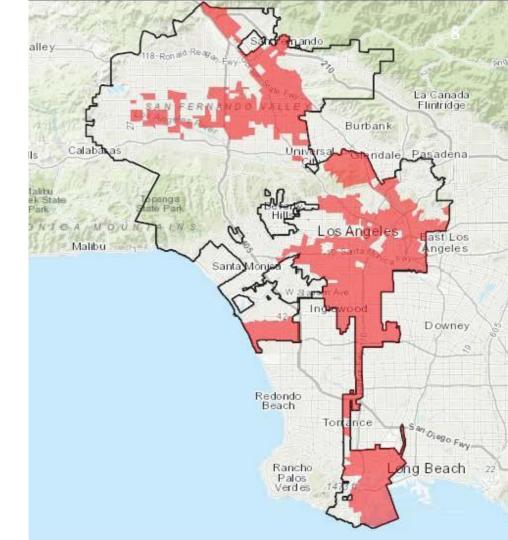


## Sidewalk Riding Prevention

- "No Riding on Sidewalks" required in 48 point font on platform
- User education on app

### Overview: Fleet Size

- 3,000 vehicles max
- + 2,500 in disadvantaged communities
- + 5,000 in the San Fernando
   Valley



## Overview: Equity

- Public engagement plan
- Cash option
- Non-smartphone option
- Low-income plan



#### **Lessons Learned**

- Submit insurance to KwikComply ASAP
- Use Contractor's
   Performance Bond form
  - Bond must be signed and notarized by <u>principal</u> of the company
  - Please see the Execution Instructions for signature on bonds (pg. 43)

Bond #\_\_\_\_

#### Contractor's Performance Bon

KNOW ALL MEN BY THESE PRESENTS:		
That I/we LLC: dba		
as PRINCIPAL(S), and (insert surety bond c	ompany here)	a
corporation organized under the laws of the S		and duly authorized to
transact business under the laws of the State of	California, as SURETY, are held a	and firmly bound unto the city of
Los Angeles, a municipal corporatio		just and full sum of
Two Hundred Forty Thousand & 00/100		
Dollars, (\$240,000,000 ), lawful n	noney of the United States of Amer	ica, for the payment whereof well
and truly to be made said PRINCIPAL and		
successors, and assigns, jointly and severally fir		
THE CONDITION of the forgoing of	bligation is such that, whereas the	above bounden PRINCIPAL is
about to enter into a contract, attached hereto, w Dockless On-Demand Personal Mobility On	ith said OBLIGEE to do and perfor	m the following, to-wit:
Dockless On-Demand Personal Mobility On	e-Year Permit	-
as will more fully appear from said contract, r	eference to which is hereby made,	, and which said contract and all
documents incorporated therein by reference are	expressly made a part hereof.	
The sid CURETY Consideration	I be to start a second	
The said SURETY, for value receive alteration or addition to the terms of the contra-		
its obligations on this bond, and it does hereby		
addition to the terms of the contract of the work		e, extension of time, alteration or
addition to the terms of the contract of the work	8	
NOW, THEREFORE, if the above box	and an DRINCIPAL shall wall and t	mile manforms that would contracted
to be done under said contract, and shall fully		
conditions of said contract upon its or his part to		
remain in full force and effect.	be performed, their this obligation	to be null and void, otherwise to
remain in run roice and crices.		
No right of action shall accrue under the	is bond to or for the use any persor	other than the OBLIGEE named
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Signed and sealed the	day of	A.D. 20
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		11.5
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By .		(Attorney-in-Fact)
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## Q&A

# Requirements for MDS Provider Compliance During One-Year Permit

## One-Year Permit Requirements: MDS Provider Compliance

- Company applies for one-year permit
- If company is already operating
  - a. Check that ETL works
  - b. Issue new third-party client credential
  - Assuming all other requirements met, permit is issued
- If company is not already operating
  - a. Run MDS-Validator on Staging Data
  - b. Confirm staging data is valid
  - c. Go to step 2

#### **FYIs**

For responding to myLA311 requests, user accounts to come during the permit period for your operations staff.

We will be requiring MDS 0.3.0 on provider 90 days after release of 0.3.0.

### MDS 0.3.0 Updates

- Info at: <a href="https://github.com/CityOfLosAngeles/mobility-data-specification/milestone/3">https://github.com/CityOfLosAngeles/mobility-data-specification/milestone/3</a>
- RC set to hit next week
- Features:
  - a. Query Time Fix
  - b. Timestamp change!
  - c. Allow rounding to nearest accuracy unit for GPS
  - d. How to support multiple provider versions
  - e. Agency refactor
  - f. GBFS auto discovery URL
  - g. /service-areas now expresses geofences
  - h. associated\_trips -> associated\_trip
  - i. Much more!

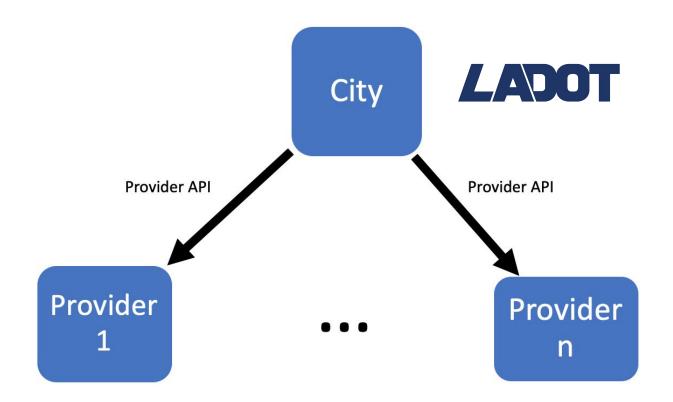
## Q&A

## Summary - Top Three Takeaways

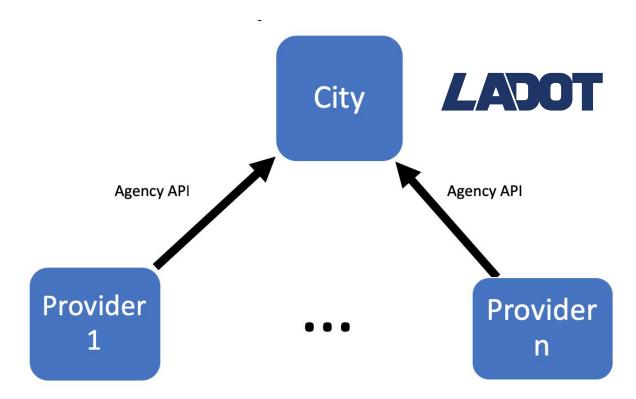
- 1. Submit your permit application early!
- 2. Contact Jose with questions on the one-year application at <a href="mailto:jose.elias@lacity.org">jose.elias@lacity.org</a>
- **3.** Email <a href="mailto:ladot.innovation@lacity.org">ladot.innovation@lacity.org</a> for MDS onboarding/compliance questions

## Introducing MDS Agency API for the One-Year Permit

### **Provider Access**



## City as a Platform



## Fleet Management Workflow

#### **Vehicle Assembly**

## LADOT

## Register Vehicle With Agency

#### Vehicle Deployment

- Receive and assemble vehicle from manufacturer
- Upload new firmware
- Registration of vehicles in your system

#### **Vehicle Registration**

Endpoint: /vehicles

Method: POST

**Body Params:** 

Device\_id Vehicle\_id Propulsion Type Year

- Vehicle Deployment to Right of Way
- Available on the app

## **Deployment Workflow**

#### Vehicle Deployment

## LADOT

## Deploy Vehicle With Agency

#### **Rental Operations**

 Vehicle Deployment to Right of Way

#### **Vehicle Event**

#### Endpoint:

/vehicles/{device\_id}/event

Method: POST

#### Body Params:

```
Event_type = 'service_start'
|| rebalance_drop_off
|| maintenance drop off
```

Start Service

## Start Trip Workflow

#### **Request Rental**

LADOT

## Start Trip with Agency

#### Start Ride

- User requests rental start
- User scans barcode
- Start of reservation

#### **Vehicle Event**

#### Endpoint:

/vehicles/{device\_id}/event

Method: POST

#### Body Params:

Event\_type = 'trip\_start'

- Unlock Vehicle
- Secure Payment
- Notify App

## **Update Telemetry Workflow**

Start Ride || t>=30m || t>=30 sec

LADOT

Update Agency

**End Ride** 

During ride

#### **Telemetry**

#### Endpoint:

/vehicles/telemetry

Method: POST

#### Body Params:

device\_id
timestamp
GPS
charge

- Vehicle
- Settle Payment
- Notify App

## **End Trip Workflow**

Start Ride | | Update Telemetry

LADOT

End Trip With Agency

**End Ride** 

- User requests rental start
- User scans barcode
- Start of reservation
- Update Telemetry

#### **Vehicle Event**

#### Endpoint:

/vehicles/{device\_id}/event

Method: POST

#### Body Params:

Event\_type = 'trip\_end'

- Unlock Vehicle
- Secure Payment
- Notify App

#### **Retrieval Workflow**

#### **Rental Operations**

## Retrieve Vehicle With Agency

#### Removal

 Vehicle Deployment to Right of Way

#### **Vehicle Event**

#### Endpoint:

/vehicles/{device\_id}/event

Method: POST

#### Body Params:

Event\_type = 'service\_end'

• Retrieval from street

## The MDS Agency Sandbox Environment

#### The MDS Sandbox Environment

- Signup is live. Send email to <u>support@ladot.io</u> for an account.
- Sandbox URL: <a href="https://sandbox.ladot.io/agency/dev">https://sandbox.ladot.io/agency/dev</a>
- Admin page: <a href="https://mds.ladot.io">https://mds.ladot.io</a>
- MDS CLI: <a href="https://github.com/CityOfLosAngeles/mds-agency-cli">https://github.com/CityOfLosAngeles/mds-agency-cli</a>

## MDS Agency Sandbox Walkthrough

- Retrieve the LA service areas
- Register a vehicle (using OAuth credentials)
- Start the first trip
- Send telemetry
- End trip
- Other events (pickup/dropoff, low battery, maintenance, etc)

Q&A

## How We're Defining MDS Agency Compliance

## MDS Agency Goals

#### **Initial Compliance Goals**

- 1. Verify that dockless mobility providers have correctly implemented support for MDS Agency (see previous workflows slides 20-25).
- 2. Make sure that individual devices are accurately reporting data per the MDS Agency spec: <a href="https://github.com/CityOfLosAngeles/mobility-data-specification/tree/dev/agency">https://github.com/CityOfLosAngeles/mobility-data-specification/tree/dev/agency</a>
- 3. All dockless mobility providers compliant by April 15

## Mobility Service Provider's Responsibility

- 1) Integrate with MDS Agency APIs and notify LADOT of a supporting mobile app version prior to award of one-year permit.
- 2) Use Agency APIs for all vehicles in use on streets in the City of Los Angeles.
- 3) Make good faith efforts to submit all accurate data described in MDS Agency.
- 4) Continue compliance with MDS Agency APIs over the duration of the one-year permit, including i) new versions of the mobile application you may release; and ii) new versions of the MDS that LADOT may release.

## Testing Integration Compliance: Fleet Management

- 1. Verify the number of vehicles registered against registry endpoint (/vehicles) is consistent with those that report data within (/service\_area).
- 2. Verify that vehicles appearing as *available* in the mobility providers app match those with that status in MDS Agency.
- 3. LADOT reserves the right to verify that vehicles are not deployed (*service\_start, rebalance\_drop\_off, maintenance\_drop\_off*) in service areas that would exceed their respective vehicle cap as defined in the permit. At this time for Agency, Vehicles are measured as the number of vehicles with the status of *available, reserved, trip, or unavailable* within the vehicle registry.

## Testing Integration Compliance: Vehicle Rental

- **1.** LADOT to go and rent a vehicle. LADOT will verify:
  - a. Only vehicles with the status of available or reserved are eligible for rentals.
  - b. At the time of rental start, the Vehicle event endpoint (/vehicles/x/event) shall be called with the event type of *trip\_start* prior to unlocking the vehicle.
- LADOT to end the ride. Validate that:
  - a. At rental end, Vehicle event endpoint (/vehicles/x/event) shall be called with the event type of *trip\_end* within five seconds of rental termination.

## Testing Integration Compliance: Vehicle Trip

- LADOT to ride the vehicle for approximately 10 mins. Validate that:
  - a. During the rental, Update Telemetry endpoint (/telemetry) shall be called with accurate information every 30 meters while vehicle is in motion and 30 seconds while at rest. For providers who do not calculate distance in real-time, a periodic rate of five seconds can be used while vehicle is in motion.
  - b. Telemetry data is required with submissions to the vehicle event endpoint (/vehicles/x/event) including event\_types: service\_start, trip\_start, trip\_end, trip\_enter, trip\_leave, rebalance\_drop\_off, and maintenance\_drop\_off.

## Discussion

## Wrap Up & Next Steps

## End