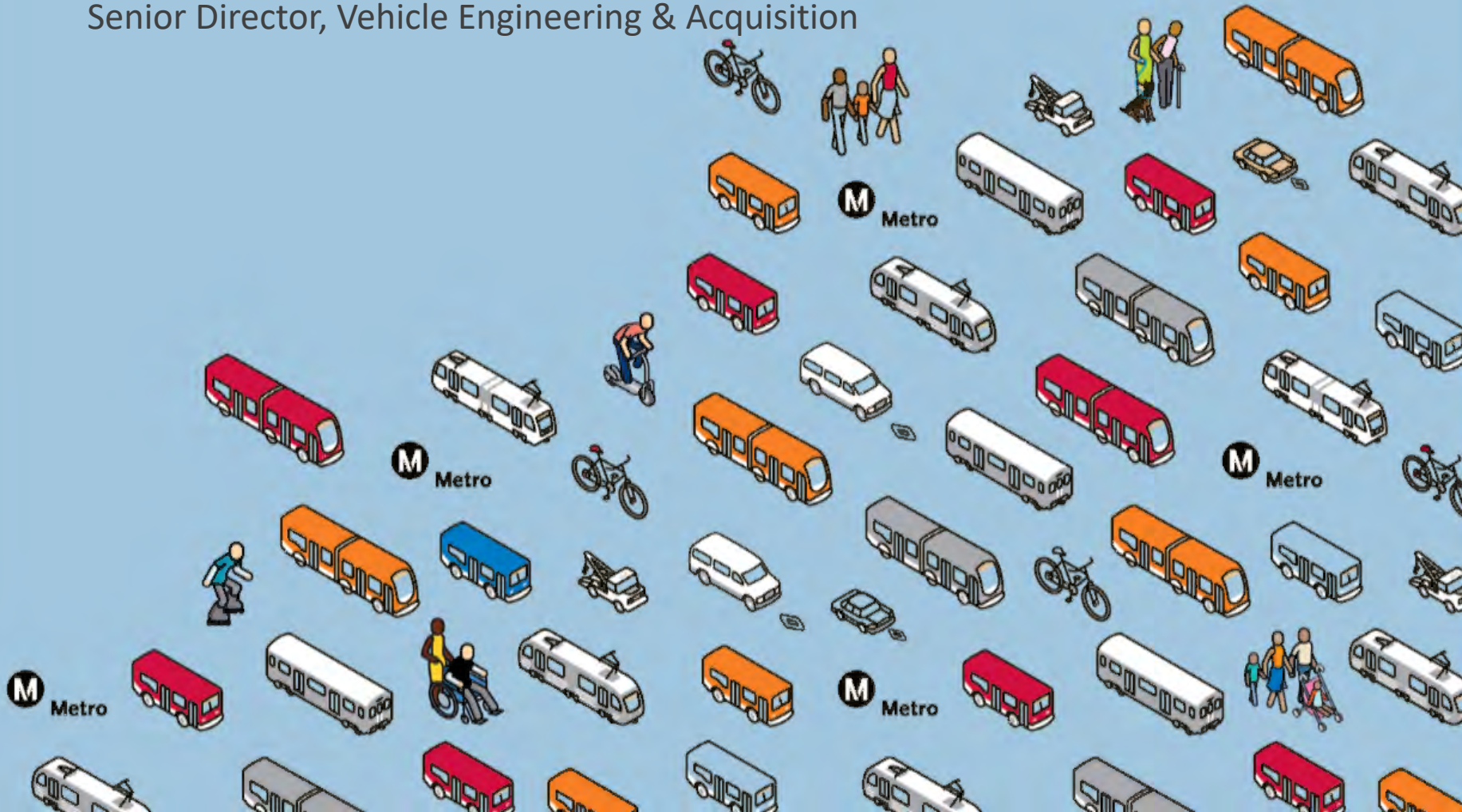


Metro's Battery Electric Bus Overview

2018 Zero Emission Bus Conference (September 10, 2018)
Session 1: Planning Our Zero Emission Future at Scale

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System Overview

- Bus Service
 - Service Area of 1,433 sq. miles
 - 170 Bus Routes
 - Ridership of ~285 Million in 2017
 - Metro has 14 Divisions with 2367 buses
 - 388 60 ft Buses
 - 1979 Non-Articulated Buses
 - 637 45 ft Buses
 - 1292 40 ft Buses
 - 50 32 ft Buses.
 - 3 Divisions are contracted (176 buses)
 - 3 Sub-fleets
 - Red Buses are Rapid
 - Poppy Buses are Local
 - Silver Buses are Express
- (Silver and Orange Line BRTs)



Rapid Bus



Local Bus



Express Bus



Zero Emission Bus (ZEB) Program

- Electrifying 2 Bus Rapid Transit (BRT) Lines
 1. Orange Line: ~7.4 million riders in 2017
 - 40 60 ft. buses covering ~1.9 million miles annually
 2. Silver Line: ~4.4 million riders
 - 45 45 ft. buses covering ~2.5 million miles annually

Line	OEM	Length	Base Order (Option)	Battery Capacity (kW-hr)	Charging Strategy	
					Depot	En-Route
Orange	New Flyer	60'	40 (65)	250	J1772 CCS1 (150 kW)	SAE 3105-1 (450 kW)
	BYD	60'	5	610	BYD AC (200 kW)	
Silver	BYD	40'	60 (40)	348	BYD AC (80 kW)	SAE 3105-1 (300 kW)

- Developing Zero Emission Bus Master Plan
 - Utilize Consultant Services to develop strategies to meet goal of 100% ZE Bus operations by 2030.

