

Metro ExpressLanes FY17 Performance Report (July 1, 2016 to June 30, 2017)

**Agenda Item #7
September 20, 2017**



Metro

Performance Report Summary

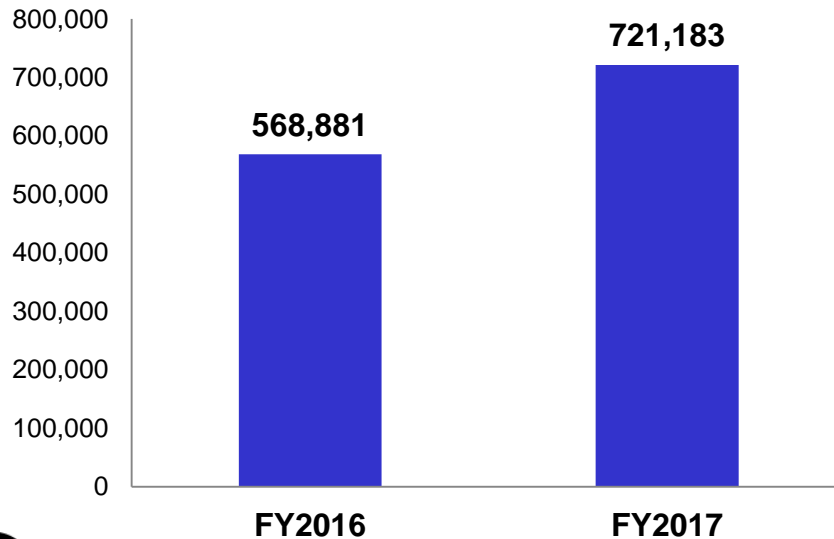
- The report summarizes ExpressLanes performance for Fiscal Year 2017 (FY17)
- Key Findings:
 - ExpressLanes trips are steadily increasing
 - Increased congestion on the 110 Northbound and 10 Westbound during the AM Peak
 - Average corridor travel speeds in the ExpressLanes remain above 45 mph and are 10% higher than the general purpose lane speeds
 - Average Silver Line ridership is down 10% during the AM & PM Peak periods in FY17; however ridership is up 6% since opening the ExpressLanes



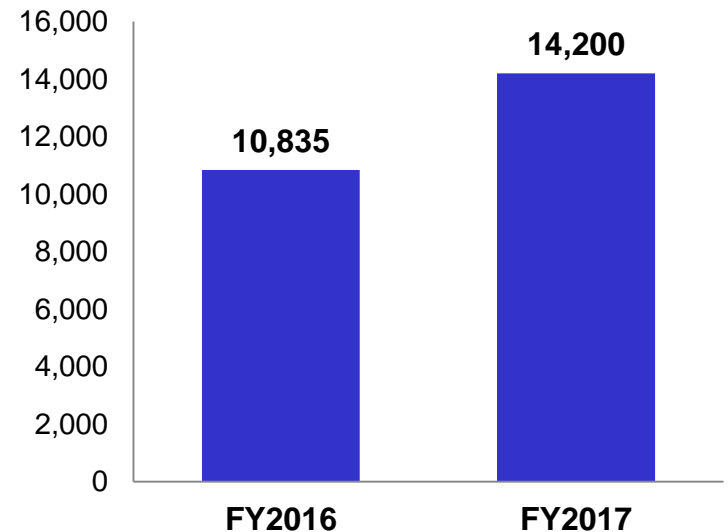
Transponders and New Accounts

- **721,183 transponders issued from inception through June 30, 2017**
 - 152,302 were issued in FY17, a 5% increase over FY16
- **608,784 total accounts opened since inception of the program**
- **14,200 total Low-Income Assistance Plan accounts opened, a 31% increase over FY16**

FasTrak Transponders Issued



Low Income Assistance Plan Accounts Opened

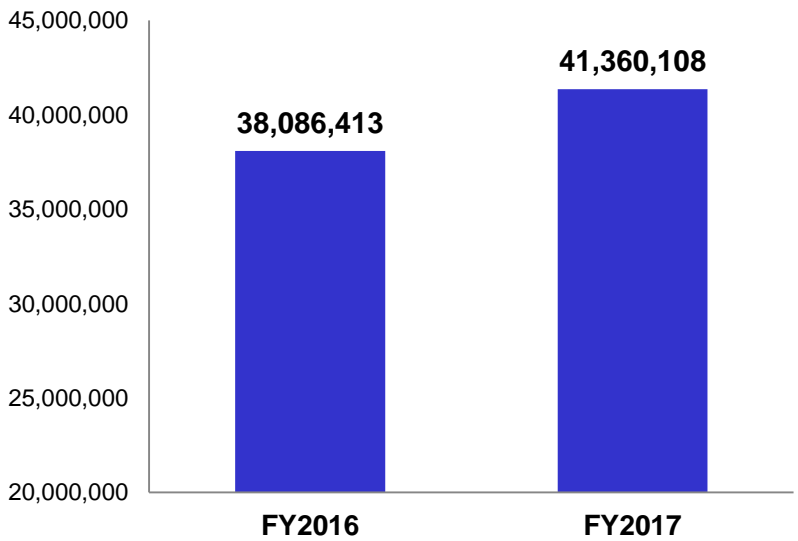


ExpressLanes Trips

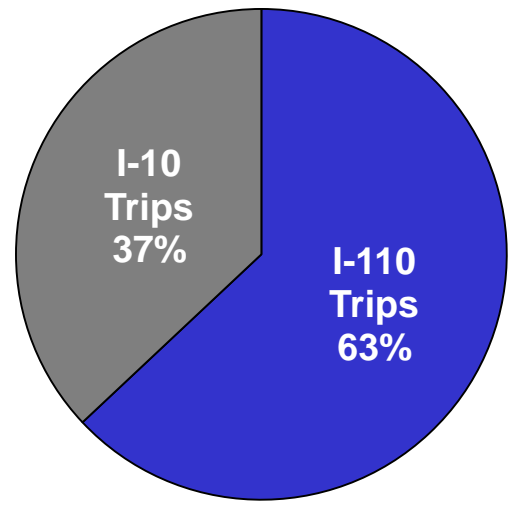
FY17 vehicle trips exceeded 41 million trips; a 9% increase over FY16

- A 7% increase on the I-110 corridor
- An 11% increase on the I-10 corridor

Total ExpressLanes Trips



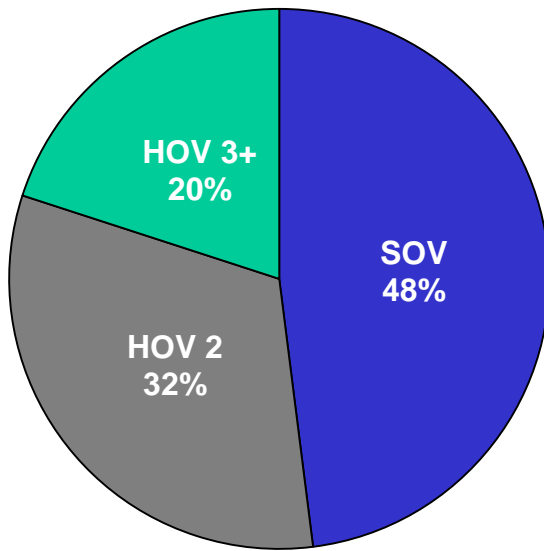
FY17 ExpressLanes Trips by Corridor



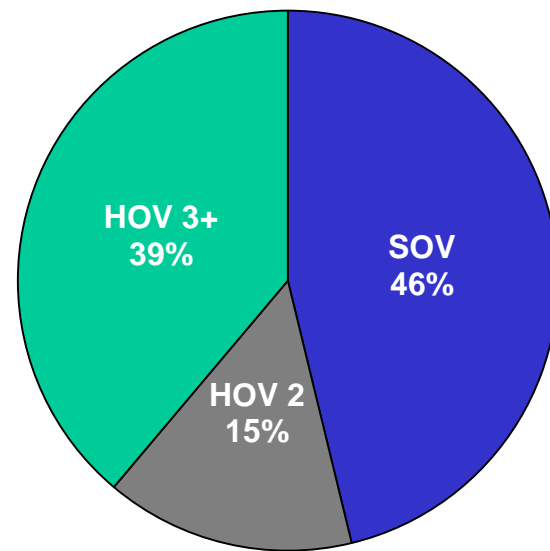
Mode Split

- Most trips in FY17 were carpool trips
- I-10 had a higher percentage of HOV3+ trips

I-110 ExpressLanes



I-10 ExpressLanes



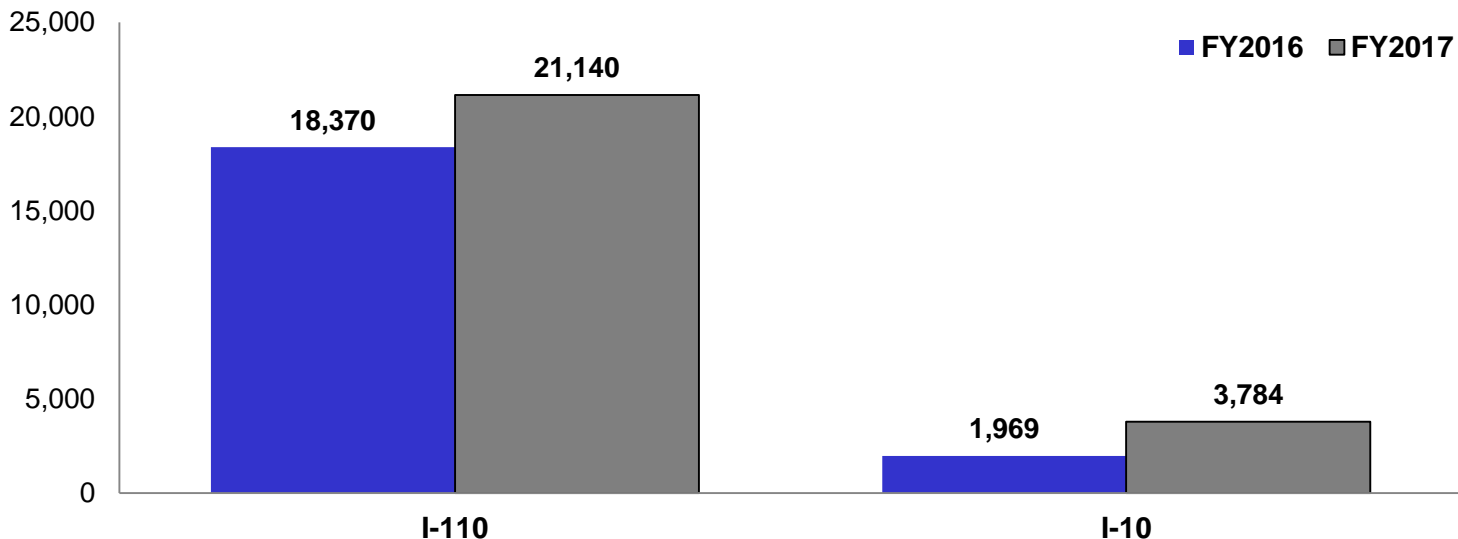
HOV Only Status

AM Peak Period (5AM – 9AM)

To alleviate congestion, the lanes go into ‘HOV Only’ status when vehicle volumes increase to the point where travel speeds fall below 45 mph

- In FY17, the I-110 went into HOV Only status a total of 21,140 minutes, which is a 15% increase over FY16
- In FY17, the HOV Only occurrences on I-10 increased by 92%

HOV Only Minutes by Corridor



HOV Only Status: Improvement Strategies

- To improve the performance of the ExpressLanes during the AM peak, staff will be undertaking a number of projects to reduce the recurrence of HOV Only:
 - Charge a toll to Clean Air Vehicles starting in December 2017 or January 2018;
 - Offer a “Peak of the Peak Incentive Program”; to incentivize customers to change their travel behavior and NOT travel during the peak times;
 - Implement an automated occupancy detection system to ensure consistency between declared occupancy and actual occupancy , expected in FY18 4th quarter;
 - Continue to raise the toll rate, per the Board approved toll policy;
 - Work with Caltrans to determine if it is necessary to raise the carpool minimum occupancy requirement.

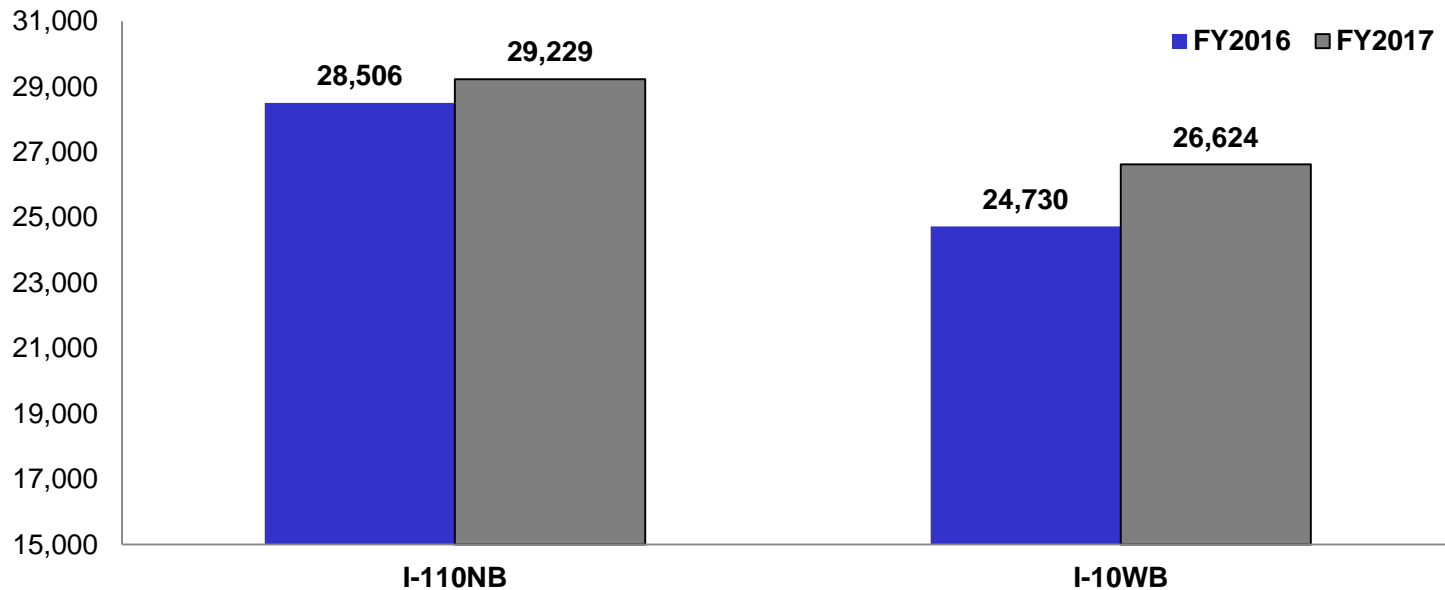
Average Daily Volumes

AM Peak Period (5AM – 9AM)

Average daily vehicle volumes increased by 5% during the AM Peak Period in the Peak Directions

- **3% increase on I-110NB**
- **8% increase on I-10WB**

ExpressLanes Average AM Peak Vehicle Volume - Peak Directions

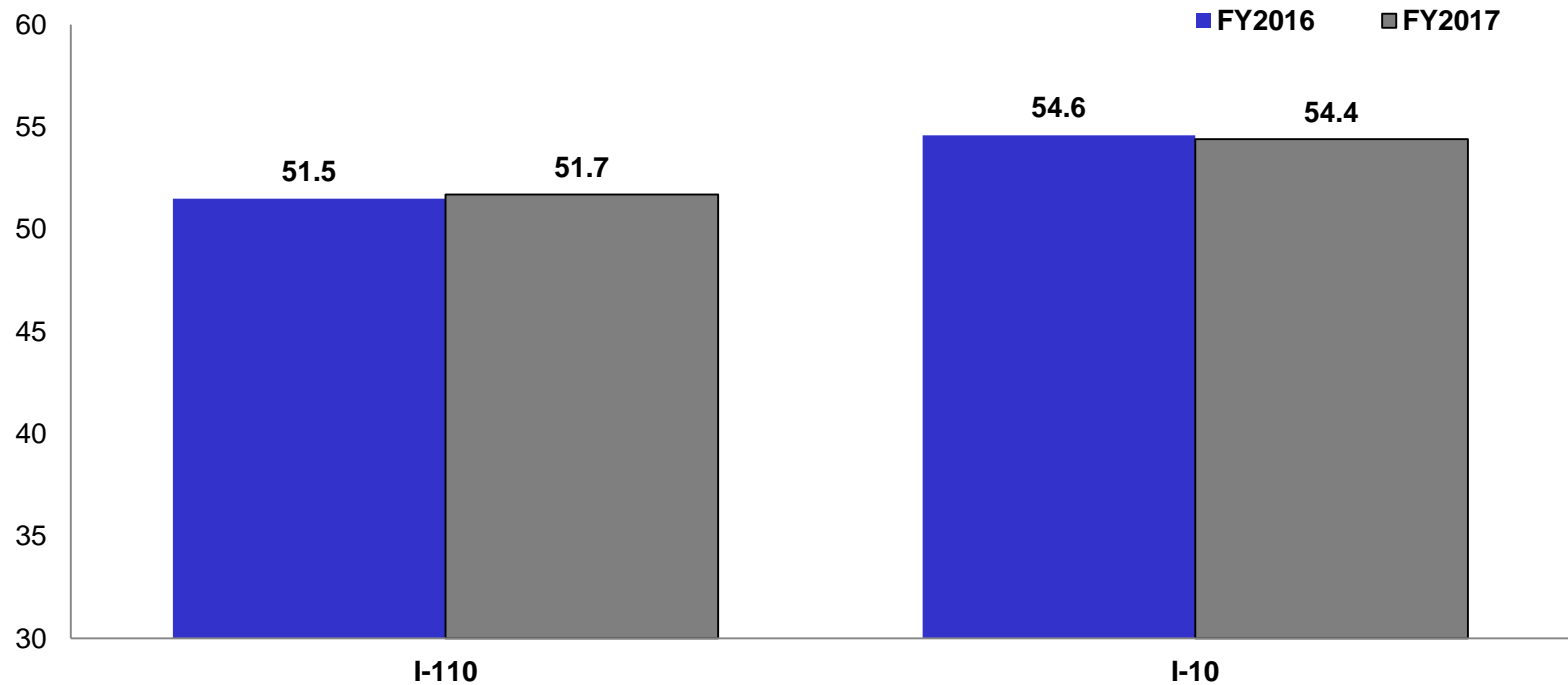


ExpressLanes Travel Speeds

AM Peak Period (5AM – 9AM)

Average weekday AM Peak Period travel speeds were maintained in FY17 despite increased vehicle volumes

Average ExpressLanes Speeds (mph) – AM Peak Period



Next Steps

- **Additional operational improvements Metro will implement to reduce congestion on the ExpressLanes:**
 - Mobile App development to allow customers with Metal Oxide windshields to declare occupancy (3rd quarter FY18)
 - Occupancy Enforcement Beacon lights will be upgraded to aid CHP in enforcement (4th quarter FY18)
 - New CCTV Cameras will be installed to improve real-time traffic monitoring (2nd quarter FY18)
 - New toll gantries to improve toll collection and violation enforcement (2nd quarter FY19)
 - Channelizers (tall pylons) to improve lane access management to reduce the occurrence of unsafe and illegal maneuvers into and out of the ExpressLanes (1st quarter FY18 for I-110; 3rd quarter FY18 for I-10)