

The logo for samTrans, featuring the text "samTrans" in a bold, sans-serif font. The "a" and "m" are lowercase, while "T", "r", "a", and "n" are uppercase. Below the text are two horizontal bars: a red one on top and a blue one on the bottom.

# Mobility Management: Fixed-route Bus Service

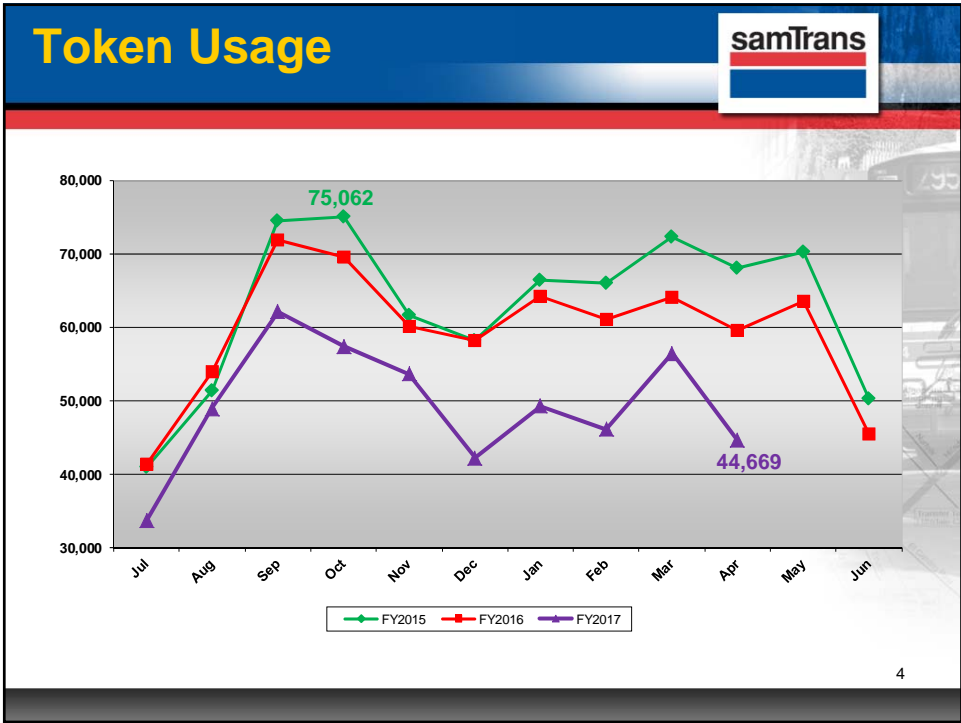
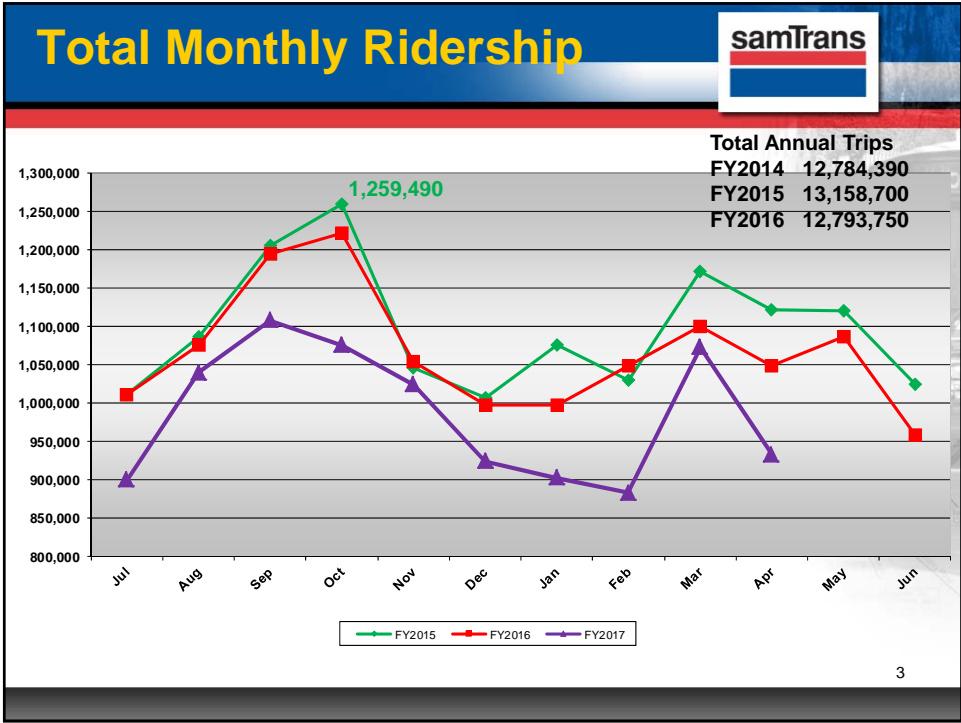
Community Relations Committee  
June 7, 2017  
Agenda Item 6

## Fixed-route Bus Service

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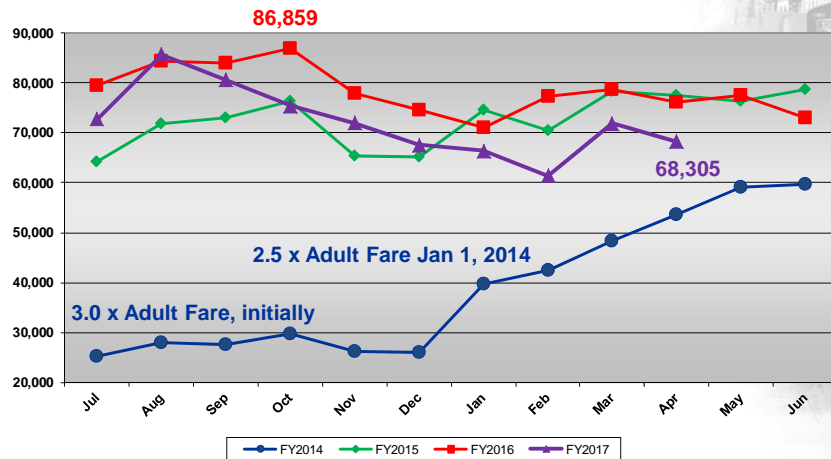
- Performance Statistics
- Ridership Comparison
- Service Quality
- Bus Inventory
- New Bus Features
- Emission Reductions
- Innovative Clean Transit
- Electric Bus Procurement
- Continuing Improvement
- Summary





## Day Pass Usage

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## Bus Ridership Comparison

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YTD Bus Ridership for 9-months ended March (000)

	<u>FY 2016</u>	<u>FY 2017</u>	<u>Decrease</u>	
SamTrans	9,984	9,206	-778	-7.8%
A/C Transit	38,535	37,741	-794	-2.1%
GGBHTD/Marin	4,924	4,464	-460	-9.3%
Sacramento RTD	9,212	8,070	-1,142	-12.4%
San Diego	48,370	41,680	-6,690	-13.8%
San Francisco Muni	125,552	114,299	-11,253	-9.0%
Santa Clara VTA	24,736	22,097	-2,639	-10.7%
Austin, TX	23,561	22,104	-1,457	-6.2%
Minneapolis-St. Paul	54,168	52,559	-1,609	-3.0%
New York City	585,728	560,430	-25,298	-4.3%
Seattle, WA	119,286	117,774	-1,512	-1.3%
National	7,649,663	7,351,655	-298,008	-3.9%

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# Bus Ridership Comparison

samTrans

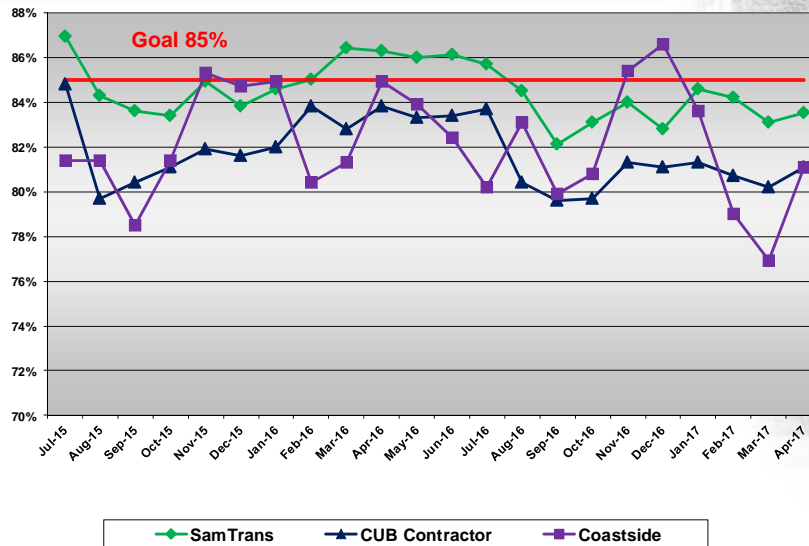
YTD Bus Ridership for 9-months ended March (000)

	<u>FY 2013</u>	<u>FY 2017</u>	<u>Decrease</u>	
SamTrans	9,554	9,206	-348	-3.6%
A/C Transit	40,898	37,741	-3,157	-7.7%
GGBHTD/Marin	4,954	4,464	-490	-9.9%
Sacramento RTD	10,145	8,070	-2,075	-20.5%
San Diego	47,268	41,680	-5,588	-11.8%
San Francisco Muni	119,009	114,299	-4,710	-4.0%
Santa Clara VTA	24,441	22,097	-2,344	-9.6%
Austin, TX	26,138	22,104	-4,034	-15.4%
Minneapolis-St. Paul	60,929	52,559	-8,370	-13.7%
New York City	593,455	560,430	-33,025	-5.6%
Seattle, WA	112,892	117,774	+4,882	+4.3%
National	7,645,669	7,351,655	-294,014	-3.8%

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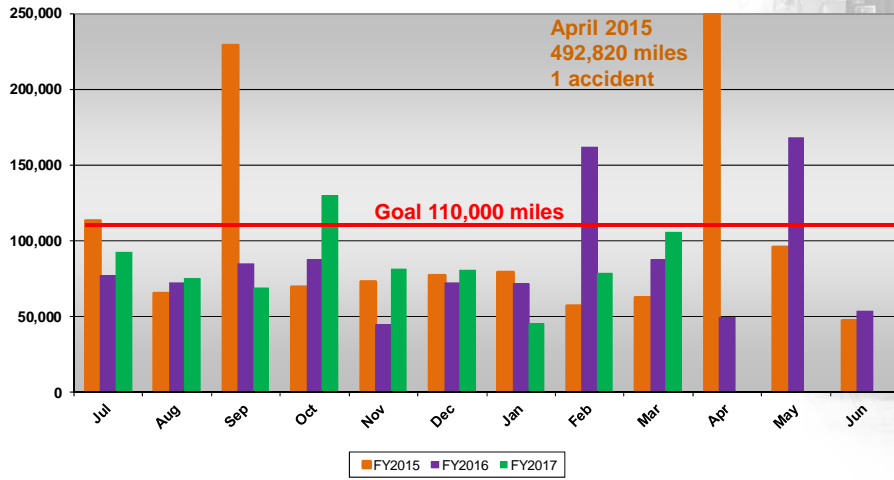
# On-time Performance

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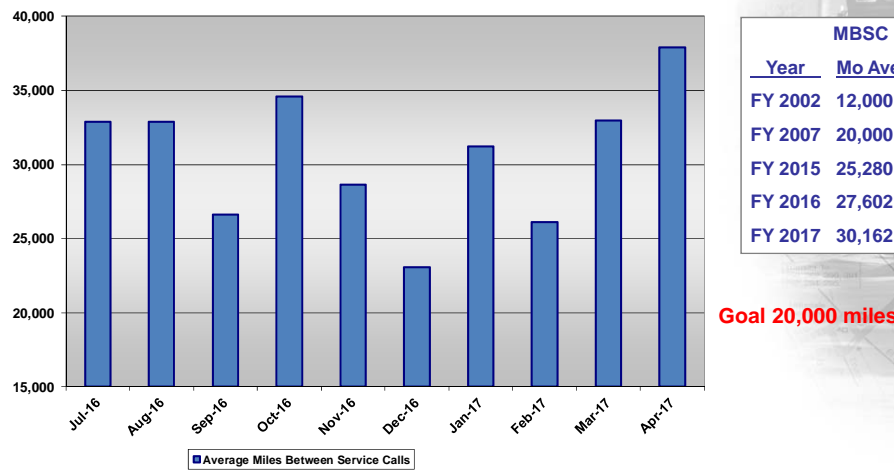


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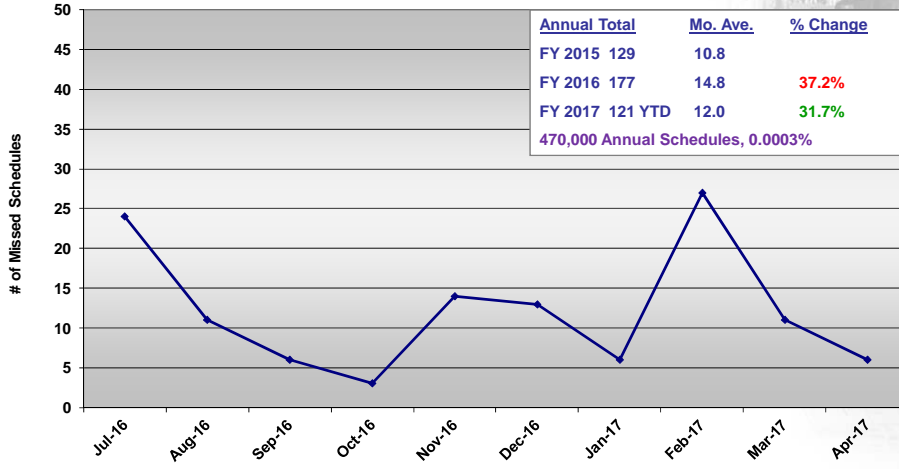
# Miles Between Accidents



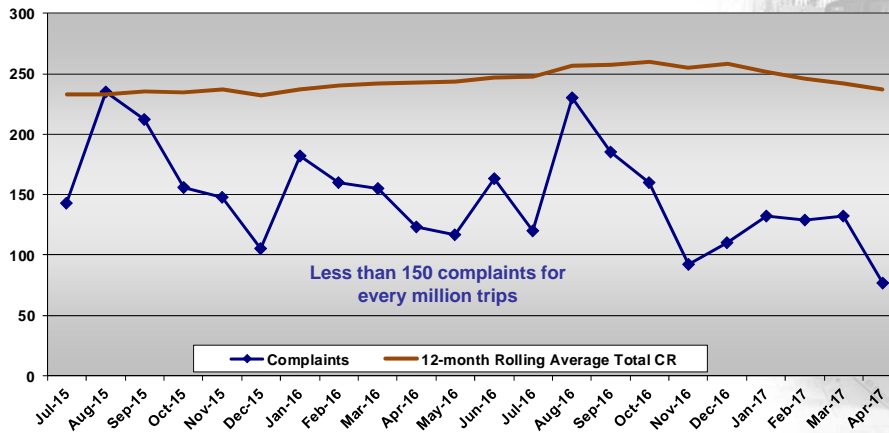
# Fixed-route Fleet Reliability



# Missed Schedules



# Consumer Reports



# Bus Inventory

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<u>No.</u>	<u>Year</u>	<u>Model</u>	<u>Ave. Fleet Age Years</u>
55	2002	NABI 60'	2017 9.3
50	2003	Gillig 40'	2018 8.0
91	2009	Gillig 40'	2019 6.1
40	2009	Gillig 35'	
4	2009	Gillig 29'	
4	2013	Gillig 29'	
25	2013	Gillig 40' Hybrid	
21	2014	Gillig 40'	
12	2014	Gillig 29'	

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# New Bus Features

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Safety lights



ThermoGuard window



Door controller



Camera system



50 new Gillig buses, 40-foot diesel low floor \$504,000 each.

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## Emission Reductions

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### Urban Bus Rule 1999

- Implications
- Strategies, demonstrations
  - VTA 2004 - 3 Hydrogen fuel cell buses
  - AC Transit 2007 - 12 Hydrogen Hybrid fuel cell buses

Reductions:	<u>Baseline 2002</u>	<u>2017</u>	<u>% reduced</u>
	g/bhp-hr	g/bhp-hr	
NOx	1,691	359.50	79%
PM	57	3.03	95%

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## Innovative Clean Transit

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### 2000 Fleet Rule for Transit Agencies adopted

- Required demonstration of zero-emission buses

### 2009 Air Resources Board Resolution 09-49

- Suspend implementation of purchase requirement
- Conduct technology assessment
- Set criteria for zero-emission bus purchase

### 2015 CARB “technology assessment”

- Battery and fuel-cell electric buses commercially ready for transit service

California Environmental Protection Agency

 **Air Resources Board**

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## Electric Bus Procurement

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### Transition

- Infrastructure (charging stations)
- Training for Bus Operators, Mechanics and 1<sup>st</sup> Responders
- Tooling and inventory
- Electric power supply contracts



### Opportunities

- Clean power (zero emissions)
- Smooth & quiet operation
- Estimated lower maintenance costs
- Extended range - versatility & flexibility
- Path to autonomous vehicles



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## Continuing Improvement

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### Improve efficiency by evaluating:

- Low performing routes
- Need for additional service
- New area service options
  - Express semi-express service
  - Pilot service (#399 Owl service to SFO, #78 to Woodside)
  - Express service/fares
- How service is provided
  - Service delivery by location
  - Deadhead miles
  - Distribution of contracted services

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## Summary

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- Service quality remains high
- National trend is representative of declining ridership
- SamTrans ridership decline is slowing
- New buses arriving
- Emissions reducing
- Continuing improvement
  - Partnership with TNCs
  - Match service to customer travel needs
  - Identify new service area opportunities
  - Evaluate fare structure and the possibility of express fares/service (2019)