

Strategic and Policy Planning Study

All Electronic Tolling

Phase 3 – Design Update

March 8, 2012



James Gallagher Chief Toll Operations Officer



Goals and Purposes

- Review and renew technology
- consider future tolling at TCA
- Evaluate future operational costs
- optimize investments and cost savings
- Consider alternative toll payment methods
- introduce License Plate Tolling (LPT)
- Offer Open Road Tolling to all customers
- eliminate plaza queuing and improve safety levels
- Extend environmental responsibility
- reduce air pollution



Strategic and Policy Planning Study

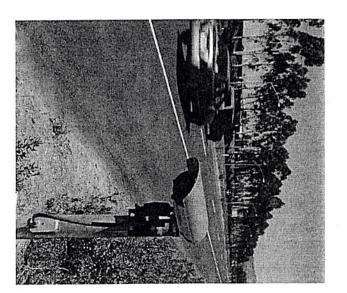
toll collection is designed and executed in four phases The Strategic and Policy Plan for technological advances in

- Started in FY 2010
- Completed assessment of current tolling system and policies
- Phase 1 Tolling Alterative Study completed September 2010
- Phase 2 All Electronic Tolling Feasibility Study completed May 2011
- Phase 3 All Electronic Tolling Planning and Design decision point FY13 Budget
- Phase 4 All Electronic Tolling Implementation scheduled completion October 2013



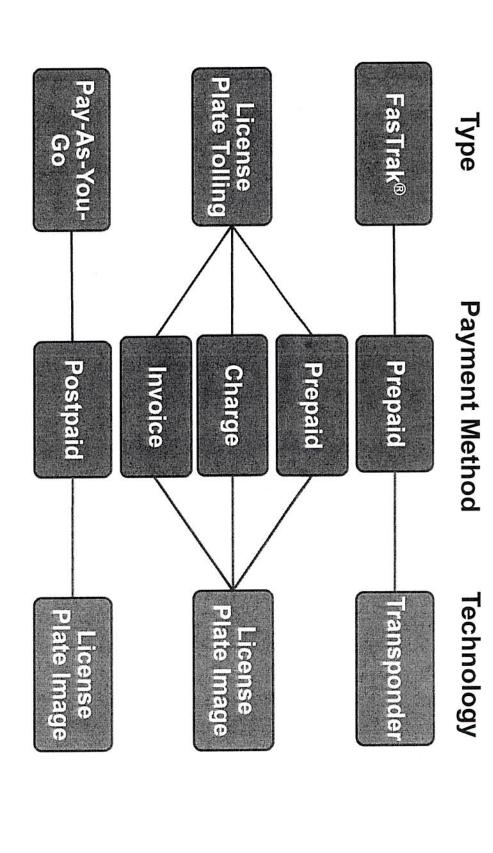
All Electronic Tolling

- Upgrade of tolling technology: reduce complexity of system and software
- Operational cost savings: elimination of cash collection
- Maintenance cost savings: reduction of lanes and equipment per lane and retire cash collection equipment
- Capital cost savings: replacement of aging equipment in fewer lanes
- More flexibility: toll rate structure
- Nonstop tolling: increased safety and decreased pollution





New Options to Pay Toll





All Electronic Tolling Upgrade Projections

Traffic Distribution

AET	Current System	
82.7%	80.6%	FasTrak
0%	16.6%	Cash
12.3%	0%	무
1.6%	1.3%	Pursuable Violations
2.2%	1.5%	Non- Pursuable Violations
1.2%	0%	Diversion Rate

- Supporting analysis from:
- Two cash customer surveys; detailed analysis
- Operational cost modeling
- Other agencies' conversion experiences
- Qualitative focus group feedback



All Electronic Tolling Upgrade Projections (in millions)

Net Revenue and Cost

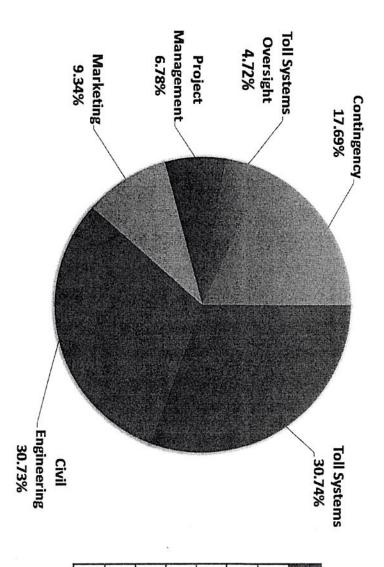
AET	Current System	First Year
\$13.98	\$18.80	Projected Capital Investment
\$201.9	\$204.6	Revenue
\$31.4	\$35.4	Operating Costs
\$170.5	\$169.2	Net Revenue

AET	Current System	5-Year
\$13.98	\$18.80	Projected Capital Investment
\$1,106.2	\$1,122.1	Revenue
\$172.5	\$196.3	Operating Costs
\$933.4	\$925.8	Net Revenue
\$919.4	\$907.0	5-year cumulative impact *

Net revenue less investment cost



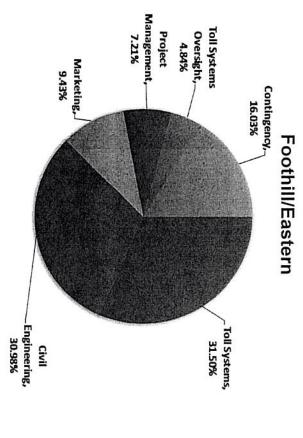
Foothill/Eastern and San Joaquin Hills



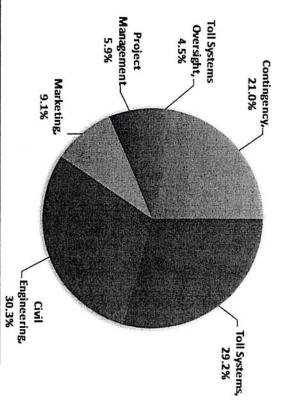
\$13,979,065	Total
\$ 2,473,317	Contingency
\$ 660,000	Toll Systems Oversight \$
\$ 948,000	Project Management
\$ 1,305,000	Marketing
\$ 4,296,278	Civil Engineering
\$ 4,296,470	Toll Systems
Investment	Description



All Electronic Tolling Upgrade



San Joaquin Hills



Description	F/E Investment	SJH Investment	Combined
Toll Systems	\$ 2,919,750	\$ 1,376,720	\$ 4,296,470
Civil Engineering	\$ 2,871,172	\$ 1,425,106	\$ 4,296,278
Marketing	\$ 874,349	\$ 430,651	\$ 1,305,000
Project Management	\$ 668,439	\$ 279,561	\$ 948,000
Toll Systems Oversight	\$ 448,800	\$ 211,200	\$ 660,000
Contingency	\$ 1,485,534	\$ 987,783	\$ 2,473,317
Total	\$ 9,268,044	\$ 4,711,021	\$ 13,979,065

Next Steps

March 2012

- Complete market survey and analysis
- Complete program budget work FY13 Budget cycle
- Issue Cash Payment Network RFP
- Advance civil design work

April 2012

- Market research update
- Complete equipment and services procurement approach
- Refined analysis of traffic and revenue by Stantec
- Advance civil design work
- Progress update to Boards of Directors

May 2012

- Wrap up system designs, procurement matters, scheduling coordination
- Progress update to Boards of Directors
- Finalize marketing program



Phase 4: Project Schedule

		Adver	awa	Adver	Adver		Jul	2012	_
		Advertise, negotiate award contract	award contracts	Advertise, negotiate	Advertise, negotiate		Aug		_=
		otiate act	cts	otiate	otiate		Sep		
	FasTr		_ Equilo	Ī	Back		Oct		-
	FasTrak Campaign		Equip Procurement	Design	Back Office Design		Nov		- 3
	paign		ment	180	Back		Dec		- 9
Personnel Transition Planning				Laı	Back Office Implementation & Test		Jan	2013	-33
nel Trar			_ 	ne/Plaza	mpleme	Oversight & Test	Feb		-
sition		Civil	Equipment Installation	/Host Im	ntation 8	ht & Te	Mar		
Plannin	Cash	Civil Construction	Installat	plement	k Test	st 18	Apr		License I Col
	Cash Conversion Campaign	ıction	ion	Lane/Plaza/Host Implementation & Test			May		Start License Plate Tolling Collection
	sion Car			est			Jun		ng
	npaign			De			'n		
	Aware		La	commiss			Aug		Co G G m
	Awareness Campaign		Lanes	Decommissioning Cash			Sep	74	End Cash Collection
	npaign) Jash			Oct		

Civil

Toll Systems Oversight & Test

Toll System

Transition

Marketing