RHODE ISLAND TURNPIKE AND BRIDGE AUTHORITY

Tolling Options





Introduction

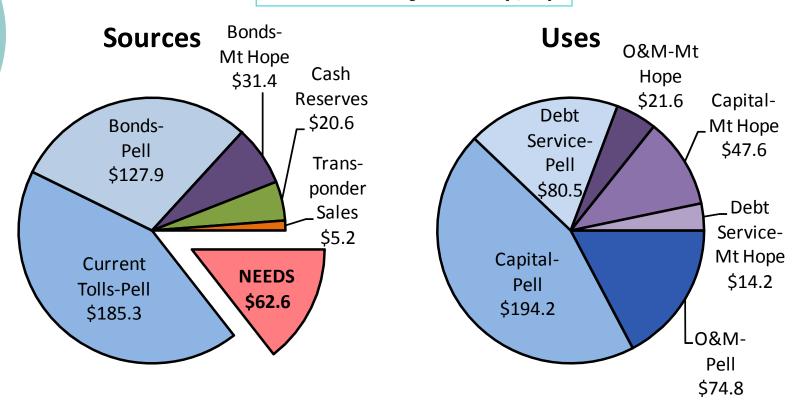
- Jacobs completed several traffic and revenue studies, available on <u>www.ritba.org</u>:
 - A 2010 traffic and revenue study for the Pell Bridge to support the Bond Sale
 - A 2010 Mt. Hope toll feasibility study
 - Recent updates of T&R for each bridge
- Since 1998, upkeep of Mt. Hope has been paid by Pell Bridge tolls
- Funding gap requires:
 - Additional borrowing
 - Additional revenue

Projected 10-Year Capital Plan

- \$200.2M for Pell Bridge
 - Painting of superstructure \$102.7M
 - Steel superstructure repairs/retrofits \$15.4M
- \$49.7M for Mt Hope Bridge
 - Painting & steel repairs \$20.4M
 - Roadway deck pavement replacement \$5.4M

Sources and Uses of Funds, Current Tolls

10-Year Projection (\$M)



Total: \$432.9M Total: \$432.9M

Note: \$6.1M in capital expenditures for the Pell Bridge and \$2.0M for the Mt Hope Bridge are considered to be annualized costs and have been categorized as O&M above.

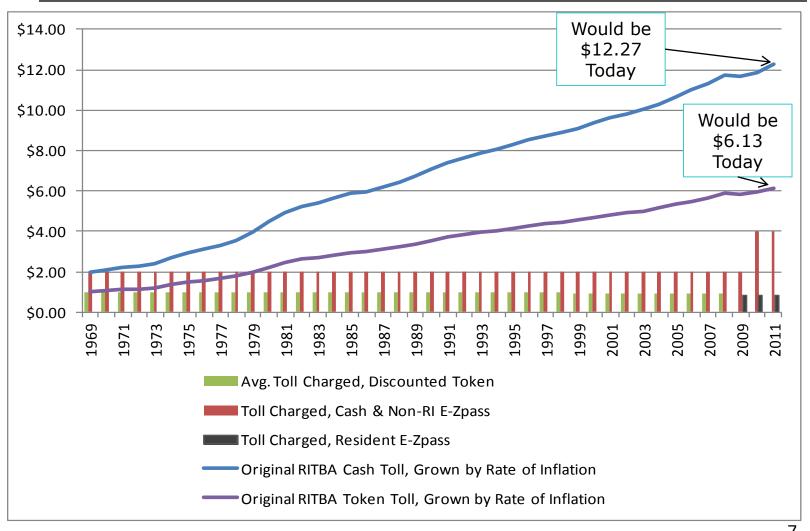
History of the Newport Pell Bridge

- Completed in 1969
- \$2.00 car cash toll until Sept. 2009, when it was raised to \$4.00
- \$1.00 per token until early 1998; afterwards, only sold in bulk:
 - \$0.91 -11 trips cost \$10 when token roll purchased
 - \$0.83 -60 trips cost \$50 when purchased in bulk
- E-ZPass introduced in Dec. 2008; tokens discontinued soon after
- Residents with RI E-ZPass pay reduced rate of \$0.83. Frequent users with RI E-Zpass can also receive discounts
- Non-RI E-ZPass customers pay cash rate

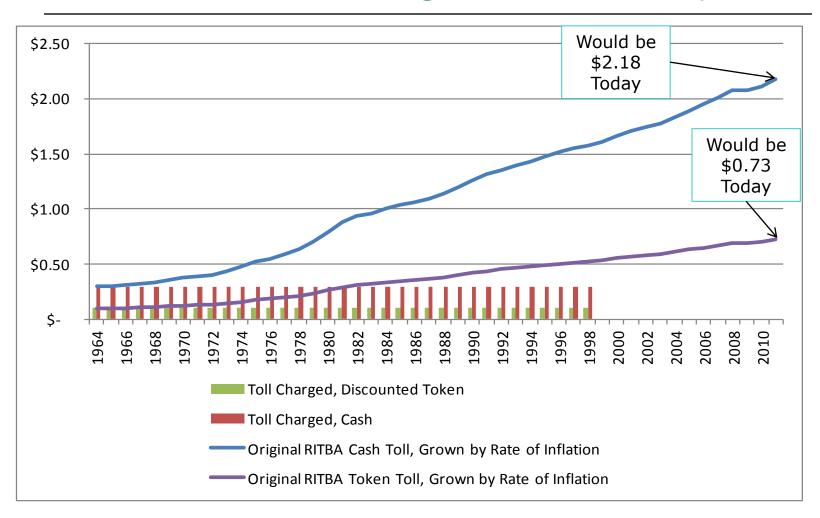
History of the Mt. Hope Bridge

- Built as a private toll bridge in 1929
- Bridge acquired by state in 1955
- RITBA took over ownership of the bridge in 1964
- Tolling ended in May 1998
- For the entire 38 years 1964-1998, tolls were \$0.30 for passenger cars and \$0.10 for token users

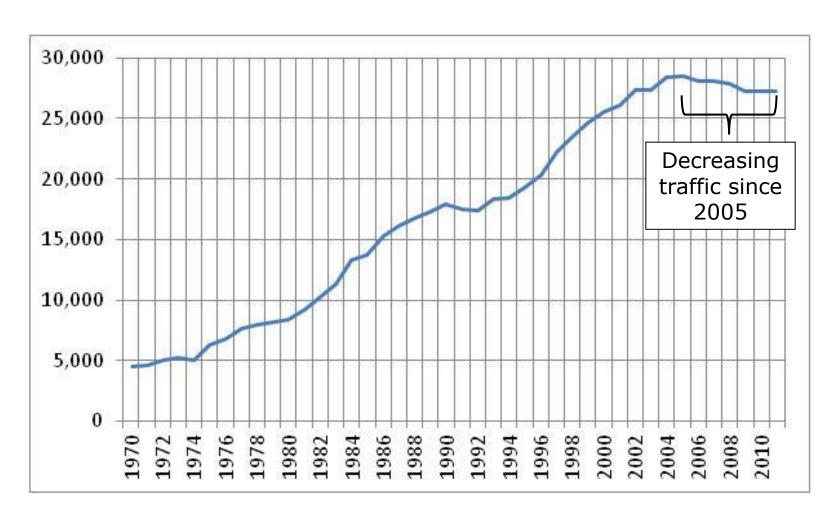
Pell Bridge Toll History



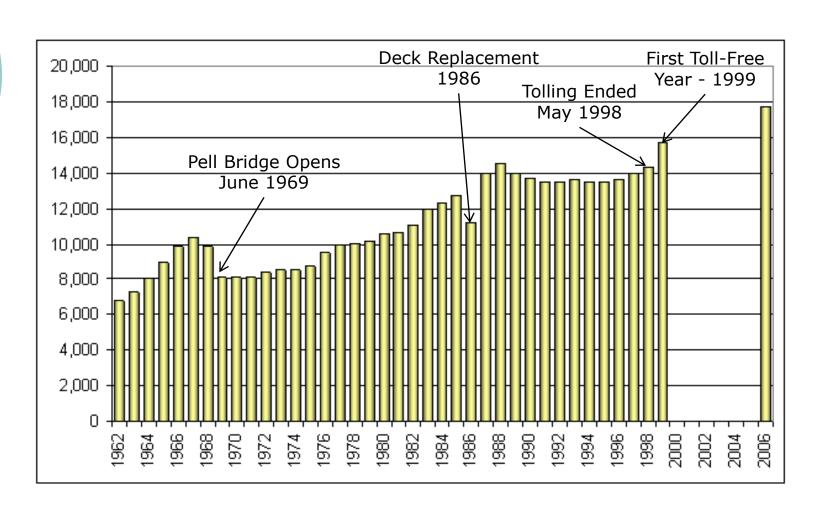
Mt Hope Bridge Toll History



Historical Newport Pell Bridge Avg. Daily Traffic

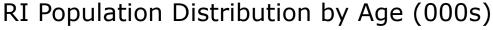


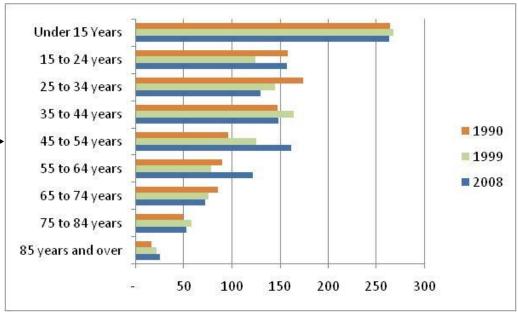
Historical Mt. Hope Bridge Avg. Daily Traffic



Why Has Traffic Decreased?

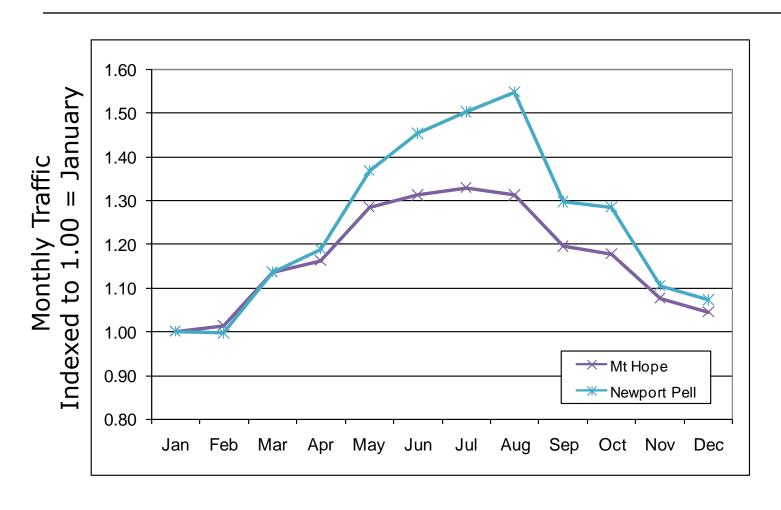
- Economy
- Gas prices
- Aging
- Technology
- Other factors





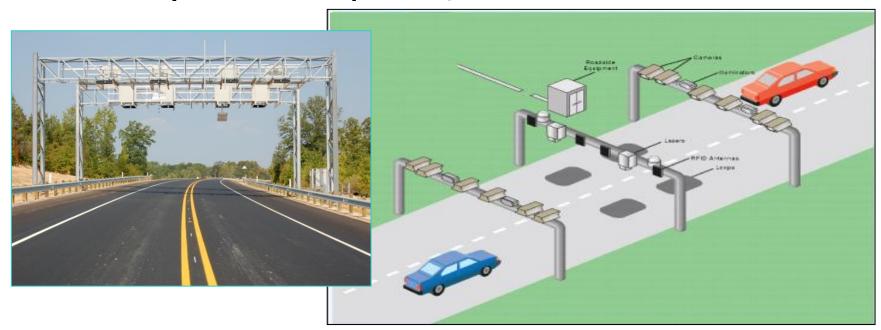
 Not just Pell Bridge – this is a nationwide phenomenon

Pell Bridge is More Seasonal than Mt. Hope Bridge



Mt. Hope Bridge Potential All-Electronic Tolling (AET)

- No tollbooths, overhead gantry only
- Non-E-ZPass customers identified by license plate, sent an invoice



Toll Alternatives Tested – Pell Bridge

Vehic	cle /	Current	OS	Yellow	Orange	Green	Blue Purple		Gray	Brown	MH1	
Paym	nent Type	Tolls	Tolls	Scenario	Scenario	Scenario	Scenario	Scenario	Scenario	Scenario	Scenario	
Cars -	- Full											
Price		\$ 4.00	\$ 4.50	\$ 4.50	\$ 4.50	\$ 4.50	\$ 4.50	\$ 5.00	\$ 4.50	\$ 4.00	\$ 4.00	
Cars -	-											
Resid	dent Rate	\$ 0.83	\$ 1.00	\$ 1.00	\$ 1.05	\$ 1.00	\$ 1.10	\$ 1.00	\$ 1.25	\$ 1.00	\$ 0.90	
Truck	cs - Per											
Axle		\$ 2.00	\$ 2.25	\$ 2.50	\$ 2.75	\$ 2.75	\$ 2.75	\$ 2.75	\$ 2.25	\$ 2.75	\$ 2.75	
FY 20	13 Toll											
Reve	nue (M)	\$ 18.1	\$ 20.1	\$ 20.8	\$ 21.4	\$ 21.0	\$ 21.4	\$ 22.1	\$ 22.3	\$ 19.9	\$ 19.2	

Selected for Further Analysis without Mt. Hope Tolls Selected for Further Analysis with Mt. Hope Tolls

Notes:

Tolls assumed to increase every 3 years.
6-Trip and Monthly Unlimited plan assumed to have proportional increases.

Toll Alternatives Tested – Mt Hope

Opening Year Toll Rates

				es Necessary		
			to	Cover Mt.		
	S	imilar to	Hope Bridge		Si	milar to Pell
Vehicle / Payment Type	For	mer Rates		Costs	Rates	
Passenger Cars - Resident/Discounted E-ZPass	\$	0.10	\$	0.52	\$	0.83
Passenger Cars - Non-Resident E-ZPass	\$	0.30	\$	2.50	\$	4.00
Passenger Cars - Video License Plate Toll	\$	0.39	\$	3.25	\$	5.20
Trucks - Per Axle E-Zpass	\$	0.15	\$	1.25	\$	2.00
Trucks - Per Axle Video License Plate Toll	\$	0.20	\$	1.63	\$	2.60
FY 2013 Toll Revenue (M)	\$	0.9	\$	4.0	\$	5.4
FY 2013 Video Toll Late Payment Fee Revenue (M)	\$	0.9	\$	0.5	\$	0.4
FY 2013 Total Toll + Fee Revenue (M)	\$	1.8	\$	4.5	\$	5.8

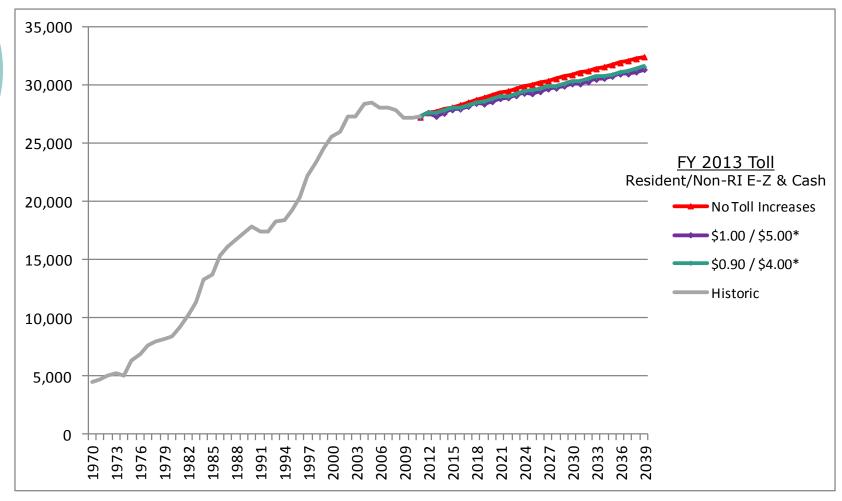
Note: Tolls assumed to increase every 3 years.

Selected for Further Analysis

Mt. Hope Model Development/Assumptions

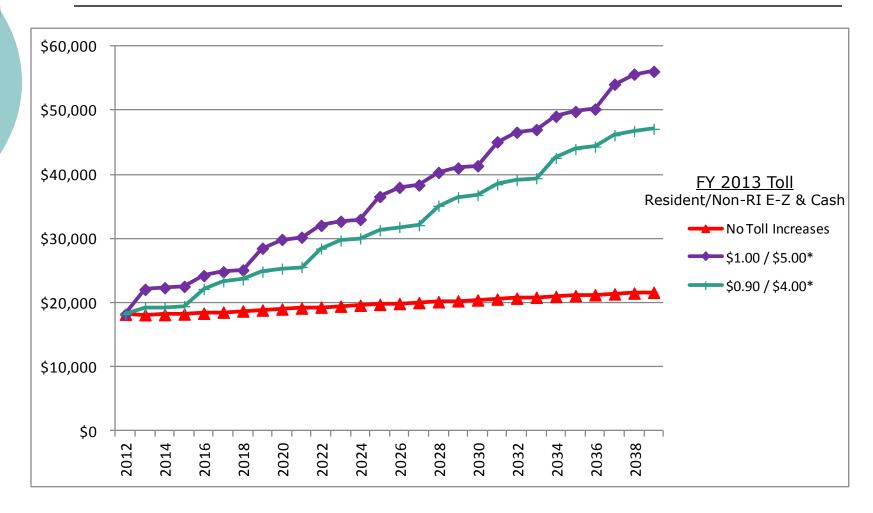
- Used values of time to estimate how many drivers would reroute for each toll alternative
- The greater the toll, the more people would get a discounted E-ZPass
- Small amount of background growth

Estimated Average Daily Traffic – Newport Pell Bridge



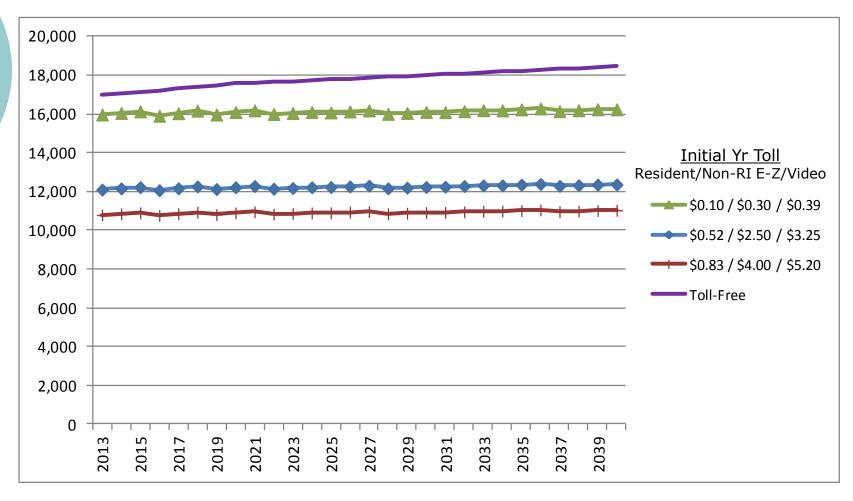
^{*}Toll increases assumed every 3 years

Estimated Gross Toll Revenues – Newport Pell Bridge (\$000s)



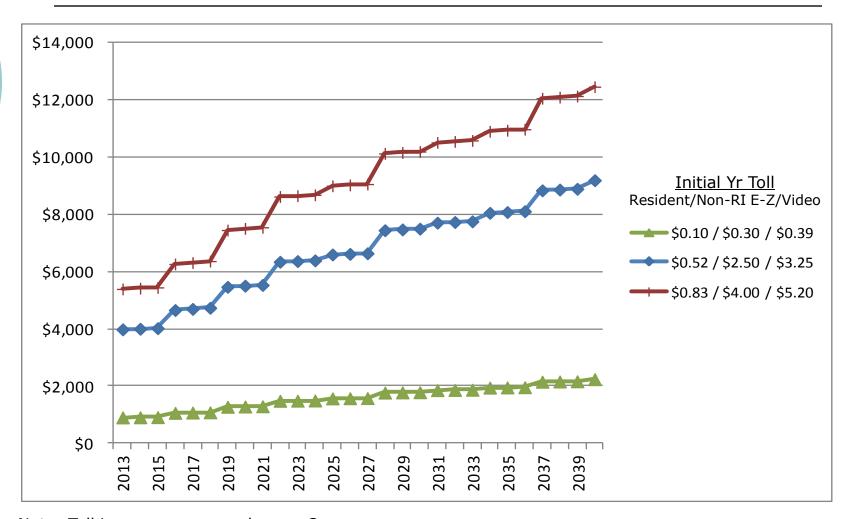
^{*}Toll increases assumed every 3 years

Estimated Average Daily Traffic – Mount Hope Bridge



Note: Toll increases assumed every 3 years

Estimated Gross Toll Revenues – Mount Hope Bridge (\$000s)



Note: Toll increases assumed every 3 years

Estimated Costs for Tolling Mt. Hope

Assumed Mt. Hope Toll Rates									
Resident E-Zpass									
Non-Resident E-Zpass	\$2.50								
Video License Plate Toll	\$3.25								
Costs for All-Electronic Tolling on Mt. Hope									
Capital Cost to Build	\$2,300,000								
Annual Cost of Toll Collection	\$1,300,000								

Annual toll collection costs include:

- •Video toll collection costs (finding & billing customers)
- •E-ZPass service fees
- Utilities
- Maintenance of equipment/communications system

Mt. Hope Bridge Toll Feasibility Study Results - FY 2013

- 12,000 Average Crossings/Day
- \$0.90 Average Toll Collected
- \$4.6 M Annual Revenue
 (Tolls+Fees+Transponder Sales)

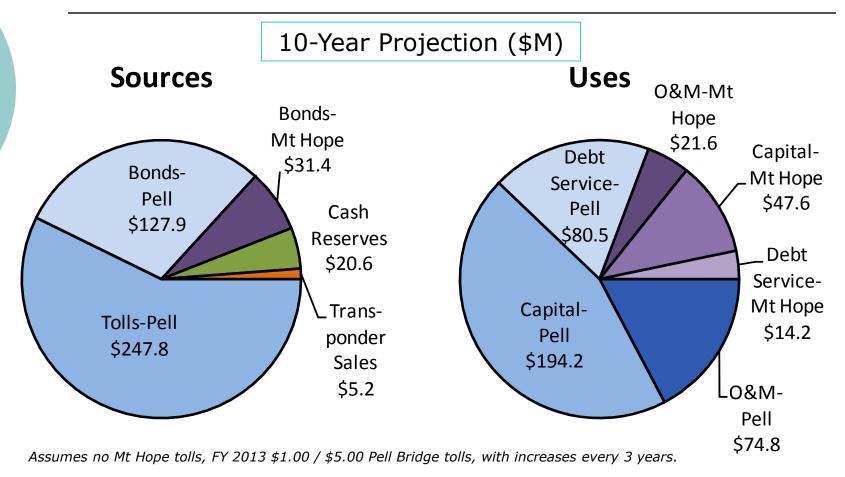
Toll Options to Close Funding Gap

		OPTION 1:
		Pell Toll Increase,
		No Mt Hope Tolls
	Vehicle / Payment Type	Pell Tolls
	Resident/Discounted E-ZPass	\$1.00
Cars	Non-Resident E-ZPass	\$5.00
Cars	Cash	\$5.00
	Video License Plate Toll	N/A
	Per Axle E-Zpass	\$2.75
Trucks	Per Axle Cash	\$2.75
	Per Axle Video License Plate Toll	N/A

OPTION 2:									
Smaller Pell T	Smaller Pell Toll Increase, Mt								
Норе	Tolling								
Pell Tolls	Mt Hope Tolls								
\$0.90	\$0.52								
\$4.00 *	\$2.50								
\$4.00 *	N/A								
N/A	\$3.25								
\$2.75	\$1.25								
\$2.75	N/A								
N/A	\$1.63								

^{*}Current tolls

Sources and Uses of Funds, Increased Pell Tolls, no Mt Hope Tolls

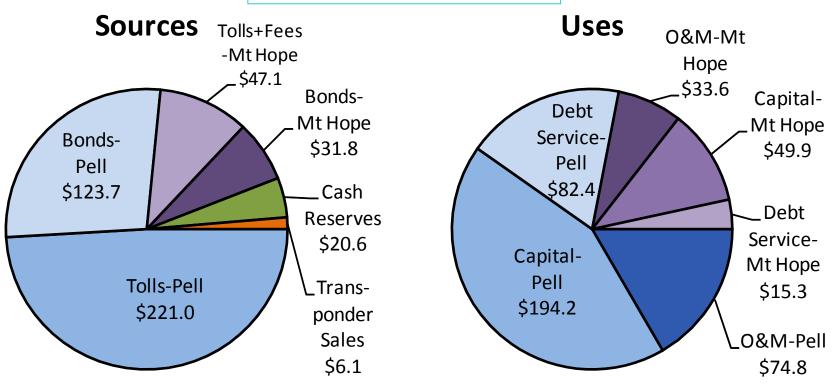


Total: \$432.9M Total: \$432.9M

Note: \$6.1M in capital expenditures for the Pell Bridge and \$2.0M for the Mt Hope Bridge are considered to be annualized costs and have been categorized as O&M above.

Sources and Uses of Funds, Smaller Pell Increase & Tolling on Mt Hope





Assumes FY 2013 \$0.52 / \$2.50 / \$3.25 Mt Hope tolls and \$0.90 / \$4.00 Pell Bridge tolls, both with increases every 3 yrs.

Total: \$450.2M Total: \$450.2M

Note: \$6.1M in capital expenditures for the Pell Bridge and \$2.0M for the Mt Hope Bridge are considered to be annualized costs and have been categorized as O&M above.

Conclusions

- About \$250M Needed for RITBA Capital Projects over Next 10 Years
- Two Tolling Options that Will Close Funding Gap:
 - Pell Toll Increase / No Mt. Hope Tolls
 - o Pell: \$1.00 Resident / \$5.00 Non-Resident
 - o Generates \$22.1M FY 2013 Revenue
 - Smaller Pell Toll Increase / Reinstatement of Mt. Hope Tolls
 - Pell: \$0.90 Resident / \$4.00 (no increase) Non-Res.
 - Mt Hope: \$0.52 Res. / \$2.50 Non-Res. / \$3.25 Video
 - Generates \$23.7M FY 2013 Revenue
 - \$1.3M Additional Annual Cost to Collect Mt Hope Tolls
 - \$2.3M Additional Capital Cost to Build



Plan of Finance Overview

Rhode Island Turnpike and Bridge Authority

Plan of Finance

In the 2010 session, the General Assembly authorized \$68,090,000 in bonds to continue the plan of finance. These bonds are expected to be issued in 2012. The 2010 series of bonds and the projected 2012 series were authorized to finance the following projects:

- the renovation, renewal, repair, rehabilitation, retrofitting, upgrading and improvement of the Newport Bridge, the Mount Hope Bridge and such other Projects as are authorized under the Act,
- the replacement of the components thereof;
- working capital expenses, the financing of a Debt Service Reserve Fund; and, the costs of issuing the Bonds.

Ten Year Renewal and Replacement Plan

RITBA Approved Ten Year Plan + Projected Additional Expenses Estimated Project Expenditure for Fiscal Year (in \$000's)

Fiscal Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Newport/Pell Totals	\$ 52,604	\$ 30,146	\$ 37,747	\$ 17,955	\$ 17,895	\$ 13,530	\$ 9,790	\$ 6,025	\$ 1,070	\$ 15,706
Mount Hope Totals	\$ 8,077	\$ 8,852	\$ 4,932	\$ 4,532	\$ 8,587	\$ 8,892	\$ 4,632	\$ 417	\$ 227	\$ 523
Total	\$ 60,681	\$ 38,998	\$ 42,679	\$ 22,487	\$ 26,482	\$ 22,422	\$ 14,422	\$ 6,442	\$ 1,297	\$ 16,229

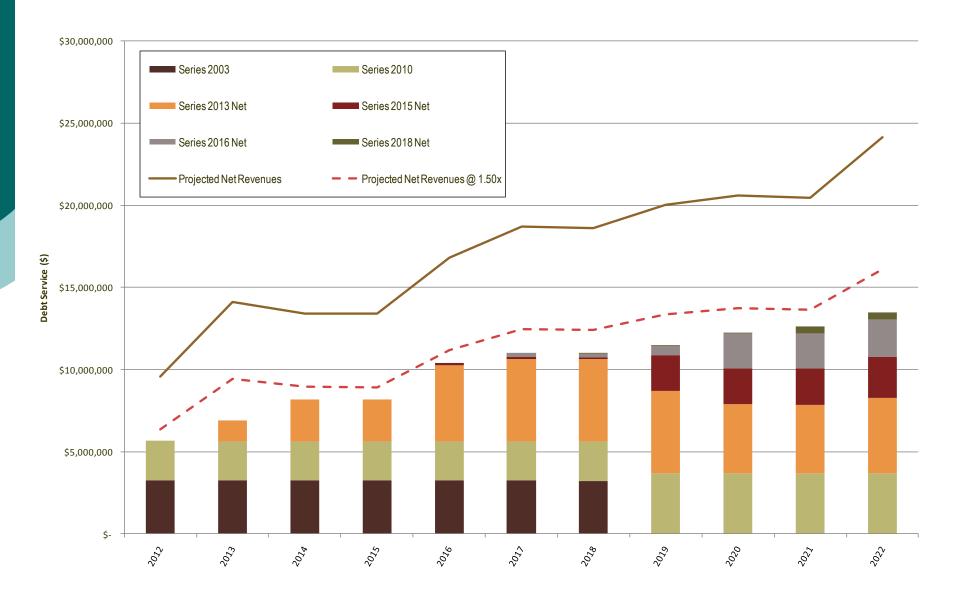
Financing Plan

	Delivery	Par Amount	Project Amount	DSRE	Requirement	Ca	p-I Deposit
Series 2003A	7/31/2003	\$23,625,000	N/A	\$	3,510,605	\$	-
Series 2010	4/8/2010	50,000,000	45,497,633		3,715,250	(1)	-
Proposed Series 2012 ⁽²⁾	7/1/2012	79,160,000	65,000,000		78,551,966		4,248,350
Proposed Series 2015	1/1/2015	35,785,000	25,000,000		3,578,500		6,272,787
Proposed Series 2016	1/1/2016	34,670,000	25,000,000		3,467,000		5,299,498
Proposed Series 2018	7/1/2017	7,125,000	5,200,000		688,443		1,048,332

⁽¹⁾ Partially funded by RITBA cash.

⁽²⁾ At current projected sizing, would need new legislative approval.

Projected Finance Plan



Debt Service Coverage

Debt Service Coverage is equal to:

Revenues Less (Operating Expenses + Required Reserve Deposits)

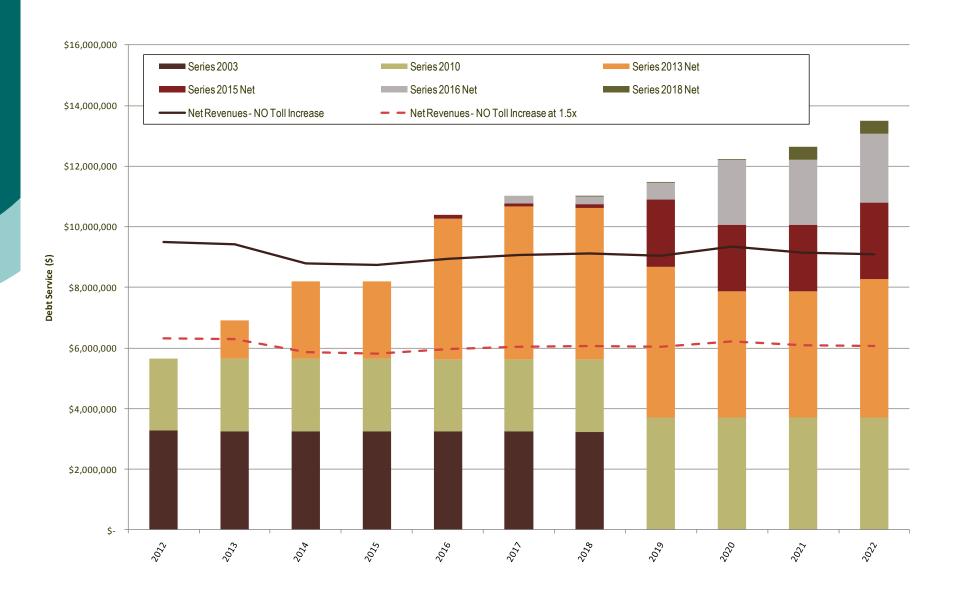
Divided by Total Net Debt Service

- Coverage Requirements:
 - Additional Bonds Test: 1.20 (coverage of projected MADS)
 - Indenture Toll Covenant: 1.25 (coverage of current fiscal year debt service)
 - Rating Level: 1.50 (coverage of current fiscal year debt service)

Projected Coverage Without Toll Increases

Fiscal Year Ended	Pro	jected Debt	NO Toll Increase					
June 30,		Service	Ne	t Revenues	Coverage			
2012	\$	5,654,092	\$	9,492,604	1.68x			
2013		6,921,367		9,426,564	1.36 x			
2014		8,193,908		8,784,482	1.07x			
2015		8,188,394		8,737,017	1.07x			
2016		10,388,135		8,938,484	.86x			
2017		11,027,671		9,058,060	.82x			
2018		10,998,878		9,112,565	.83x			
2019		11,463,940		9,049,476	.79x			
2020		12,210,354		9,342,571	.77x			
2021		12,627,687		9,135,520	.72x			
2022		13,501,652		9,090,749	.67x			

Projected Finance Plan Without Toll Increases



Projected Debt Service

Fiscal Year Ended		Existing Debt Servio	ce			Total Debt					
June 30,	Series 2003 Series 2010				Series 2013	Series 2015	sed New Net Debt Series 2016	Series 2018			Service
2012	\$ 3,266,692	\$ 2,387,400		4,092	\$ -	\$ -	\$ -	\$ -	\$ -	\$	5,654,092
2013	3,259,462	2,387,400		6,862	1,274,505	· -	-	-	1,274,505		6,921,367
2014	3,257,498	2,387,400	•	4,898	2,549,010	_	-	-	2,549,010		8,193,908
2015	3,251,984	2,387,400	•	9,384	2,549,010	_	-	-	2,549,010		8,188,394
2016	3,247,296	2,387,400		4,696	4,643,391	110,049	-	-	4,753,439		10,388,135
2017	3,247,536	2,387,400		4,936	5,027,631	110,049	255,056	-	5,392,736		11,027,671
2018	3,237,503	2,387,400	•	4,903	5,004,591	110,049	255,056	4,279	5,373,974		10,998,878
2019	-	3,708,863	3,70	8,863	4,978,751	2,200,978	566,791	8,558	7,755,078		11,463,940
2020	-	3,710,200		0,200	4,165,151	2,200,978	2,125,468	8,558	8,500,154		12,210,354
2021	-	3,708,200		8,200	4,165,151	2,200,978	2,125,468	427,891	8,919,487		12,627,687
2022	-	3,710,425	3,73	0,425	4,556,891	2,525,978	2,280,468	427,891	9,791,227		13,501,652
2023	-	3,707,425	3,70	7,425	4,540,011	2,535,346	2,308,012	427,891	9,811,259		13,518,684
2024	-	3,710,778	3,73	0,778	4,717,981	2,367,951	2,308,569	427,891	9,822,391		13,533,169
2025	-	3,709,150	3,70	9,150	5,423,386	2,307,711	2,298,329	666,619	10,696,044		14,405,194
2026	-	3,711,006	3,73	1,006	5,408,811	2,504,806	2,787,789	653,891	11,355,296		15,066,303
2027	-	3,707,081	3,70	7,081	5,341,191	2,485,671	2,880,059	640,833	11,347,753		15,054,835
2028	-	3,708,084	3,70	8,084	6,832,261	2,466,217	2,644,575	627,517	12,570,570		16,278,654
2029	-	3,712,566	3,73	2,566	7,237,061	2,446,444	2,588,927	613,981	12,886,412		16,598,978
2030	-	3,711,050	3,73	1,050	7,054,634	2,426,386	2,603,897	600,236	12,685,153		16,396,203
2031	-	3,709,294	3,70	9,294	6,976,291	2,561,009	2,635,439	586,284	12,759,022		16,468,316
2032	-	3,713,253	3,73	3,253	7,093,275	2,421,276	2,312,297	572,110	12,398,958		16,112,211
2033	-	3,712,250	3,73	2,250	6,878,275	2,757,596	1,995,065	557,717	12,188,652		15,900,902
2034	-	3,714,650	3,73	4,650	9,090,800	2,306,920	1,984,848	543,102	13,925,670		17,640,320
2035	-	3,710,194	3,73	0,194	9,094,568	2,685,301	1,974,495	528,280	14,282,644		17,992,837
2036	-	3,713,500	3,73	3,500	8,523,561	2,343,868	1,964,040	513,286	13,344,755		17,058,255
2037	-	3,715,250	3,73	5,250	8,800,686	1,855,440	1,953,534	498,182	13,107,841		16,823,091
2038	-	3,715,250	3,73	5,250	8,381,902	2,015,440	1,942,994	483,016	12,823,352		16,538,602
2039	-	3,712,125	3,73	2,125	7,325,714	2,200,504	1,932,437	467,814	11,926,469		15,638,594
2040	-	3,710,500	3,73	0,500	-	7,113,423	1,921,863	452,587	9,487,873		13,198,373
2041	-	-		-	-	6,663,856	1,911,272	437,336	9,012,464		9,012,464
2042	-	-		-	-	5,616,248	4,865,664	422,060	10,903,972		10,903,972
2043	-	-		-	-	8,198,880	4,335,040	406,772	12,940,692		12,940,692
2044	-	-		-	-	3,879,548	4,410,320	391,484	8,681,352		8,681,352
2045	-	-		-	-	-	10,615,000	371,352	10,986,352		10,986,352
2046	-	-		-	-	-	6,418,632	351,532	6,770,164		6,770,164
2047								1,116,157	1,116,157		1,116,157
Total	\$ 22,767,969	\$ 98,352,894	\$ 121,12	0,863	\$ 157,634,481	\$ 81,618,897	\$ 81,201,403	\$ 14,235,104	\$ 334,689,885	\$	455,810,748