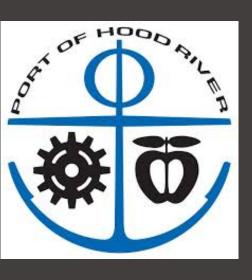
# Sketch-level T&R Study for Hood River Bridge Hood River, Oregon

February 19, 2019





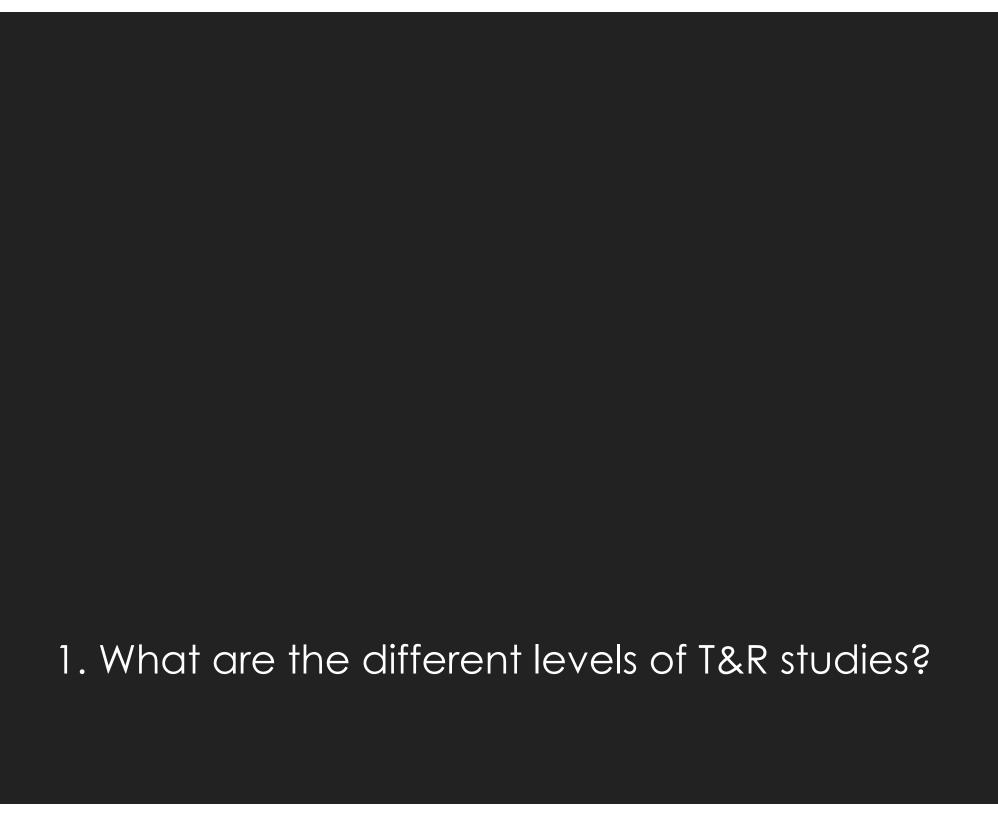
### **Agenda**

# Hood River Bridge T&R Analysis

- 1. Scope
- 2. Modeling Approach
- 3. Data Collection
- 4. Spreadsheet Model
- 5. T&R Forecasts
- 6. Questions

#### T&R 101

- 1. Levels of T&R Studies
- 2. Bond Financing
- 3. Parties Involved in Bond Sale



# Sketch Level Study

- Levels of Study
  - Sketch
  - Level I
  - Level II
  - Level III "Investment Grade"
- Often referred to as "back-of-the-envelope" analysis
- Performed at a very high level
- Generally utilizes already available data
- Used only as a guidance to assess need for more detailed studies
- Followed by policy-specific analysis sensitive to
  - Toll-rates
  - Shares of electronic payment and cash/video customers
  - Costs associated with AET



# Level 1 Study

- Slightly more detailed analysis than sketch-level analysis
- Helps assess project-viability early on
- Generally performed for newly proposed toll facilities
- Involves site reconnaissance and some additional datagathering
- Final output: a short report or technical memorandum summarizing the findings



# Level 2 Study – Can be Used for Financing

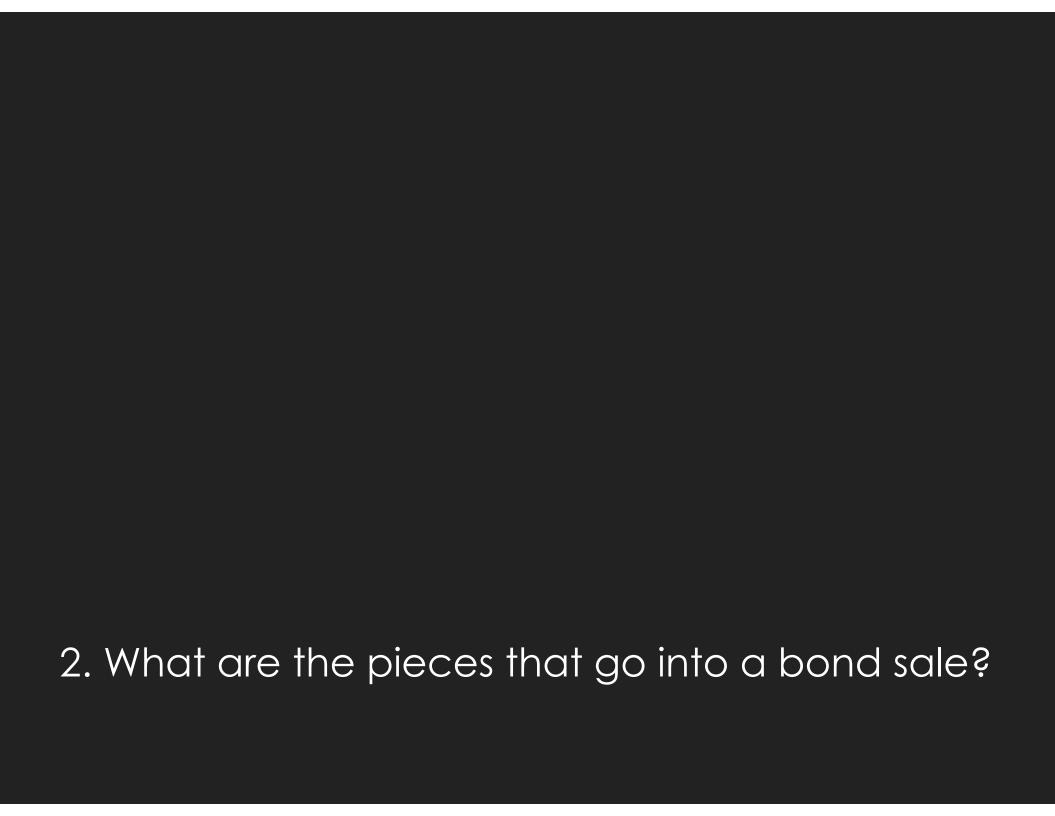
- Usually conducted when a Level 1 study deems a tollproject viable
- Involves more extensive site-visits, data-collection efforts, and use of a travel model
- Supported by a team of sub-consultants and/or local subcontractors
- Final output: a detailed report on the assumptions and findings of the study, including sensitivity analyses to build a range of traffic and revenue forecasts reflecting the impact of changes in tolling assumptions
- In some situations, Level 2 reports can be taken to financing



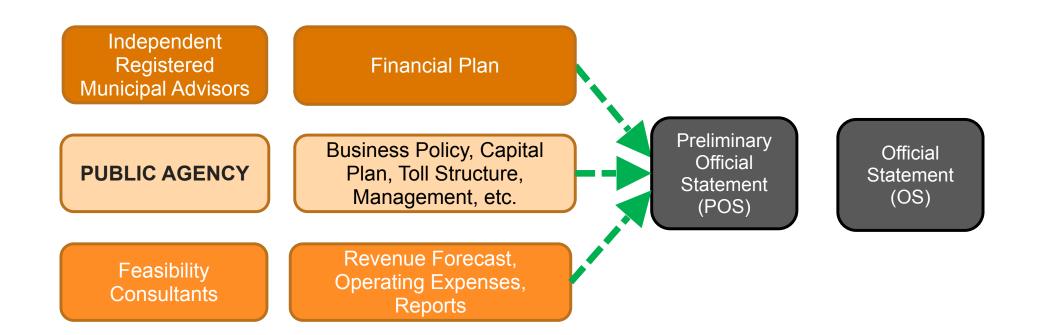
### Level 3 – Often Called Investment Grade Study

- Most comprehensive traffic and revenue study
- Typically involves large amounts of data collection, development of a forecasting model and extensive analysis of economic factors not considered in other levels of study
- Often confused with "Investment Grade Rating"
- Investment grade study does not guarantee investment grade rating of bonds
- T&R forecast is only one of the several factors considered by a rating agency
- Personally prefer comprehensive study because it defines level of effort





# Pieces of a Municipal Bond Sale



#### Purpose of Bond Sales:

- Typically used to raise capital for highway and bridge projects
- May be used to refinance old debt to lower cost of borrowing
- May be used for other purposes using revenues from toll authority
  - Mass transit in NYC; Off Turnpike projects in Ohio, etc.



# Pieces of a Municipal Bond Sale

Project Goals – Capital Plan

Toll Policy and Business Rules

Toll Traffic and Gross Revenues

Fee Revenues

**Operating Expenses** 

Finance Plan

Management

Legislative / Legal Authority

For the rating agencies, it is all about correctly accounting for the RISK.



# Ratings

- Multi asset
- Legacy
- Well Managed
- Greenfield
- Concession
- High Risk

S8	kP	Моо	dv's	Fit	ch		
Long-term	Short- term	Long-term	Short- term	Long-term	Short- term	rating description	
AAA		Aaa		AAA		Prime	
AA+	A-1+	Aa1		AA+	F1+		
AA	Λ-11	Aa2	P-1	AA		High grade	
AA-		Aa3	F-1	AA-			
A+	A-1	A1		A+	F1		
Α	75.1	A2		Α	1 1	Upper medium grade	
A-	A-2	A3	P-2	A-	F2		
BBB+	P(-Z	Baa1	Γ-2	BBB+	Γ2		
BBB	A-3	Baa2	P-3	BBB	F3	Lower medium grade	
BBB-	A-3	Baa3	1 -0	BBB-	13		
BB+		Ba1		BB+		Non-investment grade	
BB		Ba2		BB	В	speculative	
BB-	В	Ba3		BB-			
B+	Ь	B1		B+			
В		B2		В		Highly speculative	
B-		B3		B-			
CCC+		Caa1	Not prime			Substantial risks	
CCC		Caa2	Not prime			Extremely speculative	
CCC-	С	Caa3		CCC	С	Default imminent with little	
CC		Ca				prospect for recovery	
С		Ca					
		С		DDD			
D	1	1		DD	1	In default	
		1		D			



# Ratings – S&P's

Mid-Bay Bridge Authority	Mid-Bay Bridge	FL	BBB (second lien)	Stable
New Hampshire	New Hampshire Turnpike	NH	A+	Stable
New Jersey Turnpike Authority	New Jersey Turnpike	NJ	A+	Stable
New York State Bridge Authority	New York State Bridge Authority	NY	AA-	Stable
New York State Thruway Authority	New York State Thruway	NY	Α	Stable
New York State Thruway Authority	New York State Thruway	NY	A- (second lien)	Stable
Niagara Falls Bridge Commission	Niagara Falls Bridges	NY	A+	Stable
North Carolina Turnpike Authority	Triangle Expressway	NC	BBB-	Stable
North Texas Tollway Authority	North Texas Tollway	TX	А	Stable
North Texas Tollway Authority	North Texas Tollway	TX	A- (second lien)	Stabl
North East Texas Regional Mobility Authority	North East Texas Regional Mobility Authority	TX	BBB	Stabl
North East Texas Regional Mobility Authority	North East Texas Regional Mobility Authority	TX	BBB- (second lien)	Stabl
Ohio Turnpike and Infrastructure Commission	Ohio Turnpike	ОН	AA-	Stabl
Ohio Turnpike and Infrastructure Commission	Ohio Turnpike	ОН	A+ (second lien)	Stabl
Oklahoma Turnpike Authority	Oklahoma Turnpike	OK	AA-	Stabl
Orange County Transportation Authority	Orange County Transportation Authority (SR-91)	CA	AA-	Stabl
Osceola County	Osceola County	FL	BBB-	Stable
Pennsylvania Turnpike Commission	Pennsylvania Turnpike	PA	А	Stabl
Pennsylvania Turnpike Commission	Pennsylvania Turnpike	PA	A- (second lien)	Stabl
Rhode Island Turnpike and Bridge Authority	Rhode Island Turnpike and Bridge Authority	RI	Α-	Stabl
Richmond Metropolitan Authority	Richmond Metropolitan Authority	VA	A+	Stable
Riverside County Transportation Commission	Riverside County Transportation Commission (SR-91)	CA	BBB-	Stable

February 8, 2017 standardandpoors.com/ratingsdirect



Capital Cost
Considerations
(Why Borrowing)

- Cost of Bridge
- Cost of Toll Collection
- Cost of Back Office

Revenue Considerations

- Toll Rates
- Fees and Fines
- Concession & Other Revenues

Operating Cost Considerations

- Cost of Maintaining Roadway
- Cost of Maintaining Toll Equipment
- Cost to Collect Tolls



#### **Capital Cost**

- Construction of New Roadway
- Structures and Support Buildings
- Equipment
- Computers, Collection Equipment and Software
- In some cases transponders





#### Revenue

- Total Revenues
  - Cash Coins
  - Transponder
  - Video Toll
- Other Revenues
  - Concessions
  - Fees / Fines
  - Interest on Deposit
  - Other revenue-generating activities











#### **Operating Costs**

- Roadway O&M
  - Plowing
  - Painting / maintenance
  - Repairs
- Back Office
  - Call-center
  - Mailings
  - Credit card fees
- Staff
  - Administrative
  - Police
  - Utilities
  - Benefits
  - Insurance





#### **Debt Service**

Payments towards funds that were obtained through a bond sale Combination of interest and principal

- Interest
  - Agreed to rate that money is borrowed at
- Principal
  - Payments against the actual money borrowed
- Tax Status
  - Tax-free and taxable bonds
- Senior and junior Bonds

#### **Debt Service Coverage**

Similar to Mortgage

- Operating Costs Must have money to maintain the facility
- Net Revenue Must have money in excess of debt service payments after maintaining the facility
- Coverage Monies remaining after paying for maintenance
- Debt Service Coverage Ratio Net Revenue divided by Debt Service



# Simple Calculation

Total Revenue	
Tolls, Fees, Fines	\$5,000,000
Less operating costs	
Bridge, collection, back-office	\$3,800,000
Equals	
Net revenue	\$1,200,000
Debt Service	\$1,000,000
Net Revenue divided by Debt Service	
Coverage ratio	1.2



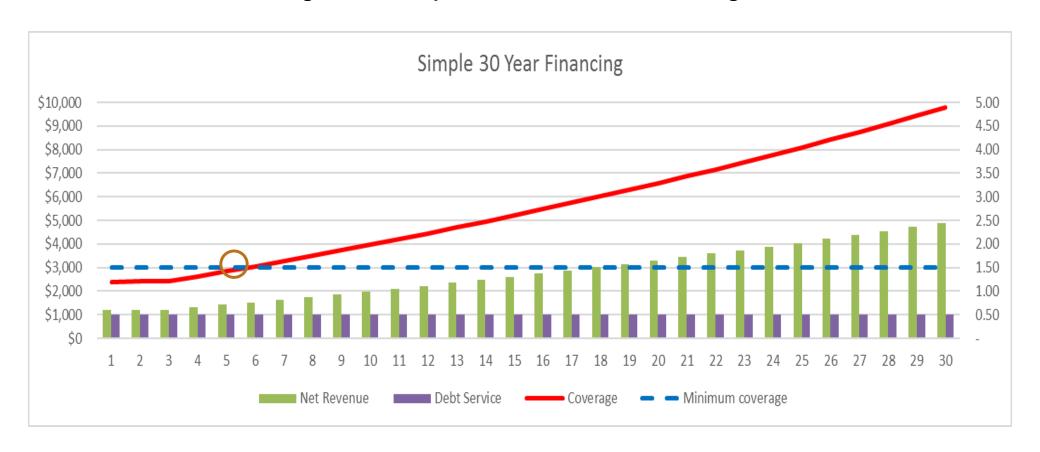
# Coverage Calculator

STAN	TEC									
inancii	ng Estimating Too	d								
							ĺ			
	This is only an in									
Note:		to offer financial advice or to be a recommendation								
	of any kind. Star		_	an In	dependent					
	Registered Mun	icipal Advis	or.							
	CAPITAL COS	STS								
	Roadw	ay/Bridge		\$	25,000,000		Municipa			
	Toll	Collection		\$	2,500,000		The tables and ch year maturity ran today's tax-free n	iarts below providiges. These rates i nunicipal bond mi	te yield rates to reflect the appr arket as of 08/0	r AAA, AA and A rated oximate yield to matu 7/2018.
	В	ack Office		\$	1,000,000		AAA RATED	MUNI BON	IDS	
	TOTA	L CAPITAL		\$	28,500,000		ISSUE	Maturity	Today	Last
	Capital Co	ntribution		\$	(1,500,000)		National	Range 10 Year	2.40	Week 2.45
NET C	CAPITAL FUNDING	REQUIRED		\$	27,000,000		National	20 Year	2.65	2.70
				_			National Florida	30 Year 30 Year	2.85 2.85	2.90
	FINANCING						AA RATED I			
	Interest Rate (	annual %\	3.45%							Last
		Term (yrs)	30				ISSUE	Maturity Range	Today	Week
	Annual De		30	\$	(1,458,844)		National National	10 Year 20 Year	2.80	2.85
	Reserve Require		1	*	(1) 100/014/		National	30 Year	3.25	3.30
	Capitalize Int		3				Florida	30 Year	3.25	3.30
		f Issuance	2%				A RATED M		5	
	Actual Amount		2,0	\$	33,375,376		ISSUE	Maturity Range	Today	Last Week
	ANNUAL DEB			\$	(1,803,314)		National	10 Year	2.90	2.95
	AITH OF LE	JENTIGE		~	(1,000,014)		National National	20 Year 30 Year	3.10	3.15
	TRANSACTO	NS					National	30 Year 30 Year	3.40	3.45
	1	_			5,475,000		Since 1978, invest	es looking for mu	nicipal bands ha	ve relied on FMSbonds
		nsactions	80%	d						
	Percentage Tra	age Image	20%		4,380,000 1,095,000		-	_		
	reitent	age intage	20%	٠	1,093,000		-			
	DI EDGED DE	VENII IEE					-			
	PLEDGED RE		44.05		E 48E 005					
		Avg. Toll	\$1.00		5,475,000			_		
	Surcha	rges/Fees	\$0.50	\$	547,500					
		Fines		\$	-					
	Other Pledged			\$	-					
	TOTAL	REVENUE	[	\$	6,022,500					
	<b>OPERATING</b>	COSTS								
	Roadw	ay/Bridge		\$	1,000,000					
	Adm	nistrative		\$	500,000					
	Toll	Collection	\$0.10	\$	438,000					
			\$0.15	\$	164,250					
	В	ack Office	\$0.05	\$	219,000					
			\$1.00	\$	1,095,000					
	C	redit Card	2.50%	\$	150,563					
	TOTAL OPERATI	NG COSTS	ĺ	\$	3,566,813		Ĭ			
	DEBT SERVIC	E COVER	AGE							
	J.D. JERVIC		EVENUE	¢	6,022,500		Norm	ally 1.5	. 2 0	
	TOT	AL OERATIN			3,566,813			any 1.5 Greenfi		5 - 2 25
	101/		EVENUE		2,455,688		Hew	sreemile.	eiu I./	J - 2.23
			SERVICE		1,803,314		-			
				٠	1,803,314		-			
		COVERAG	E KAIIU		1.36					



# Coverage Analysis - 30 years

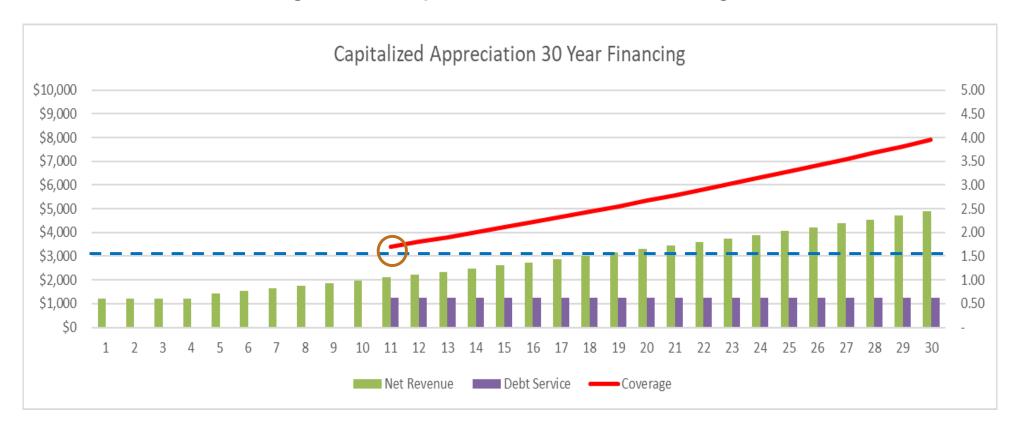
#### **Trust Agreement Requires 1.5 Debt Service Coverage Ratio**





# Coverage Analysis - 30 years

#### **Trust Agreement Requires 1.5 Debt Service Coverage Ratio**





#### **Actual Bonds from Recent Bond Sale**

#### From actual bond

- Series of bonds
- All designed to meet the needs of the capital projects
- Toll policy
- The market place for the bonds
- And the Debt Service Coverage Ratio

#### New York State Thruway Authority General Revenue Junior Indebtedness Obligations Series 2016A

#### MATURITIES, PRINCIPAL AMOUNTS, INTEREST RATES, YIELDS AND CUSIP NUMBERS

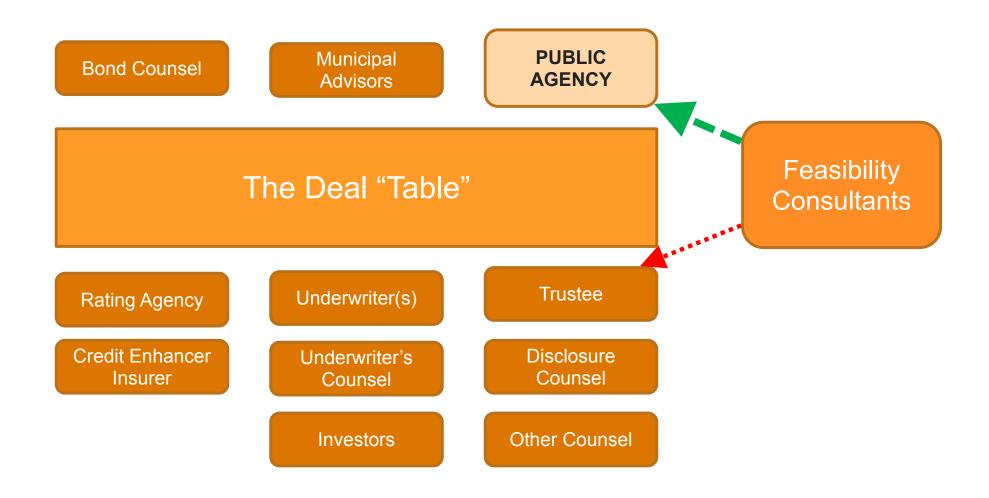
#### \$190,665,000 Serial Bonds

Due January 1	Principal Amount	Interest Rate	Yield	CUSIP Number <sup>†</sup> (Base # 650010)
2021	\$ 250,000	3.00%	1.13%	AE1
2022	250,000	4.00	1.30	AF8
2023	250,000	4.00	1.46	AG6
2024	250,000	4.00	1.62	AH4
2025	2,000,000	5.00	1.76	AJ0
2026	4,000,000	5.00	1.89	AK7
2027	6,000,000	5.00	2.05*	AL5
2028	8,000,000	5.00	2.17*	AM3
2029	10,000,000	5.00	2.31*	AN1
2030	12,000,000	5.00	2.39*	AP6
2031	14,000,000	5.00	2.45*	AQ4
2032	16,000,000	5.00	2.51*	AR2
2033	17,330,000	5.00	2.57*	AS0
2034	18,195,000	5.00	2.63*	AT8
2035	19,105,000	5.00	2.69*	AU5
2036	20,060,000	5.00	2.75	AV3
2037	21,065,000	4.00	3.02*	AW1
2038	21,910,000	4.00	3.06*	AX9
\$145,745,000 5.0 \$134,960,000 5.0	00% Term Bond du 10% Term Bond du	e January 1, 2046 e January 1, 2051	Yield 2.97%* Yield 3.06%*	CUSIP Number <sup>†</sup> 650010AY7 CUSIP Number <sup>†</sup> 650010AZ4 CUSIP Number <sup>†</sup> 650010BB6 CUSIP Number <sup>†</sup> 650010BA8
\$156,800,000 5.2	25% Term Bond du	e January 1, 2056	Yield 3.07%*	CUSIP Number 650010BA8 CUSIP Number 650010BD2 CUSIP Number 650010BC4



3. Who are the parties involved in a municipal bond sale?

# Among the Parties to A Municipal Bond Sale





### Among the Parties To A Bond Sale

Public Agency

Borrower

Municipal Advisor

Advises agency on how to borrow

Bond Counsel

Prepares POS/OS, legal issues

Feasibility Consultants
 T&R, O&M, Condition of Facilities

Rating Agencies

Assess everyone's credibility

Credit Enhancers

Insure bonds to lower interest rate

Underwriter

Buys bond from agency & sells to investors

Trustee

Protects bond holders and makes sure agency keeps promises

Disclosure Counsel

Assure that all material information is disclosed to investors

Investors

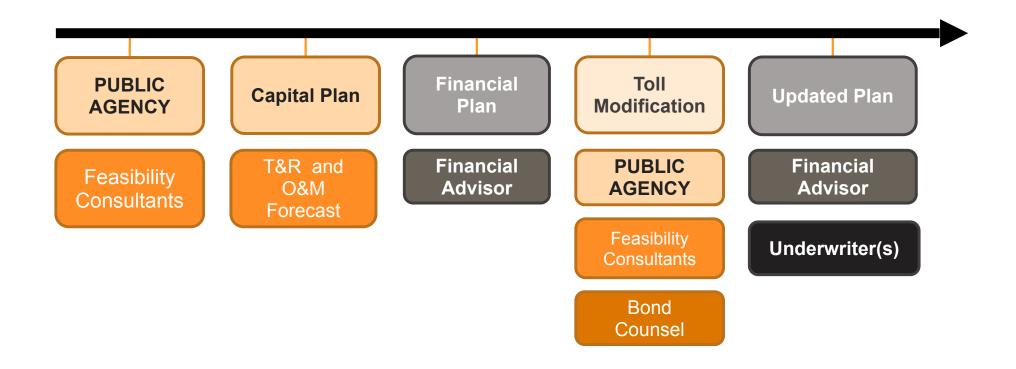
Buy bonds from Underwriter

Other Counsels

As needed cashing in on deal ©

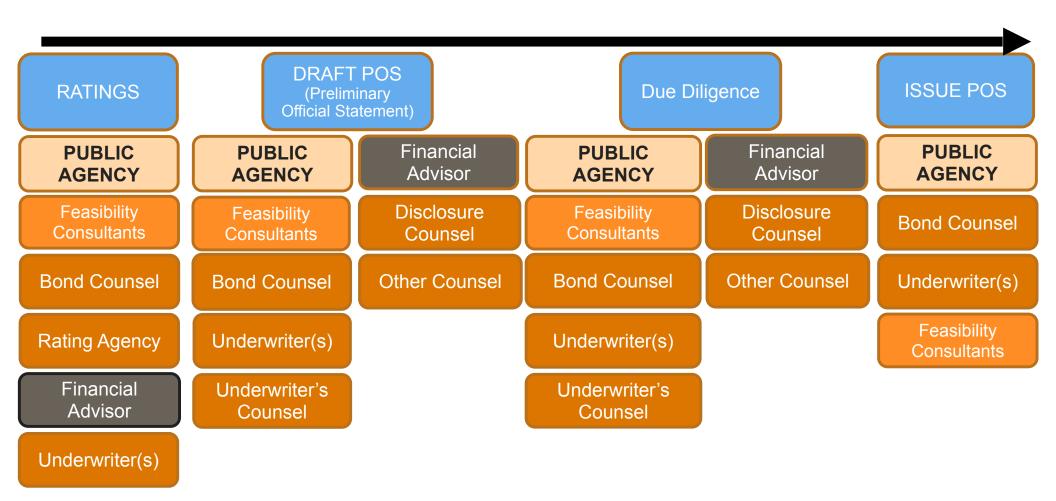


# Municipal Bond Sale Timeline



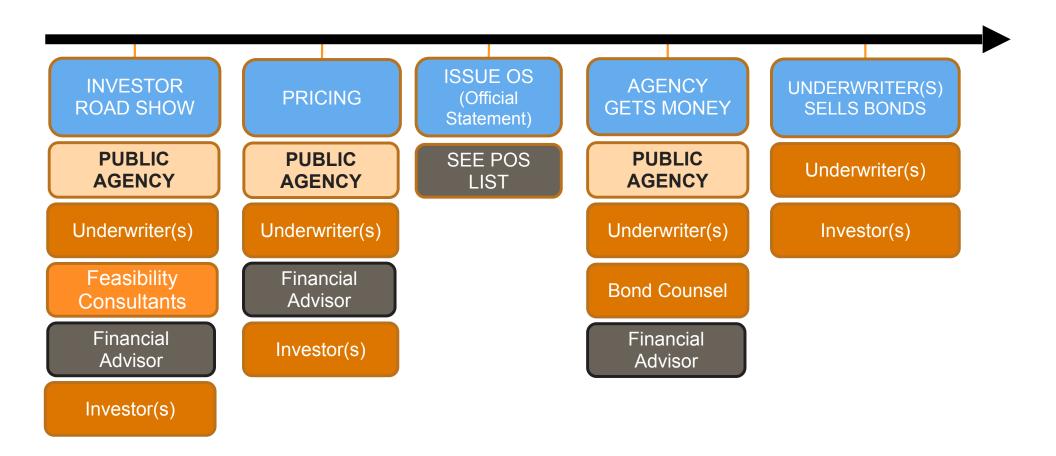


### Municipal Bond Sale Timeline





### Municipal Bond Sale Timeline





#### Suggested Timeline for Hood River T&R Studies

#### Sketch Level

- \$20k
- Completed

#### Toll Policy Development

- \$50k to \$60k
- Soon in 2019
- 2 months

#### Level 2 Study

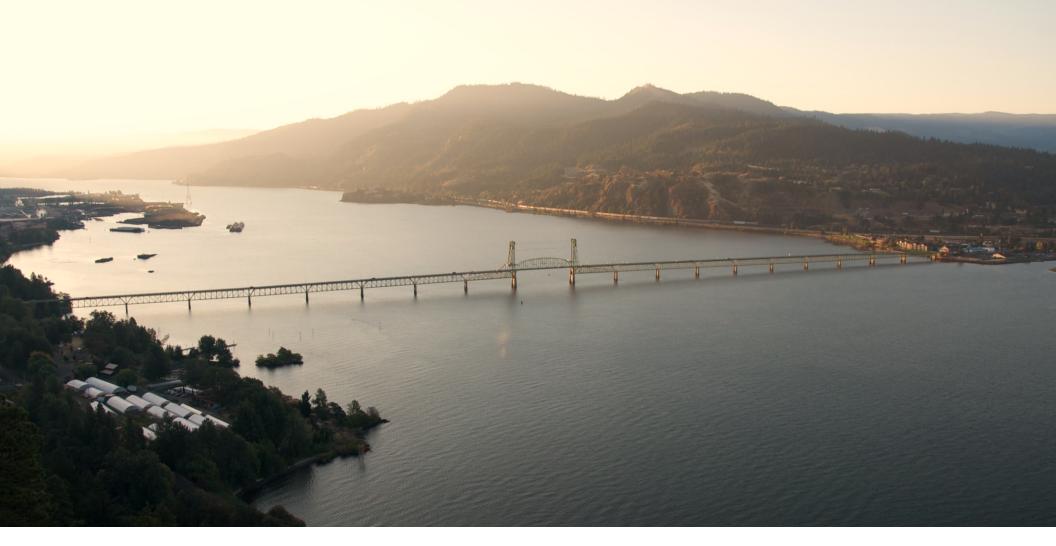
- \$200k-\$300k
- 3 qtr 2020
- 6-9 months

# Investment Grade (Refreshed Level 2)

- \$100K-\$150k
- 3 qtr 2022
- 3-6 months



Hood River Bridge T&R Study



# Scope

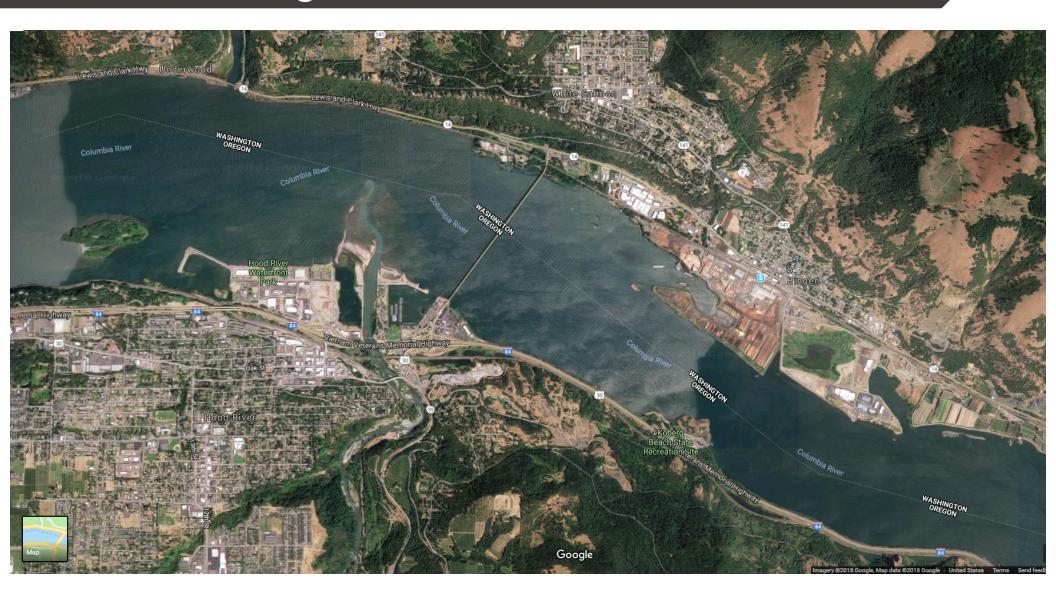
- Sketch-level study
- •Traffic and revenue estimate for two cases:
  - Existing bridge conditions
  - New bridge conditions with AET
- Includes toll O&M cost estimate

#### Data Collection

- AADT data from Oregon and Washington DOTs
- Collected data along the river, between the competing bridges
- Field spot-surveys to observe truck activity at key locations



# **Hood River Bridge**



#### **Traffic Modeling Approach**

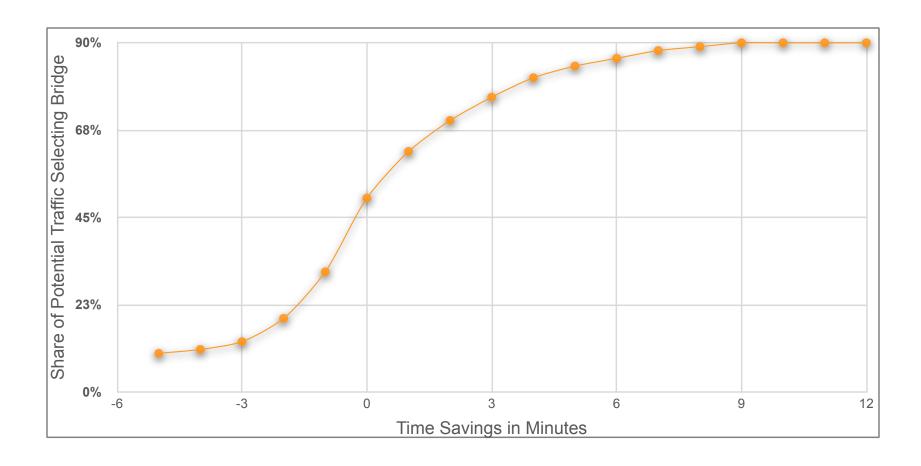
- No travel demand model
- Built a spreadsheet-based model
- Developed balanced network based on AADT counts
- Considered two competing bridges Bridge of the Gods to the west and The Dalles Bridge to the east



### Route Choice Parameters for Each Bridge

	From	То	Bridge of	the Gods		Hood River Bridge			The Dalles Bridge			
Dir	Zone	Zone	Distance	Time	Cost	Distance	Time	Cost	Distance	Time	Cost	
		20110	(miles)	(minutes)	(dollars)	(miles)	(minutes)	(dollars)	(miles)	(minutes)	(dollars)	
	1	4	1.3	3.0	\$2.00	-	-	-	-	-	-	
	1	5	21.5	24.0	\$2.00	24.7	32.0	\$2.00	-	-	-	
	1	6	44.0	44.0	\$2.00	47.2	52.0	\$2.00	45.0	55.0	-	
	2	4	23.1	30.0	\$2.00	24.1	24.0	\$2.00	-	-	-	
SB	2	5	-	-	-	1.0	3.0	\$2.00	-	-	-	
	2	6	-	-	-	23.7	24.0	\$2.00	21.9	26.0	-	
	3	4	45.2	56.0	\$2.00	42.7	49.0	\$2.00	43.9	42.0	-	
	3	5	-	-	-	22.1	28.0	\$2.00	23.3	22.0	-	
	3	6	-	-	-	-	-	-	1.0	2.0	-	
	4	1	1.3	3.0	\$2.00	-	-	-	-	-	-	
	4	2	23.0	29.0	\$2.00	24.0	25.0	\$2.00	-	-	-	
	4	3	46.0	56.0	\$2.00	43.0	47.0	\$2.00	45.0	41.0	-	
	5	1	21.5	24.0	\$2.00	24.7	32.0	\$2.00	-	-	-	
NB	5	2	-	-	-	1.2	4.0	\$2.00				
	5	3	-	-	-	21.4	27.0	\$2.00	24.2	23.0	-	
	6	1	44.0	44.0	\$2.00	47.3	52.0	\$2.00	45.4	54.0	-	
	6	2	-	-	-	24.0	24.0	\$2.00	22.0	26.0	-	
	6	3	-	-	-	-	-	-	1.0	2.0	-	

#### **Toll Diversion Curve**



#### **T&R Scenarios**

#### Scenario 1

- Existing bridge structure
- No toll-rate modification
- Toll collection continues by cash and BreezeBy

### Scenario 2

- New bridge opens in FY2029
- No toll-rate modification
- Toll collection continues by cash and BreezeBy

#### Scenario 3

- New bridge opens in FY2029
- All Electronic Tolling (AET) begins in FY2029
- Image-based toll rate equal to cash rate
- No toll-rate modifications

### Scenario 4

- New bridge opens in FY2029
- All Electronic Tolling (AET) begins in FY2029
- Image-based toll rate equal to cash rate
- 100% toll-increase is applied upon new bridge opening

#### Scenario 5

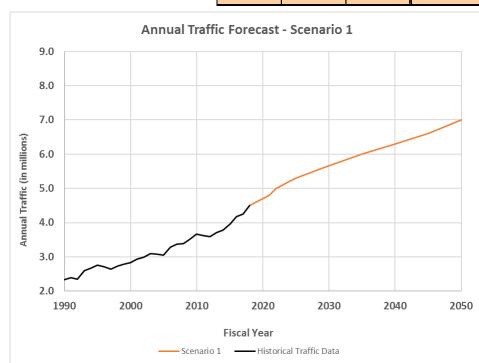
- New bridge opens in FY2029
- All Electronic Tolling (AET) begins in FY2029
- Image-based toll rate equal to cash rate
- 100% toll-increase is applied upon new bridge opening
- 2% inflation per year beginning FY2030

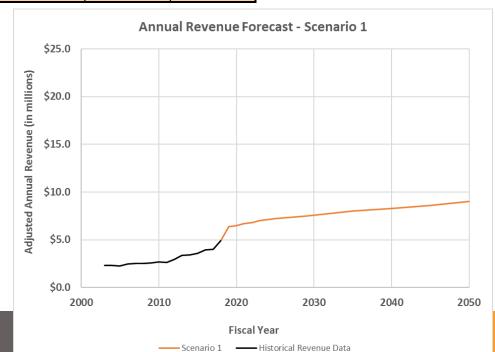
#### **Assumptions:**

- 1. Auto-truck share remains unchanged over the forecast period.
- 2. Share of BreezeBy customers grows gradually
- 3. Annual traffic growth for first few years is based on historical trend; growth slows down over the forecast period

#### Scenario 1 – No-build Scenario

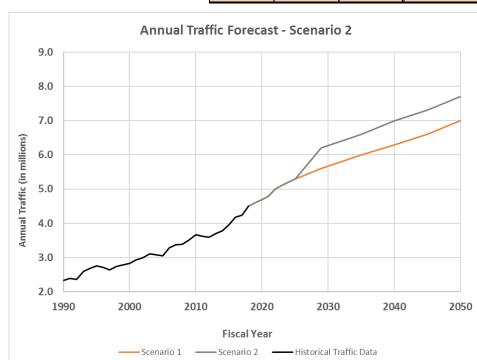
	Traffic and Revenue Forecast - No-Build										
Fiscal Year	Average Toll	YoY Growth	Annual Traffic (in millions)	Annual Revenue (in millions)	Net Change in O&M (in millions)		Adjusted Annual Revenue (in millions)				
2018	\$1.09		4.5	\$4.9	\$	-	\$4.9				
2019	\$1.39	2.50%	4.6	\$6.4	\$	-	\$6.4				
2020	\$1.38	2.50%	4.7	\$6.5	\$	-	\$6.5				
2021	\$1.38	2.50%	4.8	\$6.7	\$	-	\$6.7				
2022	\$1.37	2.50%	5.0	\$6.8	\$	-	\$6.8				
2023	\$1.37	2.25%	5.1	\$7.0	\$	-	\$7.0				
2024	\$1.37	2.00%	5.2	\$7.1	\$	-	\$7.1				
2025	\$1.36	1.75%	5.3	\$7.2	\$	-	\$7.2				
2029	\$1.34	1.25%	5.6	\$7.5	\$	-	\$7.5				
2035	\$1.32	1.00%	6.0	\$8.0	\$	-	\$8.0				
2040	\$1.31	1.00%	6.3	\$8.3	\$	-	\$8.3				
2045	\$1.30	1.00%	6.6	\$8.6	\$	-	\$8.6				
2050	\$1.28	1.00%	7.0	\$9.0	\$	-	\$9.0				

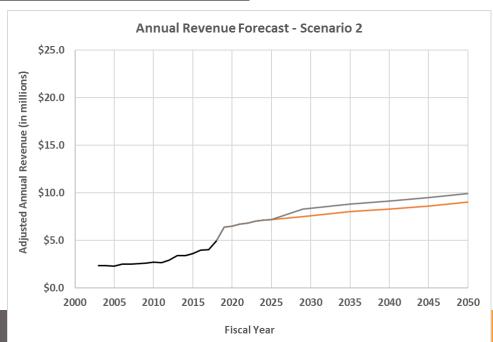




### Scenario 2 – New Bridge Opens in FY2029

	Traffic and Revenue Forecast - New Bridge Open without AET									
Fiscal Year	Average Toll	YoY Growth	Annual Traffic (in millions)	Annual Revenue (in millions)	Net Change in O&M (in millions)		Adjusted Annual Revenue (in millions)			
2018	\$1.09		4.5	\$4.9	\$	-	\$4.9			
2019	\$1.39	2.50%	4.6	\$6.4	\$	-	\$6.4			
2020	\$1.38	2.50%	4.7	\$6.5	\$	-	\$6.5			
2021	\$1.38	2.50%	4.8	\$6.7	\$	-	\$6.7			
2022	\$1.37	2.50%	5.0	\$6.8	\$	-	\$6.8			
2023	\$1.37	2.25%	5.1	\$7.0	\$	-	\$7.0			
2024	\$1.37	2.00%	5.2	\$7.1	\$	-	\$7.1			
2025	\$1.36	1.75%	5.3	\$7.2	\$	-	\$7.2			
2029	\$1.34	1.25%	6.2	\$8.3	\$	-	\$8.3			
2035	\$1.32	1.00%	6.6	\$8.8	\$	-	\$8.8			
2040	\$1.31	1.00%	7.0	\$9.1	\$	-	\$9.1			
2045	\$1.30	1.00%	7.3	\$9.5	\$	-	\$9.5			
2050	\$1.28	1.00%	7.7	\$9.9	\$	-	\$9.9			

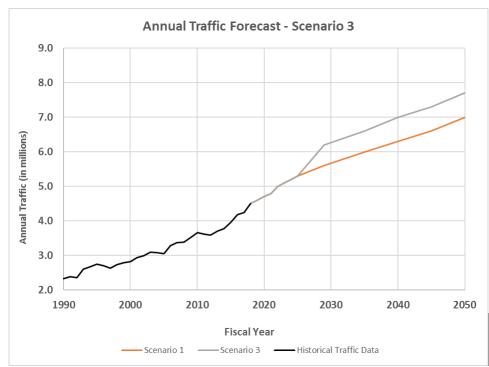


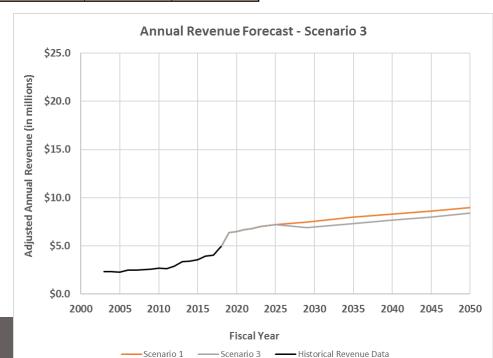


Scenario 1 —— Scenario 2 —— Historical Revenue Data

### Scenario 3 – New Bridge Opens in FY2029 with AET

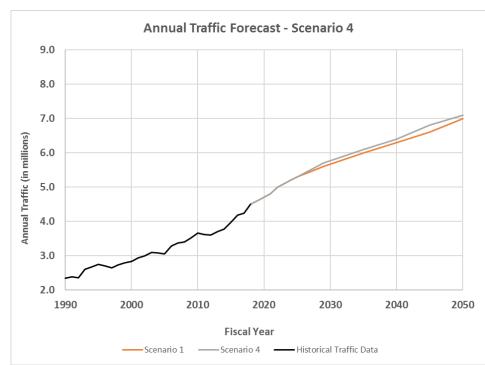
	Traffic a	and Reven	ue Forecast - N	lew Bridge Op	ening with AET	Ī
Fiscal Year	Average Toll	YoY Growth	Annual Traffic (in millions)	Annual Revenue (in millions)	Net Change in O&M (in millions)	Adjusted Annual Revenue (in millions)
2018	\$1.09	6.10%	4.5	\$4.9		\$4.9
2019	\$1.39	2.50%	4.6	\$6.4	\$0.0	\$6.4
2020	\$1.38	2.50%	4.7	\$6.5	\$0.0	\$6.5
2021	\$1.38	2.50%	4.8	\$6.7	\$0.0	\$6.7
2022	\$1.37	2.50%	5.0	\$6.8	\$0.0	\$6.8
2023	\$1.37	2.25%	5.1	\$7.0	\$0.0	\$7.0
2024	\$1.37	2.00%	5.2	\$7.1	\$0.0	\$7.1
2025	\$1.36	1.75%	5.3	\$7.2	\$0.0	\$7.2
2029	\$1.17	1.25%	6.2	\$7.2	-\$0.3	\$6.9
2035	\$1.16	1.00%	6.6	\$7.7	-\$0.4	\$7.3
2040	\$1.16	1.00%	7.0	\$8.1	-\$0.4	\$7.7
2045	\$1.16	1.00%	7.3	\$8.5	-\$0.5	\$8.0
2050	\$1.16	1.00%	7.7	\$8.9	-\$0.5	\$8.4

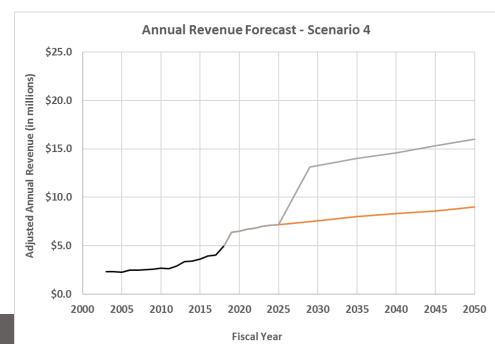




#### Scenario 4 – New Bridge Opens in FY2029 with AET & Toll Hike

Tra	Traffic and Revenue Forecast - New Bridge Opening with AET & Toll Hike										
Fiscal Year	Average Toll	YoY Growth	Annual Traffic (in millions)	Annual Revenue (in millions)	Net Change in O&M (in millions)	Adjusted Annual Revenue (in millions)					
2018	\$1.09	6.10%	4.5	\$4.9		\$4.9					
2019	\$1.39	2.50%	4.6	\$6.4	\$0.0	\$6.4					
2020	\$1.38	2.50%	4.7	\$6.5	\$0.0	\$6.5					
2021	\$1.38	2.50%	4.8	\$6.7	\$0.0	\$6.7					
2022	\$1.37	2.50%	5.0	\$6.8	\$0.0	\$6.8					
2023	\$1.37	2.25%	5.1	\$7.0	\$0.0	\$7.0					
2024	\$1.37	2.00%	5.2	\$7.1	\$0.0	\$7.1					
2025	\$1.36	1.75%	5.3	\$7.2	\$0.0	\$7.2					
2029	\$2.33	1.25%	5.7	\$13.4	-\$0.3	\$13.1					
2035	\$2.33	1.00%	6.1	\$14.3	-\$0.3	\$14.0					
2040	\$2.32	1.00%	6.4	\$15.0	-\$0.4	\$14.6					
2045	\$2.32	1.00%	6.8	\$15.7	-\$0.4	\$15.3					
2050	\$2.32	1.00%	7.1	\$16.5	-\$0.5	\$16.0					

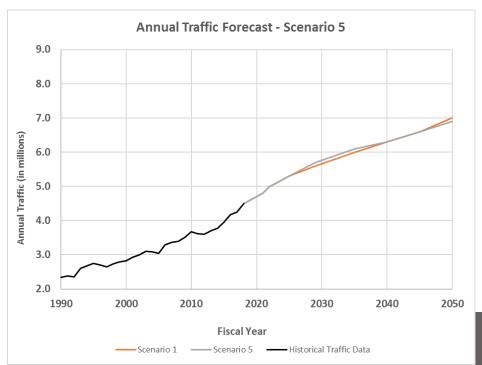


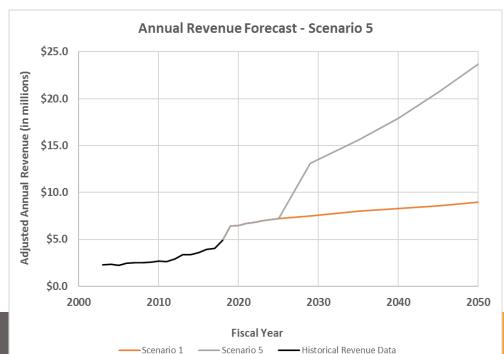


- Scenario 1 —— Scenario 4 —— Historical Revenue Data

#### Scenario 5 – New Bridge Opens in FY2029-AET, Toll Hike & Inflation

Traffic	and Reven	ue Forecas	t - New Bridge	e Opening with	n AET, Toll Hike	e, Inflation
Fiscal Year	Average Toll	YoY Growth	Annual Traffic (in millions)	Annual Revenue (in millions)	Net Change in O&M (in millions)	Adjusted Annual Revenue (in millions)
2018	\$1.09	6.10%	4.5	\$4.9		\$4.9
2019	\$1.39	2.50%	4.6	\$6.4	\$0.0	\$6.4
2020	\$1.38	2.50%	4.7	\$6.5	\$0.0	\$6.5
2021	\$1.38	2.50%	4.8	\$6.7	\$0.0	\$6.7
2022	\$1.37	2.50%	5.0	\$6.8	\$0.0	\$6.8
2023	\$1.37	2.25%	5.1	\$7.0	\$0.0	\$7.0
2024	\$1.37	2.00%	5.2	\$7.1	\$0.0	\$7.1
2025	\$1.36	1.75%	5.3	\$7.2	\$0.0	\$7.2
2029	\$2.33	1.25%	5.7	\$13.4	-\$0.3	\$13.1
2035	\$2.62	1.00%	6.1	\$15.9	-\$0.3	\$15.6
2040	\$2.89	1.00%	6.3	\$18.3	-\$0.4	\$17.9
2045	\$3.18	1.00%	6.6	\$21.1	-\$0.4	\$20.7
2050	\$3.51	1.00%	6.9	\$24.2	-\$0.5	\$23.7





# **Questions?**

