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17-March-2024 7:00:31 AM

17-March-2024 9:11:59 AM

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FTA FM ScT Mar 17 2024 - FLEX BUD 30

FTA FM FTA FM Mar 17 2024, SP (IP 2024), 2024.BUDGET.V2 as basis, COVID BUDGET , Interest Rates 3, Borrowing determined by Capital, MTCE A 30 - FLEX BUD

Mar 17 2024

Fictional Transportation Authority

Large City, North America

Financial Model

Bus, Rapid Transit Rail, Commuter Rail, and Seabus Public Transportation

Debt and Sinking Fund payments per Treasury Forecast for Existing Debt and Existing Bond Renewals

Minimum Desired Cash Balance is OFF (i.e. negative cash OK)

Minimum Operating Line is OFF

AR, AP, Inv, and Prepaid Exp per "Setup" worksheet

Notes

This model rolls forward from the December 31, 2014 Balance Sheet

ACTUAL to December 31, 2022 (8 years of ACTUAL)

LATEST VIEW to December 31, 2023 (1 year of LATEST VIEW)

BUDGET to December 31, 2024 (1 year of BUDGET)

FORECAST to December 31, 2036 (12 years of FORECAST)

CAPITAL EXPENDITURES - Jan 01, 2023 to Dec 31, 2036

315 Total Projects ON, 315 Total Projects

\$15,665,819,635 Gross Capital Expenditures (including inflation, excluding IDC)

\$10,570,276,297 Funding and Recoveries (asset ownership transfers) by Federal, Provincial (State), Municipal and all other sources (including inflation, excluding IDC)

\$5,095,543,338 Net Capital Expenditures to be financed from FTA Sources (including inflation, excluding IDC)

\$8,985,844,794 of Capital Expenditures to be converted to Assets owned by FTA (including inflation, excluding IDC)

\$6,679,974,842 of Capital Expenditures to be converted to Assets owned by Federal or Provincial (State) governments or Other (including inflation, excluding IDC)

ALL Projects financed with LTD at the end of Q3, Sep 30, each year, for 100% of the FTA portion of eligible Capital dollars spent Jan 01 to Dec 31 each year (including Inflation and IDC)

DEBT included as of December 31, 2022

Operating Line Interest is paid in the following quarter based on the ending balance of the previous quarter

See "Setup" worksheet for adjustments to LTD borrowing

All SF Payments ON

Financial Model - CONFIDENTIAL

Fictional Transportation Authority
Statement of Cash Flow
in thousands of dollars

for the year ended December 31
Cash generated from (used in)

Operating Activities

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	Actual	Actual	Actual	Actual	Latest View	Budget	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
SURPLUS	494,681	179,396	96,895	66,808	(54,544)	45,637	(209,222)	(78,870)	(242,919)	(411,661)	(373,262)	(515,272)	(510,058)	(531,093)
Amortization of tangible capital assets	206,215	204,645	223,377	259,730	264,292	265,951	264,706	277,560	307,017	334,058	362,607	381,168	397,451	422,046
Amortization of Bond Discounts-MFA	195	187	155	163	183	221	159	142	134	(0)	-	-	-	-
Amortization of Bond Discounts	(2,229)	(1,994)	(318)	(2,664)	(286)	(116)	(354)	(366)	(352)	(216)	(724)	(879)	(957)	(868)
Debt Issue Costs - Short Term	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deferred Concession Credit	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)	(28,395)
Deferred Government Transfers	(10,631)	(291,978)	179,196	66,284	273,581	(146,517)	4,731	(209,106)	(225,774)	20,928	(8,064)	217,346	(100,046)	179,699
	659,836	61,860	470,911	361,927	454,831	136,782	31,625	(39,035)	(190,290)	(85,286)	(47,839)	53,969	(242,005)	41,389
Assets Held for Sale	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accounts Receivable	5,510	135,406	(26,213)	26,508	(22,701)	(8,795)	(3,941)	(9,444)	(4,323)	(6,868)	(5,521)	(4,694)	(4,895)	(5,418)
Loans Receivable	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prepaid Expenses & Deposits	(3,543)	5,110	(4,271)	(36,467)	40,802	(2,260)	(2,216)	(4,780)	(703)	(1,422)	(1,376)	605	(2,729)	(1,988)
Inventory	(13,888)	(4,419)	(547)	(2,217)	(2,261)	(2,307)	(2,354)	(2,401)	(2,449)	(2,499)	(2,549)	(2,600)	(2,653)	(2,706)
Accounts Payable and Accruals	39,674	8,178	(18,324)	50,080	(33,325)	31,698	31,084	67,048	9,862	19,942	19,302	(8,484)	38,282	27,880
Deferred Revenue and Deposits	7,066	(2,306)	4,555	24,328	2,615	4,182	1,874	4,491	2,056	3,266	2,625	2,328	2,328	2,576
Employee Future Benefits	2,481	(13,698)	8,420	4,332	9,736	9,136	10,035	10,726	11,399	11,629	12,018	12,803	13,328	13,694
	37,300	128,271	(36,381)	66,565	(5,135)	31,654	34,482	65,640	15,841	24,048	24,499	(139)	43,661	34,039
Net Cash Flows - Operating	697,137	190,132	434,529	428,492	449,696	168,436	66,107	26,604	(174,450)	(61,238)	(23,339)	53,830	(198,344)	75,428

Financing Activities

Operating Line	(60,000)	-	60,000	(120,000)	-	-	-	-	-	-	-	-	-	-
Investment in Subsidiary	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sinking Fund - MFA	(26,614)	(76,149)	(11,424)	5,110	(73,930)	(11,572)	(74,542)	206,611	201,097	358,735	138,266	(4,518)	(4,693)	(4,892)
Sinking Fund - MFA (Adj ONLY)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Lease Payable	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Notes Due Beyond One Year-MFA	(50,000)	-	(66,200)	(80,000)	-	(65,000)	-	(280,000)	(260,000)	(400,000)	(150,000)	-	-	-
Notes Due Beyond One Year-Variable	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Notes Due Beyond One Year	250,000	450,000	-	300,000	423,489	385,614	429,187	459,385	438,643	339,315	440,407	465,315	390,908	271,073
SEB Contractor Liability	(7,034)	(9,040)	(11,211)	(15,155)	(19,492)	(24,252)	(29,469)	(35,180)	(41,422)	(48,238)	(55,673)	(63,774)	(72,592)	(82,183)
P3 Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Deferred Lease Inducements	921	1,642	(981)	(1,253)	(3,441)	(718)	(693)	(796)	(963)	(1,510)	(1,700)	(1,827)	(1,961)	(2,056)
Net Cash Flows - Financing	107,274	366,454	(29,815)	88,702	326,626	284,071	324,483	350,020	337,355	248,302	371,301	395,196	311,662	181,942

Investing activities

Land - General	(15,556)	(103,500)	132	144	(700)	(2,986)	-	(1,783)	(4,069)	(5,373)	-	-	(261,168)	-
Land Held for Development	(1,676)	(2,356)	(7,923)	19,975	-	-	-	-	-	-	-	-	-	-
Land Improvements	(6,439)	(934)	(12,847)	(657)	-	-	(5,459)	-	-	-	-	-	-	-
Buildings	(6,355)	(22,685)	(27,267)	(23,513)	(20,897)	(14,608)	(46,656)	(314,022)	(197,988)	(53,853)	(19,305)	(181,386)	(645,840)	(33,668)
Bridges, Stations	99,871	(356,347)	(41,629)	(151,680)	(1,784)	-	-	-	(21,736)	-	(505,921)	-	-	-
Vehicles	(493,617)	9,124	(7,857)	(63,091)	(61,946)	(97,431)	(95,542)	(280,281)	(183,666)	(60,333)	(211,392)	(20,373)	(170,936)	(353,736)
Equipment	(98,183)	(104,294)	(89,288)	(150,678)	(206,459)	(116,477)	(68,521)	(380,971)	(327,867)	(655,010)	(91,124)	(38,348)	(51,121)	(71,682)
Capital Spares	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WIP	5,115	(9,102)	(9,316)	(9,534)	(262,511)	(400,025)	(468,271)	317,042	172,763	373,374	247,600	(254,805)	645,924	2,702
Reconciling Adj for Dispositions	0	0	(0)	0	(0)	(0)	0	(0)	(0)	0	(0)	0	0	0
	(516,840)	(590,093)	(195,995)	(379,033)	(554,297)	(631,527)	(684,449)	(660,015)	(562,564)	(401,195)	(580,143)	(494,912)	(483,141)	(456,384)
Short Term Investments	(274)	(42,658)	(87,176)	31,973	-	-	-	-	-	-	-	-	-	-
MFA Debt Reserve	1,431	(576)	2,293	2,510	(3,198)	1,935	(375)	9,184	4,034	6,235	2,316	(54)	(55)	(56)
	1,157	(43,234)	(84,883)	34,483	(3,198)	1,935	(375)	9,184	4,034	6,235	2,316	(54)	(55)	(56)
Restricted Cash - Government Transfers	(26,103)	13,419	(26,649)	(120,891)	(250,391)	150,627	33,937	126,314	161,837	(101,140)	(101,018)	(332,280)	(44,428)	(289,650)
Restricted Cash - SF (FTA & New Capital)	(48,804)	(61,315)	(72,926)	(75,114)	(89,015)	(113,219)	3,206	(141,377)	(165,429)	(129,866)	(166,323)	(211,297)	(206,759)	(214,344)
Restricted Cash - Land Reserve	(12,000)	(12,000)	(12,000)	(12,000)	-	-	-	-	-	-	-	-	-	-
Restricted Cash - Green Bonds	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Restricted Cash - TPCC	1,262	8,341	(11,079)	(2,745)	-	-	-	-	-	-	-	-	-	-
	(85,645)	(51,555)	(122,654)	(210,751)	(339,407)	37,408	37,143	(15,063)	(3,591)	(231,006)	(267,342)	(543,577)	(251,186)	(503,994)
Net Cash Flows - Investing	(601,328)	(684,882)	(403,532)	(555,301)	(896,902)	(592,185)	(647,682)	(665,895)	(562,121)	(625,965)	(845,168)	(1,038,544)	(734,382)	(960,434)

Increase (Decrease) in Cash

	203,082	(128,296)	1,182	(38,107)	(120,580)	(139,678)	(257,092)	(289,270)	(399,216)	(438,901)	(497,206)	(589,518)	(621,064)	(703,064)
Cash at beginning of Period	480,869	683,952	555,656	556,838	518,731	398,151	258,473	1,381	(287,890)	(687,106)	(1,126,007)	(1,623,213)	(2,212,731)	(2,833,795)
Ending Cash Balance	683,952	555,656	556,838	518,731	398,151	258,473	1,381	(287,890)	(687,106)	(1,126,007)	(1,623,213)	(2,212,731)	(2,833,795)	(3,536,859)

Financial Model - CONFIDENTIAL

FTA POLICY, in thousands of dollars (unless otherwise specified)

	Year End 2019	Year End 2020	Year End 2021	Year End 2022	Year End 2023	Year End 2024	Year End 2025	Year End 2026	Year End 2027	Year End 2028	Year End 2029	Year End 2030	Year End 2031	Year End 2032
200 INC REV ⁽⁴⁾ OFF														
REV BUDGET														
SP (IP 2024)														
SP ADJ OFF														
OFFICE USE ONLY Proposed - Rebuild	Actual	Actual	Actual	Actual	Latest View	Budget	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast
POLICY REV OFF														
Established Borrowing Limit - Gross Direct Debt <i>Last Approved Amount Scenario</i>	5,500,000	5,500,000	5,500,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000
Gross Direct Debt	3,441,200	3,891,200	3,885,000	3,985,000	4,408,489	4,729,103	5,158,291	5,337,676	5,516,319	5,455,634	5,746,041	6,211,356	6,602,264	6,873,337
Available Room	2,058,800	1,608,800	1,615,000	4,015,000	3,591,511	3,270,897	2,841,709	2,662,324	2,483,681	2,544,366	2,253,959	1,788,644	1,397,736	1,126,663
(Gross Direct Debt) / (Borrowing Limit) (%)	62.6	70.7	70.6	49.8	55.1	59.1	64.5	66.7	69.0	68.2	71.8	77.6	82.5	85.9
SEB Contractors Liability	1,033,342	1,024,303	1,013,092	997,937	978,444	954,192	924,723	889,543	848,121	799,882	744,209	680,436	607,844	525,661
P3 Liability	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sinking Fund (MFA and MFA Deposits)	(757,314)	(834,039)	(843,169)	(835,549)	(912,677)	(922,314)	(997,232)	(781,437)	(576,306)	(211,336)	(70,754)	(75,326)	(80,074)	(85,023)
Sinking Fund (FTA and for New Capital Projects)	(192,198)	(253,513)	(326,439)	(401,553)	(490,569)	(603,788)	(600,582)	(741,960)	(907,388)	(1,037,254)	(1,203,578)	(1,414,875)	(1,621,634)	(1,835,978)
Bond Discounts	21,664	19,857	19,694	17,193	17,090	17,195	16,999	16,775	16,557	16,341	15,617	14,738	13,781	12,914
Gas Tax Funding OK	105,494	(43,392)	(136,822)	(221,972)	(407,711)	(554,715)	(656,092)	(617,079)	(619,017)	(432,367)	(514,505)	(795,027)	(1,080,083)	(1,382,426)
Net Debt⁽¹⁾	3,546,694	3,847,808	3,748,178	3,763,028	4,000,778	4,174,388	4,502,199	4,720,597	4,897,301	5,023,267	5,231,536	5,416,329	5,522,181	5,490,911
(SF Total)/(Gross Debt Total) (%)	27.6	27.9	30.1	31.0	31.8	32.3	31.0	28.5	26.9	22.9	22.2	24.0	25.8	27.9
Operating Revenue	2,082,456	1,679,529	1,762,739	2,029,136	2,140,059	2,260,413	2,304,080	2,407,932	2,456,741	2,532,585	2,595,167	2,648,630	2,701,133	2,761,957
Net Debt / Annual Operating Revenues (%) (< 300)	170.31	229.10	212.63	185.45	186.95	184.67	195.40	196.04	199.34	198.35	201.59	204.50	204.44	198.81
Gross Interest / Operating Revenues (%) (< 20)	10.7	12.2	11.9	10.1	9.9	10.3	10.6	10.6	10.5	10.0	9.5	9.8	10.1	10.1
Net Debt per capita (\$/capita) ⁽³⁾ (< 2,000)	1,110.1	1,192.7	1,150.6	1,143.8	1,204.6	1,244.7	1,330.0	1,381.8	1,420.0	1,443.5	1,489.9	1,529.0	1,545.2	1,523.1
Cash and Short Term Investments (CASTI)	759,906	674,268	762,626	692,546	571,966	432,288	175,196	(114,074)	(513,291)	(952,192)	(1,449,398)	(2,038,916)	(2,659,980)	(3,363,044)
Operations and Debt Service Cost	2,260,051	1,676,626	2,263,614	2,323,458	2,759,793	2,613,792	2,775,493	2,895,608	2,934,285	3,184,968	3,411,793	3,623,135	3,521,571	4,026,729
CASTI as a percent of Total Funding Requirements (%) ⁽²⁾	33.6	40.2	33.7	29.8	20.7	16.5	6.3	(3.9)	(17.5)	(29.9)	(42.5)	(56.3)	(75.5)	(83.5)
Minimum CASTI required to meet Policy (%)	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Minimum CASTI required to meet Policy (\$)	271,206	201,195	271,634	278,815	331,175	313,655	333,059	347,473	352,114	382,196	409,415	434,776	422,589	483,208
Excess/(shortfall) from minimum	488,700	473,073	490,993	413,731	240,791	118,633	(157,863)	(461,547)	(865,405)	(1,334,388)	(1,858,813)	(2,473,692)	(3,082,568)	(3,846,252)
Cash and Short Term Investments (CASTI) Y/Y Change <i>FTA FM Sct Mar 17 2024 - FLEX BUD 30</i>	203,356	(85,638)	88,358	(70,080)	(120,580)	(139,678)	(257,092)	(289,270)	(399,216)	(438,901)	(497,206)	(589,518)	(621,064)	(703,064)

⁽¹⁾ Includes FTA's Direct Debt, net of sinking funds and debt reserve deposits

⁽²⁾ Funding Requirements = Total Expenses + Debt Service costs (excluding Depreciation and Capital funding to Municipalities)

⁽³⁾ Includes all Direct and Indirect Debt

⁽⁴⁾ INC REV - Incremental ANNUAL Revenue is in millions of dollars
INC REV - begins in 2023, evenly distributed over four quarters

Max net Debt per Net Debt/Annual Operating Revenue (%) (<300) 6,247,369 5,038,586 5,288,216 6,087,408 6,420,176 6,781,238 6,912,241 7,223,796 7,370,222 7,597,756 7,785,502 7,945,891 8,103,398 8,285,870

Debt Reduction Required to meet Net Debt/Annual Operating Revenue - - - - - - - - - - - - - - -

Fictional Transportation Authority
 Bus, Rapid Transit Rail, Commuter Rail, and Seabus Public Transportation
 Large City, North America

Incremental Revenue Required to meet POLICY by Scenario (aka GAP)

in thousands of dollars

Note: This is the EXACT GAP (Revenue shortfall) for a specific set of Inputs to meet POLICY; if ANY of those inputs change, this table will need to be re-generated; it takes about 45 minutes to do that (on a fast computer)
 Instead of re-generating this table, a good estimate of the "2023 to 2032 Average Annual GAP" can be made by dividing the 2032 "Excess/(shortfall) from minimum" (shown in cell DJ47 of "POLICY") by 10
 Although that is a good estimate of the "2023 to 2032 Average Annual GAP", it does not provide GAP numbers in the early years - those numbers are important to decision makers
 To update the EXACT GAP for the current set of inputs, click macro "aaaaaFind_GAP_for_Current_Selection" - takes about 5 minutes on a fast computer

SP (IP 2024)	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2023 to 2032 Total	2023 to 2032 Avg Annual GAP
Major Rapid Transit Extension, to Wayward Heights, \$B 4.789 gross, \$B 0.214 net cost to FTA																		
Scenario 1 High Revenue	-	-	-	-	-	30,064	322,005	374,823	418,523	509,924	495,419	646,803	723,702	698,697	770,350	812,580	2,797,560	279,756
Scenario 2 Mid Revenue	-	-	-	-	164,912	305,633	400,797	464,896	519,188	610,965	599,574	762,473	840,724	815,852	897,582	943,983	3,828,438	382,844
Scenario 3 Low Revenue	-	-	-	119,764	444,041	461,847	570,868	651,009	706,557	807,491	801,212	970,012	1,053,529	1,034,944	1,116,150	1,164,335	5,532,803	553,280
Scenario BUDGET Revenue	-	-	-	-	164,375	305,660	400,796	464,896	519,188	610,965	599,574	762,473	840,724	815,852	897,582	943,983	3,827,926	382,793

N.B. these numbers include the incremental revenue impacts to working capital accounts (AR, AP, PP, and Deferred Revenue and Deposits) per "Working Capital Forecasts (by Quarter)" in "Setup" and interest earned on cash balances