

Fiscal Impact Model

City of Falls Church Presentation to Economic Development Authority November 2, 2015

> Bethesda, MD | 301.320.6900 Bradenton, FL | 443.280.0723

TischlerBise.com



TischlerBise Experience



Amherst County Augusta County Charles County Chesapeake Fairfax

Falls Church

Frederick County

Henrico County Isle of Wight County James City County Leesburg Norfolk Poquoson Powhatan County Prince George County Prince William County Spotsylvania County Stafford County Suffolk Sussex County

- Fiscal, economic, and planning consultants
- National Practice
- Fiscal Impact Evaluations (800+)
- Impact Fees (900+)
- Infrastructure Needs & Revenue Strategies
- Public and Private Sector Experience



Falls Church Fiscal Model Overview

Purposes of Fiscal Impact Model are to:

- Evaluate the fiscal impact of development proposals on case-by-case basis
- Compare a range of impacts and variations for one project
- Project potential direct revenues to the City from the project itself (no spin-offs)
- Project potential operating impacts on services from the project based on current levels of service



Fiscal Impact Analysis

- Fiscal impact analysis: Cash flow to the public sector
- Are the revenues generated by new growth enough to cover the resulting service and facility demands?
- Based on current levels of service
- Revenue minus expenditures = net surplus or net deficit
- Fiscal impact analysis helps to recognize that there are contributors and recipients in a community
- Aim is to assist the City to meet planning and fiscal goals with deeper understanding of connection between land use decisions and revenue/cost impacts
 - » Often leads to discussions and policy on "who should pay for what"



Economic Impact Analysis

- Economic impact analysis addresses overall economy of the community
- Residential development generates economic impacts:
 - Construction phases and consumer spending (could be local or not)
- Nonresidential development generates economic impacts:
 - » Direct and indirect job creation and real disposable income
- Economic impacts do not follow jurisdictional lines
- Large portion of economic output likely flows out of jurisdiction, region, and possibly state
- Resident spending for mortgages, car payments, & insurance typically not sources of local government revenues



Municipal Budgeting

- Municipal budgeting is primarily "revenue driven"
- Revenue forecasts are used to establish spending targets
- Budget is based on available resources
- Contrast with fiscal impact analysis, which projects revenues and expenditures separately:
 - » Costs needed to maintain current City levels of service
 - » Direct revenues generated from the development being tested



Model Approach and Influencing Factors

- Use City current levels of service as reflected in current budget
- Supplemented with departmental interviews and data analysis
- Use characteristics of new development as drivers
 - » Property values
 - » Sales per square foot
 - » Household size
 - » Student generation rates
 - » Employees per square foot
 - » Vehicle trips





- Developed in Excel and Visual Basic
- Replicates City budget organization and revenue structure
- Transparent: All data, assumptions, and formulas are shown
- Can model up to three scenarios at a time
- Can model multi-year impacts
- Allows for flexibility
 - » Additional modules can be integrated at a later date





Development Project Model: Inputs

X			Falls	Church Fiscal	Model_2015_v	1.xls [Compa	tibility Mode]	- Microsoft Exe	cel			-		- 0 <mark>- x</mark>
File Home Insert Page Layo	out Form	ulas Data	Review	View Ad	d-Ins Acr	obat B							۵	() - ē
Cut Century Gothic	: * 10 *	A* A* =	= = 🕺	** 📑 Wr	ap Text	General		≤₹			*	Σ Auto	Sum * A	
Paste B I U -	- 3	•• <u>A</u> • ≣	≡ ≡ ∅	Me	rge & Center	* \$ * %	• •.0 .00 • • 00. •.0	Conditional	Format Ce	Insert	Delete Forma	at Clear	Sort	& Find &
Clipboard 🖓	Font	15	A	lignment	1	Nur	mber 5	Formatting	Styles	est	Cells		Editing	* Select *
្រីវី ដែលដែលដែល ស្មែរ ។														
$s_{25} \neq f_x$														
Δ	B	C	D	F	F	G	Н	1	J	к	L.	М	N	0
21 22 Input for Project One											-			
22 Input for Project One 23														
24 Name of Project One: 25	Scenario 1													
26 SCENARIO 1 RESIDENTIAL DEVELO	PMENT CO	MPONENT												
Type of units	Total number of	Number of units	Assessed value per	Avg Sq. Ft.	Student generation	Persons per	Trip generation	Trip adj.	Inspectable	Utility Tax	Average Building	Average Rent per	Occupa	BPOL TAX
28	units	each year	unit	peronii	rate	Unii	rate	Idcioi	эг	peronii	Unit	Unit	ncy kale	Kale
29 Single Family Detached	0	0	\$654,549	0	0.62	2.86	9.52	50%	0	\$158	\$0			na
30 Townhouse - Owner Occuppied	0	0	\$587,451	0	0.36	2.17	5 <mark>.</mark> 81	50%	0	<mark>\$</mark> 143	\$0			na
31 Townhouse - Renter Occuppied	0	0	\$587,451	0	0.36	1.73	5.81	50%	0	\$143	\$0			\$0.0038
32 Mid-Rise Apartments studios' + 1's	0	0	\$100,000	0	0.07	1.64	4.20	50%	0	\$83	\$0			\$0.0038
33 Garden Apartments	0	0	\$87,000	0	0.30	2.67	6.59	50%	0	\$60	\$0			\$0.0038
34 Condominiums	0	0	\$406,533	0	0.10	1.35	5.81	50%	0	\$120	\$0			na
35 High Rise Condominiums	0	0	\$406,533	0	0.10	1.80	4.20	50%	0	\$120	\$0			na
36 Age-Restricted Housing	0	0	\$406,533	0	0.00	1.46	3.44	50%	0	\$19	\$0			\$0.0038
37 ADU Townhouse	0	0	\$194,342	0	0.00	1.73	5.81	50%	0	\$143	\$0			na
38 ADU Condo	0	0	\$140,675	0	0.00	1.35	5.81	50%	0	\$120	\$0			na
39 Mid-Rise Apartments 2 bdrms.	0	0	\$255,000	0	0.22	1.64	4.20	50%	0	\$83	\$0			\$0.0038
40 Custom Residential Housing Type 1	0	0	\$0	0	0.00			50%	0		\$0			\$0.0038
41 Custom Residential Housing Type 2	0	0	\$0	0	0.00			50%	0		\$0			\$0.0038
42 Custom Residential Housing Type 3	0	0	\$0	0	0.00			50%	0		\$0			\$0.0038





Revenue Modules

		Go To Main Menu							
ACTIVE SCENARIO	D: Scenario 1								
ENERAL FUND BASE YEAR	BUDGET AND REVENUE FACTOR PROJECTION ME		PUTS						
Devenue	Davianua	Base Vear	Project Using	Demendular		Annual	LOS Std		
Category	Name	Budget Amoun	t Which Demand Rase?	Multiplier	Methodology	(+/-)	ə per Demand Unit		
	Real Estate Property Taxes	\$44 728 000		10,000,00	CONSTANT	(+/-) I	\$1 315		
u.es	Personal Property Taxes	\$4,302,700		1 00	CONSTANT	0%	\$1.00		
	Non-Assessed Property Taxes	\$300,000		1.00	CONSTANT	0%	\$0.00		
	Local Sales and Use Taxes	\$3,848,600	RETAIL SALES	1.00	CONSTANT	0%	195		
	B C D E F G IE Go To Main Menu endrio 1 IGET AND REVENUE FACTOR PROJECTION METHODOLOGY INPUTS Annual Lio Colspan="2">Colspan="2" <colspan="2">Colspan="2"<colspan="2">Colspan="2"<colspan="2">Colspan="2"<colspan="2">Colspan="2"<colspan="2">Colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<co< td=""><td>\$1.00</td><td>3%</td></colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<co<></colspan="2"></colspan="2"></colspan="2"></colspan="2"></colspan="2">	\$1.00	3%						
	Cigarette Tax	C D E F G H I J Go To Main Menu Go To Main Menu ODOLOGY INPUTS Base Year Project Using Demand Unit Projection Change \$ per Jaget Amount \$44,728,000 CUM AV 10,000,002 (+/-) Demand Unit \$ 1,00 \$44,728,000 CUM AV 10,000,002 (+/-) Demand Unit \$ 1,00 \$44,728,000 CUM AV 10,000,002 (+/-) Demand Unit \$ 1,00 \$3,348,600,00 FIKED 1,00 CONSTANT 0% \$ 1,00 \$3,348,600,00 POP AND JOBS 1,00 CONSTANT 0% \$ 1,00 \$2,000,000 TOTAL OF HOTEL BILLS 1,00 CONSTANT 0% \$ 1,00 \$2,000,000 TOTAL OF HOTEL BILLS 1,00 CONSTANT 0% \$ 1,00 \$2,000,000 POP AND JOBS 1,00 CONSTANT 0% \$ 1,00 \$2,000,071 AXES 1,00 CONSTANT 0% \$ 2,00 \$ 5,2,919							
	Meals Tax	\$2,700,000	TOTAL OF MEAL BILLS	1.00	CONSTANT	0%	4%		
	Other Sales and Use Taxes	\$283.000	POP AND JOBS	1.00	CONSTANT	0%	\$11.27		
	Hotel Tax	\$0	TOTAL OF HOTEL BILLS	1.00	CONSTANT	0%	5%		
	Gross Receipts Business Tax	\$3,316,000	BPOL TAXES	1.00	CONSTANT	0%	\$1.00		
	Other Taxes	\$996,000	POP AND JOBS	1.00	CONSTANT	0%	\$39.68	\$62,919,300	
icenses, Fees, & Permits	Building and Inspection Fees	\$545,000	BUILDING AND INSPECTION FEES	1.00	CONSTANT	0%	\$1.00		
	Other Licenses, Fees, & Permits	\$231,000	POP AND JOBS	1.00	CONSTANT	0%	\$9.20	\$776,000	
Grants & Contributions	Grant RevenueFederal	\$289,986	FIXED	1.00	CONSTANT	0%	\$0.00		
	Other State Categorical Aid	\$677,727	FIXED	1.00	CONSTANT	0%	\$0.00		
	State Non-Categorical	\$2,920,877	FIXED	1.00	CONSTANT	0%	\$0.00		
	State Categorical	\$1,543,000	FIXED	1.00	CONSTANT	0%	\$0.00		
	Developer Contributions	\$0	FIXED	1.00	CONSTANT	0%	\$0.00		
	Other Contributions	\$13,000	FIXED	1.00	CONSTANT	0%	\$0.00	\$5,444,590	
Charges for Services	Charges for Services - GenGov't	ETION METHODOLOGY INPUTS Annual Badget Amount Which Demand Base? Demand Unit Projection Change \$ per Budget Amount Which Demand Base? Annual Multi Projection Change \$ per Demand Unit Projection Change \$ per Demand Unit Projection Change \$ per Demand Unit \$ \$4,422,000 CUM AV LOS \$1d \$44,728,000 CUM AV CUM AV 10,000,00 CONSTANT 0% \$1,010 \$ \$ 0,000 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$							
	Charges for Services - Judicial	\$82,292	POP AND JOBS	1.00	CONSTANT	0%	\$3.28	Jnit J Joint F Joint F	
	Charges for Services - Public Safety	\$954,893	POP AND JOBS	1.00	CONSTANT	0%	\$38.04		
	Charges for Services - Sanitation	\$68,000	POPULATION	1.00	E F G H I J 'o Main Menu Co Main Menu Change \$ per tiplier Methodology (+/-) Demand Unit 200.00 CONSTANT 0% \$1.315 .00 CONSTANT 0% \$1.00 .00 CONSTANT 0% \$0.00 .00 CONSTANT 0% \$0.00 .00 CONSTANT 0% \$0.00				
	Charges for Services - HHS	\$5,100	POPULATION	1.00	CONSTANT	0%	\$0.37		
	Charges for Services - Culture and Recreation	\$1,659,200	POPULATION	1.00	CONSTANT	0%	\$119.37		
	Admin & Motor Pool Fees -Water Fund	\$287,800	FIXED	1.00	CONSTANT	0%	\$0.00		
	Admin & Motor Pool Fees - Sewer Fund	\$37,100	FIXED	1.00	CONSTANT	0%	\$0.00		
	Other Charges	\$1,279,100	FIXED	1.00	CONSTANT	0%	\$0.00	\$4,467,985	
ines & Forfeitures	Court Fines & Forfeitures	\$400,000	POP AND JOBS	1.00	CONSTANT	0%	\$15.93		
	Red Light Violations	\$204,000	VEHICLE TRIPS	1.00	CONSTANT	0%	\$3.19		
	Parking Fines	\$37,000	VEHICLE TRIPS	1.00	CONSTANT	0%	\$0.58		
	Library Fines	\$45,000	POPULATION	1.00	CONSTANT	0%	\$3.24	A / A A	
	Other	\$5,000	HXED	1.00	CONSTANT	0%	\$0.00	\$691,000	
Ise of Property & Money	Investment Revenues	\$0	HXED	1.00	CONSTANT	0%	\$0.00		





Parking Enforcement Officer

Operating Cost Modules

BASE YEAR BUDGET AND FACTOR PROJECTION METHODOLOGY INPUTS											
POLICE DEPARTMENT OPERATIONS					Annual	LOS Std					
Expenditure	FY 2014	Project Using	Demand Unit	Projection	Change	\$ per					
Name	Budget Amount	Which Demand Base?	Multiplier	Methodology	(+/-)	Demand Unit					
Salaries & Wages	\$1,629,140	SEE BELOW	1.00	CONSTANT	0%	\$0.00					
Benefits	\$1,023,105	SEE BELOW	1.00	CONSTANT	0%	\$0.00					
Professional & Contractual	\$16,700	TOTAL POLICE CALLS	1.00	CONSTANT	0%	\$0.70					
Materials, Supplies, & Other	\$208,645	TOTAL POLICE CALLS	1.00	CONSTANT	0%	\$8.75					
Capital Outlay	\$159,000	FIXED	1.00	CONSTANT	0%	\$0.00					
Direct Entry Cost Type 1	\$0	DIRECT ENTRY	1.00	CONSTANT	0%	\$0					
Direct Entry Cost Type 2	\$0	DIRECT ENTRY	1.00	CONSTANT	0%	\$0					
Direct Entry Cost Type 3	\$0	DIRECT ENTRY	1.00	CONSTANT	0%	\$0					
TOTAL	\$3,036,590										
POLICE DEPARTMENT OPERATIONS STAFFING	G INPUT FY 2014 FTE	(Project Using	Current Deman Units Served	% Estimate of Available	Remaining Capacity/ Initial Hire	Estimated Service Capacity					
Category	Positions		Per Position		Inresnoid	Per Position					
Sergeants	1.0		5 960	20%	1 102	5 006					
Corporals	4.0		5,700	20%	1,172	5,000					
Uniform Patrol Officers	13.0		1 834	10%	1,172	1 716					
Parking Enforcement Officer	0.8	VEHICLE TRIPS	85.384	50%	42,692	60,989					
	22.75		00,001	0070	12,072	00,707					
SALARIES											
	Avg Salary /	Benefits	Inflation Adj	LOS Std	SALARY RAI	NGES					
	Staff Member	Multiplier	(+/- Base)	Total Cost	Low	High					
Deputy Chief	\$111,207	45%	0%	\$161,250	\$83,930	\$138,485					
Sergeants	\$79,164	45%	0%	\$114,788	\$58,382	\$99,947					
Corporals	\$75,395	45%	0%	\$109,322	\$55,602	\$95,187					
Uniform Patrol Officers	\$46,632	45%	0%	\$67,616	recruit sala	ry					

45%

0%

\$56,517 *\$29,417*

\$38,978



\$48,538



Outputs

		-		2	-	-	-				
	A	В	С	D	E	F	G	H		J	
21	-		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	
22	Gross Annual Revenues										
23	Real Estate Property Taxes	\$0	\$0	\$0	\$O	\$0	\$0	\$0	\$0	\$O	
24	Personal Property Taxes	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$O	
25	Non-Assessed Property Taxes	\$0	\$0	\$0	\$0	\$0	\$ 0	\$ 0	\$0	\$O	
26	Local Sales and Use Taxes	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
27	Utility Tax	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$O	
28	Cigarette Tax	\$0	\$ 0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0	
29	Meals Tax	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
30	Other Sales and Use Taxes	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$O	
31	Hotel Tax	\$0	\$ 0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0	
32	Gross Receipts Business Tax	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
33	Other Taxes	\$0	\$O	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0	
34	Licenses, Fees, & Permits	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
35	Grants & Contributions	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
36	Charges for Services	\$0	\$ 0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0	
37	Fines & Forfeitures	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
38	Use of Property & Money	\$0	\$0	\$0	\$O	\$0	\$0	\$ 0	\$0	\$O	
39	Miscellaneous	\$0	\$0	\$0	\$0	\$0	\$ 0	\$ 0	\$0	\$0	
40	Interfund Transfers	\$0	\$ 0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
41	Other Financing Sources	\$0	\$0	\$0	\$O	\$0	\$ 0	\$0	\$0	\$O	
42	Schools Intergovernmental (State, Federal, Other)	\$0	\$0	\$0	\$0	\$0	\$ 0	\$ 0	\$0	\$0	=
43	Schools Community Services Fund	\$0	\$0	\$0	\$0	\$0	\$ 0	\$0	\$0	\$O	
44	Schools Food Service Fund	\$0	\$0	\$0	\$O	\$0	\$0	\$0	\$0	\$O	
45											-
46	Gross Revenues	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
47											1
48	Gross Annual Operating Expenditures										
49	Leaislative	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
50	Constitutional Officers [1]	\$0	\$0	\$0	\$0	\$0	\$0	\$O	\$0	\$0	
51	Executive [2]	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
52	Administrative Services [3]	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
53	Community Services: Health and Human Services	\$0	\$0	\$0	\$0	\$0	\$0	\$O	\$0	\$0	
54	Community Services: Parks, Rec, Library	\$0	\$0	\$0	\$O	\$0	\$0	\$0	\$0	\$0	
55	Development Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
56	Environmental Services	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
57	Environmental Services Refuse Collection Vehicles	+-	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$O	
58	Public Safety: Police	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
59	Public Safety: Fire	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
60	Public Safety: Adult Corrections	\$0	\$0	\$0	\$0	\$0	\$0	\$O	\$O	\$O	
61	Clerk of the Court	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
62	Education (Non-FCPS) [4]	\$0	\$0	\$0	\$O	\$0	\$0	\$0	\$0	\$0	Ŧ



How the Model Has Been Used

- Evaluate operating impact from new development proposals (including non-fixed assets) based on current levels of service
- Multiple scenarios frequently tested that vary:
 - » Type and mix of land uses
 - » Student generation rates
 - » Property and retail sales values
- Assumes impact of project "buildout" (100 percent occupancy):
 - » Determine annual ongoing revenue generation potential—after one-time revenues collected
 - » Determine annual ongoing operational impacts



How the Model Has NOT Been Used

- Capital impacts for capacity needs have historically been absorbed by existing fixed assets
 - » There have been minimal other non-school, locally-funded capacity projects in the CIP
- Capacity needs to serve growth addressed by proffer policy
 - » Cash proffers and in-kind contributions for capacity needs are negotiated and collected based on project impact



How the Model Has NOT Been Used

- Model has not been used to model "contributing impacts"
 - » However, this would be captured in property values
- Model has not been designed to predict long-term trends with factors and variables modified after a certain point in time
 - » However, this phenomena is tested with variables and factors
 - E.g., When the City analyzes a range of probable outcomes, student generation rates by unit reflect ALL units (built in any year) to capture and illustrate a range of potential impacts
- Model has not been used to track impacts cumulatively



How the Model is Evolving

- Explore expanding capital portion of the model to include:
 - » Capacity capital projects identified in City's CIP
 - » Capacity projects funded with local dollars
- Maintain consistency with existing proffer policies
- Explore using market absorption to identify short-, mediumand long-term operational and capital impacts
- Explore adding an economic impact component to model that would be reported out separately





Wrap Up

- Model has been deployed consistently over time
- The questions to be answered drive model design; as questions change, model design should change and evolve
- There are other non-fiscal factors to be considered when making land use decisions
- Q & A / Discussion





Appendix: Who Pays?



Source: TischlerBise: P. Tischler, D. Guthrie, and N. Mishkovsky, "Introduction to Infrastructure Financing," ICMA IQ Service Report

