	Red cells can be edited; everything e	
Capital:	Cost estimates to use (inflate 5%/year to 2018 $)	
Stations:		
12-dock (no bikes)	*$*	*36,500*
15-dock (no bikes)	*$*	*41,400*
12-dock (6 bikes)	$	43,500
15-dock (8 bikes)	$	50,800
Station Installation <28 docks (per station):	$	3,600
# of 12-dock stations		**4**
# of 15-dock stations		**0**
Bikes only (ea):	*$*	*1,300*
Bikes (x6 per station)	*$*	*7,800*
Bikes (x8 per station)	*$*	*10,400*
# individual bikes:		**0**
Misc. Construction per station	**$**	**5,000**
Total Capital per station:	**$**	**208,400**
Spare Parts:		
Bike dispenser key (x1)		
Printer Kit (x1)		
Station battery (x1)		
Customer key (x 1000)		
Avg spare part	$	1,000
# Spare Parts (est. required)		**10**
Avg spare parts total cost	**$**	**10,000**
Total Capital:	**$**	**218,400**
Total number of docks:		48
Total number of bikes:		24
Operating:		
2-hour Rebalancing per dock per month	$	109
3-hour Rebalancing per dock per month	$	106
As-needed Admin (hourly)	$	72
As-needed Field (hourly)	$	51
Monthly operating per 15-dock station		
Monthly 3-hr rebalancing, all stations	$	5,100
Annual 3-hour rebalancing, all stations	$	61,200
As-needed Admin, Hours per Month		**3**
As-needed Field, Hours per Month		**6**
As-needed Admin per month	$	220
As-needed Field per month	$	310
Admin per Year	$	2,640

Field per Year	$ 3,720	
~~Est monthly Staff Support (.5 FTE)~~	~~$ 4,170~~	
~~Est Annual Staff Support (.5 FTE)~~	~~$ 50,000~~	
Est Operating per Month	**$ 5,700**	
Est Operating per Year	**$ 67,600**	
Est. Annual Operating per station	$ 16,900	
Revenue / Operating Subsidy:		
Est. Cost recovery per Year		
Est Cost Recovery, Year 1	#REF!	
Est Cost Recovery, Year 2	#REF!	
Est Cost Recovery, Year 3	#REF!	
# bikes in system	24	
Est. revenue per bike per month		
Est. Revenue per bike per month, year 1	#REF!	
Est. Revenue per bike per month, year 2	#REF!	
Est. Revenue per bike per month, years 3-n	#REF!	
Est revenue per month, year 1	#REF!	
Est revenue per month, year 2	#REF!	
Est revenue per month, year 3-n	#REF!	
Est revenue per year, year 1	#REF!	
Est revenue per year, year 2	#REF!	
Est revenue per year, year 3-n	#REF!	
	all stations	per station
Est. operating subsidy, year 1	#REF!	#REF!
Est. operating subsidy, year 2	#REF!	#REF!
Est. operating subsidy, year 3	#REF!	#REF!
Est. operating subsidy, year 4	#REF!	#REF!
Est. operating subsidy, year 5-n	#REF!	#REF!
Total operating:	**#REF!**	

lse is input, cross-reference, or formula

Cost examples / sources:

Falls Church (2017)	Fairfax County (2017)	Motivate / 8D (2016)
		$ 32,830
		$ 37,279
$ 42,212	$ 39,580	$ 39,496
$ 47,786	$ 46,279	$ 46,167
$ 3,200		$ 3,200
$ 1,125		$ 1,111
	$ 60,000	
$ 917		$ 917
$ 590		$ 590
		$ 216
		$ 302
		$ 99
		$ 96
		$ 65
		$ 46
		$ 1,154

30%

Bay Area (TDG est, 2019)		Potential for bulk pricing if coordinating purchases with other jurisdic
		Talk to Motivate - are installation costs going up?
		Pad installation, furniture relocation, etc. (depending on station locat
$	58,842	TDG estimate includes 15-docks, installation, but not misc. constructi
		Spare bikes, printer kits, key dispensers, etc.
$	*1,941*	*TDG estimate is probably a little high*

$	50,000	
		Falls Church estimate is conservative?
		Est. number of bikes purchased with stations; number may be higher
$	110	TDG estimate based on Fairfax County year 3. Probably need to plan
		Also, revenue may be slightly higher or lower depending where statio
		Conservative estimate of cost recovery (before sponsorships) - expec
		Subsidy estimates do not include potential sponsorships
		All numbers in 2018 dollars; assume operating and revenue will both
		All numbers in 2018 dollars; assume operating and revenue will both
		All numbers in 2018 dollars; assume operating and revenue will both

:tions?

tion / layout); County estimate for VDOT work
ion / spare parts

· / lower as bikes are used and redistributed in and outside of the City
for ramp up.
ons / bikes / use / members are located

:t City to be lower than system as a whole

inflate over time?
inflate over time?
inflate over time?

Numbers in red are changeable assumptions. See "cost assumptions" for unit cost details

City of Fairfax Bikeshare Connection to I-66 Corridor						
Phase				Cost		Notes
1	**PRELIMINARY ENGINEERING (PE) & FINAL DESIGN**			**$**	**50,000**	Assume lump sum for any design required for station site planning
	Environmental, Preliminary Design, Survey, Final Design			***$***	***50,000***	
2	**RIGHT-OF-WAY (ROW) & EASEMENTS**			**$**	**-**	Assume stations will be located in public ROW or on private property via agreement (no cost to City)
	Right of Way and easement acquisition			*$*	*-*	
3	**CAPITAL ASSET ACQUISITION**			**$**	**184,000**	- Assumes 10 stations in the City of Fairfax, exact locations to be determined based on on-going feasibility study and public input - Assumes mostly smaller stations for initial system, though may determine need for slightly larger stations at some sites - Project cost does not include stations outside of the City (on the Mason campus, at Vienna Metrorail, in the Town of Vienna, or at other locations in the County); project assumes that station installation at these locations will occur in coordination with the City's project - Unit cost estimates based on Capital Bikeshare vendor pricing, inflated 5% per year to estimate 2018 prices
	Description	***Unit Price***	***Quantity***	***Total Cost***		
	Purchase of stations with included bicycles					
	12-dock station, 6 bikes included with each	*$ 43,500*	***4***	*$*	*174,000*	
	15-dock station, 8 bikes included with each	*$ 50,800*		*$*	*-*	
	Spare parts					
	Average cost $1,000 per item (additional bicycles / bicycle parts, tool kits, printer kits, key dispensers, etc.)	*$ 1,000*	***10***	*$*	*10,000*	
4	**CONSTRUCTION**			**$**	**48,400**	- Station installation estimates based on Capital Bikeshare pricing - Other construction costs associated with installation based on construction estimates for bus stop shelters; costs may be more ore less for some bikeshare stations depending on site conditions
	Description	***Unit Price***	***Quantity***	***Total Cost***		
	Station Installation					
	Installation per station (<28 docks)	*$ 3,600*	*4*	*$*	*14,400*	
	Other Construction					
	Pad installation, relocation of street furniture, etc.	***$ 5,000***	*4*	*$*	*20,000*	
	Construction Subtotal			*$*	*34,400*	
	Mobilization		***5%***	*$*	*2,000*	
	Construction Contingency		***25%***	*$*	*9,000*	
	Construction administration		***10%***	*$*	*3,000*	
4	**MARKETING & PROMOTION**			**$**	**15,000**	
	One-time marketing campaign to launch system			***$***	***15,000***	
TOTAL COST (2018 Dollars)				**$**		**297,000**