

Instructions

Orange Shaded Areas are Inputs	
Blue shaded Areas are selectable Inputs	
White Areas are in between results- do not change these!	
Yellow shaded Areas are results	

Please do not use the any results of this Model without independently validating the assumptions, processes or in between steps

Dense Urban Password Enabled	No									
Include Dense Urban	Yes									
Dense Urban Service Area Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Coverage Area (Sq Km)	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14	3.14
Ramp up coverage %	10%	20%	50%	70%	100%	100%	100%	100%	100%	100%
Dense Urban Area Covered (Sq Km)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Note: 1 Sq mile = 2.59 Sq Km										
Dense Urban Subscriber Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Total Potential Dense Urban Mobile Subscribers	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Penetration Rate	1%	2%	5%	5%	5%	5%	5%	5%	5%	5%
Number of Dense Urban Mobile Subscribers	0	0	0	0	0	0	0	0	0	0

Urban Password Enabled	No									
Include Urban	Yes									
Urban Service Area Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Coverage Area (Sq Km)	31.40	31.40	31.40	31.40	31.40	31.40	31.40	31.40	31.40	31.40
Ramp up coverage %	10%	20%	50%	70%	100%	100%	100%	100%	100%	100%
Urban Area Covered (Sq Km)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Note: 1 Sq mile = 2.59 Sq Km										
Urban Subscriber Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Total Potential Urban Mobile Subscribers	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000
Penetration Rate	1%	2%	5%	5%	5%	5%	5%	5%	5%	5%
Number of Urban Mobile Subscribers	0	0	0	0	0	0	0	0	0	0

Suburban Password Enabled	No									
Include Suburban	Yes									
Suburban Service Area Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Coverage Area (Sq Km)	1,099	1,099	1,099	1,099	1,099	1,099	1,099	1,099	1,099	1,099
Ramp up coverage %	10%	20%	50%	70%	100%	100%	100%	100%	100%	100%
Suburban Area Covered (Sq Km)	0	0	0	0	0	0	0	0	0	0
Note: 1 Sq mile = 2.59 Sq Km										
Suburban Subscriber Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Total Potential Suburban Mobile Subscribers	1,650,000	1,650,000	1,650,000	1,650,000	1,650,000	1,650,000	1,650,000	1,650,000	1,650,000	1,650,000
Penetration Rate	1%	2%	5%	5%	5%	5%	5%	5%	5%	5%
Number of Suburban Mobile Subscribers	0	0	0	0	0	0	0	0	0	0

Rural Password Enabled	No									
Include Rural	Yes									
Rural Service Area Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Coverage Area (Sq Km)	14,566	14,566	14,566	14,566	14,566	14,566	14,566	14,566	14,566	14,566
Ramp up coverage %	10%	20%	30%	40%	50%	50%	50%	50%	50%	50%
Rural Area Covered (Sq Km)	0	0	0	0	0	0	0	0	0	0
Note: 1 Sq mile = 2.59 Sq Km										
Rural Subscriber Information	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Total Potential Rural Mobile Subscribers	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000	1,200,000
Penetration Rate	1%	2%	5%	5%	5%	5%	5%	5%	5%	5%
Number of Rural Mobile Subscribers	0	0	0	0	0	0	0	0	0	0

Maximum Rate / Sub (Mbps)	3	Select 0.5, 1, 2, 2.5 or 3 Mbps								
Oversubscription	50									
Revenue / Sub (\$ / month)	\$29.99	\$28.99	\$27.99	\$26.99	\$25.99	\$24.99	\$23.99	\$22.99	\$21.99	\$20.99

Equipment Pricing	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
3 Sector Base Station Price	\$100,000									
Price Reduction- Base Station	0%	10%	20%	30%	40%	50%	50%	50%	50%	50%
Base Station Price with Price Reduction	\$100,000	\$90,000	\$80,000	\$70,000	\$60,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Backhaul Link per Base Station	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Network Mgmt & Data Equip	\$100	Per Sub								
Subsidy per each new Mobile Unit	\$200	\$200	\$150	\$150	\$100	\$100	\$50	\$50	\$0	\$0

Spectrum Information	
Spectrum Used (GHz)	3.5
Bandwidth of channels (MHz)	5
Number of channels	3
Total Bandwidth Used (MHz)	15
Spectrum cost-per-MHz-pop (\$)	\$1.00
Population- Total pop of Area	0

5.8 GHz does not support mobility, provided only for comparison
 Select 2.5 GHz, or 3.5 GHz
 Select 5 or 10 MHz channels

BTS Paramters Used- Mobile Inbuilding Coverage	
3 sector Capacity Downlink (Mbps) 95% loading	19.665
Cell Radius Dense Urban (Km)	0.000
Cell Radius Urban (Km)	0.000
Cell Radius Suburban Urban (Km)	0.000
Cell Radius Rural (Km)	0.000

Equipment Required- Incremental	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Number of 3 sector Base Stations required	0	0	0	0	0	0	0	0	0	0
Backhaul	0	0	0	0	0	0	0	0	0	0
Number of Mobile Units subsidized	0	0	0	0	0	0	0	0	0	0

Equipment Required- Cumulative	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Number of 3 sector Base Stations Required	0	0	0	0	0	0	0	0	0	0
Backhaul	0	0	0	0	0	0	0	0	0	0
Number of Mobile Units Subsidized	0	0	0	0	0	0	0	0	0	0

Traffic Supported	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Downlink (Mbps)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Number of Subscribers	0	0	0	0	0	0	0	0	0	0
Downlink Average Data Rate / Sub (Kbps)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!

Base Station Capacity (Cap) or Coverage (Cov) driven	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Dense Urban Area	--	--	--	--	--	--	--	--	--	--
Urban Area	--	--	--	--	--	--	--	--	--	--
Suburban Area	--	--	--	--	--	--	--	--	--	--
Rural Area	--	--	--	--	--	--	--	--	--	--

Revenue	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Revenue- Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Revenue - Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Funding Required	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
BTS- Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Backhaul- Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Network Mgmt & Data Equip- Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subsidy Mobile Unit- Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Spectrum Cost- One time charge	\$0									
Total- Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total- Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Cash Flow (Revenue - Funding)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Incremental	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Cumulative	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
NPV	\$0									
Interest Rate for NPV	10%	Select 5%, 10%, 15% or 20%								

Note: High level capital equipment expenditures required has been captured, your specific operating expenses need to be added

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