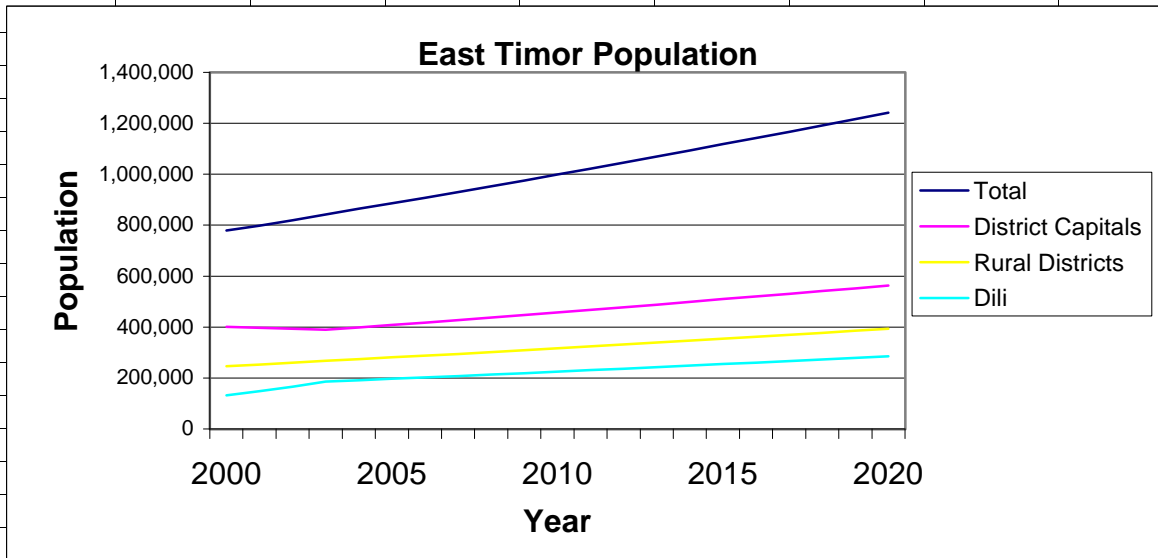


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EAST TIMOR TELECOMMUNICATIONS DEMAND MODEL								
			2000	2003	2005	2010	2015	2020
POPULATION								
Dili City			132,131	185,635	196,940	225,002	254,569	285,222
Growth rates								
for the previous period				12.00%	3.00%	2.70%	2.50%	2.30%
Regional Capitals								
Location								
Aileu			20,364	19,759	20,719	23,214	25,882	28,576
Ainaro			23,646	22,944	24,058	26,955	30,054	33,182
Baucau			46,531	45,149	47,342	53,043	59,140	65,295
Bobonaro			48,663	47,218	49,511	55,473	61,850	68,287
Cova Lima			31,662	30,722	32,214	36,093	40,242	44,430
Ermera			53,544	51,954	54,477	61,037	68,053	75,136
Lautem			47,124	45,724	47,945	53,719	59,894	66,127
Liquica			23,687	22,983	24,100	27,002	30,106	33,239
Manatuto			19,046	18,480	19,378	21,711	24,207	26,727
Manufahi			24,271	23,550	24,694	27,668	30,848	34,059
Oecussi			23,290	22,598	23,696	26,549	29,601	32,682
Viqueque			39,370	38,201	40,056	44,880	50,038	55,246
Total Regional Capitals			401,198	389,282	408,192	457,343	509,914	562,986
Population Growth rates				-1.00%	2.40%	2.30%	2.20%	2.00%
for the previous period								
Rural Districts								
Location								
Dili			33,033	35,886	37,703	42,450	47,098	52,769
Aileu			13,576	14,749	15,495	17,446	19,357	21,687
Ainaro			15,764	17,126	17,993	20,258	22,476	25,183
Baucau			19,942	21,664	22,761	25,627	28,433	31,857
Bobonaro			20,856	22,657	23,804	26,801	29,736	33,317
Cova Lima			13,570	14,742	15,488	17,438	19,348	21,678
Ermera			22,948	24,930	26,192	29,490	32,719	36,659
Lautem			20,196	21,940	23,051	25,953	28,795	32,263
Liquica			15,792	17,156	18,025	20,294	22,516	25,227
Manatuto			12,697	13,794	14,492	16,317	18,103	20,283
Manufahi			16,091	17,481	18,366	20,678	22,942	25,705
Oecussi			15,527	16,868	17,722	19,953	22,138	24,804
Viqueque			26,247	28,514	29,958	33,729	37,423	41,929
Total Rural Districts			246,239	267,508	281,050	316,434	351,085	393,360
Population Growth rates				2.80%	2.50%	2.40%	2.30%	2.10%
for the previous period								
Total population			779,568	842,424	886,182	998,779	1,115,568	1,241,569

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	2000	2003	2005	2010	2015	2020
Population Growth rates for the previous period		2.62%	2.56%	2.42%	2.24%	2.16%



Date	1999	2000				
GDP						
Units of GDP by Sector						
Agriculture	21.3					
Mining & Quarrying	1.5					
Manufacturing	3.5					
Electricity, gas, water	0.7					
Construction	23.2					
Trade & Restaurants	8.1					
Transp. & Comms	8.1					
Finance, rents etc	4.6					
Public Admin	27.8					
Private services	1.2					
Total Units	100.0					
Estimated 2000 GDP (US\$(million))	228	263.0				
Estimated Distribution of GDP Sector Components by Location						
	Dili		District Capitals		Rural districts	
Agriculture	5.00%		10.00%		85.00%	
Mining & Quarrying	0.00%		70.00%		30.00%	
Manufacturing	50.00%		30.00%		20.00%	
Electricity, gas, water	70.00%		30.00%			
Construction	80.00%		20.00%			
Trade & Restaurants	80.00%		20.00%			
Transp. & Comms	70.00%		30.00%			
Finance, rents etc	70.00%		30.00%			
Public Admin	80.00%		20.00%			
Private services	80.00%		20.00%			
Growth Rates (% p.a.) of GDP Sector Components for Dili						
	2000	2003	2005	2010	2015	2020

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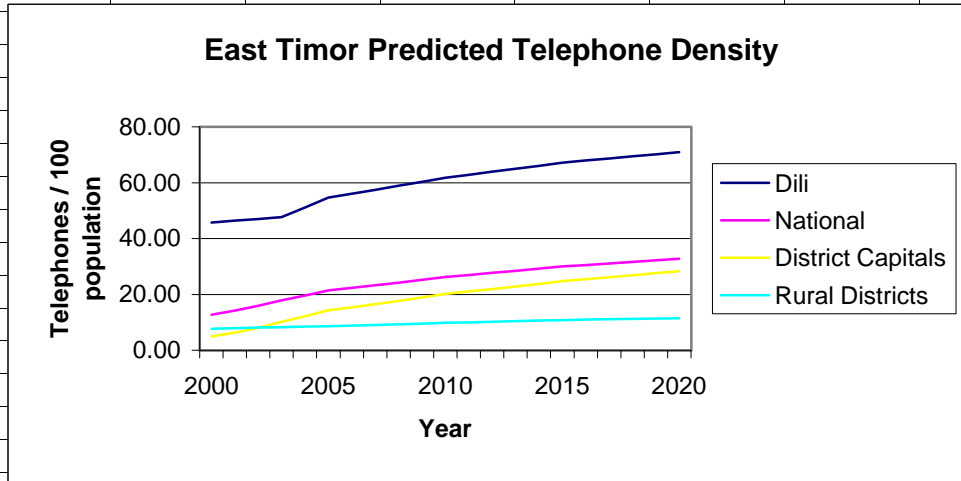
Agriculture				2%	2%	2%	2%	2%	
Mining & Quarrying				0%	0%	0%	0%	0%	
Manufacturing				20%	10%	7%	5%	4%	
Electricity, gas, water				18%	10%	7%	5%	4%	
Construction				15%	15%	7%	5%	4%	
Trade & Restaurants				12%	7%	4%	4%	3%	
Transp. & Comms				12%	6%	5%	4%	3%	
Finance, rents etc				15%	12%	8%	5%	5%	
Public Admin				13%	8%	3%	3%	3%	
Private services				10%	8%	7%	6%	5%	
Date				2000	2003	2005	2010	2015	2020
Growth Rates (% p.a.) of GDP Sector Components for District Capitals									
Agriculture				2%	2%	2%	2%	2%	2%
Mining & Quarrying				20%	5%	4%	4%	4%	4%
Manufacturing				15%	8%	7%	6%	5%	5%
Electricity, gas, water				50%	40%	10%	8%	6%	6%
Construction				40%	30%	12%	8%	6%	6%
Trade & Restaurants				30%	20%	10%	6%	3%	3%
Transp. & Comms				35%	20%	10%	5%	4%	4%
Finance, rents etc				25%	30%	10%	8%	5%	5%
Public Admin				15%	15%	5%	3%	3%	3%
Private services				20%	20%	20%	10%	6%	6%
Growth Rates (% p.a.) of GDP Sector Components for Rural Districts									
Agriculture				3.5%	3.0%	3.0%	2.7%	2.7%	2.7%
Mining & Quarrying				50.0%	20.0%	20.0%	10.0%	6.0%	6.0%
Manufacturing				8.0%	5.0%	5.0%	3.0%	2.5%	2.5%
Distribution of 2000 GDP Units within Dili (US\$(million))									
Agriculture			2.80	2.97	3.09	3.41	3.77	4.16	4.16
Mining & Quarrying			0.00	0.00	0.00	0.00	0.00	0.00	0.00
Manufacturing			4.60	7.95	9.62	13.50	17.23	20.96	20.96
Electricity, gas, water			1.29	2.12	2.56	3.59	4.59	5.45	5.45
Construction			48.81	74.24	98.18	137.70	175.75	213.82	213.82
Trade & Restaurants			17.04	23.94	27.41	33.35	40.58	47.04	47.04
Transp. & Comms			14.91	20.95	23.54	30.04	36.55	42.37	42.37
Finance, rents etc			8.47	12.88	16.16	23.74	30.30	37.76	37.76
Public Admin			58.49	84.40	98.44	114.12	132.30	149.68	149.68
Private services			2.52	3.36	3.92	5.50	7.36	9.39	9.39
Dili GDP (Year 2000 Units)			158.94	232.81	282.93	364.96	448.41	530.63	530.63

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Date			2000	2003	2005	2010	2015	2020
Distribution GDP by Sector for District Capitals (US\$(million))								
Agriculture			5.60	5.94	6.18	6.83	7.54	8.32
Mining & Quarrying			2.76	4.77	5.26	6.40	7.79	9.25
Manufacturing			2.76	4.20	4.90	6.87	9.19	11.46
Electricity, gas, water			0.55	1.86	3.65	5.88	8.65	11.57
Construction			12.20	33.49	56.59	99.73	146.54	196.10
Trade & Restaurants			4.26	9.36	13.48	21.71	29.05	33.68
Transp. & Comms			6.39	15.72	22.64	36.47	46.54	56.62
Finance, rents etc			3.63	7.09	11.98	19.29	28.35	36.18
Public Admin			14.62	22.24	29.41	37.54	43.52	49.23
Private services			0.63	1.09	1.57	3.91	6.29	8.42
District Capital GDP (US\$m)			53.4	105.8	155.7	244.6	333.5	420.8
Distribution GDP by sector in Rural Areas (US\$ millions)								
Agriculture			47.62	52.79	56.01	64.93	74.18	84.75
Mining & Quarrying			1.18	3.99	5.75	14.31	23.05	30.85
Manufacturing			1.84	2.32	2.56	3.26	3.78	4.28
Rural Areas GDP (US\$m)			50.6	59.1	64.3	82.5	101.0	119.9
Estimated GDP (US\$ millions)								
Dili			158.9	232.8	282.9	365.0	448.4	530.6
District Capitals			53.4	105.8	155.7	244.6	333.5	420.8
Rural District			50.6	59.1	64.3	82.5	101.0	119.9
Estimated National GDP (US\$ million)								
East Timor			263.0	397.7	502.9	692.1	882.9	1,071.4
Estimated Growth rates p.a. for GDP								
Dili				13.6%	10.2%	5.2%	4.2%	3.4%
District Capitals				25.6%	21.3%	9.5%	6.4%	4.8%
Rural Districts				5.3%	4.3%	5.1%	4.1%	3.5%
National Average				14.8%	12.5%	6.6%	5.0%	3.9%
Estimated GDP / Cap (US\$)								
Dili			\$1,203	\$1,254	\$1,437	\$1,622	\$1,761	\$1,860
District Capitals			\$133	\$272	\$381	\$535	\$654	\$748
Rural Districts			\$206	\$221	\$229	\$261	\$288	\$305
National Average			\$337	\$472	\$568	\$693	\$791	\$863
Estimated Growth rates for GDP / Cap								
Dili				1.40%	7.03%	2.46%	1.66%	1.10%
District Capitals				26.84%	18.47%	7.00%	4.10%	2.71%
Rural Districts				2.42%	1.77%	2.64%	1.99%	1.16%
National Average				11.85%	9.64%	4.07%	2.69%	1.74%

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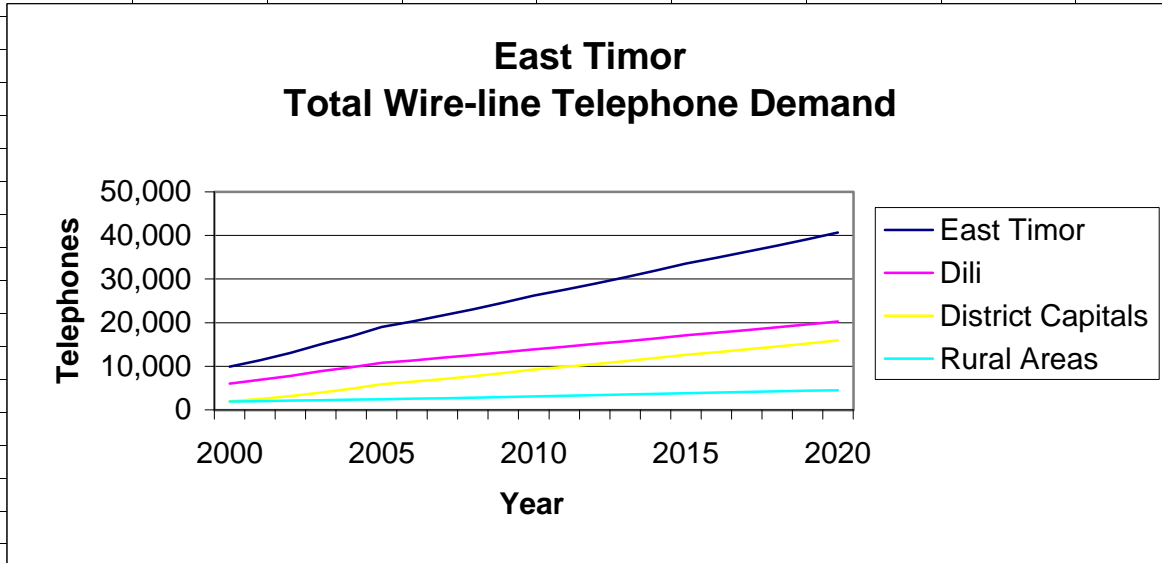
Date			2000	2003	2005	2010	2015	2020
TELEPHONES								
Estimated Telephone Density (Tels/1000) by location								
Dili			45.7	47.7	54.7	61.8	67.2	71.0
District Capitals			5.0	10.2	14.4	20.2	24.8	28.3
Rural Districts			7.7	8.3	8.6	9.8	10.8	11.5
Total			12.7	17.8	21.5	26.2	30.0	32.7
Growth rates								
Dili				1.4%	7.1%	2.5%	1.7%	1.1%
District Capitals				27.1%	18.6%	7.1%	4.1%	2.7%
Rural Districts				2.4%	1.8%	2.7%	2.0%	1.2%
Total				11.9%	9.7%	4.1%	2.7%	1.8%



Date			2000	2003	2005	2010	2015	2020
Availability Factors								
Rural areas			0.00	0.00	0.00	0.30	0.50	0.75
Potential Telephone Demand in each location								
Dili		2400	6,044	8,856	10,773	13,909	17,100	20,243
District Capitals			1,999	3,979	5,871	9,249	12,625	15,949
Rural Districts			1,901	2,220	2,417	3,103	3,802	4,514
Total			9,945	15,056	19,061	26,260	33,526	40,706
Growth rates								
Dili				13.6%	10.3%	5.2%	4.2%	3.4%
District Capitals				25.8%	21.5%	9.5%	6.4%	4.8%
Rural Districts				0.0%	0.0%	0.0%	4.1%	3.5%
Total				14.8%	12.5%	6.6%	5.0%	4.0%

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Date		2000	2003	2005	2010	2015	2020
Telephone Demand							
Dili							
Class of Service							
	Business	40.00%	40.00%	40.00%	40.00%	40.00%	40.00%
	Domestic	60.00%	60.00%	60.00%	60.00%	60.00%	60.00%
Numbers of Services							
	Business	2,418	3,542	4,309	5,564	6,840	8,097
	Domestic	3,627	5,314	6,464	8,345	10,260	12,146



District Capitals							
Total Potential Telephone Demand in each location							
Class of Service							
	Business	50.00%	48.00%	46.00%	44.00%	42.00%	40.00%
	Domestic	50.00%	52.00%	54.00%	56.00%	58.00%	60.00%
Location							
	Aileu	101	202	298	469	641	810
	Ainaro	118	235	346	545	744	940
	Baucau	232	462	681	1,073	1,464	1,850
	Bobonaro	242	483	712	1,122	1,531	1,935
	Cova Lima	158	314	463	730	996	1,259
	Ermera	267	531	784	1,234	1,685	2,129
	Lautem	235	467	690	1,086	1,483	1,873
	Liquica	118	235	347	546	745	942
	Manatuto	95	189	279	439	599	757
	Manufahi	121	241	355	560	764	965
	Oecussi	116	231	341	537	733	926
	Viqueque	196	390	576	908	1,239	1,565
	Total Regional Capitals	1,999	3,979	5,871	9,249	12,625	15,949

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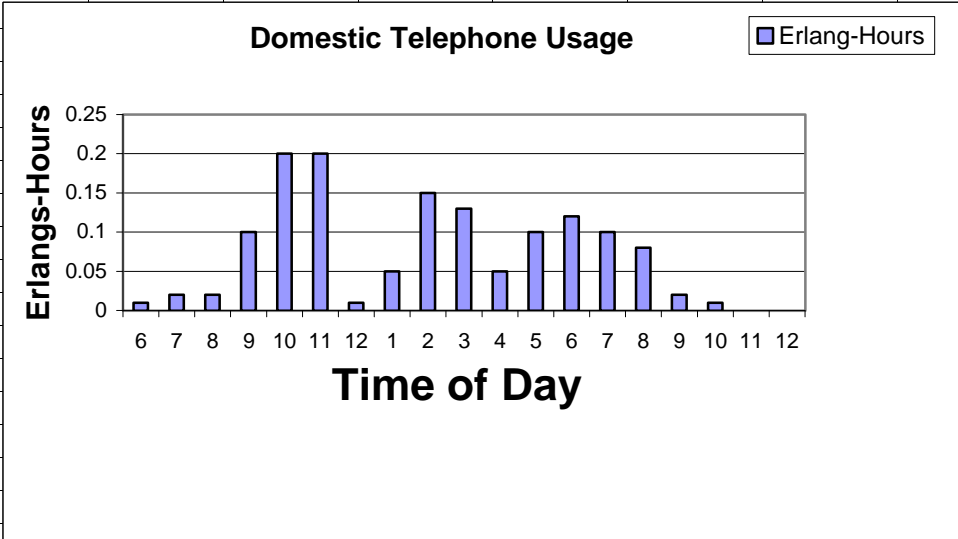
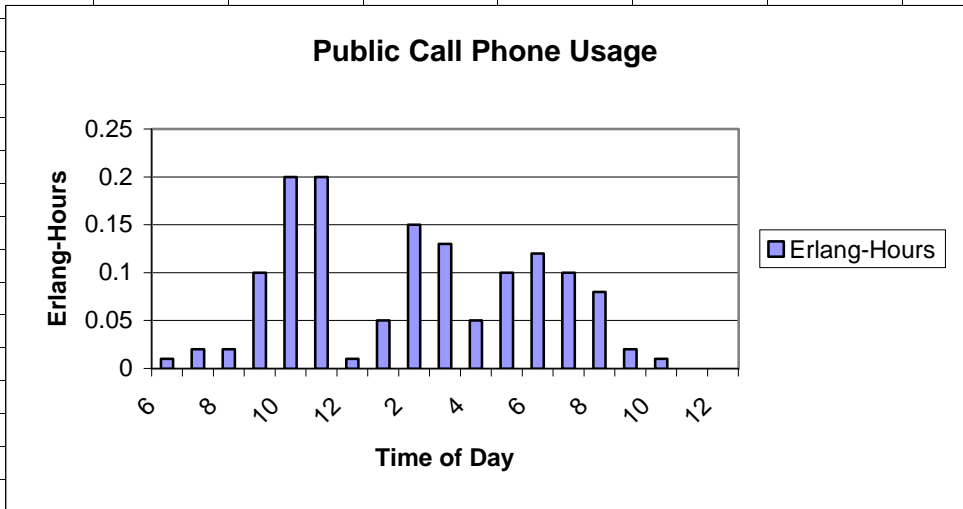
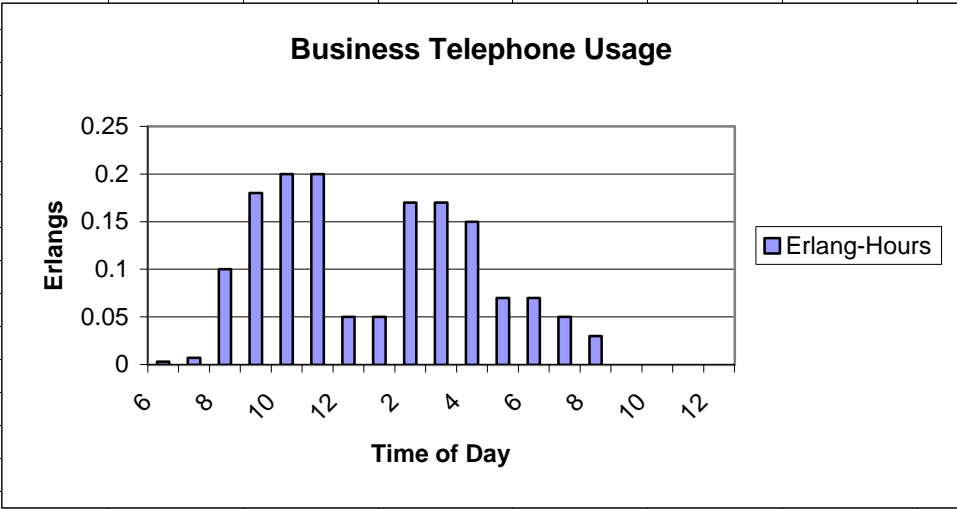
Date			2000	2003	2005	2010	2015	2020
Rural Areas								
Class of Service								
	Business		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Domestic		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Potential Demand for Residential Services in Rural Areas								
Dili			255	298	324	416	510	606
Aileu			105	122	133	171	210	249
Ainaro			122	142	155	199	243	289
Baucau			154	180	196	251	308	366
Bobonaro			161	188	205	263	322	382
Cova Lima			105	122	133	171	210	249
Ermera			177	207	225	289	354	421
Lautem			156	182	198	255	312	370
Liquica			122	142	155	199	244	289
Manatuto			98	114	125	160	196	233
Manufahi			124	145	158	203	248	295
Potential Revenue			120	140	152	196	240	285
Viqueque			203	237	258	331	405	481
Total Rural Districts			1,901	2,220	2,417	3,103	3,802	4,514
Growth rates pa				5.3%	4.3%	5.1%	4.1%	3.5%
Rural Areas								
Availability Factors			0.00	0.00	0.00	0.30	0.50	0.75
Actual Served Residential Services in Rural Areas								
Dili			0	0	0	125	255	454
Aileu			0	0	0	51	105	187
Ainaro			0	0	0	60	122	217
Baucau			0	0	0	75	154	274
Bobonaro			0	0	0	79	161	287
Cova Lima			0	0	0	51	105	187
Ermera			0	0	0	87	177	315
Lautem			0	0	0	76	156	278
Liquica			0	0	0	60	122	217
Manatuto			0	0	0	48	98	175
Manufahi			0	0	0	61	124	221
Potential Revenue			0	0	0	59	120	213
Viqueque			0	0	0	99	203	361
Total Rural Districts			0	0	0	931	1,901	3,385
Growth rates pa				0	0	0	15.3%	12.2%

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Erlang-Hours per day					
Domestic Telephone Customers			Business Telephone Customers		
Assumed Erlang-Hour Usage					
Time		Usage (Erlang-Hours)	Time		Usage (Erlang-Hours)
6-7	6	0.001	6-7	6	0.003
7-8	7	0.001	7-8	7	0.007
8-9	8	0.003	8-9	8	0.1
9-10	9	0.008	9-10	9	0.18
10-11	10	0.009	10-11	10	0.2
11-12	11	0.004	11-12	11	0.2
12-1	12	0.002	12-1	12	0.05
1-2	1	0.001	1-2	1	0.05
2-3	2	0.001	2-3	2	0.17
3-4	3	0.001	3-4	3	0.17
4-5	4	0.002	4-5	4	0.15
5-6	5	0.004	5-6	5	0.07
6-7	6	0.015	6-7	6	0.07
7-8	7	0.02	7-8	7	0.05
8-9	8	0.02	8-9	8	0.03
9-10	9	0.005	9-10	9	0
10-11	10	0.003	10-11	10	0
11-12	11	0	11-12	11	0
	12	0		12	0
Total Erlang-Hours		0.1			1.5
Public Call Phones					
	Time	Usage (Erlang-Hours)			
6	6-7	0.01			
7	7-8	0.02			
8	8-9	0.02			
9	9-10	0.1			
10	10-11	0.2			
11	11-12	0.2			
12	12-1	0.01			
1	1-2	0.05			
2	2-3	0.15			
3	3-4	0.13			
4	4-5	0.05			
5	5-6	0.1			
6	6-7	0.12			
7	7-8	0.1			
8	8-9	0.08			
9	9-10	0.02			
10	10-11	0.01			
11	11-12	0			
12		0			
Total Erlang-Hours		1.37			

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			Dom	Bus	Call Phones	Total		
Busy Hour Traffic between			10 - 11	0.009	0.2	0.2	0.409	
			11 - 12	0.004	0.2	0.2	0.404	
			2 - 3	0.001	0.17	0.15	0.321	
			3 - 4	0.001	0.17	0.13	0.301	
Date		1999	2000	2003	2005	2010	2015	2020
Erlang-Hours per Line								
Dili								
Erlang-Hours/line	Business		1.50	1.54	1.58	1.62	1.66	1.7
	Domestic		0.10	0.11	0.12	0.13	0.14	0.15
District Capitals								
Erlang-Hours/line	Business		1.40	1.44	1.48	1.52	1.56	1.60
	Domestic		0.10	0.12	0.14	0.16	0.18	0.20
Rural Areas								
Erlang-Hours/line	Business		0.00	0.00	0.00	0.00	0.00	0.00
	Domestic		0.20	0.22	0.24	0.26	0.28	0.30
Distribution of Traffic								
Dili								
	Bus	Dili	85.0%	82.0%	80.0%	75.0%	73.0%	70.0%
		East Timor	10.0%	13.0%	15.0%	20.0%	22.0%	25.0%
		Intl.	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
	Dom	Dili	70.0%	68.0%	66.0%	64.0%	62.0%	60.0%
		East Timor	29.0%	30.5%	32.2%	34.0%	35.7%	37.5%
		Intl.	1.0%	1.5%	1.8%	2.0%	2.3%	2.5%
District Capitals								
	Bus	Intra-Dist	5.0%	7.0%	10.0%	12.0%	15.0%	17.0%
		East Timor	93.0%	91.0%	88.0%	86.0%	83.0%	81.0%
		Intl.	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
	Dom	Intra-Dist	40.0%	42.0%	44.0%	46.0%	48.0%	50.0%
		East Timor	59.0%	56.8%	54.6%	52.4%	50.2%	48.0%
		Intl.	1.0%	1.2%	1.4%	1.6%	1.8%	2.0%
Rural Areas								
	Bus	Intra-Dist	30.0%	32.0%	34.0%	36.0%	38.0%	40.0%
		East Timor	69.0%	30.8%	32.6%	34.4%	36.2%	38.0%
		Intl.	1.0%	1.2%	1.4%	1.6%	1.8%	2.0%
	Dom	Intra-Dist	30.0%	31.0%	34.0%	36.0%	38.0%	40.0%
		East Timor	69.0%	29.8%	32.6%	34.4%	36.2%	38.0%
		Intl.	1.0%	1.2%	1.4%	1.6%	1.8%	2.0%
District Capitals								
	Business		1.40	1.44	1.48	1.52	1.56	1.60
	Domestic		0.10	0.12	0.14	0.16	0.18	0.20



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Date			2000	2003	2005	2010	2015	2020
Estimated Demand for Computers								
Dili			1320	1944	2408	3160	3928	4684
District Capitals			326	713	1100	1813	2542	3269
Rural Districts			328	387	423	553	686	821
National Total			1974	3044	3932	5526	7156	8773
Estimated demand for Computer Hosts								
Dili			27	41	55	79	103	128
District Capitals			1	5	10	21	34	48
Rural Districts			2	2	3	4	5	7
National Total			30	48	68	104	143	183