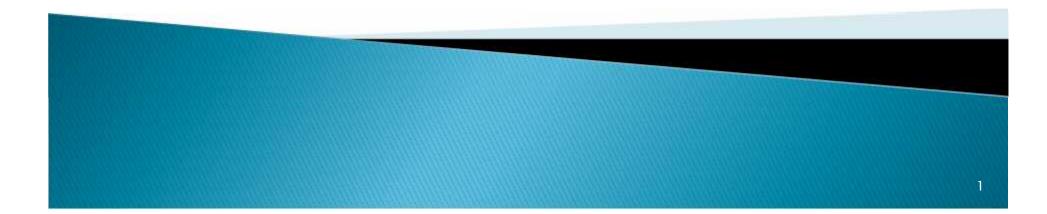
Nepal Experience on Broadband Future Krishna Raj Khanal MOIC



Country Profile: Nepal

- Capital: Kathmandu
- Area: 1,47,181 Sq. Km.
- Population: 2,64,95,504
- Vrban Population: 8.8%
- Rural Population: 91.2%
- Currency: Nepalese Rupee

Status of Nepal

Voice Subscriber

Services	Fixed		Mobile		Others		Total	
Operators	PSTN	WLL	GSM	CDMA	LMS	GMPC S		
NDCL	6,65,366	123,000	1,07,80,654	1,257,770	5	100	12,826,790	
UTL	-	49,812	-		474,655	100	5,24,467	
NCell	-	-	12,727,071		=	()	12,727,071	
STM*	**2,832				155		2,987	
NSTPL		2,984		-	3,34,218		3,37,202	
STPL	**598		13,12,545 -	비 비		-	13,13,143	
Others				v	53	1,742	1,742	
	668,796	175,796	24,820,270	1,257,770	8,09,028	1,742		
Total	844,592		26,078,040		8,10,770		27,733,402	
Services				100		Subs	scription (%)	
Fixed				Č.			3.19	
Mobile				Ĵ			98.43	
Others (LMS,	GMPCS)						3.06	
Total				-	104.68			

Population of Nepal 26,494,504 (Source: cbs.gov.np)

Status of Nepal

(Internet Data user)

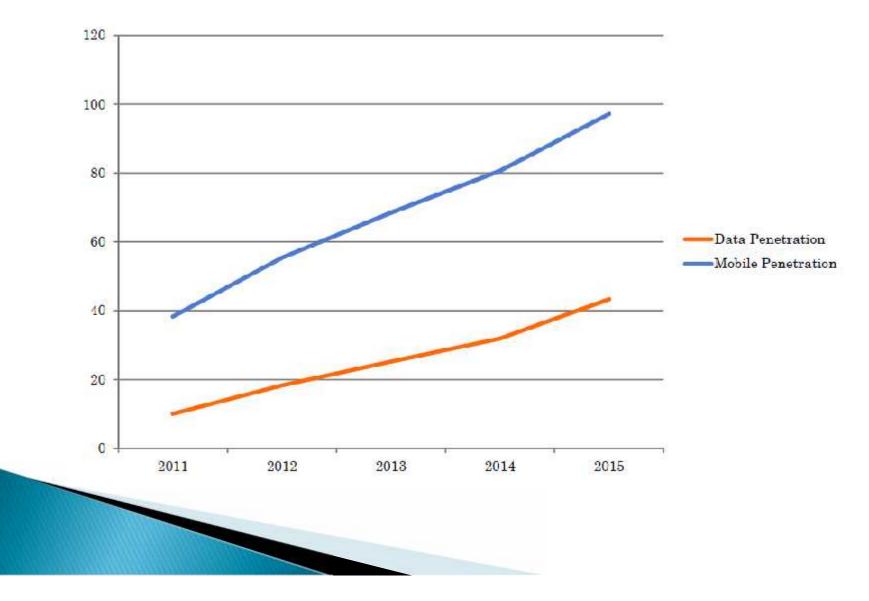
Services	Subscribers						Total
	NDCL 4,597	UTL -	NCell -	STPL -	STM -	ISPs 5,759	10,356
Dialup (PSTN +ISDN)							
Wireless Modem Optical Fibre Ethernet		2	(12) (12)	1	1	47379	47,379
Cable Modem		5		7	-	67,058	67,058
ADSL	1,32,768	-	2.5	1	5		1,32,768
GPRS, EDGE, WCDMA	61,19,133	-	4,761,439	89,857	1	B)	1,09,70,429
CDMA 1X, EVDO	136,573	61,857	1 (14)	1111	2	(L)	1,98,430
WiMAX	12,816	L	(124) (124)] 3]	2]		12,816
VSAT based Internet	-	-	9 0 .0	270	13		13
Total	6,405,887	61,857	4,761,439	89,857	13	120,196	1,14,39,249
And the Area and Area	Internet Penetration (%)					43.17	



Growth Trend of Mobile Voice and Data Services

Year	Data Penetration (%)	Mobile Penetration (%)
201 1	10.03	38.31
2012	18.28	55.40
2013	25.23	68.45
2014	31.88	80.62
2015	43.36	97.18

Growth Trend of Mobile Voice and Data Services



Broad Band Initiatives

- Government of Nepal National Broadband Policy 2015.
- Spectrum Policy is reframed in 2012 to obtain Wireless Broadband through 3G and IMT Advance technology.
- Consultation on utilization of Satellite Orbital Slot which is assigned by ITU (50E and 123.3 E)



Targets of Broadband Policy

- Broadband Internet user penetration rate of 30% at a minimum of 512kbps and making available at least 10 Mbps download speed on demand in urban areas by 2018.
- 45% of households will have broadband Internet coverage by 2018.
- Broadband connection will be expanded to 70% of the Village Development Committees by 2018.
- IMT advanced technologies will be assigned wireless broadband technologies and services by 2018.



Targets of Broadband Policy

- 20% of public secondary schools will have at least 1Mbps broadband by 2018.
- All government hospitals and at least 15% of health posts will have a broadband connection by 2018.
- All government agencies up to the district level will have a broadband connection, an informative web site, responsive email access and will offer basic citizen facing on-line services by 2018.



Rural Services

- The reach of broadband network and services will be expanded to rural and remote areas through effective mobilization of Rural Telecommunications Development Fund (RTDF).
- Competitive supply of services beyond district headquarters and urban centers will be encouraged through a modicum of fiscal, policy and regulatory incentive schemes on RTDF related subsidy arrangements.
- Periodic surveys will be conducted to identify areas that are likely to remain unserved.
- A wireless broadband master plan will be developed as a basis for commercial development and also for application for subsidies from Rural Telecommunication Development Fund.
- Nepal Telecommunications Authority (NTA) started to develop business model for Rural Area with Possible Technology.



Challenges



INTERNATIONAL BANDWIDTH USAGE IN NEPAL – USING OPTICAL FIBER CABLE

S.N.	Category	Capacity in STM1	RMC(US\$)/ Mbps in Average
1	Voice Operators	137 (21,235 Mbps)	36
2	Network Service Providers (Data)	77 (11,935 Mbps)	44
	Total :	214 (33,170 Mbps)	

INTERNATIONAL BANDWIDTH USAGE IN NEPAL – USING SATELLITE

S.N.	Category	Capacity in MHz	RMC (in US \$) Per MHz in Average
1	Voice Operators	30	3,000
2	Network Service Provider	3	2,900
	Total :	33	

SOME OPPORTUNITIES

- SASEC Information Superhighway Project
- United Nation Economic and Social Commission for Asia and Pacific (UNESCAP) study on Problems and Challenges in Transit Connectivity Routes and International Gateways in Asia



Thank You!!