

Sub-Regional Workshop on E-resilience for the Asia-Pacific Information Superhighway (AP-IS)

ICT and DRR: Nepal Earthquake 2015

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Outline

- Background Information on Disaster and ICT (Internet)
- Impact of Earthquake on ICT Sector
- Immediate responses
- Response made by Internet Society
- Lesson Learnt
- Recommendations

Major causes of Disasters in Nepal

- Glacier Lakes
- Flood
- Earthquakes
- Landslides
- Fires
- Epidemic

Nepal: Vulnerability and Risk

Disasters	Ranking	Source
Disaster prone in the world	20 th ranked	UNDP/BCPR 2004
Climate change vulnerability-ranked	4 th	Maplecroft,2011
Earthquake vulnerability risk	11 th ranked	UNDP/BCPR,2004
Water induced disaster risk	30 th ranked	UNDP/BCPR,2004
Kathmandu, the capital city- Earthquake among 21 mega cities in the world	High risk	UNDP
2 People loss lives daily in average and thousand of HHs displaced every year.	High risk	GoN/MoHA,2010

Current Status of Internet Penetration

1.2 Data/Internet Services

Services	Subscribers						Total
	NDCL	UTL	Ncell	STPL	STM	ISPs	
Dialup (PSTN+ISDN)	3646	-	-	-	-	4474	8120
Wireless Modem	-	-	-	-	-	47968	47968
Optical Fibre Ethernet							
Cable Modem	-	-	-	-	-	107074	107074
ADSL	179408	-	-	-	-	-	179408
GPRS,EDGE,WCDMA	7352740	-	5945852	106302		-	13404894
CDMA 1X, EVDO	136573	63160	-	-	-	-	199733
WiMAX	15707	-	-	-	-	-	15707
VSAT based Internet	-	-	-	-	13		13
Total	7688074	63160	5945852	106302	13	159516	13962917
	Internet Penetration (%)						52.70

Source: Nepal Telecom Authority, October 2016

- A recent (ESCAP) evaluation has classified Nepal's international connectivity as 'weak' and its fixed and mobile infrastructure as 'limited'.

GDP per Capita, YE 2012 (PPP, USD)	Int'l. Band-width per Capita (Kbps)	Int'l. Connectivity	Domestic Connectivity	IP Transit Price	Competitive -ness of Telecom Market	Fixed and Mobile Broad- band Infra-structure	Annual 1 Mbps Broadband Subscription + Installation as % of Nominal GDP per Capita
\$1,600	0.7	Weak	Limited	Expensive	Less Competitive	Limited	Very Expensive

Earthquake 2015

- Powerful earthquake on 25 April 2015 with magnitude of 7.8 followed by 475 aftershocks until last week
- 8,000+ people lost their lives
- 23000+ people were injured.
- Half million private houses were fully destroyed and 250,000 houses were partially damaged.
- 8 million people were affected.
- 14 out 75 districts were mostly affected, including capital area.

What happened after earthquake

- Electricity power grid went down
- Internet Services disrupted
- Network congestion and Downtime
- Voice call service was severely disrupted whereas SMS and internet were intermittent
- Nepal's international Internet links



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https://www.yunbaogao.cn/report/index/report?reportId=5_1917

