Annexes:

Advancing evidence-based policymaking and regulation in the emerging Asia-Pacific to ensure greater participation in ICTs: Research, capacity-building, advocacy and dissemination by LIRNE asia

Proposal submitted to IDRC by LIRNEasia

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Project objective	Expected results	Results LIRNEasia would like to see	Results LIRNEasia would love to see	Indicator	Accomplishments as of Feb 15, 2008
Objective 1 to develop sustainable supply- and demandside data collection procedures with the participation of national data collection authorities (principally national regulatory authorities in telecom) in South Asia; to apply them to three South Asian countries (India, Pakistan and Sri Lanka) and to three South East Asian countries (Indonesia, Philippines and Thailand) with the	Regulators have adopted Indicators Manual co-developed with LIRNEasia.	Formal endorsement of SATRC and working online indicators database populated by South Asian data collectors.	Changed policies in countries in Asian region lagging behind in certain areas because of benchmarking. Adoption of indicators Manual by ASEAN countries.	Adoption of Indicators Manual by seven South Asian countries.	Indicator manual was completed and published on-line at LIRNEasia site. Also disseminated among selected regulators. Distribution among others is planned in near future. Pakistan regulator in principle has agreed to be the administrative partner for a regional indicator initiative to convey a meeting for SAARC regulators for indicator database training. Indicators database is ready to go online. However, it would be too early to observe the outcomes LIRNEasia would like to and love to see.

and Thailand) with the potential to extend the procedures across all of emerging Asian	More accurate picture of ICT access, state of telecom sector and regulatory environment in 6 countries.	Regulators are aware of the research findings.	Regulators change policy based on the findings.	Six country reports.	Five country reports are done and available online. A comparison of Indonesia and India has been completed. These provide a clear picture of telecom regulatory and market environment in the six countries.
					The findings were also shared with the regulators on different occasions including the Pakistan Telecom Authority (PTA) workshop in Islamabad, July 15, 2007 and the 35th Telecom Policy Research Conference in Virginia, USA, September 30, 2007.
					Indonesia, a country that had scored low marks in TRE assessment, provided a serious response to findings.
					The ITU's World Information Society Report 2007 referred to TRE assessment, in Chapter 2 under bridging the digital divide.
	On Shoestring-A better understanding of how the financially constrained use ICTs, what the demand and how they use it for their benefit.	Policymakers and operators are aware of research findings.	Regulations are created to promote use by poor; operators created services tailored to poor.	Successfully completed surveys. Reports that will be written up based on the findings	Surveys completed. The results revealed BOP tele-usage patterns which had rarely been revealed by any study so far. One key observation was the mobile phone usage among BOP was more widespread than commonly believed, while the Internet usage was poorer.

			Four key thematic papers, one overview paper and one short documentary were generated.
			Results, papers and documentary have been disseminated widely to regulators, policymakers and operators. Positive responses received from a significant number of them.
	by 5	orkshop attended 50 participants om NRAs will build pacity in the region.	The WDR Expert Forum was held in association with the Institute of South East Asian Studies (ISEAS) in Singapore from March 2-3, 2007. The Forum focused on ICT sector and regulatory performance indicators and discussed the issues that NRAs and NSOs face with regards to data collection and definitions.

Annex 1

Project objective	Expected results	Results LIRNEasia would like to see	Results LIRNEasia would love to see	Indicator	Accomplishments as of Feb 15, 2008
Objective 2 to examine the contribution that ICTs can make to improving the life conditions of small-scale farmers through the conduct of baseline studies and their assessment;	Improve demand for timely and accurate agricultural price information using ICTs, via a better understanding of the ability of ICTs to reduce information asymmetries in agricultural markets	Policy makers and private entities collaborate to scale up GGS.	Extending ICT-based agricultural price dissemination systems to other markets in the country	Completed case study on Sri Lanka's Dambulla wholesale market.	A good understanding how information related transaction costs can be reduced across multiple crops using ICTs was obtained through a sample survey. A case study based on the findings has been presented at the workshop 'Transaction Costs and Traceability: Potential of ICTs in the Agricultural Value Chain'. A private entity has principally agreed to operate GGS.
	Farmers participating in the last-mile traceability component become convinced of the potential economic benefits of linking up with an ICT based traceable supply chain.	Non-participating farmers and other stakeholders express interest and willingness to expand similar initiative.	Policy makers and private entities focus on implementing traceability programs. Expanding the traceability work in the region.	Completed Sri Lanka case study on traceability.	Implemented mobile and other ICT based solutions in gherkin supply chain but the results deviated. Farmers admitted the usefulness of mobile phones but did not see a major difference in performance as expected. Players later in the supply chain, on the other hand, saw the benefits of mobile phones more. The case study was done and has been presented at the Agriculture workshop in Sri Lanka.

Develop a	multi-	Expert workshop.	A two day workshop on
country re	search		'Transaction Costs and
program to	o extend		Traceability: Potential of ICTs in
objective 2	2.		the Agricultural Value Chain' was
			conducted in Sri Lanka on
			22 – 23 February 2008 with the
			active participation of local and
			international ICT/agricultural
			practitioners from public, private
			and NGO sectors.

Project objective	Expected results	Results LIRNEasia would like to see	Results LIRNEasia would love to see	Indicator	Outcomes
Objective 3 to develop an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia as a viable virtual organization; with lessons being drawn for developing effective knowledge networks and virtual organizations;	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational structure	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the South	The indicators of connectivity within the scholarly network improve significantly and members' institutions support network	Participation of at least 30 researchers from 15 countries, based on knowledge mapping	Two conferences, CPRsouth1 and 2 were conducted in Manila Philippines and Chennai, India for Asia Pacific based and focused ICT policy and regulatory research scholars to meet and disseminate their work. CPRsouth1 A Total of 46 applicants from 18 countries received. 19 applicants from 11 countries were selected. The applicants had been active after participating at CPRsouth1. 5 of the 19 participants produced academic related output (Journal articles, conference papers) while 4 produced academic and policy related output (op-ed pieces, policy related). 1 was involved in policy related activities. CPRsouth2 A total of 67 applicants from 23 countries received. 20 applicants from 11 countries were selected. 11 of the 19 participants of CPRsouth1 re-applied for CPRsouth2

		14 of the 46 applicants of CPRsouth1 re-applied for CPRsouth2
		This scholarly network is now in place and its further expansion is planned during the next research cycle.

Have substantial representation of young scholars (Asia-Pacific based or with Asia-Pacific interest) in the telecom reform interest group	Interest among young scholars exceeds resources available to support them	Universities commit resources to support LIRNEasia's programs for young scholars	Active participation of at least 10 young researchers	CPRsouth1A total of 104 young scholars from 32 countries applied. 18 applicants from 10 countries were selected. Activities of the young scholars post CPRsouth involve 6 producing academic related output and 2 producing policy related output. CPRsouth2 A total of 47 applicants from 16 countries. 16 applicants from 10 countries and 15 from India were selected 3 of the 18 participants (young scholars) of CPRsouth2. 9 of the 104 young scholar applicants of CPRsouth1 applied for CPRsouth2
Understand how ICTs can better enable research collaboration.	LA is a more effective virtual organization as a result.	Lessons learnt from LA as virtual organization used by other organizations	Report on virtual organizations.	LIRNEasia has successfully created a Virtual Organization platform for its researchers to engage in their work irrespective of the geographical location. As an organization which has only a skeleton ICT infrastructure at its office in Colombo (and a limited ICT budget) LIRNEasia heavily depend on Internet and communication infrastructure for

		information sharing, storing and retrieval and communication purposes. LIRNEasia web portal acts not only as an interactive window for all its stakeholders but also partially a virtual intranet for its own staff.
		Number of unique visitors to LIRNEasia has increased to 28,013 in the fourth quarter of 2007 from a 1,739 for the parallel period in 2004. Returning visitors have increased to 5,876 for the Q4 2007, from 770 Q4 2004. Number of total pages loads for Q4 2007 was 58,416. An average visitor has spent 2.28 minutes on the site indicating a large percentage of serious visitors.
		A draft report on virtual organization is done to be finalized by end March, 2008.

Training course with	Training course gets a	Multi-year institutional	Course with more	The Executive Telecom Reform
broad participation	long-terms cosponsor,	commitment to	than 1/3 rd women and	Course has been held in
offered	regular location and	training course	1/4th stakeholders	Singapore on Feb 25 – March 3
	offering schedule		other than regulators	2007. Participants have been
			and operators	from regulatory agencies, telecom
				operators and other civil society
				organizations.
				Fourteen scholarships were
				offered for the curse for
				participants who could not
				finance their participation.

	Expected results	Results	Results	Indicator	Accomplishments as of
Project		LIRNEasia	LIRNEasia		Feb 15, 2008
objective		would like to see	would love to see		
Objective 4: to disseminate the output of all three activities in multiple ways to different audiences capable of influencing reform, including carefully targeted rapid-response interventions, including the development of an alternative model of influencing policy	LA's research disseminated to regulators and policymakers in six countries and they are aware of the research.	Awareness of LA's research by policymakers and regulators from a larger group of countries, evidenced by increased visits to website and inquiries.	Demonstrable effects on policy and regulatory changes from LIRNEasia research	Six reports Four journal articles based on research findings. Five newspaper articles. Three news conferences for disseminating research.	The dissemination plan has been slightly changed but the objectives of the cycle have been achieved. LIRNEasia work appeared in press, both electronic and print, and as news reports and articles. A complete list is provided in Annex 1. The academic journal articles were: Samarajiva, R. & Gamage, S. (2007). Bridging the Divide: Building Asia-Pacific Capacity for

LA's research findings	Civil society groups	Demonstrable effects	Citations of LA's	Society - An International Journal, Volume 23 Issue 2, 109. Samarajiva, R. (2006). Preconditions for Effective Deployment of Wireless Technologies for Development in the Asia-Pacific. Information Technologies and International Development (ITID) - MIT Press, Winter 2006, Vol. 3, No. 2, Pages 57-71. Gunawarndene, N. (2006). Bridging the Long 'Last-Mile' in Sri Lanka, Media Development Journal, UK, 17 November 2006. The following are some of the
disseminated to civil society and academia	use findings from LIRNEasia research in their interventions	on policy and regulatory changes from LIRNEasia research	research in websites, journals, articles. Blog comments and traffic generated.	citations. Donner, Jonathan. (2007). The Rules of Beeping: Exchanging Messages Via Intentional "Missed Calls" on Mobile Phones. Journal of Computer-Mediated Communication 13(1). http://www.blackwellsynergy.com/doi/pdf/10.1111/j. 1083-6101.2007.00383.x?cookieSet=1 http://jonathandonner.com/papers-and-presentations Improving the Prospects for

Timely assistance rendered to countries in the region that require policy	Significant demand and contributions to rapid response visits by requesting entities	Demonstrable effects on policy and regulatory changes from LIRNEasia	Three rapid response visits	Sustainable ICT Projects in the Developing World, by Laura Hosman (University of California, Berkeley) and Elizabeth Fife (University of Southern California) - International Journal of Media and Cultural Politics, Volume: 4 Issue: 1, Page(s): 51-69 Citations on blogs: http://blogs.nmss.com/communications/2007/06/proof-that-cost.html http://blogs.nmss.com/communications/2007/10/social-impact-o.html Three rapid response visits were made during the period. Helani Galpaya – Bhutan
assistance.		research		Harsha de Silva – Nepal Rohan Samarajiva – India In addition, quick policy intervention steps were taken when the situation demanded. (E.g. Sri Lankan government decided to remove a flat tax component on all mobile users, after LIRNEasia pointed out that would have a negative impact on BOP mobile usage.

Online research	Scholars from	Archival system	Working archival	An online archival system was
archival system for	CPRsouth actively	attracts interest from	system	build for CPRsouth research
Asia-Pacific	participate in archival	other scholars		work. This website now consists
researchers established	system and attracts			of approx. 50 papers (currently
	visitors			populating the database with
				publications). The site also has a
				database of approx. 1,300
				researchers.
				LIRNEasia is not complacent
				about the quality and the rate of
				access of this site. Plans are
				underway to give a facelift and an
				overhaul to the present site for
				improved participation by the
				end of the research cycle.

Note: This evaluation, presented only in summarized form, was done before the end of the research cycle based on the outcome mapping done it. Though most of the outputs have been achieved and the findings disseminated in appropriate cycles, it would be too early to observe all the policy outcomes. A more detailed evaluation report would be conducted at the end of the cycle.

Annex 2: Media Coverage: Teleuse at the Bottom of the Pyramid (2006-2008)

04/02/2008

Mobile phone companies doing a Nano

Business Standard (India)

Web

http://www.business-

standard.com/common/news article.php?leftnm=lmnu9&subLeft=2&autono=312466
&tab=r

03/10/2007

Driving productivity at the bottom of the pyramid: How ICT can help

ITpr

Web

http://www.itpro.lk/?q=node/382

02/10/2007

Driving productivity at the bottom of the pyramid: How ICT can help

The Daily Mirror

Print

http://www.dailymirror.lk/2007/10/02/ft/05.asp

01/10/2007

Phones at the bottom of the pyramid: Telecom Accessibility Telecom Accessibility

i4d

Print

http://www.i4donline.net/articles/current-article.asp?articleid=1497&typ=Features

04/09/2007

Mobile manufacturers trying to capitalise on Rural India

Garowe Online

Web

http://www.garoweonline.com/artman2/publish/tech/Mobile manufacturers trying to capitalise on Rural India.shtml

04/09/2007

Mobile manufacturers trying to capitalize on rural India

The Economic Times

Web

http://economictimes.indiatimes.com/Mobile manufacturers trying to capitalise on Rural India/articleshow/2336602.cms

12/06/2007

Low-Income Telephone Users in Asia: Hello, can you connect us?

The Straits Times

Print

http://www.lirneasia.net/2007/06/straits-times-low-income-telephone-users-in-asia/

02/06/2007

India is less talkative than Pakistan, India

The Financial Express

Print

http://www.financialexpress.com/print.php?content_id=168199

01/06/2007

Bottom of pyramid mobile access: Mobile Opportunities

ICT4D

Web

http://i4donline.net/articles/current-article.asp?articleid=1266&typ=features

22/04/2007

Telecom: Next Billion

Business India - National Edition

Print

http://www.lirneasia.net/wp-content/uploads/2007/06/next-billion-business-india-april-07.pdf

09/04/2007

Business Briefs: Cell users

The Telegraph

Print

http://www.telegraphindia.com/1070409/asp/business/story 7623649.asp

09/04/2007

Mobile phone market poised for rapid growth in next two years

Ceylon Daily News

Print

http://www.dailynews.lk/2007/04/09/fin01.asp

08/04/2007

Indian telecom behind Pak, Lanka in many respects: Study

Zeenews.com

Print

http://www.zeenews.com/znnew/articles.asp?aid=364615&ssid=54&sid=BUS

02/04/2007

Call of the Village

The Hindu Business Line

Print

http://www.thehindubusinessline.com/ew/2007/04/02/stories/2007040200030100.ht

27/03/2007

78% of people living in rural India not heard about Internet: Study

Alootechie.com

Web

http://www.alootechie.com/News/2209.asp

27/03/2007

BOP Families to Trigger Mobile Penetration in Asia

CXOToday.com

Web

http://www.cxotoday.com/India/News/BOP Families To Trigger Mobile Penetration in Asia/551-80050-913.html

26/03/2007

Only 9 per cent use their own mobile phones

India News Online

Print

http://news.indiamart.com/news-analysis/only-9-per-cent-use--15157.html

26/03/2007

Internet still an obscure term in India, says study

The Financial Express

Print

http://www.financialexpress.com/fe_full_story.php?content_id=159009

24/03/2007

In India, only 9% use their own mobile phone

The Financial Express

Print

http://www.financialexpress.com/fe_full_story.php?content_id=158816

23/03/2007

Telecom giants eyeing rural market

NDTVProfit.com

Print

http://www.ndtvprofit.com/homepage/storybusinessnew.asp?template=&whichstory=n&id=37204)

17/03/2007

Coverage of Teleuse at the Bottom of the Pyramid media workshop, 28 February 2007 (Thai)

Telecom Journal

Print

http://www.tj.co.th/telecomjournal/modules/news/article.php?storyid=565

04/03/2007

Missed Calls: free secret code for interactive communication.

Jang Group Online

Web

http://jang.com.pk/thenews/mar2007-weekly/cyber-04-03-2007/index.html

28/02/2007

Sri Lanka: cutting it

The Economist: Global Technology Forum

Web

http://globaltechforum.eiu.com/index.asp?layout=rich_story&doc_id=10213&title=Sri_+Lanka:+Cutting+it&categoryid=30&channelid=4

28/02/2007

Sri Lanka: Cutting it: Mobile phone use is taking off in Sri Lanka – though not, perhaps, in ways that service operators might have hoped

Global Technology Forum, Global News Analysis

Print

http://ebusinessforum.com/index.asp?layout=rich_story&doc_id=10213&title=Sri+La_nka%3A+Cutting+it&channelid=4&categoryid=30

25/02/2007

Feature: 'Ring cut' phone use a growing phenomenon.

Taipei Times

Print

http://www.taipeitimes.com/News/biz/archives/2007/02/25/2003350026

24/02/2007

SL mobile missed calls boost contact, cut telecoms revenue

New Age Business

Print

http://www.newagebd.com/2007/feb/25/busi.html

24/02/2007

Ring Cut: Sri Lanka mobile missed calls boost communication, cut telecoms revenue

AFP

Web

http://www.LankaBusinessOnline.com/fullstory.php?newsID=2135889537&no_view= 1&SEARCH_TERM=5

24/02/2007

Ring Cut: Sri Lanka mobile missed calls boost communication, cut telecoms revenue (Japanese version)

AFP BB news

Print

http://www.afpbb.com/article/1365291

08/02/2007

Over half of low income group rely on others

Zeenews.com

Web

http://www.zeenews.com/znnew/articles.asp?aid=280017&ssid=204&sid=LIF

03/02/2007

Missed call virus bugs telecom firms

Rediff.com

Web

http://inhome.rediff.com/money/2007/feb/03call.htm

20/01/2007

RP's poorest spend \$2 a month on mobile phones

Inquirer.net

Web

http://technology.inquirer.net/infotech/infotech/view article.php?article_id=44458

18/01/2007

Sri Lanka shuts down phone and fighting

Zeenews.com

Web

http://www.zeenews.com/articles.asp?aid=348710&sid=SAS

23/10/2006

The way to go

The Hindu Business Line

Print

 $\frac{\text{http://www.thehindubusinessline.com/ew/2006/10/23/stories/2006102300100200.ht}}{\underline{m}}$

02/05/2006

Hello...how do the poor use their phones

Bollyfirst.com

Web

http://www.bollyfirst.com/india-news/11112004.htm

30/04/2006

Cell phones: Poor man's gadget

The Times of India

Print

http://timesofindia.indiatimes.com/articleshow/msid-1510698,curpg-1.cms

08/03/2006

Contrary to belief, women don't chinwag on phone

DNA: Daily News & Analysis

Web

http://www.dnaindia.com/report.asp?NewsID=1016968

01/03/2006

Over half of low income group rely on others

Zeenews.com

Web

http://www.zeenews.com/znnew/articles.asp?aid=280017&ssid=204&sid=LIF

Annex 3: Teleuse@BOP2 research methodology

1. Research Considerations: Definition of a "low income" person for country-wise comparisons

The study was conducted in 5 countries, namely Pakistan, India, Sri Lanka, Philippines and Thailand .The following factors have an impact on the research design and outputs and should be noted:

Since the study demands cross comparison of the five countries among the less fortunate strata of society, the target groups were defined as close as possible in a universal manner. Therefore Socio Economic Classification (SEC) was used instead of Income, for the reasons outlined below.

SEC: The Socio Economic Classification categorizes people based on the Education and Occupational status of the Chief Wage Earner of the household. The different brackets are SEC A, B, C, D and E.

Income: While income level appears relevant, the practicality of using it as an indicator is limited by its reliability and comparability across countries. To explain further, the problems generated by spatial and temporal cost of living adjustments make comparisons across countries and geographical areas difficult.

SEC classifications have an advantage over Income for the following reasons as was therefore used as the means of classifying respondents into two groups – Upper End and Lower End.

- **Bias:** Since the income level is a key criteria for the inclusion of the respondent in the study, his financial status will need to be determined at the start of the interview. This, we believe would have resulted in a biasing the respondent and would have also impacted on the findings per se
- **Asian culture:** Past studies have revealed that people especially Asians tend to overstate or understate their income. Furthermore, since this is amongst the lower income groups, the tendency would be to overstate more than understate their income. Thus this parameter while indicative is not conclusive or reflective of the respondents' status.

For purposes of this study, the upper end was defined as SEC A,B & C, while the lower end was SEC D&E. Focus was on the lower end (SEC DE) while a small upper end sample (SEC ABC) sample was covered for comparison purposes.

2. Target Group

The target respondent for the study consisted of both males and females aged 18 and above living in both urban and rural areas of these countries.

In addition, the respondent was defined as a teleuser defined as someone who had used any mode of telecommunication (own telephone, mobile, SMS service, payphone, neighbor's or friend's phone) during the past 3 months. Usage need not have been paid for.

Across all the countries, a gender proportion of 50:50 was applied.

3. Research Design

Both Qualitative and Quantitative research modules were undertaken simultaneously to understand perceptions and usage of telecom services. In addition, a diary was placed with between 45-50% of respondents wherein they were requested to fill in their teleuse details no. of calls made or received, and to / from whom, type of call (personal or business), time of call, instrument used (own phone, payphone etc.) and SMS details. About 90% of diary panelists responded

3.1 Qualitative Module

Extended Focus Group Discussions were used. The EGD (Extended Group Discussion) is longer than an average focus group -3 hours or so as opposed to one and a half to two hours. Respondents are not rushed an EGD. A group of this nature included on average about eight respondents. All groups were conducted in the local language(s) of each country.

3.2 Quantitative component

Face to face interviews were conducted with the target respondent using a structured questionnaire. Interviews were conducted at home. Both households and respondents were randomly selected as explained subsequently in this document. The study was designed in such a way that the less affluent segments were adequately represented in each country. This was achieved by adopting a sample design representing main geographic locations and demographic segments within each country.

3.3 Diary placement

Diary placements were used as recorded data is more credible than recalled data. However ability to record in a diary would automatically imply that the respondent has to be literate. Since the study was focused mainly among the "financially constrained", not all respondents would be literate. This is especially so in countries like India and Pakistan where the literacy rates are only around 80% or less.

Hence at the dairy was placed only among 50% of the sample, and among those agreeing to record their telecom details. Random checks were conducted by field personnel to ensure that recordings were being made. An incentive was provided for diary completion.

4. Sampling

A Multi-Stage Stratified Cluster Sampling by Probability Proportionate to Size (PPS) technique was used to select the target number of urban and rural centers.

4.1 Stages of Sampling

Following was the sequence of steps followed.

- Stratification of urban and rural centers within provinces
- Geographic ordering of centers in each cell (stratum in province)
- Selection of centers through PPS

4.2 Selection of centers through PPS

After determining the number of centers to be selected from each cell (strata in respective provinces), urban and rural areas were selected using PPS (Probability Proportionate to Size) technique using a constant population interval on geographically ordered centers within each cell.

For this purpose, the cumulative population of all geographically ordered centers was calculated within urban and rural areas of each province. To find out the sampling interval the total population of these centers was divided by the required number of cities to be sampled from that cell.

To select the first center, a random number was generated. The center where that random number fell was the first selected center. By adding the sampling interval to that random number, the next center was selected and so on.

4.3 Starting point, household and respondent selection

In each selected center, a common place such as a road, park, hospital etc. was the starting point for contacting households. Around each starting point, a maximum of ten interviews were conducted. The number of starting points were determined in accordance with the total number of interviews to be conducted in each center.

Around each selected starting point, households were selected using the 'Right Hand Rule' where every household falling to the right side of the street / footpath was contacted until a successful interview was conducted. A gap of

two households in urban and one in rural was kept before moving on to the next household. This rule negates interviewer bias in selection of a household. Only one respondent was selected from one household.

In households with more than one valid respondent, the KISH grid (random number chart) was used to randomly select the respondent.

4.4 Weighting of data

Within each country, data was weighted by Gender, Province Group /Zone and SEC group (ABC vs. DE) to correct over sampling or under sampling in certain areas and socio economic groups.

As a resulting of weighting by SEC it should be noted that in reporting the results, in some countries the SEC ABC weighted sample size becomes larger than the SEC DE weighted sample size since the former group forms a higher proportion of the country's population.

5. Sample Overview

An overview of the sample size and composition is given below. More detailed country-wise and SEC-wise breakdowns are given in section 6 for the Quantitative component.

5.1 Quantitative (n=8662 interviews)

	Quantitative (if 6002 morrisons)						
Country	Population		Sample Size	Error margin at 95%			
Country	1 opulation	Urban	Rural	Total	CI		
Pakistan	166Mn	900	912	1812	3%		
India	1,000 Mn	1645	2355	4000	1.5%		
Sri Lanka	16Mn (excl. NE)	200	850	1050	3%		
Philippines	87Mn	594	506	1100	3%		
Thailand	65Mn	350	350	700	7%		
Total sample size 8662							

5.2 Qualitative (n=30 EGDs)

Country		SEC D	E only				
Country	Tele	users	Non Te	eleusers	Centers		
	Males	Female	Males	Female	Centers		
	Maies	S	Maies	S			
Pakistan	2	2	1	1	Peshawar, Karachi, Lahore		
India	2	2	1	1	Lucknow, Teravalure		
Sri Lanka	2	2	1	1	Kurunegala, Moneragala		
Philippines	2	2	1	1	Metro Manilla, Batangas		
Thailand	2	2	1	1	Chiang Mai		
Total sample	Total sample size 30		EGDs				

Teleuser - Someone who has used any mode of telecommunication (telephone, SMS, mobile) during the past 3 months. Access need not be through own phone and it also need not be paid for.

Non-user - Someone who has not used any mode of telecommunication during last 3 months paid or unpaid, through own or others' phone.

6. Country-wise Quantitative sample composition

6.1 Pakistan

Province	Urban	Rural	Total
Punjab	430	456	886
Sindh	300	168	468
NWFP	100	168	268
Baluchistan	70	120	190

Total	900	912	1812

6.2 India

		Total	Sample (SEC DE)				Sample
Region	State	Sample	Ur	ban	Rural		(SEC ABC)
		Sample	Male	Female	Male	Female	(SEC ABC)
North	Uttar Pradesh	400	35	30	130	125	80
North	Haryana	400	50	45	115	110	80
West	Rajasthan	400	40	40	120	120	80
West	Gujarat	400	55	55	105	105	80
East	Bihar	400	15	15	145	145	80
East	West Bengal	400	50	45	115	110	80
South	Tamil Nadu	400	75	70	90	85	80
South	Karnataka	400	55	55	105	105	80
	Assam	400	25	25	135	135	80
North East	Arunanchal Pradesh	400	35	30	130	125	80
Т	otal	4000	435	410	1190	1165	800

6.3 Sri Lanka

Province	Urban	Rural	Total
Western	85	200	285
Central	20	140	160
Southern	20	125	145
North Western	20	115	135
North Central	15	70	85
Uva	20	85	105
Sabaragamuwa	20	115	135
Total	200	850	1050

	ABC	250
SEC Split	DE	800
	Total	1050

6.4 Philippines

Areas covered: The study will cover Metro Manilla, Luzon, Visayas, Mindanao.

SEC	Total	Urban = 54%	Rural = 46%
ABC	100	54	46
DE	1000	540	460
TOTAL	1100	594	506

6.5 Thailand

For the upcountry area, the study was conducted in four regions namely North, Northeast, Central and South. Two key provinces were selected to represent the regions

SEC	Upcountry Urban	Upcountry Rural	Total
Upper (AB)	50	50	100
Middle (C)	50	50	100
Low (DE)	250	250	500
Total	350	350	700

Annex 4: Teleuse@BOP3 questionnaire



PROJECT ALEXANDER: Quantitative study FINAL QUESTIONNAIRE

Study ID	ALEXA-001	(101-108)	Resp. No.	 (109-112)
Interviewer No.		(116-119)	Interview Length	 (120-123)
No. Of Queries		(124-125)	Reference No.	(126-129)

PROJECT ALEXANDER

"Good morning/ afternoon/ evening! I am...... from ACNielsen Lanka (Pvt) Ltd, d we are undertaking a survey on radio and TV in Sri Lanka to get feedback from audiences. Could I spend 10 minutes with you to ask you a few questions"

Administration of the SEC grid to establish whether the House Hold belongs to SEC A/B/C (Upper and Middle Class) or SEC D/E (financially constrained segment of the society) in order to maintain the specified quotas of the sample.

<u>If retired, ask for previous occupation.</u> (<u>Circle in all_places</u>)

Occupation and education level of the chief wage earner (CWE)?

Occupation	Educational Level													
	Illiterate	Up to grade 5	Grade 6-9	O/L and A/L	Graduates/ Professional									
1. Farming/agriculture	E2	E2	E1	D	-									
2a. Administration/ Managerial – senior	-	B1	B1	A2	A1									
2b. Administration/ Managerial – junior	-	B1	B1	A2	A1									
3. Labourer / trained	E2	E1	D	С	-									
4. Labourer/ untrained	E2	E2	E1	D	-									
5. Clerk	D	D	С	B2	B1									
6. Trade	E2	E1	D	С	B2									
7. Industrial/ trained	E2	E1	D	C	B2									
8. Industrial/ untrained	E2	E2	E2	D	-									
9. Professional	1	-	-	-	A1									
10. Services	E2	E1	D	C	B2									
11. Self employed (zero employees)	E1	D	С	B2	B1									
12. Business Self employee – Under him/her (1-9) employees	C	B2	B1	A2	A1									
13. Business Self employee – over 9	B2	B1	A2	A1	A1									
14. Other (specify)														

Administration of Kish Grid in order to select a respondent randomly for the interview if there is more than one eligible respondent in the house hold.

In descending order, can I know the birthdays of all males / females who are permanent residents in your household?

Please obtain the following details of all males / females in the descending order who are permanent residents of the household staying in the home at the time of the interview, and aged between 18-60 years. Then using the Kish grid select the required person for the interview.

Name	Age	Position (Descending order of age)

No of		The last digit of the questionnaire number												
Males/Females between 18-60 yrs	0	1	2	3	4	5	6	7	8	9				
1	1	1	1	1	1	1	1	1	1	1				
2	1	2	1	2	1	2	1	2	1	2				
3	3	1	2	3	1	2	3	1	2	3				
4	1	2	3	4	1	2	3	4	1	2				
5	4	5	1	2	3	4	5	1	2	3				
6	2	3	4	5	6	1	2	3	4	5				
7	1	2	3	4	5	6	7	1	2	3				
8	6	5	6	1	2	3	4	5	6	7				
9	5	6	7	8	9	1	2	3	4	5				
10	1	2	3	4	5	6	7	8	9	10				

Q1a [PLEASE NOTE THAT Q1a AND Q1c FOR CAMOUFLAGING]

Have you visited a super market outlet within the past three months?

Q1b Have you used any mode of telecommunication (Fixed Line Telephone or Mobile) during the past 3 months to make or receive a telephone call? Access need not be through own phone but can be through a neighbour, friend, communication booth or any other. It also need not be paid for.

(If the answer is "No", record it in the contact sheet given and also record the reason which explains why the respondent hasn't received or made a call during the past three months)

Q1c Have you read a magazine or a news paper during the past three months? It could be a news paper or a magazine that you may have read any where. It is irrelevant whether you bought it or someone else bought it.

	Q1a	Q1b	Q1c
	Super Market Outlet	Made/Received a call	Read a magazine or a news paper
	(130)	(131)	(132)
Yes	1	1	1
No	2	2	2

Q2a SHOW CARD

There are various ways of getting information, such as getting to know from mass media (For eg.TV, radio or the newspapers), someone calls and tells you by phone, people you meet talk about it etc.

When there are any urgent issues that affect not just you but a large group of people (the whole country / whole region), in which of these ways do you <u>usually</u> get to know about them? Or if you get to know through some other means please tell me that as well. It could be more than just one way. (MA)

Q2b Which is the <u>main</u> way you get to know about these issues? (SA)

|--|



	Usually	Mainly
	(133)	(134)
Mass media	1	1
Phone	2	2
People talking about it	3	3
Other (specify)	4	4
Other (specify)	5	5

Q3a I would like to ask you some questions on how some of your family expenses are met.

First please tell me the names and ages of all your family members belonging to this household, including children. If you have any of your household family members working overseas and sending money to your household, please tell me their details as well.

Q3b

O .															
	Q3a								Q3b						
	1	2	3	4	5	6	7	8	9	10		Overs eas 2			Overse as 5
	(135)										(139)	cas 2	cas 3	cas 4	as 3
(R1) Name	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(136)										(140)				
(R2) Gender	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(137)										(141)				
(R3) Age	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(138)										(142)				
(R4) Circle the respondent	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5

Q4a I will now read out some types of common expenses that people have. For each type of expense I read out, please tell me who usually decides on the amount of money to be budgeted or spent. If decisions are taken jointly please tell me who the main decision maker is on the amount that is budgeted or spent for this expense.

If you don't have or own any of the items I read out, please tell me that as well

Q4b

	Q4a									Q4b					
	1	2	3	4	5	6	7	8	9	10		Overs eas 2			Overse as 5
	(143)										(148)				
(R1) Food	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(144)										(149)				
(R2) Electricity	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(145)										(150)				
(R3) Home fixed phone	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(146)										(151)				
(R4) 1st Mobile phone	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5
	(147)										(152)				



] [ĺ] 1	1 1		ı
(R5) 2nd Mobile phone	01	02	03	04	05	06	07	08	09	10	1	2	3	4	5	l

Q5a SHOW CARD

PLEASE ASK ALL

Could you please tell me out of the various modes that are given below, what are the modes that you have used either to make or receive a call during the past three months?

Q5b From the modes that you mentioned in Q5a, could you please tell me whether it is a fixed line or mobile phone?

	Q5a	Q:	5b
	Mode used	Fixed	Mobile
	(153-154)	(155)	
(R1) I used my own mobile	01	1	2
		(156)	
(R2) I used the fixed line phone which is in my house hold	02	1	2
		(157)	
(R3) Public pay phone booth	03	1	2
		(158)	
(R4) Telecommunication centers	04	1	2
		(159)	
(R5) Nena Sela	05	1	2
		(160)	
(R6) Government Post office	06	1	2
		(161)	
(R7) Agency Post office / Private Post office	07	1	2
		(162)	
(R8) One of my relatives / friends phone	08	1	2
		(163)	
(R9) One of my neighbours phone	09	1	2
		(164)	
(R10) My work place / Office phone	10	1	2
		(165)	
(R11) A mobile of another household member	11	1	2

Q6	SHOW CARD PLEASE ASK ALL Out of the modes that you have specified in Q5a what is the most frequently used method to make or receive calls in the past three months? (SA)	Code (166)	Route	
	I used my own mobile	01		
	I used the fixed line phone which is in my house hold	02		
	Public pay phone booth	03		
	Telecommunication centers	04		



Nena Sela	05	
Government Post office	06	
Agency Post office / Private Post office	07	
One of my relatives / friends phone	08	
One of my neighbours phone	09	
My work place / Office phone	10	
A mobile of another household member	11	
PLEASE ASK ALL You said that	Code (168)	Route
Lower cost	1	
Accessibility at any time	2	
Accessibility in any location	3	
Privacy	4	
Lack of other options	5	
Others	6	
Others	7	
Others	8	
PLEASE ASK ALL Can you please tell me on an average, how much do you expect a 1 minute call to cost you if you are calling someone who lives in close proximity (same district) from where you make the call? (Country specific codes need to be entered)	Code (169)	Route
Less than 1 cent	01	
Between 2c - 5c	02	
Between 6c - 10c	03	
Between 11c - 15c	04	
Between 16c - 20c	05	
Between 21c - 25c	06	
Between 26c - 30c	07	
Between 31c - 35c	08	
Between 36c - 40c	09	
Between 41c - 45c	10	

Q9 PLEASE ASK ALL





Q7

Q8

More than 50c

11 12

Can you please tell me on an average, how much do you expect a 1 minute call to cost you if you are calling someone who lives far away (It could be a different district but not abroad) from where you make the call?	(171)	
(Country specific codes need to be entered)		
Less than 1 cent	01	
Between 2c - 5c	02	
Between 6c - 10c	03	
Between 11c - 15c	04	
Between 16c - 20c	05	
Between 26c - 30c	06	
Between 31c - 35c	07	
Between 36c - 40c	08	
Between 41c - 45c	09	
Between 46c - 50c	10	
More than 50c	11	
PLEASE ASK ALL	Code	Route
What are the alternative means of communication you use other than telephone calls?	(173)	
Send telegrams	1	
Send letters	2	
I get a friend or a relative to deliver the message	3	
I personally go and convey the message	4	
E mail	5	
SMS	6	
Other	7	
FOR THOSE WHO CODED 3-11 IN Q5a GO TO Q47a Only from those who said "I used my own mobile" in question (5a) Can you please tell me who is the mobile telecommunication service provider that you are using at present?	Code (174)	Route
(Service providers of each country needs to be incorporated)		
Dialog Telekom	01	
Dialog Telekom	01 02	

Q10

Q11

True Move

04 05 06

07 08

Hutch	09	
Other	10	
Mobilink	11	
UFone	12	
Paktel	13	
Telenor	14	
Warid Tel	15	
PLDT	16	
BAYANTEL	17	
GLOBE	18	
PT&T	19	
SMART	20	
DIGITEL	21	
PILTEL	22	

Q12	Only from those who said "I used the fixed line phone which is in my household" in question (5a) Can you please tell me who is the service provider that you are using for the fixed line phone at your household at present?	Code (177)	Route
	(Service providers of each country needs to be incorporated)		
	Sri Lanka Telecom	01	
	Suntel	02	
	Lanka Bell	03	
	TOT	04	
	Telecom Asia (Bangkok Only)	05	
	TT&T (Outside Bangkok)	06	
	PTCL	07	
	EXTELCOM	08	
	GLOBE	09	
	MOBILINE-PILTEL	10	
	SMART	11	

Q13a Only from those who said "I used my own mobile" in question (5a)

What is the main reason for you to select...... (**Read out the response in Q11**) as the main service provider for your mobile phone?

Q13b Only from those who said "I used the fixed line phone which is in my household" in question (5a)

Q13a	Q13b
Mobile Service	Fixed Line
Provider	Service Provider



	(179)	(216)
I was interested in a particular package	01	01
Cheap outgoing rates in general	02	02
Cheap incoming rates in general	03	03
Wider coverage	04	04
Range of services offered	05	05
Low connection charges	06	06
Better voice clarity	07	07
Better customer service	08	08
Reputation of the company	09	09
No other available options	10	10
Ability to get the connection fast and convenient	11	11
Other	12	12
Other	13	13
Other	14	14

Only from those who said "I used my own mobile" in question (5a) Q14a

For how long have you owned either this or any other mobile connection?

Only from those who said "I used the fixed line phone which is in my household" in question (5a) For how long have you owned either this or any other fixed line connection? Q14b

	Q14a	Q14b
	Mobile	Fixed Line
	Connection	Connection
	(218)	(219)
Less than 6 months	1	1
About a year	2	2
About 2 years	3	3
About 3 years	4	4
About 4 years	5	5
About 5 years	6	6
More than 5 years	7	7

Q15	SHOW CARD Only from those who said "I used my own mobile" in question (5a)	Code (220)	Route
	Did you have to provide any of the following documents in order to get your mobile connection?		
	I showed my proof of identity (ID card/ Passport)	1	
	I showed my proof of billing address (Bills/Bank statements, etc)	2	
	Deposits	3	



Annex 4

	No, I did not show any proof of document	4	<u> </u>
Q16	Only from those who said "I used my own mobile" in question (5a)	Code (221)	Route
	Is your mobile phone usually also used by other family members?	(221)	
	Yes, it is used by other family members	1	Q17
	Not Used	2	Q18
Q17	Only from those who said "I used my own mobile" in question (5a) and responded "Yes" in Q16	Code	Route
	For what purpose or occasion is your mobile phone used by other family members.	(222)	
	To what purpose of occasion is your mobile used by other raining members.		
	For special occasions / Emergencies	1	
	For normal conversations with friends	2	
	For normal conversations with relatives	3	
	To keep in touch with business contacts	4	
	Other	5	
	Other	6	
	Other	7	
Q18	SHOW CARD Only from those who said "I used my own mobile" in question (5a)	Code (223)	Route
	If another Mobile Service Provider comes with a low rate package, how likely are you to switch to another operator/ package in the future?		
	I would definitely not switch to it	1	Q19
	I might not switch to it	2	Q19
	Cannot be certain	3	Q20
	I might switch to it	4	Q20
	I would definitely switch to it	5	Q20
Q19	Ask those who said I would definitely not switch / I might not switch Could you please tell me why you wouldn't change the MSP/ Package?	Code (224)	Route
	Hassle of getting a new connection	1	
	It is important that I keep the number I use at present	2	
	I am happy with the service provided by my current MSP	3	
	Other	4	
Q20	Only from those who said "I used my own mobile" in question (5a) What is the type of connection you use for your mobile phone? Is it Pre Paid or Post Paid? If you have more than one connection please consider the connection that you use	Code (225)	Route
	Pre Paid - A top up card is purchased or a payment made in advance	1	Q21



	Post Paid - Receive a monthly bill for the calls made or received					2	Q26
Q21	Ask Only from those who said "I used my own mobile" in question (5a) and res	ponded	l (Prep	aid) in		ode 26)	Route
	How often do you recharge or buy a fixed amount charge card for your mobile conne	ection?					
	Twice a week or more				0)1	
	Once a week		•••••		0)2	
	Once in two weeks		•••••		0)3	
	Once a month				0)4	
	Once in two (2) months				0)5	
	Once in three (3) months		•••••		0	06	
	Once in four (4) months				0)7	
	Once in five (5) months		•••••		0	8	
	Once in six (6) months				0	19	
	Less frequently		•••••		1	.0	
Q22	Only from those who said "I used my own mobile" in question (5a) and responded How long does it take for you to travel to the location where you can recharge or but card for your Pre Paid mobile connection	led (Pr y a fixe	epaid) d amou	in Q20 nt charg		ode 27)	Route
	About 2 minutes					1	
	About 5 minutes				2	2	
	About 10 minutes				3	3	
	About 15 minutes					4	
	About 30 minutes				:	5	
	About 60 minutes				(6	
	More than an hour					7	
Q23	Only from those who said "I used my own mobile" in question (5a) and respond What was the amount of your last prepaid card or the electronic recharge?	led (Pro	epaid)	in Q20			
(F	R1) Amount					(22	8-231)
Q24	[Interviewer to record verbatim] Only from those who said "I used my own mobile" in question (5a) and respond Can you please tell me for how long did you use that top up card or the electronic rec for how long it will probably last considering your current balance? INT TO RECORD THE DURATION IN TERMS OF DAYS CALCULATE THE MONTHLY EXPENDITURE BASED ON THAT AND RE	charge?	If it is	not yet o	over, car		,
(F	R1) Actual or Expected Duration of usage					(23	2-235)
(F	Monthly expenditure - (To be recorded by the interviewer based on the answers to 22) Q23 and Q24)					(23	6-239)



Q25	Only from those who said "Pre Paid" in Question (20) Can you please tell me the main reason as to why you selected a pre paid rather than a post paid connection?	Code (240)	Route
	Per minute rates are lower	01	Q27
	No monthly rental charge	02	Q27
	No billing procedures	03	Q27
	Can control expenditures	04	Q27
	No need to prove the billing address or the identity	05	Q27
	More services available	06	Q27
	Low connection charges	07	Q27
	Other	08	Q27
	Other	09	Q27
	Other	10	Q27
226	Only from those who said "Post Paid" in Question (20) Can you please tell me the main reason as to why you selected a post paid rather than a pre paid connection?	Code (241)	Route
	Per minute rates are lower	1	
	Don't have to keep recharging the account	2	
	More services available (e.g. CLI, Voice mail)	3	
	So that I have billing records	4	
	Other	5	
	Other	6	
	Other	7	
27	SHOW CARD Only from those who said "I used my own mobile" in question (5a)	Code (242)	Route
	How frequently do you send / receive SMS?		
	Daily	1	Q29
	One in two to three days	2	Q29
	Once a Week	3	Q29
	Once in two to three weeks	4	Q29
	Once a month	5	Q29
	Less than once a month	6	Q29
	I have never used the SMS facility	7	Q28
28	Ask only from those who said "I used my own mobile" in question (5a) and ask only from those who responded "I have never used the SMS facility" in Q27	Code (243)	Route
	Why haven't you used the SMS facility		



	I don't know how to use it	1	Q30
	My mobile doesn't allow me to use SMS	2	Q30
	SMS's can only be sent in English	3	Q30
	None of my contacts use it	4	Q30
	Other	5	Q30
	Other	6	Q30
	Other	7	Q30
Q29	Only from those who responded 1 - 6 in Q27 When you SMS, do you write the SMS on your own or does someone else write it for you?	Code (244)	Route
	I write my own SMS	1	Q30
	Someone else writes the SMS for me	2	Q30
Q30	Only from those who said "I used my own mobile" in question (5a) Could you please tell me how many SIM cards / connections you have for your own usage?	Code (245)	Route
	1	1	
	2	2	
	3	3	
	4	4	
	5 or more	5	
Q31	SHOW CARD Only from those who said "I used my own mobile" in question (5a)	Code (246)	Route
	You said you have your own mobile. Could you please tell me which of the following statements best describes your connection?		
	It is totally incoming free	1	
	It is incoming free during off peak hours	2	
	It is incoming free from certain MSP's	3	
	It is incoming free for a certain call duration	4	
	I have to pay for every incoming second	5	
Q32	Only from those who said "I used my own mobile" in question (5a) Could you please tell me whether your mobile is brand new or second hand?	Code (247)	Route
	Brand New	1	
	Second Hand	2	
Q33	Only from those who said "I used my own mobile" in question (5a) You said your phone is brand new/ Second hand (Read out the response from Q32). Could you please tell n for it?	ne how muc	ch you paid
			0.050
(F	R1) Brand New	(24	8-254)



(R2	2) Second Hand								(2	255-261)
Q34	SHOW CARD Only from those who said "I used my own mobile" or "Use Given below is a list of short cuts that some people use to mini me, which are the ones that you usually use.							11	Code (262)	Route
	Use of missed calls / Beeping								01	
	Use the phone as an incoming device only								02	
	Make calls when the rates are lower (night-time / weekends)								03	
	Make calls to mobiles only from mobiles								04	
	Makes calls to fixed phones only from fixed phones								05	
	Use one kind of connection to make calls and a different one to	receiv	e calls						06	
	Sale of Talk time								07	
	Use of load sharing / Transferring talk time								08	
	Use of SMS								09	
	I don't use any of the above								10	
	Other								11	
	Other								12	
	Other								13	
Q35a Q35b	Only from those who said "I used my own mobile" or "Used Can you please tell me, on an average, how much do you spend (Try to get a bill of a recent month from post paid or fixed paid	to ma	ke or re	ceive c	alls du	ring a n	nonth?			
					Q3	5a			Q35b	
							V	erified	I N	lot verified
					(264-	269)	((317)		
(R	1) Pre Paid Connection							1		2
					(270-	275)	((318)		
(R.	2) Post Paid Mobile Connection							1		2
					(276-	316)	((319)		
(R.	3) House Hold fixed phone							1		2
Q36	Only from those who said "I used my own mobile" or "I used household" in question (5a) What is the primary reason that you decided to obtain your own peoples phones For convenience of having my own phone - Accessible at any to the same that the convenience of having my own phone - Accessible at any to the c	n phon	e rather	than u	se publ	ic phor	es or o		Code (320) 1 2	Route
	I don't like to ask for calls from other people								3	

Other	5	Ì
Other	6	l
Other	7	ı

Q37 **SHOW CARD**

Only from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)

To what extent has the direct access to a phone worsened or improved the following aspects of life? Please rate the extent in relation to the 1-5 scale where 1 means the access to the phone worsened and 5 means access to the phone Improved.

	Worsened	Slightly worsened	No change	Somewhat Improved	Improved
	(321)				
Your ability to earn more using the phone or to save a certain expenditure that you have incurred without the					
(R1) phone	1	2	3	4	5
	(322)				
(R2) Ability to act in an emergency	1	2	3	4	5
	(323)				
(R3) Efficiency of my work (Job)	1	2	3	4	5
	(324)				
(R4) Efficiency of my day to day work	1	2	3	4	5
	(325)				
(R5) Family and Social relations	1	2	3	4	5
	(326)				
(R6) My social status/ recognition	1	2	3	4	5

Q38a Only from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)

Mark fixed lines and mobile lines separately

Could you please tell me how many numbers of phones are there in your household?

Q38b Now could you please tell me how many phones are accessible to you?

	Q38a	Q38b
	Household	Accessable No. of Phones
	(327-328)	(331-332)
(R1) Fixed		
	(329-330)	(333-334)
(R2) Mobile		

Q39a SHOW CARD

Only from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)

Do other people outside your family use your phone?

Ç)39a
Mobile	Fixed line phone



	(335)	(336)
(R1) They never use it	1	1
(R2) Only few times in a year	2	2
(R3) Once a month	3	3
(R4) Once a week	4	4
(R5) Two - Three times per week	5	5
(R6) Daily	6	6

Q40a Only from those who responded (2), (3), (4), (5),(6) in Q (39a) for both Mobile and Fixed line phones Do you charge for the calls that other people make from your phone. Read out the responses.

	Q ²	10a
	Mobile	Fixed line phone
	(337)	(338)
(R1) Normally I charge	1	1
(R2) Normally I charge, but I don't charge my close relatives or friends	2	2
(R3) Normally I don't charge, but I have charged a few times	3	3
(R4) No, I never Charge	4	4

Q41	SHOW CARD	Code	Route	İ
	Only from those who Responded (1), (2) or (3) in Q 40	(339)		İ
	You said you have charged from other people for using your phone. Can you please tell me which statement best describes the amount you charge.			
	Below the cost that I actually incur	1		
	An approximate cost	2		
	Enough to make a small profit	3		

Q42	SHOW CARD	Code	Route
	Only from those who said "I used my own mobile" or "I used the fixed line phone which is in my	(340)	
	household" in question (5a)	ļ	
	Suppose the cost of using your phone came down by half, which one of these statements best describes how you would change your phone usage?		
	I would not change my phone usage	1	



	I would increase my phone usage by some amount, but not double my usage	. 2	
	I would double my phone usage	. 3	
	I would more than double my phone usage	. 4	
43	SHOW CARD Only from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)	Code (341)	Route
	nousenous in question (eu)		
	Suppose the cost of using your phone doubled, which one of these statements best describes how you would change your phone usage?		
	I would not change my phone usage	. 1	
	I would reduce my phone usage by some amount, but not by half	. 2	
	I would reduce my phone usage by half	. 3	
	I would reduce my phone usage by more than half	. 4	
44	Only from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)	Code (342)	Route
	Could you please tell me whether your fixed line or mobile phone contributes to your income or help save costs?		
	Yes	. 1	Q45
	No	2	Q47
46	SHOW CARD Only from those who said "I used the fixed line phone which is in my household" in question (5a) You said that you use the phone which is in your household to make or receive the calls. By looking at the below statements, can you please tell me which suits you the best?	Code (347)	Route
	I can use the phone any time to make or receive calls	. 1	
	I can use the phone any time for receiving calls	. 2	
	There are restrictions for making and receiving calls	. 3	
7a	PLEASE ASK ALL		
	You said you use		
	(Pictures to be shown along side of the scale - Smiley faces)		



Q47b Ask only if the answer is not free of charge in Q47a SHOW CARD

You said the modes you use to make or receive calls were not free of charge. Could you please rate the cost of using each of the below mentioned modes on a scale of 1-5 where 1 means very cheap and 5 means very expensive.

	Q47a	Q47b						
	Free of charge	Very Cheap	Somewhat cheap	Affordable	Somewhat expensive	Very Expensive		
	(348-349)	(350)						
(R1) I used my own mobile	01	1	2	3	4	5		
I wood the fixed line whome which is in my house		(351)						
I used the fixed line phone which is in my house (R2) hold	02	1	2	3	4	5		
		(352)						
(R3) Public pay phone booth	03	1	2	3	4	5		
		(353)						
(R4) Telecommunication centers	04	1	2	3	4	5		
		(354)						
(R5) Nena Sela	05	1	2	3	4	5		
		(355)						
(R6) Government Post office	06	1	2	3	4	5		
		(356)						
(R7) Agency Post office / Private Post office	07	1	2	3	4	5		
		(357)						
(R8) One of my relatives / friends phone	08	1	2	3	4	5		
		(358)						
(R9) One of my neighbours phone	09	1	2	3	4	5		
		(359)						
(R10) My work place / Office phone	10	1	2	3	4	5		
		(360)						
(R11) A mobile of another household member	11	1	2	3	4	5		

Q48	PLEASE ASK ALL Out of the following statements which one best describes your internet usage?	Code (361)	Route
	Daily	1	Q49
	2-3 times per week	2	Q49
	Once a week	3	Q49
	Once in two weeks	4	Q49
	Once a month	5	Q49
	Less than once a month	6	Q49
	I don't access the internet	7	Q52
	I haven't heard about the internet before	8	Q52



Q49	Ask those who use responded 1 - 6 in Q48 You said you access the internet, can you tell me where do you access it from?	Code (362)	Route
	At home	1	
	I go to an internet cafe (Cyber cafe)	2	
	I access it at my relatives/ friend's place	3	
	I access it at my office/workplace	4	
	I access it at my neighbours place	5	
	Other	6	
Q50	SHOW CARD Ask those who use responded 1 - 6 in Q48	Code (363)	Route
	How do you use the internet for communication purposes?		
	E mail	1	
	Chatting	2	
	Internet calling (VOIP)	3	
Q51	Ask those who use responded 1 - 6 in Q48	Code (364)	Route
	Now I'll be reading some statements of certain information people surf in the web. If you surf the web to gather information, what information do you surf for?		
	To practice my English	01	
	For my school work	02	
	For my own/family business	03	
	To improve my general knowledge	04	
	Information	05	
	To learn specific skills	06	
	For my job	07	
	To make friends	08	
	Entertainment	09	
	To meet/reunite with family abroad	10	
	Personal relationships	11	
	To get health information	12	
	Information on romance	13	
	To get government information	14	
	I do not surf the net	15	
	Other	16	
0.52			D :
Q52	FOR THOSE WHO CODED ONLY 1 OR 2 IN Q5a GO TO Q66 Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in	Code (366)	Route



my household' in question (5a) What is the main reason for you to not have a phone of your own?		
It is too expensive for me to afford	1	
None of my contacts have a phone	2	
Don't need to use the phone because my contacts live locally	3	
I don't see a need to have my own phone	4	
Unavailability of hand sets (the device which is used to make or receive calls) in the area I live	5	
Other	6	
Other	7	
Other	8	

Otter	0	
Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a) If you were to buy a new phone, how much would you expect it to cost you? This is inclusive of the hand set and the connection. (Country specific costs need to be included. Start from approximately 50% less than the cheapest and	Code (367)	Route
go up to the most expensive range)	İ	
Less than \$10	01	
Between \$11 - 25	02	
Between \$ 26 - 45	03	
Between \$ 46 - 85	04	
Between \$ 86 - 115	05	
Between \$ 116 - 145	06	
Between \$ 146 - 175	07	
Between \$ 176 - 205	08	
Between \$ 206 - 235	09	
Between \$ 236 - 265	10	
Between \$ 266 - 295	11	
Between \$ 296 - 325	12	
Between \$ 326 - 355	13	
Between \$ 356 - 385	14	
Between \$ 386 - 415	15	
Between \$ 416 - 445	16	
Between \$ 446 - 475	17	
Between \$ 476 - 505	18	
Between \$ 506 - 535	19	
Between \$ 536 - 565	20	
Between \$ 566 - 595	21	



		1	i I
	Between \$ 596 - 625	22	
	Between \$ 626 - 655	23	
	Between \$ 656 - 685	24	
	Between \$ 686 - 715	25	
	Between \$ 716 - 745	26	
	Between \$ 746 - 775	27	
	Between \$ 776 - 805	28	
	More than \$ 805	29	
Q54	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in	Code	Route
Qu'.	my household" in question (5a) If you were to buy a new phone, how much would you expect the monthly call charges to be?	(370)	110000
	(Country specific codes need to be included)		
	Less than \$ 5	01	
		01	
	Between \$ 5 - 10	02	
	Between \$ 11 - 15	03	
	Between \$ 16 - 20	04	
	Between \$ 21 - 25	05	
	Between \$ 26 - 30	06	
	Between \$ 31 - 35	07	
	Between \$ 36 - 40	08	
	Between \$ 41 - 45	09	
	Between \$ 46 - 50	10	
	Between \$ 51 - 55	11	
	Between \$ 56 - 60	12	
	Between \$ 61 - 65	13	
	Between \$ 66 - 70	14	
	More than \$ 70	15	
Q55	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in	Code	Route
	my household" in question (5a) Do you plan to buy a phone for your own use within next two years?	(372)	
	Yes	1	Q56
	No	2	Q59
Q56	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)	Code (373)	Route
	Only from who said "Yes" in Q55	(3/3)	
	You said that you plan to buy your own phone, Would it be a fixed line phone or a mobile phone? (SA)		
	Fixed Line phone	1	Q57



	Mobile Phone	2	Q57
	Haven't decided yet	3	Q58
0.55		G 1	
Q57	From those who said Fixed Line Phone or Mobile Phone in Q 56 Please tell me the main reason for choosing a(Read out the response in Q56)	Code (374)	Route
	It is easier for me to make calls on this type of a phone	01	
	It is easier for me to receive calls on this type of a phone	02	
	Low call charges	03	
	Convenient to make / receive calls	04	
	I need this type of a phone as it can accommodate the type of work I do	05	
	I can manage with this type of a phone	06	
	It is more trendy and fashionable and it will improve my social status	07	
	Other	08	
	Other	09	
	Other	10	
Q58	Only from those who said "Yes" in Q 55	Code	Route
	How long do you think it will take you to buy your own phone?	(375)	
	Less than 6 months	1	
	Between 6 - 12 months	2	
	Between 1 - 1.5 years	3	
	Between 1.5 - 2 years	4	
	•		
Q59	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a)	Code (376)	Route
	If you go specifically to make or receive a call, how long does it take for you to reach to the nearest accessible phone?		
	·		
	Less than 2 - 3 minutes	1	
	Between 3 - 5 minutes	2	
	Between 5 - 10 minutes	3	
	Between 10 - 15 minutes	4	
	Between 15 - 30 minutes	5	
	Between 30 - 45 minutes	6	
	Between 45 - 60 minutes	7	
	More than an hour	8	
Q60	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in	Code	Route
~50	my household" in question (5a)	(377)	
	Do you have to incur an additional cost for transportation in order to reach to the nearest location that has a phone which is accessible to you		



	Yes	1	Q61
	No	2	Q62
Q61	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a) From those who said Yes in Q60 You said that you have to incur an additional transport cost to reach the nearest location that has a phone which is accessible to you. How much would it normally be?	Code (378)	Route
	Less than 10 cents	01	
	Between 11 - 15c	02	
	Between 16 - 20c	03	
	Between 21 - 25c	04	
	Between 26 - 30c	05	
	Between 31 - 35c	06	
	Between 36 - 40c	07	
	Between 41 - 45c	08	
	Between 46 - 50c	09	
	Between 51 - 55c	10	
	Between 56 - 60c	11	
	More than 60 cents	12	
Q62	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a) If you were given a phone at a rate at which you can very much afford, (This will include the initial costs as well as monthly call rates) Will you be interested in buying one	Code (380)	Route
	Yes	1	Q63
	No	2	Q66
Q63	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a) Only from those who said (Yes) in O62 You said you will be interested in buying a phone if you were given one at a rate which you can very much afford, what is the initial cost that you think you can afford	Code (416)	Route
	(Country specific codes need to be included)		
	Less than \$10	01	
	Between \$ 10 - 30	02	
	Between \$ 31 - 50	03	
	Between \$ 51 - 70	04	
	Between \$ 71 - 90	05	
	Between \$ 91 - 110	06	
	Between \$ 111 - 130	07	



	Between \$ 131 - 150	08	
	Between \$ 151 - 190	09	
	Between \$ 191 - 210	10	
	Between \$ 211 - 230	11	
	Between \$ 231 - 250	12	
	Between \$ 251 - 270	13	
	Between \$ 271 - 290	14	
	Between \$ 291 - 310	15	
	Between \$ 311 - 330	16	
	Between \$ 331 - 350	17	
	Between \$ 351 - 370	18	
	Between \$ 371 - 390	19	
	Between \$ 391 - 410	20	
	More than \$ 410	21	
Q64	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a) Only from those who said (Yes) in Q62 You said you will be interested in buying a phone if you were given one at a rate which you can very much afford, what is the monthly expenditure that you think you can afford (Country specific codes need to be included)	Code (419)	Route
	Less than \$ 5	01	
	Between \$ 5 - 10	02	
	Between \$ 11 - 15	03	
	Between \$ 16 - 20	04	
	Between \$ 21 - 25	05	
	Between \$ 26 - 30	06	
	Between \$ 31 - 35	07	
	Between \$ 36 - 40	08	
	Between \$ 41 - 45	09	
	Between \$ 46 - 50	10	
	Between \$ 51 - 55	11	
	Between \$ 56 - 60	12	
	Between \$ 61 - 65	13	
	Between \$ 66 - 70	14	
	More than \$ 70	15	
Q65	Do not ask from those who said "I used my own mobile" or "I used the fixed line phone which is in my household" in question (5a) Only from those who said (yes) in Q62	Code (421)	Route



	If you were given a phone at a rate at which you can afford, for what purpose would you mainly use it?		
	To enhance my social relations/ To build more links with people	1	
	To enhance my income	2	
	Only in an emergency	3	
	To keep in touch with my family and loved ones	4	
	Other	5	
	Other	6	
	Other	7	
Q66	PLEASE ASK ALL Record the age of the respondent Age of the respondent		
(H	R1) Respondent Age	(42	22-424)
Q67	PLEASE ASK ALL Record the gender of the respondent	Code (425)	Route
	Male	1	
	Female	2	
Q68	PLEASE ASK ALL Can you please tell me your monthly personal income? (Country specific income brackets need to be included)	Code (426)	Route
	Below \$ 10	01	
	Between \$ 10 - 25	02	
	Between \$ 26 - 50	03	
	Between \$ 51 - 75		
	Between \$ 76 - 100		
	Between \$ 101 - 150	06	
	Between \$ 151 - 250	07	
	Between \$ 251 - 350		
	Between \$ 351 - 500	09	
	Between \$ 501 - 650		
	Between \$ 651- 900	11	
	Between \$ 901- 1050		
	Between \$ 1051- 1200		
	Between \$ 1201- 1350	14	
	Between \$ 1356 - 1500	15	
	Delweell 9 1330 - 1300	רו	



Between \$ 1501- 1650	16	
Between \$ 1651- 1800	17	
Between \$ 1801- 1950	18	
Between \$ 1951- 2100	19	
Between \$ 2101- 2250	20	
Between \$ 2251- 2400	21	
Between \$ 2401- 2550	22	
Above \$ 2550	23	

Q69	PLEASE ASK ALL Can you please tell me your monthly house hold income? (Country specific income brackets need to be included)	Code (429)	Route
	Below \$ 10	01	
	Between \$ 10 - 25	02	
	Between \$ 26 - 50	03	
	Between \$ 51 - 75	04	
	Between \$ 76 - 100	05	
	Between \$ 101 - 150	06	
	Between \$ 151 - 250	07	
	Between \$ 251 - 350	08	
	Between \$ 351 - 500	09	
	Between \$ 501 - 650	10	
	Between \$ 651- 900	11	
	Between \$ 901- 1050	12	
	Between \$ 1051- 1200	13	
	Between \$ 1201- 1350	14	
	Between \$ 1356 - 1500	15	
	Between \$ 1501- 1650	16	
	Between \$ 1651- 1800	17	
	Between \$ 1801- 1950	18	
	Between \$ 1951- 2100	19	
	Between \$ 2101- 2250	20	
	Between \$ 2251- 2400	21	
	Between \$ 2401- 2550	22	
	Above \$ 2550	23	

Q70 PLEASE ASK ALL
Can you please tell me, what is the highest educational qualification of yours?

Code (432) Route



	(Country specific codes need to be included)		
	Primary Education	1	
	Secondary Education (Up to GCE Ordinary Level)	2	
	GCE Advanced Level	3	
	Diploma Level	4	
	Graduate	5	
	Post Graduate	6	
Q71	PLEASE ASK ALL	Code	Route
Q,1	Can you please tell me to which ethnic group do you belong to? (Country specific codes need to be included)	(433)	Route
	(Country specific codes need to be included)		
		1	
	Sinhala	1	
	Tamil	2	
	Muslim	3	
	Other	4	
Q72	Int. Don't ask the respondent Record the occupation by looking at the SEC grid.	Code (434)	Route
	Record the occupation by looking at the SEC grid.	(434)	
	Farming / Agriculture	01	
	Administration / Managerial - senior	02	
	Administration / Managerial - junior	03	
	Labourer / trained	04	
	Labourer / untrained	05	
	Clerk	06	
	Trade	07	
	Industrial / trained	08	
	Industrial / untrained	09	
	Services	10	
	Self employed (zero employees)	11	
	Business Self employee - Under him / her (1-9) employees	12	
	Business Self employee - over 9	13	
	Other (specify)	14	
Q73	Don't ask the respondent	Code	Route
	Please record the SEC of the respondent by looking at the SEC grid.	(436)	
	A	1	
	В	2	
	υ	_	l I



C	3	
D	4	
E	5	

Q74	Don't ask the respondent	Code	Route
	Please record the country.	(437)	
	India	1	
	Pakistan	2	
	Philippines	3	
	Sri Lanka	4	
	Thailand	5	

Annex 5: Teleuse@BOP3 qualitative discussion guide - users

PROJECT ALEXANDER: Qualitative study FINAL DISCUSSION GUIDE AMONGST USERS

1. INTRODUCTION

- ✓ Introduce Self, ACN
- ✓ No right or wrong answers
- ✓ Importance of each and everybody's presence and participation
- ✓ Confidentiality and anonymity
- ✓ Tape Recorder, one to speak at a time

2. WHO IS SHE/ HE

- a) Let us begin by introducing ourselves...can you tell me a little about yourself:
 - Your name
 - How old are you
 - Your profession
 - How many are there in the family

(Moderator to note on group charts)

- b) Now I would like to know how you spend a typical day in your life. From the time, you wake up in the morning till the time you go to bed what do you do? What time do you wake up? Why? Then what do you do?
- c) How about weekends...What do you do...How is it different from your weekdays
 - Spend time with the family/ friends
 - Special meals/ beverages
 - Go out
- d) How do you spend your leisure time...what are your hobbies ...how did you get into it ...Why?

3. REACTION TOWARDS COMMUNICATION

- a) When I say "Communication" what are your first thoughts/ feelings...why?
- b) What kind of a role does Communication play in your life...If you had to associate 'Communication' with a relationship, what would it be ...why?
- c) Tell me why do people need to communicate...What are the benefits of Communication...why?
 - Get information
 - To get business
 - To keep in touch with friends/ relatives
 - Get updated about the current situation of the country/ world

(Moderator to probe on Rational, Emotional benefits)

- d) (Moderator to select a local incident relevant to the respondents and continue the questions. Eg: Flood, Accident, terrorist attack, etc)
 - a) How did you get to know about it...who told you...through which medium ...did you have to pay for that...why?
 - b) Did you communicate it to anybody else...who was it...and how did you communicate it to others (Phone, WOM)why did you choose this particular mode/method

(Moderator to select a National level incident (e.g.: Tsunami, Terrorist attack, Earthquake, etc.) and repeat $Q\ 3\ (d)$)

- e) Tell me, what are the modes of communication that you are aware of?
 - Word of Mouth
 - Mail
 - Telegram

- Telephone
- Internet
- TV
- Radio
- Newspaper/ Magazines
- Posters/ Billboards/ Notices

(Moderator to note on cards)

- f) Let us quickly classify these in any which way possible...why have you done so?
 - Easily Available vs. Not easily available
 - Expensive vs. VFM vs. Cheap
 - Popular vs. Not Popular
 - User friendly vs. Not user friendly
 - Convenient vs. Inconvenient
 - Quick vs. Slow

(Moderator to perform a classification exercise using the cards)

- g) Tell me which communication modes do you
 - · Regularly use
 - Occasionally use
 - Never use
- ...Why?
- h) Now I want you to rank these modes of communication according to your preference...why did you do so?

4. REACTION TOWARDS TELECOMMUNICATION

- a) What are your first thoughts/ feelings that come to your mind when I say 'Telecommunication'...why?
- b) What are the commonly used devices in telecommunication ...what are the modes that are available for you?
 - Telephone/Fixed line
 - Mobile
 - Internet
 - Fax
 - Pagers
 - Telegram
 - Wireless
- Now can you tell me from these telecommunication modes what are the options available to you...what are not...why?

5. REACTION TOWARDS MOBILE/ FIXED LINE

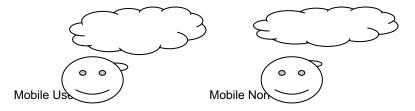
- a) What are your first thoughts/ feelings that come to your mind when I say 'Mobile'...why?
- b) Imagine if you wake up tomorrow in the morning there and find out that there are no telephones/mobiles...how do you feel...why? Which mode would you use as an alternative...why?
- c) What are the advantages of using a mobile...why?

(Moderator to probe on communicational functions as well as the facilities available from the device.)

- Convenient...what do you mean by this
- Cheaper to call
- Stay in touch (Moderator to probe and understand the need for Net working)
- Extra functions (Alarm, Clock, Calendar, Reminders, Games, etc) Of these which ones do you use...why?
- Security
- d) What are the disadvantages of using a mobile...why?
 - Expensive
 - Need to recharge the battery



- Sans privacy
- Recharging credit (if prepaid)
- e) How important is being part of a network...is there a need to be connected to others?... What are the benefits you gain from it?
- f) Imagine that there are two people A and B...A is using Mobile to communicate and B is not.
 - What would be the top 3 reasons for A to use a mobile for communication ...why?
 - What are the other telecommunication modes that she/ he will use...why?
 - What would B say as the top 3 reasons for not using a mobile device?...why? (
 Moderator to note if non availability of handsets in the rural areas emerges as a reason)
 - What would B use to communicate instead of telecommunication devices...why?
 - Describe them to me in terms of age, sex, personality traits, place of residence.....why?



- g) If 'Mobile Communication' by magic turns into a human being ... could you describe the person to me in terms of...
 - Sex
 - Age
 - Personality traits
 - Dress code
 - Place of residence
 - · Relationship shared
- h) Could you please associate the following with Mobile Communication... why have you done so?
 - Animal
 - Celebrity
 - Vehicle
- i) Imagine if you become the Manager of the mobile company what would you do to increase the mobile usage?

(Moderator to get repeat Q5 (a) - (i) for Fixed lines as well)

6. DECISION MAKING PROCESS

- a) If you get **only one** chance to make a call,
 - From where will you make that call (Multi purpose telecentre Government post office, Private post office Friend, neighbor etc)
 - Which mode would you choose (Mobile/ landline)
 - Who will decide the place and the mode...why?
 - To whom will it be made
 - What would the purpose of the call be
 - Who would pay for it...why/ why not?
 - Is there a budget for it...why? How much? Who decides?
- b) Now I want you to recall your last telecommunication interaction that you had... (Moderator to note that the last communication can be voice or text)



- i. When was this ...what was the reason for the telecommunication...
 (Check to see if personal/family security emerges)
- ii. With whom did you communicate ...did you directly communicate to the person whom you wished to give the message to or was it somebody else...why?

(Moderator to understand the degree of externality of the communication)

- iii. Which device did you use for it ...why?
 - Fixed line
 - Mobile
 - Wireless
- iv. Was it a vocal message or text message...why?
- v. Who owned the facility... Who decided to use that mode...why? Who encouraged/ influenced you to do so?...why?
- vi. Who bore the cost for it ...was it you or was it someone else...why? Was it pre paid or post paid...why?
- vii. If that particular mode of telecommunication was not available for you, which mode would you use as an alternative...why?
- viii. If you are to purchase a new telecommunication device
 - What are the attributes that you would seek...why?
 (Moderator to pile a list of attributes in their priority)
 - What mode will you select...why? (Mobile, Landline)
 - How do you get the information...Who will assist in the decision making...why?
 Who will influence you ...why?
 - From where would you get the money...who bears the cost...why?
 - Who takes the final decision...why?

7. GENERAL INFORMATION

Moderator to check on the following hypothesis

- a) You mentioned that networking (Moderator to use the term that the respondents have used in the groups) is important ...can you explain this to me in detail...what do you actually mean by it (Moderator to understand if the need is nature related or degree related)
 - How does it help you in your daily life (Moderator to check at both a physical and emotional level)
 - How do you feel about it
- b) Somebody mentioned that they feel that telecoms in general and Mobiles in particular has actually reduced the gap between the rich and the poor...What do you think about this...Why do you say so
 - Is this facility considered a necessity or a luxury...if so why
 - Can you narrate any real life incidents where you have witnessed this
 - How do you feel about it
- c) If we go on the same lines, what do you think is the effect of telecom/mobiles on the income classes...someone else mentioned that they think it has helped bridge the gap between men and women ...what do you think...why do you say so...
 - Can you narrate any real life incidents where you have witnessed this
 - How do you feel about it

THANK YOU!



Annex 6: Teleuse@BOP3 qualitative discussion guide - non-users

PROJECT ALEXANDER: Qualitative study FINAL DISCUSSION GUIDE AMONGST NON USERS

1. INTRODUCTION

- ✓ Introduce Self, ACN
- ✓ No right or wrong answers
- ✓ Importance of each and everybody's presence and participation
- ✓ Confidentiality and anonymity
- ✓ Tape Recorder, one to speak at a time

2. WHO IS SHE/ HE

- b) Let us begin by introducing ourselves...can you tell me a little about yourself:
 - Your name
 - How old are you
 - Your profession
 - How many are there in the family
- e) Now I would like to know how you spend a typical day in your life. From the time, you wake up in the morning till the time you go to bed what do you do? What time do you wake up? Why? Then what do you do?
- f) How about weekends...What do you do...How is it different from your weekdays
 - Spend time with the family/ friends
 - Special meals/ beverages
 - Go out
- g) How do you spend your leisure time...what are your hobbies ...how did you get into it ...Why?
- h) You mentioned you watch a lot of TV...which channels do you watch, which programmes do you watch....which one would you say is your favorite ...why?
- i) As you mentioned you enjoy listening to radio...which stations do you listen to, which programmes do you listen to...which one would you say is your favorite ...why?
- j) You said that you like reading ...what do you normally read ...why

3. REACTION TOWARDS COMMUNICATION

- i) When I say "Communication" what are your first thoughts/ feelings...why?
- j) What kind of a role does Communication play in your life...If you had to associate 'Communication' with a relationship, what would it be ...why?
- k) Tell me why do people need to communicate...What are the benefits of Communication...why?
 - Get information
 - To get business
 - To keep in touch with friends/ relatives
 - Get updated about the current situation of the country/ world

(Moderator to probe on Rational, Emotional benefits)

- l) Tell me, what are the modes of communication that you are aware of
 - Word of Mouth
 - Mail
 - Telegram

- Telephone
- Internet
- TV
- Radio
- Newspaper/ Magazines
- Posters/ Billboards/ Notices

(Moderator to note on cards)

- m) Let us quickly classify these in any which way possible...why have you done so?
 - Easily Available vs. Not easily available
 - Expensive vs. VFM vs. Cheap
 - Popular vs. Not Popular
 - User friendly vs. Not user friendly
 - Convenient vs. Inconvenient
 - · Quick vs. Slow

(Moderator to perform a classification exercise using the cards)

- f) Tell me which communication modes do you
 - Regularly use
 - Occasionally use
 - Never use
- ...Why?

(Moderator to get quantitative measures for regular and occasional use)

g) Now I want you to rank these modes of communication according to your preference...why did you do so?

7. REACTION TOWARDS TELECOMMUNICATION

- d) What are your first thoughts/ feelings that come to your mind when I say 'Telecommunication'...why?
- e) What are the commonly used devices in telecommunication ... which are the modes that are available to you?
 - Telephone
 - Mobile
 - Internet
 - Fax
 - Pagers
 - Telegram
 - Wireless
- f) Now can you tell me from these telecommunication modes what are the options available to you...what are not...why?
- g) You mentioned that you occasionally use the phone...can you tell me why...how do you normally communicate...why?

(Moderator to understand the need of Networking)

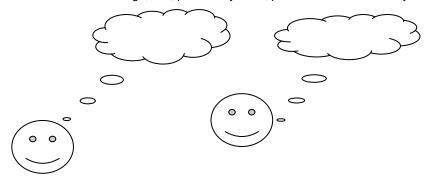
- h) If you get only one chance to make a call,
 - From where will you make that call (Multi purpose telecentre Government post office, Private post office Friend, neighbor etc)
 - Which mode would you choose (Mobile/ landline)
 - Who will decide the place and the mode...why?
 - To whom will it be made
 - What would the purpose of the call be
 - Who would pay for it...why/ why not?
 - Is there a budget for it...why? how much? Who decides?
- i) Imagine if you wake up tomorrow in the morning and find out that there are no telephones/ mobiles...how do you feel...why? Which mode would you use as an alternative...why?

IMAGERY

- j) Imagine that there are two people A and B...A is using Telecommunication to communicate and B is not.
 - What would be the top 3 reasons for A to use telecommunication for communication ...why?



- What are the telecommunication modes that she/ he will use...why?
- What would B use to communicate instead of telecommunication devices...why?
- What would B say as the top 3 reasons for not using telecommunication devices?....why?
- Describe them to me in terms of age, sex, personality traits, place of residence....why?



Telecommunication User

Non User

5) EXTERNALITY FACTOR

(Moderator to select a local incident relevant to the respondents and continue the questions. Eg: Flood, Accident, terrorist attack, etc)

- c) How did you get to know about it...who told you...through which medium ...did you have to pay for that...why?
- d) Did you communicate it to anybody else...who was it...how did you communicate it to others (Newspaper, TV, Radio, WOM etc) ...why did you choose that particular mode of communication?

(Moderator to select a National level incident (eg: Tsunami, Terrorist attack, Earthquake, etc.) and repeat Q 5 (a) – (b))

6) REACTION TOWARDS MOBILE/ FIXED LINE

- e) What are your first thoughts/ feelings that come to your mind when I say 'Mobile'...why?
- f) What are advantages of using a mobile...why?

(Moderator to probe on communicational functions as well as the facilities available from the device.)

- Convenient
- Cheaper to call
- Stay in touch
- Extra functions (Alarm, Clock, Calendar, Games, etc) of these which ones do you use...why?
- g) What are the disadvantages of using a mobile...why?
 - Expensive
 - Need to recharge the battery
 - Sans privacy
 - Recharging credit
 - People can always contact you
- h) Imagine that there are two people X and Y. X is using a mobile to communicate and Y is not. Could you tell me the reasons why X is using a mobile and why Y is not?
- i) If 'Mobile Communication' by magic turns into a human being ... could you describe the person to me in terms of
 - Sex
 - Age
 - Personality traits
 - Dress code
 - · Place of residence
 - Relationship shared
- j) Could you please associate the following with Mobile Communication... why have you done so?
 - Animal
 - Celebrity



- Vehicle
- k) Can you tell me three key reasons not to use mobile communication for the last three months...what do you use instead...how do you keep in touch then
 - (Moderator to probe extensively on this question and arrive at both rational and emotional reasons. Also to note if non availability of handsets in the rural area is a barrier)
- 1) Imagine if you become the Manager of the mobile company what you would do to increase the mobile usage.

(Moderator to get repeat Q6 (a) - (h) for Fixed lines as well)

7) DECISION MAKING PROCESS

- b) If you are to purchase a new telecommunication device/ service what are the attributes that you would seek...why? (Moderator to pile a list of attributes in their priority)
- c) What mode will you select...why? (Mobile, Landline, Wireless)
- d) How do you get the information...Who will assist in the decision making...why? Who will influence you ...why?
 - Friends
 - Spouse
 - Children
 - Shop keeper
- e) From where would you get the money...who bears the cost...why?
- f) Who takes the final decision...why?
- g) Who else will benefit from this facility apart from you...How?

8) GENERAL INFORMATION

Moderator to check on the following hypothesis

- d) You mentioned that networking (Moderator to use the term that the respondents have used in the groups) is important ...can you explain this to me in detail...what do you actually mean by it (Moderator to understand if the need is nature related or degree related)
 - How does it help you in your daily life (Moderator to check at both a physical and emotional level)
 - How do you feel about it
- e) Somebody mentioned that they feel that telecoms in general and Mobiles in particular has actually reduced the gap between the rich and the poor...What do you think about this...Why do you say so
 - Is this facility considered a necessity or a luxury...if so why
 - Can you narrate any real life incidents where you have witnessed this
 - How do you feel about it
- f) If we go on the same lines, what do you think is the effect of telecom/mobiles on the income classes...someone else mentioned that they think it has helped bridge the gap between men and women ...what do you think...why do you say so...
 - Can you narrate any real life incidents where you have witnessed this
 - How do you feel about it

THANK YOU!



Annex 7: Cell Broadcasting in a Public Early Warning System

Cell Broadcasting in a Public Early Warning System

Case Study of the Maldives

Abstract

The mobile phone is increasingly becoming a tool for more than simple conversation. With the advent of Mobile 2.0, it is rapidly gaining ground as a means of paying bills, surfing the internet, taking video, and so much more. Cell broadcasting – a technology that allows a text or binary message to be defined and distributed to all mobile terminals connected to a set of cells¹ – has gained significant momentum as a viable means for mass notification of important events, particularly, hazards.

LIRNE asia, through its research in the uses of Mobile 2.0 for the Bottom of the Pyramid (BOP) and research on appropriate technologies for the dissemination of hazard information to the "last-mile" of a national early warning system, within a closed user group of a community-based model, understands the uses of cell broadcasting for a public early warning model.

Studies from LIRNE asia suggest that the trend is that Asians will spend money on improving existing mobile communication rather than ensuring that their homes and businesses are connected to broadband Internet. Mobile usage in Asia is rising exponentially. In the Maldives, for instance, mobile usage is at an astounding 97%. Government officials in that island nation have taken an interest in the use of cell broadcasting as a means to alert its citizens and tourists about impending hazards, an important prerequisite for implementation of this technology.

Thus, LIRNE asia proposes that research be conducted in the Maldives to assess as to whether cell broadcasting would be a viable means of hazard information dissemination within a public warning system. This study will determine the necessary pre-conditions for cell broadcasting to function within the context of the Maldives.

From "Cell Broadcast Forum – What is Cell Broadcast" at http://www.cellbroadcastforum.org/whatisCB/frmset_about_techn.html

Background: Disaster and Telecommunications in Maldives

The Maldives is prone to a number of hazards including tsunamis, earthquakes, flash floods, tidal waves, thunderstorms, tornadoes and waterspouts, strong winds, drought and cyclones. The December 2004 tsunami submerged many of its islands and wrought considerable devastation to its infrastructure, particularly telecom. Not only did it destroy shelters, but it affected five major nodes, disrupted service to 13 atolls (163 islands), destroyed power systems and batteries, and damaged radio equipment.

Currently there are two main GSM service providers in the Maldives. Each has the inbuilt capability for cell broadcast. Recently, several emergency telecommunications working committees have been set up. Notably, a technical committee on early warning and emergency telecommunications, and a national plan on early warning dissemination and emergency communication. Some of the emergency alert in-roads that the island nation has made on these issues include emergency alert via broadcasting (EAB), and the use of bulk SMS on a mobile network, priority calling and national roaming, and the establishment of a national Emergency Operating Center. Moreover, regular communications drills, awareness programs and inclusion of emergency telecommunications in curriculum continue to inculcate a prepared environment.

Yet, despite measures taken to prepare its population, the Maldives has not come to a viable conclusion for a means of disseminating a hazard warning. It has established hotlines with the National Meteorological Center, Ministry of Defense, TV Maldives, and Voice of Maldives. It has licensed satellite phones for emergency alerts and placed one on each of its inhabited islands, and one each for resorts and airport.²

What is Cell Broadcast?

Cell broadcast is an integrated open system that allows emergency officials one-touch notification to cell phones with guarantee of covering all carriers. Cell broadcast technology enables a government entity to securely transmit an emergency alert of natural or manmade disasters to cell phones in an affected area within two minutes, regardless of the size of the area and regardless of the subscriber's carrier.

² Adam, Abdullah Shiham. "Emergency Telecommunications Initiatives for Disaster Management in the Maldives". ITU/ESCAP Disaster Communications Workshop.

The cell broadcast alert causes the cell phone to sound a ring and to display a warning message on the screen. The message is relayed with greater efficiency than a two-way call or a SMS text message without overloading the network, as frequently occurs in disasters when thousands of concerned citizens and emergency managers are attempting to place cell phone calls. Cell broadcast is a more advanced technology than SMS text messaging.³

Cell broadcasting is currently used in Berlin, South Korea, and the Netherlands.⁴
Currently, in Turkey, cell broadcast is being used for *e-government* and *e-democracy* purposes.

It has also been used to advise migrant workers of employment opportunities.

Basic Requirements for Cell Broadcast

- The networks must be capable of CB, which means they must be GSM, UMTS
 or IS 95CDMA. They must command the cell broadcast feature on, which is
 done by typing in the license code from the Base Station Controller (BSC)
 vendor. They may or may not have to pay for the license.
- Then the BSCs need to be connected to a cell broadcast center, this can be
 provided by the network in their own network operations center, or provided on
 a shared basis by a third party.
- A front end that is capable of supporting graphical user interface as well as Common Alerting Protocol (CAP).

Advantages of Cell Broadcast

- Rapid Deployment. Cell broadcast "talks" to the tower, not to the phone.
 Therefore, there is no limit to the number of phones that can be reached.
 Reaching phones can be done within 20 seconds.
- Network-friendly. Cell broadcast capacity is fixed and reserved as part of the network. Thus, it avoids full capacity and overload has no impact on CB.
- Addressability. Cell broadcast has the ability to notify different neighborhoods or specific communities of specific instructions.

Disadvantages of Cell Broadcast

From Klein, Paul. "Cell Broadcast Technology for Emergency Alert Notifications". CellCast Technologies.

www.cellalert.com/news/jan 10 2006.html

- Annoyance. Cell broadcasts may be intrusive and annoying to recipients if abused.
- Security Issues. Some critics argue that it is yet another form of "Big Brother" citing potential security infringements and misuse of user information.
- Distraction (i.e. usage for services such as traffic alerts).
- Error Margins:
 - o Might CB create panic?
 - o How might the broadcaster potentially misuse it?
- Language. Cell broadcasts have not yet been done in scripts other than the Latin alphabet. Applications for non-Latin alphabet languages would have to be developed.

Research Question

What other pre-conditions must exist in a country in order for cell broadcasting to function effectively for a public warning system?

Proposed Methodology

- 1. Assess mobile providers in Maldives and their use of cell broadcasting.
- 2. Meet with providers and GoM to determine prerequisites for the use of cell broadcasting in a public warning system (i.e. modifications to existing system, Dhivehi/English, alarm, etc.)
- 3. Determine a process to achieve prerequisites within a predetermined timeframe for initiating cell broadcasting.
- 4. Assess alternative uses of cell broadcasting within the Maldives context.

Deliverable

- A report on the pre-conditions for using mobile cell broadcasting in a public warning model in the Maldives
- The report will include ways in which cell broadcasting can be used for other issues besides public warning.

Annex 8: Media coverage: Telecom Regulatory Environment survey (2006-2008)

02/25/2008

Pakistan Ahead of Regional Countries in Telecom Regulatory Environment Pakistan Telecommunication Authority (PTA)

Print

http://www.pta.gov.pk/index2.php?option=com_content&do_pdf=1&id=955

02/08/2008

Pakistan exceeds in Telecom Regulatory Environment

PakTelecom.Net

Web

http://www.paktelecom.net/blogging/pakistan-exceeds-in-telecom-regulatory-environment/

10/08/2007

Don't waste public money on telecom infrastructure

The Daily Mirror

Print

http://www.dailymirror.lk/2007/10/08/ft/17.asp

07/01/2007

Pakistan has more conducive regulatory environment for telecommunications services than India, Sri Lanka, Philippines, and Indonesia

Asia Pacific Telecom

Web

http://goliath.ecnext.com/coms2/summary_0199-6823165_ITM

06/16/2007

Telecom regulation termed best in region

Dawn Internet Edition

Web

http://www.dawn.com/2007/06/16/nat19.htm

06/15/2007

Mobile telecommunication: Pakistan now offers better regulatory environment

Daily Business Recorder

Print

http://www.brecorder.com/index.php?id=577736&currPageNo=1&query=&search=&term=&supDate=

06/15/2007

Pakistan holds better environment for mobile telecommunication

AAJ News

Web

http://news.aaj.tv/news.php?pg=2&show=detail&nid=69576

06/15/2007

Pakistan exceeds in Telecom Regulatory Environment

The PakTribune

Web

http://www.paktribune.com/news/index.shtml?181154

06/15/2007

Pakistan has better telecom regulatory environment

Daily Times

Print

http://www.dailytimes.com.pk/default.asp?page=2007%5C06%5C15%5Cstory_15-6-2007_pg5_9

06/15/2007

Pakistan ahead of regional countries

Daily Times

Print

 $\underline{\text{http://www.dailytimes.com.pk/default.asp?page=2007\%5C06\%5C15\%5Cstory_15-6-2007_pg5_19}$

06/15/2007

Mobile regulatory environment exemplary

The News

Print

http://www.news.com.pk?daily_detail.asp?id=60531

06/15/2007

Pakistan exceeds in Telecom Regulatory Environment

Pakistan Online News

Print

http://www.onlinenews.com.pk/details.php?id=113546

06/15/2007

Pak ahead of regional countries

Pakistan Observer

Print

06/04/2007

Telecom regulatory environment and its future

The Nation

Web

http://www.nation.com.pk/daily/jun-2007/4/bnews8.php

Telecom Quarterly Review

Pakistan Telecommunication Authority

March 2007

Print

http://www.itinsight.info/Pakistan_Telecom_Authority_Quarter_Report_March_2006_ Pakistan_Telecom_Magazine_IT_Insight.pdf

02/11/2007

Pak betters India

Business World

Web

http://www.businessworldindia.com/jan2207/news07.asp

02/02/2007

Telecom survey gives RP passing marks

Manila Bulletin Online

Web

http://www.mb.com.ph/issues/2007/02/02/INFO2007020286095.html

01/21/2007

Keep politics, telecom regulations separate, RP told

Inquirer.net

Web

http://technology.inquirer.net/infotech/infotech/view_article.php?article_id=44710

01/16/2007

RP has sound telecoms environment - study

Inquirer.net

Web

http://technology.inquirer.net/infotech/infotech/view article.php?article id=43739

12/21/2006

Pak beats India in telecoms regulation

The Nation

Web

http://www.nation.com.pk/daily/dec-2006/21/bnews3.php

12/21/2006

Pakistan beats India in telecoms regulations

Wireless Federation

Blog

http://wirelessfederation.com/news/pakistan-beats-india-in-telecoms-regulation/

12/20/2006

Pakistan beats India in Telecom Regulation

The Hindustan Times

Print

http://www.hindustantimes.com/news/181_1874656,0002.htm

10/23/2006

The way to go

The Hindu Business Line

Print

http://www.thehindubusinessline.com/ew/2006/10/23/stories/2006102300100200.htm

3/23/2006

Interview with Rohan Samarajiva along side Rajendra Singh (TRAI) on TRE study Channel One (MTV): Biz 1st

TV

Daily the post, Islamabad Print

National Herald Tribune: The Harbinger of Change

Print

Local language coverage in Pakistan, June 2007:

Daily Ausaf Islamabad

Daily DIN Rawalpindi

Daily AlAkhbar

Daily JINNAH (Islamabad, Rawalpindi)

Daily MASHRIQ (Peshawar)

www.dailyasas.com.pk

Daily Express

Daily KHABRAIN

The Daily Jang (Rawalpindi)

Daily Nation, Islamabad

LIRNE asia's practice on research → policy

Rohan Samarajiva

- 1.0 The research that LIRNE asia does will never get a Nobel Prize. We work on applied research topics that are theoretically informed, but involve for the most part close engagement with what is actually happening on the ground in some country, preferably one that is in Emerging Asia. This allows not only a focus on policy and regulation as actually practised (a signature of our work), but also more effective communication to policy-makers using analogies.
 - 1.1 However, this does not mean that we do not generate **new knowledge**. Aggressive interrogation of applied research allows us to abstract certain concepts and methods that are of general applicability. Examples are the Telecom Regulatory Environment (TRE) assessment instrument extracted from the work on regulation and investment and "banded forbearance" regulatory tool being worked up based on the indicators work.
- 2.0 **Selection of research topics** is decided on the basis of an intuitive understanding of the research likely to be in demand a few months or years in the future. The understanding is derived from close interactions with the consumers of research and vigorous debate among researchers who interact with the users of our research. Can this be made more systematic? We have not figured it out yet.
- 3.0 Our focus on policy and regulation as actually practised necessitates a reliance on "in-situ" expertise. This is interpreted at a regional rather than national level, allowing for example, an Indian researcher to take on work in Indonesia. To our surprise, the Indian researcher's work in Indonesia had the most impact on the policy process among all the initiatives of LIRNE asia. If an independent and credible researcher from the country itself is available, it is of course, better, because he/she is usually in a better position to intervene when policy windows open up. In our experience, policy makers have never rejected our research because it was done/presented by a foreigner. The fact that we try very hard to

- make our work speak to more than one country's experience and problems may contribute to this.
- 4.0 LIRNE asia's mode of research has an "open source" quality, wherein early drafts are made available on the website or otherwise and comments are criticisms incorporated into subsequent drafts. In some cases, the recommendations embodied in early drafts that have been made available to key decision makers have found their way into official recommendations and reports, resulting in the research having an impact even before it is finalized. This was the case with our recommendation on changes to the Indian universal service policy implementation.
 - 4.1 The **Expert Forum** idea developed within LIRNE.NET was adapted to good effect by LIRNE*asia*. Here, key decision makers are invited to a short (1.5 days) meeting in a central location; the research is presented to them in easy-to-absorb form; plenty of time is built into the program for the participants to give comments. The challenge is to ensure attendance by the right mix of stakeholder representatives. The only way this can be done is through the maintenance of good relations over time with the relevant stakeholders, supplemented by leveraging the authority and relationships of a good partner. In one case, we had the Telecom Regulatory Authority of India issuing invitations and in the other, the Institute of South East Asian Studies (ISEAS) of Singapore.
- 5.0 LIRNE asia sees policy makers as functioning within a "symbolic universe" constituted by the media. It considers gaining media coverage for its work as an essential complement to the direct communication of the research findings to the relevant audiences. In the most difficult media market of India, it has been found necessary to retain the services of a communications consultancy firm to obtain the desired kinds of media, for the most part financial press, mostly print.
 - 5.1 The considerable attention given to attracting media coverage has a long-term payoff in terms of **building the LIRNE** *asia* **brand**. It is necessary to do this in order to cut through the clutter and reach key decision makers, not all of whom may be familiar with LIRNE *asia*, especially given its location in a small country and its relatively young age.
- 6.0 LIRNE asia strives to break from the project mindset and be **opportunistic in its policy interventions**. We understand that demand from policy makers does not

fit into specific funding cycles that we may be subject to. Understanding that policy windows open and close depending on factors we do not control, we grab available opportunities. For example, the fact that we did not have funded research on access to submarine cables did not stop us from intervening in Bangladesh. The fact that the work on least-cost subsidies for extending networks to rural areas had been completed in a previous project cycle did not prevent us from intervening when the Sri Lanka government began to test the waters in 2007. The flexibility afforded by IDRC's approval of a rapid response program as part of its funding has made these kinds of interventions possible.

- 6.1 The opportunism also extends to **mid-course corrections** in research plans (e.g., despite the original research on indicators not including work on broadband quality of service, we started work on it in late 2007 based on understanding the increased salience of the project) and not waiting for perfect results before intervening.
- 7.0 **CPR***south* is an important, but not short-term, component of the overall strategy. Here, the objective is identifying and fostering policy intellectuals in a larger number of countries than LIRNE asia works in, and across a larger range of topics than LIRNE asia addresses. It is not the explicit purpose of CPR south to have its members (defined as all those who participate in its activities by giving papers, attending tutorials as young scholars or serving on the Board) impact the policy processes in their countries immediately. The intention is to identify existing or prospective policy intellectuals, embed them in support and mentoring networks, improve their communication and other policy-intervention skills, and create the necessary profiles so that they become credible and effective policy intellectuals. Systematic follow-up actions such as survey that check on their policy-related activities will also reinforce the policy orientation. We also try to involve persons identified through CPR south in other LIRNE asia activities. LIRNE asia is an organization with strict entry and exit conditions; its members are subject to normal organizational disciplines. In contrast, CPR south is a network with much looser structures.

Annex 10: Outcome mapping / Evaluation Plan

LIRNE asia is a policy and regulation research, capacity-building and advocacy organization, not an implementation organization. In the final analysis, it is engaged in changing mindsets.⁵ In the less-than-final analysis, it is about changing laws, policies, and regulation. Its primary stock in trade is ideas. Its audiences are, in ranked order, government policy makers, regulators, the managers of service providers, and opinion leaders, including, but not limited to civil society. Where civil-society organizations have assumed quasi-government roles (as with Sarvodaya in Sri Lanka), such organizations would also constitute a prime audience for LIRNEasia.

A policy and regulation research organization cannot be evaluated in the same way that an implementing organization would be. Our outputs are research reports, meetings at which these results are disseminated, media coverage, academic publications, etc. Our outcomes are changes in law, policy, and regulation and changes in products and services offered by companies (and, of course, mindsets). It is not possible to hold us accountable for the subsequent layer of actions following changes in laws, policies and regulation and changed products and services. At that level, multiple factors come into play, which are not within our control in any way.

A few of LIRNE asia's projects or sub-projects look different, on first glance, from policy and regulation research of the type described above. For example, the Last-mile HazInfo project has the look and feel of an implementation project. Yet, it is not. It was a pilot project and a field trial. The last year of the project involved the extraction of generalizable research findings and their dissemination to the relevant policy audiences (supplemented of course by the usual efforts to change the symbolic environment through media work). It is possible that the 32 villages that were included in the Lastmile HazInfo project are today better prepared to face a tsunami than they were before. But that was not the outcome we sought, but a beneficial side effect. The outcome is improvement of overall disaster risk-reduction practices in a way that would benefit not only the 30,000 villages in Sri Lanka, but the many thousands of villages in the entire region and beyond.

Weiss, C.H. (1983). Ideology, interests, and information: The basis of policy positions. In Ethics. The social sciences and policy analysis, eds. D. Callahan and B. Jennings. New York: Plenum: 213-45.

Even with regard to our outcomes, we do not see ourselves actually creating the outcomes, but instead playing a catalytic role. In most cases, there are no direct cause and effect links between research interventions and policy change. Influencing regulatory and policy processes through research is more challenging than simply doing research, but as documented in our proposal, it is doable. From our first year itself we were proactive in our research program in identifying desirable policy outcomes in our studies and then actively disseminating the research findings through media and in our meetings with policy makers. We also made it a point to monitor media coverage and track policy changes if any in our area of activity.

Therefore, the "like to see" column in outcome mapping is defined in terms of awareness and the "love to see" column in terms of statutory, policy or regulatory actions or product or service changes resulting from awareness. We do not go beyond this level to actually claim responsibility for the consequent actions that result in people actually benefiting or not from the changes we catalyzed.

The very composition of LIRNE asia as well as its track record shows that it is an organization that takes gender equity seriously. Therefore, the absence of repeated references to men and women in the outcome mapping presented below should not be misinterpreted as a lack of concern about gender equity. The point is that it is not possible to break down actual benefits to men and women from policies and regulations. We can endeavor to ensure that, for example, Pakistan's rural subsidy policies take into account our research findings that Pakistani women's use of common-access facilities is dramatically lower than men's. If the policies address this concern satisfactorily, we achieve our desired outcome. Whether women actually walk in through the door of the resulting common-use facility is not something we have any influence on.

Advancing evidence-based policymaking by LIRNE asia: Outcome Map 2008-10 1. Research								
Objectives	Expected results	Results LIRNEasia would like to see	Results LIRNEasia would love to see	Indicator(s)				
Teleuse @BOP								
To continue the	A better	Policymakers,	Policies are	Please see section				

research of teleuse	understanding of	operators and	changed to	3 for general
at BOP extending	how the use of	opinion leaders are	facilitate use by	dissemination
the previous year's	ICTs is changing	aware of research	BOP; operators	indicators.
work both	at the BOP, what	findings.	created services	
horizontally (more	the demand is and		tailored to BOP.	A documentary
countries added if	how they use it		Civil society and	video
private sector	ICTs; what		donor thinking on	
funding mobilized)	barriers stand in		sustainable ICTs	
and vertically	the way of greater		changed.	
(questionnaire to	use			
include modules				
linking to Mobile				
2.0); comparison of				
the results with				
previous work.				
Mobile 2.0@BOP	1	1		,
To analyze the	A better general	Policymakers,	Policies are	Please see section
different modes of	understanding of	operators and	changed to	3 for general
mobile use at the	BOP use of non-	opinion leaders are	facilitate use of	dissemination
Asia Pacific BOP	voice mobile	aware of research	more-than-voice	indicators.
for more-than-voice	services, demand,	findings.	mobile services at	
purposes (including	specific strategies		BOP; operators	Individual reports
payments, agri	and any		create	and a summative
applications, e-gov	differences of use		products/services	report on Mobile
applications,	between men and		tailored to BOP	2.0 @ BOP
content services,	women		mobile 2.0 usage	
voting, early disaster	Specifically, a	Bank regulators	Decision makers	A photo
warning, etc) and	more accurate	aware of the	change policies	documentary that
thereby make policy	picture of	research findings	based on the	will be displayed at
proposals; see if	implications for		findings to reduce	an exhibition and
there is an	bank regulation of		barriers to making	online.
alternative to the	using mobile		mobile	
computer-centric	phones for		transactions	
narrative of how	payments/ local			
people will use ICTs	and international			
	remittances			
	Understanding the	Government	E-gov applications]
	mechanisms and	policymakers and	are tailored for	
	advantages/disadv	operators are	delivery via	
	antages of using	aware of research	mobiles to the	

mobile 2.0 to	findings.	BOP in addition	
deliver e-gov		to telecenters/	
services to BOP in		information	
addition to		kiosks;	
telecenters		government	
		agencies introduce	
		innovative e-gov	
		solutions delivered	
		via mobiles	
Understanding the	Policy makers and	Appropriate	
incentives for	stakeholders aware	policies for	
greater use of	about the research	reducing	
agricultural price	findings	transaction costs	
information; a	Ü	in value chains	
better		adopted; private	
understanding of		actors throughout	
the ability of ICTs		the value chain	
to reduce		innovate to reduce	
transaction costs		transaction costs	
in agricultural			
markets .			
Further	Policy makers and	Appropriate	
understanding of	stakeholders	policies adopted in	
the use of ICTs in	including disaster	public warning	
disaster risk	management	systems and in	
reduction through	practitioners aware	community-based	
public and	about the research	warning systems;	
community based	findings	functioning of	
early warning		existing systems	
systems.		improves	
Specifically, a	Policymakers and	Regulatory	Please see section
comprehensive	operators are	environment is	3 for general
knowledge of	aware of research	changed to	dissemination
system and	findings.	remove barriers to	indicators.
frequency licensing		realization of full	
issues, spectrum		potential of mobile	Rapid-response
reframing, mobile		2.0 model to give	interventions
number		access to BOP;	
portability, new		mindsets changed	
business models			
etc that would			

	impact the Mobile			
	2.0			
Indicators, continue	ed			
To continue the	More accurate	Regulators are	Regulators change	Country data
work on improving	picture of telecom	aware of the	behaviour based	reports on TRE.
telecom regulatory	sector and	research findings.	on the findings.	
environment by	regulatory			Media coverage
developing inter-	environment in			
country benchmarks	these countries			Journal articles and
for the regulatory	obtained through			research
environments of	TRE exercise.			publications
each - adding three				
new countries and				Research findings
quality of service as				disseminated at
a dimension; to				workshops
collect indicator	A better	Regulators aware	Regulators use	Journal articles and
data to help explain	understanding of	of research results.	research findings	research
difference in	how NRA use web		to improve their	publications
regulatory	site as an		present sites;	
performance	interactive window		NRAs without	Research findings
	with their		web sites use the	disseminated at
	stakeholders.		research findings	workshops
			as a guide to build	
			new sites.	
	Development of a	Regulators aware	Regulators modify	Journal articles and
	new regulatory	of research results.	behaviour based	research
	instrument		on the findings.	publications
	"banded			
	forbearance" with			Research findings
	potential to			disseminated at
	simplify telecom			workshops to the
	regulation aimed			focused audience
	for countries with			
	limited capacity,			
	for example micro			
	states			
	Collection and	Regulators,	Regulators and	Journal articles and
	regular publication	operators and	operators modify	research
	of broadband	telecom users	behaviour based	publications
	QOS data;	aware of research	on the findings.	
	collection and	findings; wide		Research findings

	regular publication	publicity received		disseminated at
	of price and other	by media		workshops
	indicator data for			
	broadband and			
	mobile services			
	Effective	Government	Actual data	Attendance at
	intervention in	actors aware of	collection practices	indicators events
	indicator standard	LIRNEasia	changed as a result	
	setting at regional	research and		
	and international	positions		
	meetings			
To improve mutual	Cooperation	Information	Inter-regional	A meeting
learning and	between	sharing at regional	replication of	coinciding with the
collaboration	LIRNE <i>asia</i> and	level	research	International
among the	other regional			Telecom Society
constituent entities	units of			biennial
of LIRNE.NET	LIRNE.NET for			conference and a
	mutual learning.			follow up meeting
2. Capacity Building	or P			
	Expected results	Results	Results	Indicator
		LIRNEasia	LIRNEasia	
		LIRNEasia would like to see	LIRNEasia would love to see	
To continue the	CPRSouth			
To continue the development of an	CPRSouth Asia-Pacific based			Conference in
		would like to see	would love to see	Conference in Beijing in Nov-
development of an	Asia-Pacific based	would like to see The scholarly	would love to see The indicators of	
development of an Asia-Pacific	Asia-Pacific based scholars brought	The scholarly network attracts	The indicators of connectivity within	Beijing in Nov-
development of an Asia-Pacific scholarly network	Asia-Pacific based scholars brought together as a ICT	The scholarly network attracts the attention of	The indicators of connectivity within the scholarly	Beijing in Nov-
development of an Asia-Pacific scholarly network on ICT policy and	Asia-Pacific based scholars brought together as a ICT policy and	The scholarly network attracts the attention of ICT policy and	The indicators of connectivity within the scholarly network improve	Beijing in Nov- Dec 2008
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNEasia; with	Asia-Pacific based scholars brought together as a ICT policy and regulation	The scholarly network attracts the attention of ICT policy and regulation scholars	The indicators of connectivity within the scholarly network improve significantly and	Beijing in Nov- Dec 2008 Conference in
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members'	Beijing in Nov- Dec 2008 Conference in location TBD in
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build capacity in the area	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from 15 countries, based
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build capacity in the area	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from 15 countries, based on knowledge
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build capacity in the area of telecom policy	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from 15 countries, based on knowledge mapping Maintenance and
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build capacity in the area of telecom policy	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from 15 countries, based on knowledge mapping Maintenance and improvement of
development of an Asia-Pacific scholarly network on ICT policy and regulation supported by LIRNE asia; with lessons being drawn for developing effective knowledge networks; build capacity in the area of telecom policy	Asia-Pacific based scholars brought together as a ICT policy and regulation scholarly network that has its own organizational	The scholarly network attracts the attention of ICT policy and regulation scholars throughout the	The indicators of connectivity within the scholarly network improve significantly and members' institutions	Beijing in Nov- Dec 2008 Conference in location TBD in 2009 Participation of researchers from 15 countries, based on knowledge mapping Maintenance and

Have substantial	A keen interest	Universities and	Tutorials offered
representation of	shown by young	regional entities	for young scholars
young scholars	scholars to attend	commit resources	
(Asia-Pacific based	tutorials shown by	to support	Increased number
or with Asia-	increasing demand	LIRNEasia's	of local and
Pacific interests)	_	programs for	international
for the tutorials		young scholars	scholarships
		,	
Internships			
Internships	Interns are trained	Greater demand	Number of
offered at	to have expert	for internships met	internships offered
LIRNEasia	knowledge in	by greater	with mentorship
	telecom policy	participation by	
	research within the	new centers	
	internship period		
NRA/NSO capaci	ty building		
Capacity building	Workshop attracts	Participants use	Indicators
workshops for	significant	the knowledge to	workshop in 2008
National	participation both	improve the	
Regulatory	from NRAs and	collection of ICT	Training
Agencies (NRAs)	NSOs	indicators	workshops
and National			
Statistical Offices			
(NSOs) on ICT			
indicators offered			
Scholarships for tra	aining course		
Training course on	Good demand	Scholarship	10 scholarships
Telecom	from interesting	holders add value	
Regulation with	applicants for	to course; generate	
broad participation	scholarships;	enthusiasm from	
offered for the	improved mix of	donors to give	
staff of National	participants at	more scholarships	
Regulatory	course	•	
Agencies (NRAs)			
and key operators			
in the region;			
opportunities are			
provided for those			
who cannot			
finance themselves			

3. Advocacy and diss	semination			
	Expected results	Results	Results	Indicator
		LIRNEasia	LIRNEasia	
		would like to see	would love to see	
To disseminate the	Research findings	Awareness of	Demonstrable	Journal articles and
output of above	disseminated to	LIRNEasia's	effects on policy	research
activities in multiple	the multi	research by policy	and regulatory	publications
ways to different	stakeholders using	makers, regulators,	changes from	
audiences capable	multiple tools	operators, civil	LIRNEasia	Rapid response
of influencing		society,	research	interventions
reform, including		researchers and		
carefully targeted		public		Conferences and
rapid-response				workshops:
interventions, and				Participation in 15
new media presence				such events (other
				than those
				organized by
				LIRNEasia)
				Number of
				researchers trained
				to communicate in
				ways that will be
				effective with
				media
				Fifth anniversary
				international
				conference
				Media interactions:
				multi clusters of
				media interaction
				activities
				Video: A video
				depicting research
				findings of
				T@BOP, will be
				distributed to
				media,

		stakeholders and
		also available in
		the net at
		YouTube
		Strategically placed
		newspaper articles
		and news stories/
		news stories /
		appearances in
		electronic media
		Maintenance of a
		widely read and
		frequently updated
		LIRNE <i>asia</i> blog
		site; online
		versions of all the
		deliverables will be
		made available
		through the web
		site
		Active engagement
		of getting our
		research findings
		into Wikipedia and
		comments in
		active and relevant
		blogs.
		-

Erwin Gaspar A. Alampay, Ph.D.: Research Fellow, LIRNE asia

Erwin is an Associate Professor at the National College of Public Administration and Governance (NCPAG) in the University of the Philippines (UP). He completed his PhD on development policy and management at the School of Economics and Development (SED) at the University of Manchester, United Kingdom. He also has a degree in Master of Public Administration (MPA) from UP and a Master of Arts in Development Studies from the Institute of Social Studies in the Hague, The Netherlands.

Lara Alawattegama: Researcher, LIRNE asia

Lara is responsible for the compilation of LIRNE asia's Broadband Benchmark report under the guidance of Rohan Samarajiva (Ph.D.) and Helani Galpaya; the report is published twice a year and attempts to capture the changes in the prices and the quality of service of broadband and leased line services. She is also involved in research on Korea and the Information Society and the way in which it can be replicated in the South Asian region. Lara has also worked on compiling the Telecom Regulatory Environment (TRE) manual, for use as a benchmark in undertaking future TRE studies. Before joining LIRNE asia, Lara was attached to a United Nations Development Project dealing with poverty alleviation where she worked as an intern; she also completed internship programs with Outokumpu, Australia. Lara holds a Bachelor's degree from the University of Sydney, with majors in Government and International relations and International Business and a minor in Political Economy.

Sanchala Arangalage: Manager, Operations, LIRNE asia

Sanchala is responsible for all administrative functions at LIRNEasia. She started her career in 2003 as a secretary at the Public Interest Program Unit (Ministry for Economic Reform, Science and Technology, Sri Lank) and joined the Public Utilities Commission of Sri Lanka in 2006. While handling administrative functions in the office she assisted the head of the office in other operations. Organizing meetings with ministerial officials – local and foreign, government and non government – coordinating and organizing seminars as well as public lectures were the core duties that she carried out. Sanchala was selected to the Sri Lanka Law College in 2006 and is now completing the final year of her Attorney-at-Law degree. She completed the International Professional Secretaries

Diploma at Singapore Informatics in 2006. She also has professional qualifications in graphic design, and is conversant in design packages Corel Draw, PhotoShop, Illustrator, and Flash.

Subhash Bhatnagar, Ph.D.

Subhash Bhatnagar is a Professor at the Indian Institute of Management, Ahmedabad (IIMA), India. Previously he has spent two full years and four half years at the World Bank in Washington DC (October 2000 to June 2006) to mainstream e-Government into activities of the World Bank. He represented the Bank in various conferences, conducted training programs for the Bank staff, advised client countries on eGovernment strategies and supervised the creation of a new web site on eGovernment. Professor Bhatnagar's academic research, teaching and consulting work has covered National IT Policy, Corporate IT strategy, IT for development, E-Government and E-Commerce. He was previously a member of the 'Computer Science Board' set up by All India Council for Technical Education as well as a committee set up by planning commission to look into manpower needs of the Indian software industry. He was also on the Advisory Committee of the Andhra Pradesh IT Initiative. He is currently a member of the National Advisory Council on eGovernment.

Harsha de Silva, Ph.D.: Lead Economist, LIRNE asia

Harsha is a development economist focusing on infrastructure policy, particularly ICT policy in the emerging Asia Pacific. Besides policy, Harsha has been involved in designing and developing some of Sri Lanka's unique ICT for development projects in the recent past. He co-founded and built what is today Sri Lanka's largest market and media research agency, AC Nielsen Lanka, and also has served at a senior management position at DFCC Bank. As LIRNE asia's Lead Economist, he is involved in Measuring ICT indicators and regulatory performance as well as the Teleuse BOP study. He was also involved in two of LIRNE asia's projects in 2005, one which assessed India's universal service tools, and the other that evaluated the success of least cost subsidy auctions to extend rural connectivity in Nepal. He teaches economics of infrastructure at the University of Moratuwa, Sri Lanka and consults with the ADB and USAID on economics of rural infrastructure. Harsha hosts a popular weekly television show on

economics and business in Sri Lanka. He holds a Ph.D. in Economics from the University of Missouri, Columbia.

Sajeevani de Silva: Project Assistant, 3R, LIRNE asia

Sajee is a Project Assistant for the 3R initiative at LIRNE asia. At present, she works with the Gampaha Municipal Council in Sri Lanka, and other committed individuals and organizations in the area, to build a network of stakeholders who are able to inform and educate the public, and to implement the '3R' principle throughout that. Her research interest is in environmental science. She holds a Bachelors degree in Agriculture from the University of Ruhuna, Sri Lanka. She is currently following a marketing course from the Chartered Institute of Marketing (CIM), UK.

Helani Galpaya: Director of Strategic Development, LIRNE asia

Helani leads a regional collaboration with the National Regulatory Agencies (NRAs), National Statistical Organizations (NSOs) and operators in the SAARC and ASEAN regions to develop, collect and report comparable ICT and Telecom sector indicators. She also works with Harsha de Silva (Ph.D.) in studying the potential ICTs have for reducing transaction costs in agricultural markets and with Rohan Samarajiva (Ph.D.) on how research influences the policy process. Before joining LIRNE asia, Helani worked at ICTA, the apex ICT policy-making body in Sri Lanka. Prior to that, in the US, she worked in the field of strategy consulting and financial services. She has an M.Sc. in Technology and Policy from the Massachusetts Institute of Technology.

Sujata Gamage, Ph.D.: Director of Knowledge Networks, LIRNE asia

Sujata is a specialist on assessing, planning and building knowledge capacity. After a career as a university teacher and researcher in chemistry she moved to capacity building while serving as the administrator for the research support programs at the Board of Regents in Ohio. Since being responsible for managings a grant program of USD10 million per year to develop research capacity in universities in the state of Ohio, USA, she has taken on several assignments and consultancies on assessing and building knowledge capacity in both developed and developing countries. She has served as the Director General of Tertiary and Vocational Education Commission of Sri Lanka and revitalized the implementation of an ADB funded project to implement a national vocational qualification framework for Sri Lanka; as the Analytic Director of a team of

QRC Macro consultants responsible for conducting and reporting on science resource surveys of the US National Science Foundation; and as a strategic planning specialist at the Ohio State University, USA, developing an academic quality scorecard for the University. She is currently involved in research on assessing and building capacity for telecom reform in Asia for LIRNE asia, best practices in North-South research collaborations for the National Science Foundation of USA and initiatives in tertiary education at the Education Forum of the Pathfinder Foundation of Sri Lanka. She also heads the 3R Initiative at LIRNE asia.

Samangi Hewage: Project Manager, 3R, LIRNE asia

Samangi works with the Gampaha Municipal Council in Sri Lanka, and other committed individuals and organizations in the area, to build a network of stakeholders who are able to inform and educate the public, and to implement 3R through that network. She holds a Bachelors degree in Forestry and Environmental Science from University of Sri Jayewardenepura. She is also reading for her Ph.D. in Botany at the University of Sri Jayewardenepura. Previously she worked as a Research Assistant at the University of Sri Jayewardenepura which for nearly three years.

Tahani Iqbal: Researcher, LIRNE asia

Tahani began her work at LIRNE asia as a researcher on the 2005 Teleuse @BOP study, focusing on gender patterns. She currently manages CPR south, LIRNE asia's capacity and field-building program to develop an Asia Pacific knowledge network on ICT policy regulation, and is also involved in developing price and affordability indicators for the ICT sector. She commenced her professional career in April 2002 when she worked as Administrative Assistant at the National Agribusiness Council. She subsequently served as Assistant to the Department of Economic Affairs at the Secretariat for Coordinating the Peace Process. Tahani holds a Bachelors degree in Economics and Management from the London School of Economics (External).

Nilusha Kapugama: Researcher, LIRNE asia

Nilusha currently assists Chanuka Wattegama on LIRNE asia's Virtual Organization project and the Broadband Quality of Service in India and Sri Lanka. She is also involved in the capacity-building initiative, CPR south, where she assists Sujata Gamage (Ph.D.) on outcome mapping exercises and assists in organizing the annual conference. She has

previously worked as project intern at the Institute of Policy Studies, Sri Lanka, on projects relating to the telecom industry. She has also worked as an intern at the Standard Chartered Bank, Sri Lanka, as well as a Teacher in Economics (A/L) at the Colombo International School. Nilusha has obtained her Masters in Development Economics and Policy from the University of Manchester in September 2007.

Miraj Khaled: Graduate Student, Simon Fraser University (Canada)

Miraj's research interests include the regulatory environments in Bangladesh and Canada with a focus on mobile communication and broadband wireless technologies. He is also interested in the implications of mobile devices on the socio-economic and technological developments of developing countries. Miraj will be coordinating LIRNE asia's TRE study for Bangladesh commencing in April 2008. His prior work experiences include a spell as Research Assistant on the Knowledge Transfer Pilot Project at Simon Frasier University in Canada, ICT Expert at the Dhaka Transport Coordination Board, and Executive Officer at the ICT Business Promotion Council in Dhaka, Bangladesh. Miraj holds a Master of Social Sciences in International Relations from the University of Dhaka, Bangladesh, and is currently reading for a Masters of Science degree in Information Technology at Simon Frasier University.

Malathy Knight: Research Fellow and Head of Industry, Public Enterprise Reform and Regulatory Policy Research at the Institute of Policy Studies (Sri Lanka); Research Fellow, LIRNE asia

Malathy has written extensively in the areas of public enterprise reform and regulatory policy, both locally and internationally, and has also contributed directly to national economic policy by producing policy briefs and serving on various committees appointed by the government. She was the lead researcher on the Sri Lanka study which attempted to measure ICT sector and regulatory performance at LIRNE asia. She also led a study which investigated the replicability of Grameen Phone's micro-finance approach to extending rural connectivity in Bangladesh and co-authored a concept paper which set out the institutional requirements for an effective disaster warning system for Sri Lanka, in the aftermath of the Indian Ocean Tsunami of 2004. She is currently reading for a Ph.D. at the Institute of Development Policy and Management (IDPM), University of Manchester, focusing on the political economy of telecommunications reform and regulation in Sri Lanka.

Priyadarshani Liyanage: Assistant Accountant, LIRNE asia

Priyadarshani assists Prashanthi Weragoda with all finance-related functions at LIRNE asia. Having started her career in 1992 at the Sri Lanka Ports Authority where she handled loans for the ports of Galle, Colombo and Trincomalee and recruitment, she moved to Shaffy M Jiffry & Co in 1994 as an Accounts/Audit Trainee. Here she carried out several audit assignments covering trading organizations, manufacturing units, plantations and banks, including internal audits covering three garment factories. In 1994 she joined Shell Solar Lanka Ltd as an Assistant Accountant in charge of preparing final accounts for management information for the Mother Company, Shell Solar Energy BV Netherlands, checking payroll and bank remittances for employees and agents, preparing taxation reports, annual reports and audits. Priyadarshani is a Member of the Association of Accounting Technicians of Sri Lanka (AAT), and has completed the Licentiate Level and Professional Level (Part I) at the Institute of Chartered Accountants of Sri Lanka. She has also completed a Higher National Diploma in Accountancy from the Sri Lanka Technical College (Ministry of Higher Education).

Sriganesh Lokanathan: Senior Researcher, LIRNE asia

Sriganesh is currently working on developing online resources to improve collaboration between NRAs, NSOs, operators, civil society groups & researchers in the collection and dissemination of standardized ICT indicators in the Asian region. He is also researching organizational models to actively engage participation and promote ownership amongst the target beneficiaries of this exercise. Previously, he was one of the initiators of the current supply-side indicators research work being carried out by LIRNE asia. He has also worked with Harsha de Silva (Ph.D.) on the Govi Gnana Seva (Farmer Knowledge Service) project, which aims to reduce information asymmetries in the agricultural sector in Sri Lanka. He previously worked as a software architect at Affno, a Sri Lankan software firm. He has also worked as a researcher at the Department of Electrical Engineering and Computer Science at MIT, MIT's Laboratory for Financial Engineering and MIT's Media Lab on various technology projects. He is currently reading for a masters degree in public policy at the National University of Singapore. He holds a Bachelors degree in Computer Science, from the Massachusetts Institute of Technology, and is currently reading for a Masters degree in Public Policy at the National University of Singapore.

Payal Malik: Senior Research Fellow, LIRNE asia & Senior Lecturer, University of Delhi (India)

Payal is a Reader in Economics at Delhi University. Her research and consulting interests have focused on the infrastructure sector, where she has undertaken extensive policy based research on the issues of market structure and regulatory design for sectors like power, telecommunication and water. She has been a consultant at the National Council of Applied Economic Research (NCAER), New Delhi since 1997. Payal has also been a Senior Researcher at LIRNE asia since 2004, where she has led a study on India which attempted to measure ICT sector and regulatory as well as a study which assessed the effectiveness of India's universal service tools. She has written extensively on the economic problems of network industries both in popular press and professional journals. She has presented her research on ICT and Infrastructure regulation and policy at various domestic and international forums. She received her Master of Philosophy, and Master of Arts in Economics from the Delhi School of Economics, University of Delhi. She also has a Master of Business Administration from the University of Cincinnati, Cincinnati, OH, USA.

M. A. Mobarak (Bangladesh)

Mr. Mobarak was formerly a senior level member of the public service of Bangladesh; he will participate in LIRNE asia's TRE study for Bangladesh commencing in April 2008.

Dimuthu Ratnadiwakara: Researcher, LIRNE asia

Dimuthu leads the statistical analysis component of LIRNE asia's five-country telecom user study Teleuse@BOP, which looks at the use of telecom services among low income earners in India, Pakistan, Philippines, Sri Lanka & Thailand. His research also includes studying the potential of ICTs to reduce transaction costs in the agricultural value chain; he also works with LIRNE asia's Lead Economist, Harsha de Silva (Ph.D.) on the Govi Gnana Seva (Farmer Knowledge Service) project, a unique ICT for development project aiming to reduce information asymmetries in the agricultural sector of Sri Lanka. Dimuthu is also a member of the team developing a decentralized database for collection of accurate ICT statistics with incentive-based participation facilities to stimulate cooperation amongst regional regulators. Among his other tasks, Dimuthu assists the Lead Economist in his activities, including analysis work, presentation, etc. He has a

B.Sc. (First Class) in Computer Science and Statistics from University of Peradeniya, Sri Lanka and is a passed finalist of CIMA (UK).

Rohan Samarajiva, Ph.D.: Executive Director, LIRNE asia

Rohan is Executive Director of LIRNE asia. He is Senior Advisor to the Networking Grassroot Movement of Sarvodaya (Sri Lanka's leading Community Based Organization) and serves on the ICT Subcommittee of the Ceylon Chamber of Commerce and on the Board of the Lanka Software Foundation. He is Board Member of Communication Policy Research south, which has organized two conferences and related programs intended to identify and foster policy intellectuals active in ICT policy and regulation. He is a visiting faculty member at the TERI University in New Delhi and serves on the editorial boards of seven academic journals and writes an online business column.

Samarajiva was Team Leader at the Ministry for Economic Reform, Science and Technology (2002-04) responsible for infrastructure reforms, including participation in the design of the e Sri Lanka Initiative. He was Director General of Telecommunications in Sri Lanka (1998-99), a founder director of the ICT Agency of Sri Lanka (2003-05), Honorary Professor at the University of Moratuwa (2003-04), Visiting Professor of Economics of Infrastructures at the Delft University of Technology (2000-03) and Associate Professor of Communication and Public Policy at the Ohio State University (1987-2000).

He was a member of the intergovernmental Joint Study Group on the India-Sri Lanka Comprehensive Economic Partnership Agreement (2003) and chaired the GATS Advisory Committee of the Department of Commerce, Sri Lanka (2002-2004). Samarajiva chaired the expert workshop on fixed-mobile interconnection for the International Telecommunication Union (ITU) in 2000 and the first Digital Opportunity Forum for the Korea Agency for Digital Opportunity and Promotion (KADO) in 2006. He moderated the Ministerial Roundtable on ICT for Development at the Asian Forum on Information and Communication Technology Policies and Strategies in Kuala Lumpur in October 2003 and was an invited panelist at the World Bank infoDev sessions held in conjunction with the World Summit on the Information Society in Tunis in November 2005.

Puree Sirasoontorn: Assistant Professor, Faculty of Economics, Thammasat University (Thailand); Research Fellow, LIRNE asia

Puree's research interests include economics of regulation, industrial organization, and energy economics. Her experiences in the policy and regulatory field have been extensive; she was part of a project studying the privatization policies under the Thaksin Administration in 2007 and has played an active role in many policy-related research projects conducted by the Thammasat University Research and Consultancy (TU-RAC) since 1997. She will be coordinating the LIRNE asia's TRE study for Thailand commencing in April 2008. Puree is also part of the referee committee of two journals: International Energy Journal, Thammasat Economic Journal, and has been the recipient of many scholarships and awards for her education and research. Her most recent awards are from the Thammasat Faculty of Economics for the Project of 'Energy Act: Implications for the Energy Sector in Thailand', and Thai Research Fund for Project of 'Electricity Price Regulation in Thailand: An application to the Enhanced Single Buyer Model' in 2007-08. Puree holds a Ph.D. in Economics from the Australian National University.

Nirmali Sivapragasam: Intern, LIRNE asia

Nirmali is primarily involved in research on Teleuse@BOP. She currently explores the development and use of cost-saving strategies, specifically, the use of missed calls at the bottom of the pyramid and its likely economic and policy implications for users, operators and policy-makers. She will also be contributing to the 'Measuring ICT Sector and Regulatory Performance' study and is in charge of LIRNE asia's Media Coverage Database. Prior to joining LIRNEasia, she worked as a Project Intern at the Institute of Policy Studies of Sri Lanka. Attached to the Industry, Public Enterprise Reform and Regulatory Policy Division, she assisted senior researchers in the development of a Concept Paper regarding the formulation of guidelines for an effective Industrial Policy for Sri Lanka. During this period, she gained experience in the collection of information via interviews and literature, analysis and evaluation of information and the preparation of summary reports. Nirmali also worked as a part-time Field Research Officer for Nielsen Lanka (Pvt.) Ltd and was involved in several quantitative and qualitative research projects during this period. In 2005, she was selected as part of a delegation to the Republic of Maldives, on behalf of the World Bank, where she conducted fieldwork operations for a global World Bank Investment Climate Assessment report on the

Maldives. Nirmali holds a Bachelor's Degree in Economics and Management with First Class Honours from the London School of Economics (External), University of London.

Thiruchenduran Somasundaram: Project Assistant, 3R, LIRNE asia

Thiru is a project assistant for the 3R initiative at LIRNE asia. At present, he works with the Gampaha Municipal Council in Sri Lanka and other committed individuals and organizations in the area, to build a network of stakeholders who are able to inform and educate the public, and to implement 3R through that network. He holds a Bachelors degree in Food Science and Technology from Sabaragamuwa, University of Sri Lanka.

Shamistra Soysa: Researcher, LIRNE asia

Shamistra Soysa is primarily involved in LIRNE asia's ICTs, Transaction Costs and Traceability in Agricultural Markets project; she is also involved in organizing the Workshop on Transaction Costs and Traceability: Potential for ICTs in the Agricultural Value Chain in Kandalama, Sri Lanka, which aims to discuss the policy level implications and business level possibilities of using ICTs to reduce transaction costs in the agricultural value chain and improve traceability. In the past, she worked on improving the TRE methodology for Measuring ICT Sector and Regulatory Performance and was part of a team that developed a manual for implementing the TRE Assessment. She has also worked with Helani Galpaya on various research papers and a book chapter on aspects of teleuse at the Bottom of the Pyramid and e-Governance and is interested in the potential use of mobile Internet in developing countries in terms of development. Before joining LIRNE asia, Shamistra was a part of the United Nations Office for the Coordination of Humanitarian Affairs. During this period, she also served as a Liaison Officer to the Ministry of Disaster Management and Human Rights and worked directly with the Ministry on United Nations responsibilities. Shamistra graduated from the University of Bristol in the United Kingdom with a B.Sc. (Honours) in Experimental Psychology in 2005.

Natasha Udu-gama: Dissemination Manager, HazInfo, LIRNE asia

In her capacity as Dissemination Manager, Natasha has organized two of three international HazInfo dissemination workshops with practitioners and experts in Bangladesh, India. The third is scheduled to be held in Indonesia in 2008. Her research interests include community-based disaster risk management and appropriate

technologies for community-based disaster risk information systems in poor urban areas and information technologies for risk communication. Her practical experience includes community-based disaster risk management at the All India Disaster Mitigation Institute, India and Sarvodaya Shramadana Movement's Community Disaster Management Centre, Sri Lanka. She has also supported disaster management projects and initiatives in Nicaragua, Bangladesh and Thailand. Natasha has an MSc in Disaster Management from the Royal Military College of Science at Cranfield University, Shrivenham, UK, and a B.A. in International Affairs and Development Studies from George Washington University, Washington, DC.

Nuwan Waidyanatha: Project Manager, HazInfo, LIRNE asia

Nuwan led LIRNEasia's disaster related project 'Evaluating Last-Mile Hazard Information Dissemination' in Sri Lanka between 2005 and 2007. He is also the Director of Spot On Solutions, which provides specialized affordable 'service type' information technology enterprise planning solutions using Free and Open Source Software, especially targeting the small and medium-sized industries in Sri Lanka. Nuwan was a founding member of the post-tsunami-work volunteer group: Community Focused Disaster Response, an ongoing project focused on giving the people in Komari, of the East-coast of Sri Lanka, a better life He also played an instrumental role in launching and developing Infocraft Limited, as the IT arm of one of the largest conglomerates, Hayleys Ltd Sri Lanka with expertise in software engineering, management and operations research. Nuwan has worked in the IT field since 2000, and has also worked as an Instructor in Operations Research at the Department of Mathematical Sciences, University of Montana, USA, and as an Analyst Programmer at the Montana World Trade Center, Montana, USA.

Chanuka Wattegama: Director of Organizational Development, LIRNE asia

Chanuka is currently in charge of creating and maintaining a virtual environment and supporting knowledge networks. He was also the lead researcher on LIRNE asia's project to Benchmark National Telecom Regulatory Authority websites of the Asia-Pacific Region in 2005. Chanuka was previously a Programme Specialist ICT4D at the United Nations Development Programme (UNDP) Asia-Pacific Development Information Programme (APDIP) out-posted to Colombo Regional Center's Millennium Development Goals (MDG) Initiative. His focus was on using ICTs for poverty

reduction in order to achieve the MDGs, and in this capacity he worked on various projects covering poverty reduction, telecom regulation, gender and ICTs, disaster management and e-Government. He has over fourteen years experience at specialist and management level in for development. As a researcher, he has co-authored the Sri Lankan chapters for the books Cyber Communities of Asia (AMIC, Singapore), Media in Asia (Sage Publishers, New Delhi), Internet in Asia (AMIC, Singapore) and Digital Review of Asia Pacific (APDIP, Orbicom and IDRC). He was also the lead researcher for Sri Lanka in a nine-country study on ICT for Human Development in Asia, by UNDP. He is a regular writer and commentator on ICT issues in the Sri Lankan media. He was the founder consultant editor of 'Pariganaka', the largest selling ICT magazine in Sri Lanka with a circulation of more than 40,000 copies. He has won the Science Writer of the Year Award, presented annually by the Sri Lanka Association for the Advancement of Science, twice.

Prashanthi Weragoda: Director of Finance & Operations, LIRNE asia

Prashanthi is in charge of finances and accounts at LIRNE asia. She introduced general financial procedures at LIRNE asia and developed an auditing system to establish the first draft accounts. She has 15 years of financial related experience in the fields of merchant banking, corporate finance and general financial management, including budgeting and performance monitoring. She was attached to two listed investment banking companies in the Colombo stock exchange and subsequently worked at Shell Renewables Lanka Limited. Prashanthi moved to Australia in 2002 where she undertook a number of assignments including monitoring subsidy funding to aged care facilities while working for the Department of Health and Ageing. She and also worked for Air Services Australia, which is responsible for all aviation support services. She holds a Bachelors degree in Commerce and is an Associate Member of Chartered Institute of Management Accountants of UK (CIMA).

Ayesha Zainudeen: Senior Researcher, LIRNE asia

Ayesha is involved in research in ICT policy and regulation in the Asian Region at LIRNE asia. Her research focus is on understanding ICT needs of as well as improving ICT access for the marginal user. She manages the multi-country studies of telecom use at the bottom of the pyramid (Teleuse@BOP 2006, 2005). She is currently co-editing a book based on the findings of the 2006 Teleuse@BOP study. She is also co-editor of

ICT Infrastructure in Emerging Asia: Policy and Regulatory Roadblocks, with Rohan Samarajiva (Ph.D.), a book which draws from Asian experiences in expanding ICT access. She has also been involved in research into the replicability of Grameen's microfinance approach to extending rural connectivity in Bangladesh, as well as research into the institutional requirements for an effective disaster warning system for Sri Lanka, in the aftermath of the Indian Ocean Tsunami of 2004. She previously worked at the Public Interest Program Unit (Ministry for Economic Reform, Sri Lanka) as a Young Professional, engaged in research assistance in infrastructural reform projects. Prior to that, she was employed at the A.C.S. Hameed Peace Foundation involved in social research. She holds a Bachelors degree in economics from the London School of Economics.