

# TELECOMMUNICATION DEVELOPMENT BUREAU

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 $7^{\rm TH}\, {\rm WORLD}\,\, {\rm TELECOMMUNICATION/ICT}\,\, {\rm INDICATORS}\,\, {\rm MEETING},\, {\rm CAIRO},\, {\rm EGYPT},\, 3\text{--}5\,\, {\rm MARCH}\,\, 2009$ 

SOURCE: LIRNEasia

TITLE: Measuring Progress: Towards Information Societies in Emerging Asia

# Measuring Progress: Towards Information Societies in Emerging Asia

Findings from a six-country study of Teleuse at the Bottom of the Pyramid

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## Teleuse@BOP background

- *Objective*: To understand how BOP interacts with ICTs (mostly phones) to better inform policy
  - Large surveys of 'BOP' conducted in 2005, 2006, 2008
  - Almost 20,000 face to face interviews in 6 countries since 2005
    - Bangladesh (2008)
    - Pakistan
    - India
    - Sri Lanka
    - Philippines
    - Thailand
- Funded by the International Development Research Center (IDRC) of Canada with contributions from Telenor Research and Innovation



# Why worry the BOP?

- Because if the access and usage problems for BOP can be solved, it can be solved for the TOP
- Because TOP is less of a challenge
  - closer to gaining Universal Access already
  - through market forces
  - less likely to need public sector subsidies/funding
- BOP is where policy challenges are



## **Samples**

	Bangladesh	Pakistan <sup>[1]</sup>	India	Sri Lanka <sup>[2]</sup>	Philippines <sup>[3</sup> ]	Thailand <sup>[4]</sup>	Total
BOP teleusers	2,050	1,814	3,152	924	800	800	9,540
Margin of error @ 95% CL (%)	<u>+</u> 3%	<u>+</u> 2%	<u>+</u> 2%	<u>+</u> 3%	<u>+</u> 4%	<u>+</u> 4%	
Diary Sample	1,025	900	1,600	450	400	400	4,775
Migrant workers	350	300	400	200	200	100	1,550

- [1] Pakistan: Excludes tribal regions
- [2] Sri Lanka: Excludes North and East
  [3] Philippines: Survey was undertaken only among SEC E
  [4] Thailand: Excludes Bangkok as the SEC DE population in Bangkok is very small



### **Methods**

#### Quantitative

- 9,950 face-to-face interviews
  - 1 week usage patterns via diary method (50% of sample)
  - Sep-Oct 2008

#### Qualitative

- Focused group discussions
- Mini-ethnographies
- Depth interviews with migrant teleusers

Among BOP teleusers

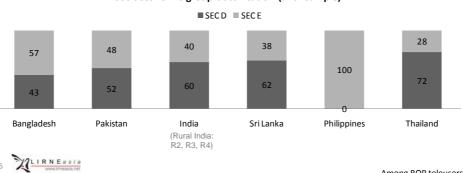
- Feb-Mar 2009
- Multi-stage stratified sampling, random selection of households and individuals
- Migrant worker teleusers at "bottom of the pyramid"
  - SEC groups C\*\* + D + E\*
  - "internal" and "external" migrants that send money home
  - Findings available in March 2009

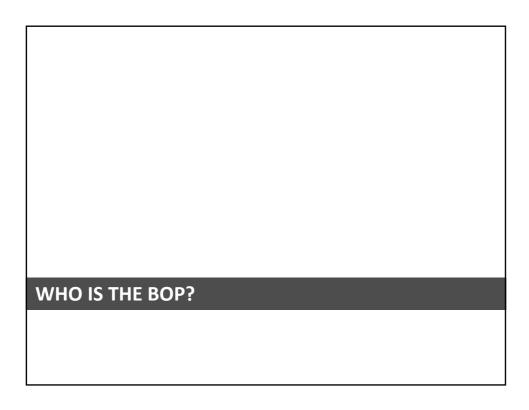


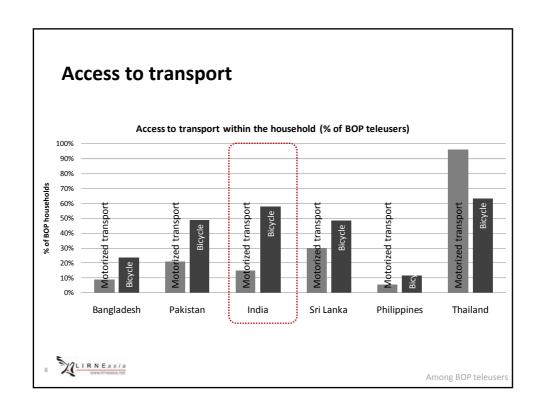
## Representing around 518 million BOP citizens aged 15-60 in the 6 countries surveyed

- Teleusers at "bottom of the pyramid"
  - SEC groups D + E
  - Aged 15-60

#### Socioeconomic group classification (% of sample)







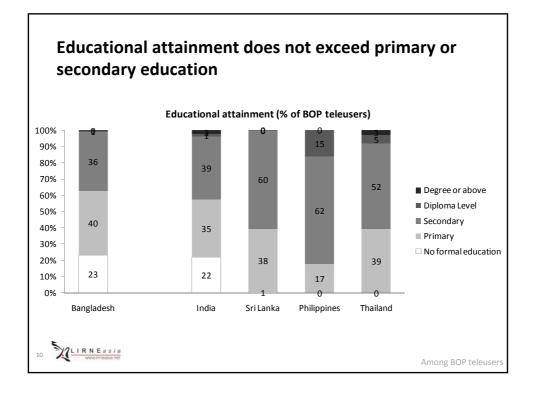
# 41% of Indian BOP teleusers' households have access to a "bank account" (broadly defined)

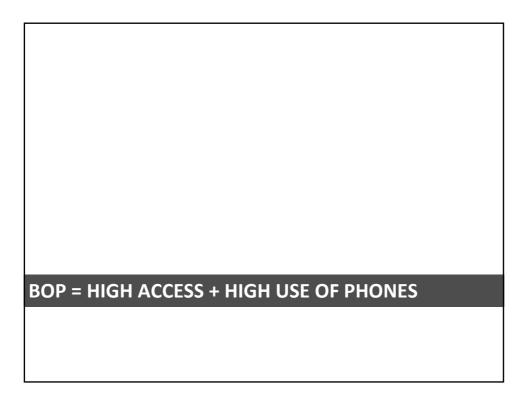
Access (either own or within household) to a bank account or credit card (% of BOP teleusers)

	Bangladesh	Pakistan	India	Sri Lanka	Philippines	Thailand
Bank account	31%	11%	41%	93%	13%	84%
Credit card	3%	2%	3%	10%	1%	11%

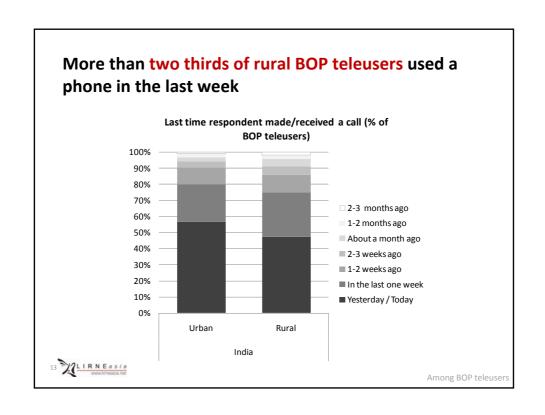
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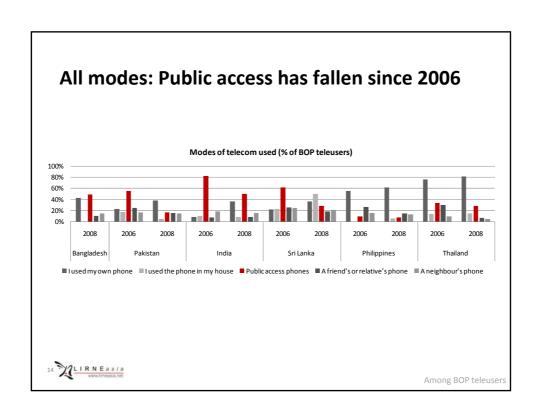
Among BOP teleusers

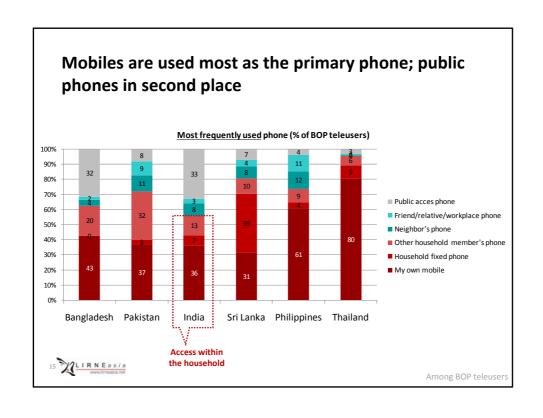


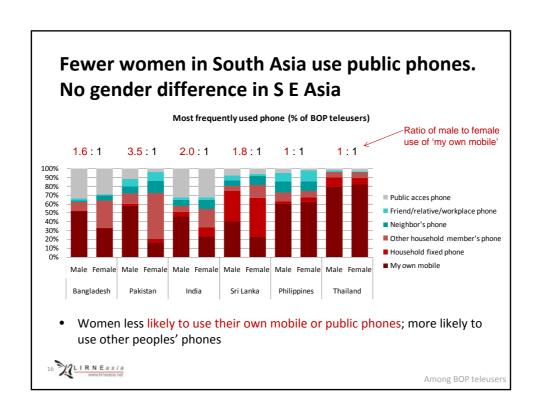


#### Recent use of the phone to make/receive calls Used a phone in the last 3 months Bangladesh Pakistan India Sri Lanka Philippines Thailand % of BOP (outer 96% 88% 77 % sample) Used a phone in the last week Bangladesh Pakistan India Sri Lanka Philippines Thailand % of BOP (outer 82% 66% 38% sample) 12 LIRNE as i a Among BOP (OUTER SAMPLE)

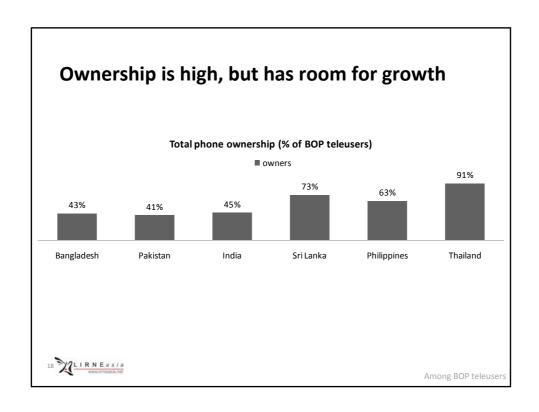


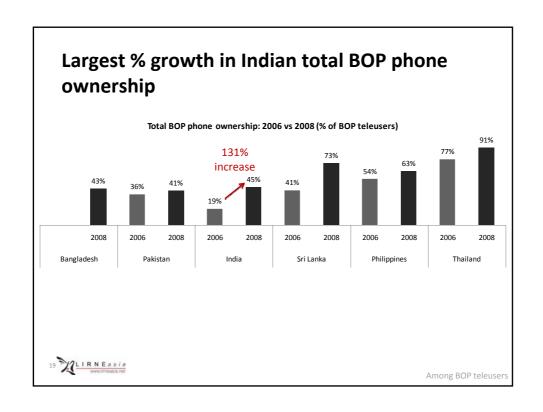


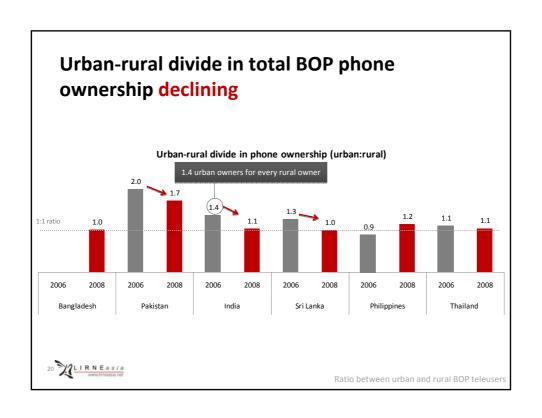


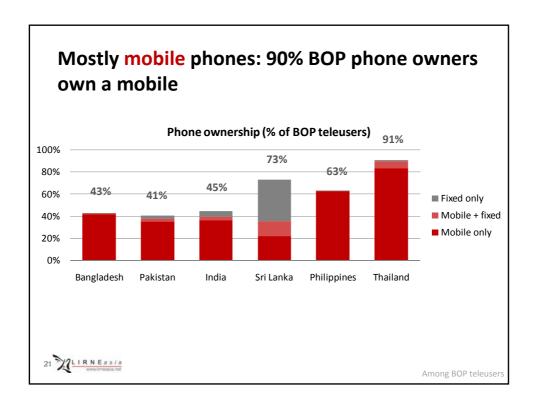


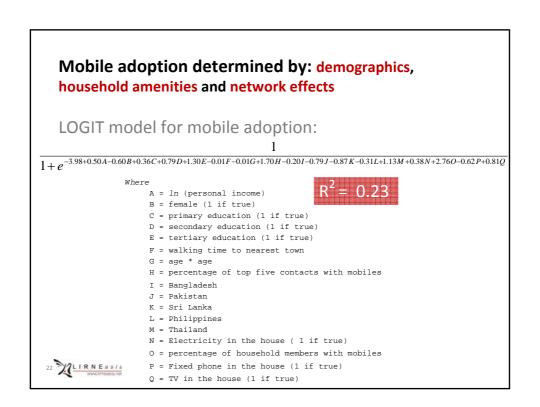












# Mobile adoption determined by demographics, household amenities and network effects

- Significant variables:
  - Demographics: Personal income, gender, education, age, proximity to nearest town
  - Household amenities: electricity, fixed phone ,TV
  - Network effects: % of contacts who already have mobiles,
     no. of household members who already have mobiles
- Insignificant variables:
  - Urban/Rural, perceptions of benefits from phone access occupation



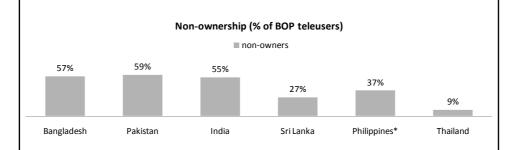
## 9% own more than one (active) SIM

	Bangladesh	Paki	stan	Ind	dia	Sri L	anka	Philip	pines	Thai	land
	2008	2006	2008	2006	2008	2006	2008	2006	2008	2006	2008
More than	n 1										
SIM	10%	12%	23%	5%	9%	9%	16%	9%	19%	1%	13%



Among BOP mobile owners





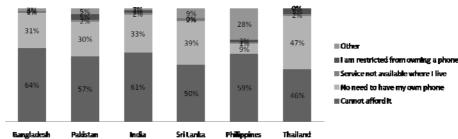
 76% of these non-owners can reach a phone in under 5 minutes



Among all BOP teleusers

# Main reasons for not owning are affordability and the lack of a need

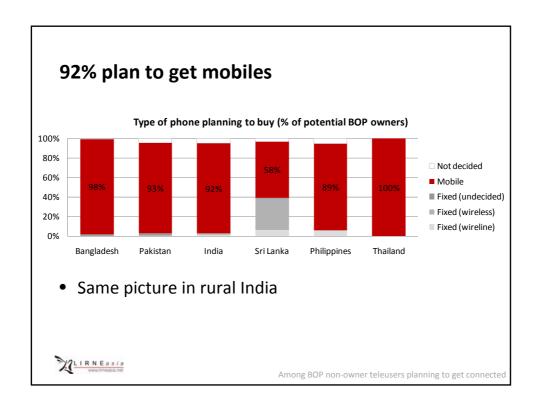
#### Primary reason for not owning a phone (% of BOP non-owner teleusers)

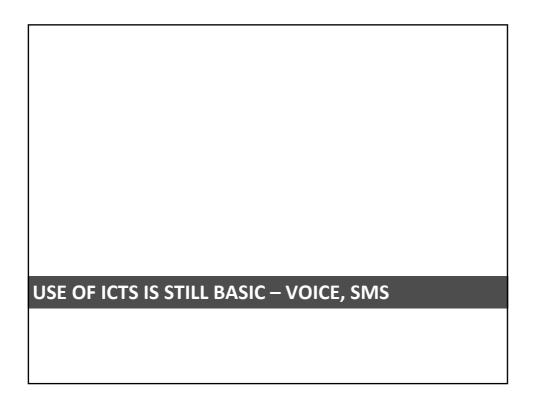


 Just 2% say that service is not available where they live

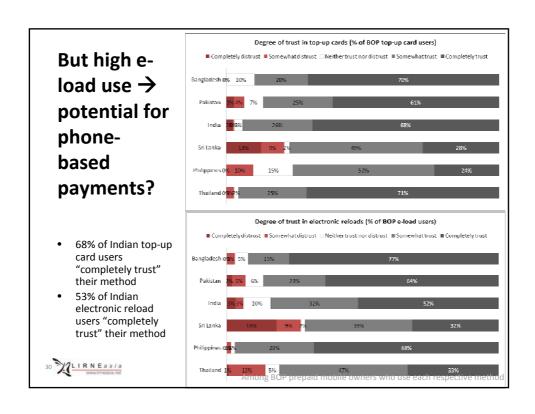


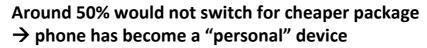
Among BOP non-owner teleusers

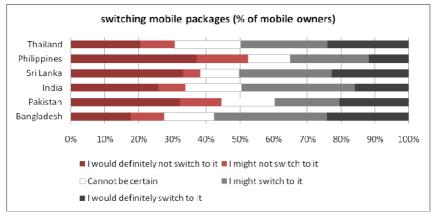




				7 (11)	7116 0 01 1110 01	le owner
	B'desh	Pakistan	India	S' Lanka	Ph'pines	T'land
			% of BOP	mobile owne	rs	
Taking phone calls	100%	100%	99%	100%	89%	100%
Receiving phone calls	100%	100%	98%	100%	99%	100%
Sending/receiving 'missed calls'	94%	84%	84%	73%	86%	39%
Sending/receiving SMS (text messages)	32%	47%	33%	52%	100%	53%
Sending/receiving MMS (picture messages)	1%	4%	4%	6%	13%	4%
Sending/receiving emails	0%	0%	1%	0%	0%	1%
Browsing the Internet	0%	1%	1%	2%	0%	2%
Taking photos /video clips	4%	2%	1%	8%	4%	18%
To play games (individual)	13%	18%	7%	21%	14%	17%
To play games (interactive)	1%	1%	1%	1%	3%	1%
To listen to the radio	0%	7%	3%	12%	5%	22%
To listen to music (files which you have downloaded or been sent by others, not radio)	4%	5%	3%	7%	3%	22%
To share content that you have created (E.g. ringtones, wallpapers, pictures, games and video clips)	1%	2%	2%	6%	5%	3%
To send or receive or download or upload other content (E.g., ringtones, wallpapers, pictures, games and video clips)	0%	2%	3%	8%	10%	9%
As an organizer (keep appointments, reminders, alarm and clock)	1%	7%		4%	9%	14%
To check my bill / credit balance	11%	40%	25%	50%	3%	39%





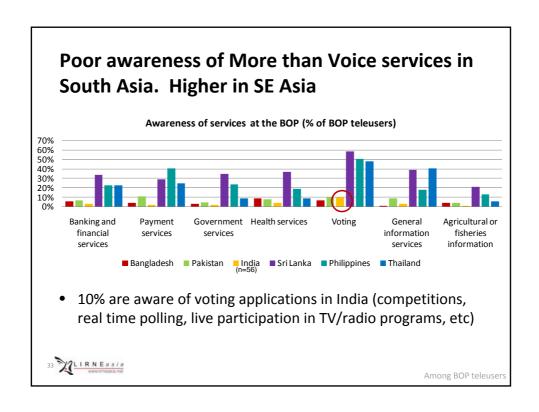


 40% of those unwilling to switch state that it is important to keep the number at present → need for mobile number portability + ability to tie in "personalized" services to phone

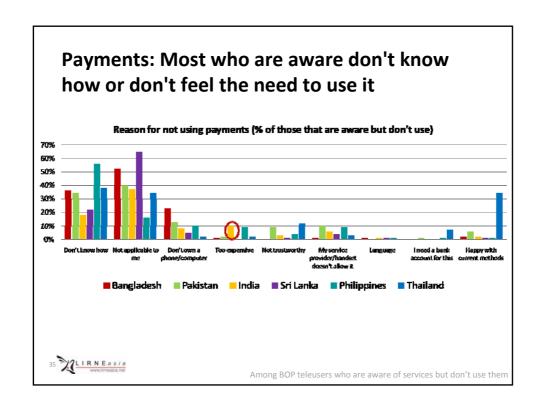
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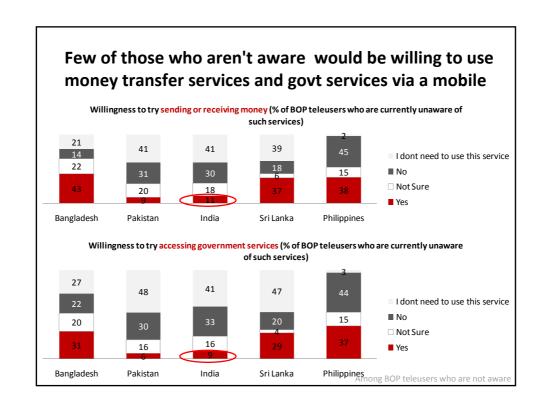
Among BOP mobile owners

# POTENTIAL FOR MORE-THAN-VOICE?



Usage is <i>even</i> poorer		
		ıdia
		rs who are aware of ervices)
	Use regularly	Use, but not regularly
Banking and financial services		1%
Payment services		
Government services		
Health services		1%
Voting	1%	1%
General information services		
Agricultural or fisheries information		
34 LIRNESSIS WWW.irregola.net	Among BOP teleuse	rs who are aware of services







## Survey asked about perceived benefits of telecom access: how has telecom access improved ...

- Your ability to:
  - make more money (generally, and via sale of talk time)
  - find out about employment/work opportunities
  - access price or market information
  - save money
  - save on travel cost
  - act in an emergency
  - contact others in an emergency
- The efficiency of your day to day work
- Your relationships with family and friends
- Your social status/ recognition in the community soft benefits

Economic benefits

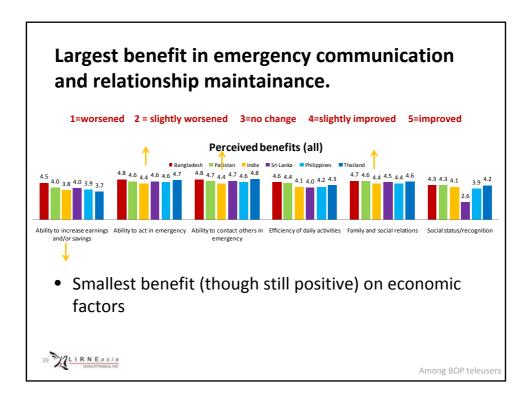
**Emergency** communication

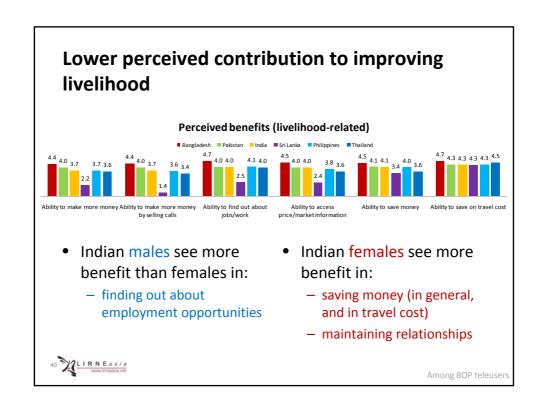
Efficiency

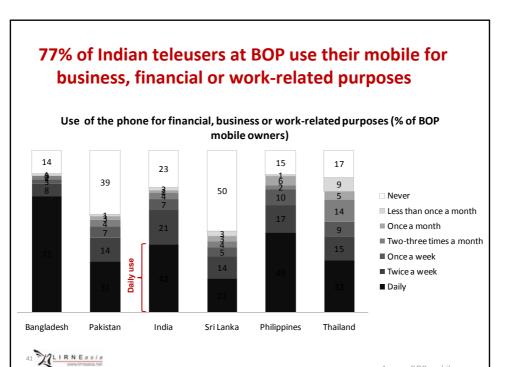
Emotional /



Five-point scale: 1=worsened → 5=improved







Among BOP mobile owners

To improve the lives of the people of the emerging Asia-Pacific by facilitating their use of ICTs and related infrastructures; by catalyzing the reform of laws, policies and regulations to enable those uses through the conduct of policy-relevant research, training and advocacy with emphasis on building in-situ expertise

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