

# Nepal's ISPs Ecosystem at a Crossroads: Challenges and Opportunities

Presenter

Suvash Khadka

CEO, ISPAN

## Internet Industry Deliverables: AAS(आइएस)

- Affordable

As per the ITU reports(Broadband Commission A4AI) and independent report- Nepal FTTH Broadband, is ranked in the list of **Top 10 cheapest Broadband, globally.**

- Accessible

ISPAN members have connected each ward offices, health posts, and secondary and higher secondary schools around the country through 14 packages of RTDF subsidized projects.

- Stable

We are working on this, with a roadmap.

# Infrastructure: BOON for NSP/ISP/TELCOs



## OPGW

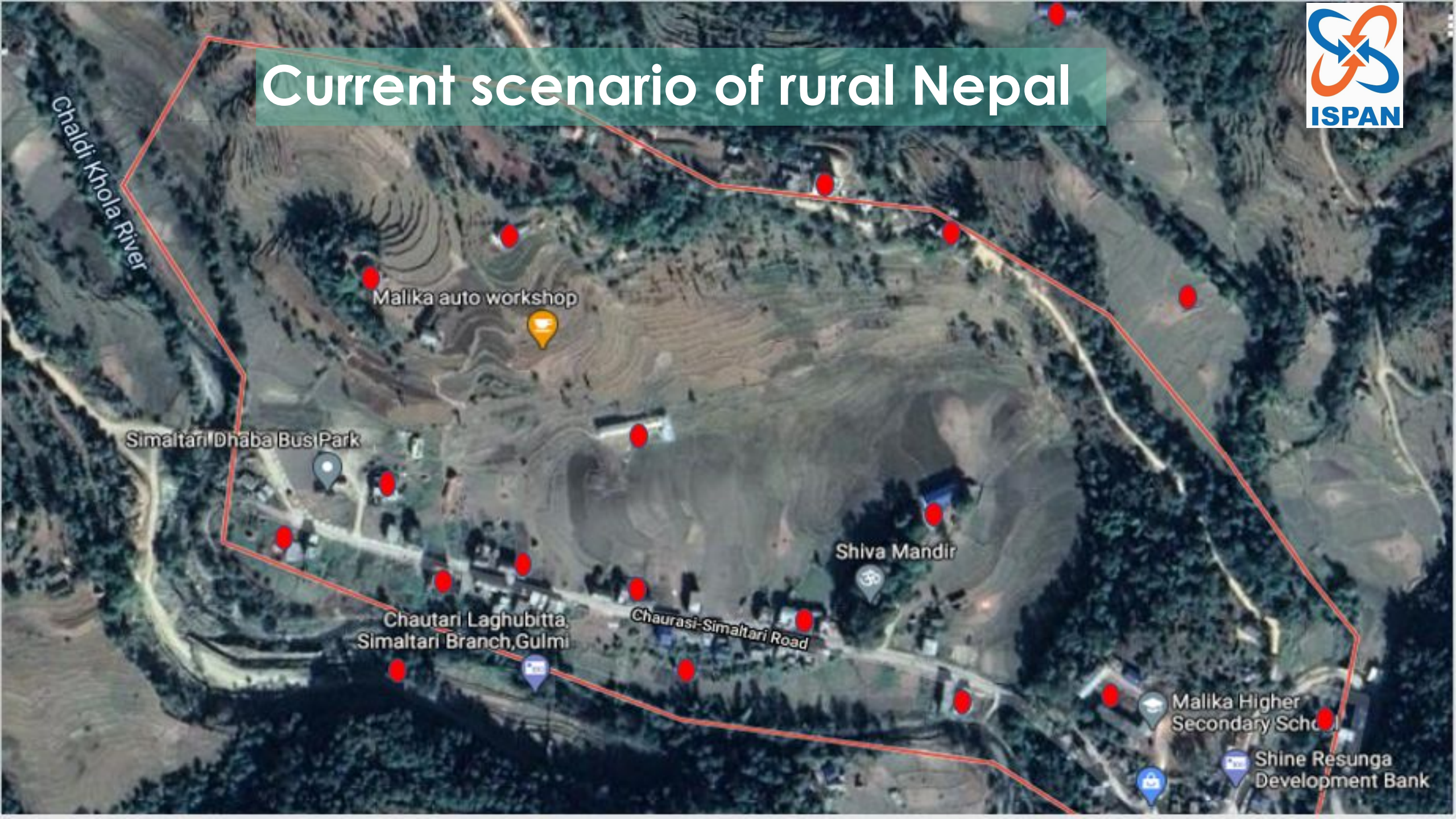


## Poles



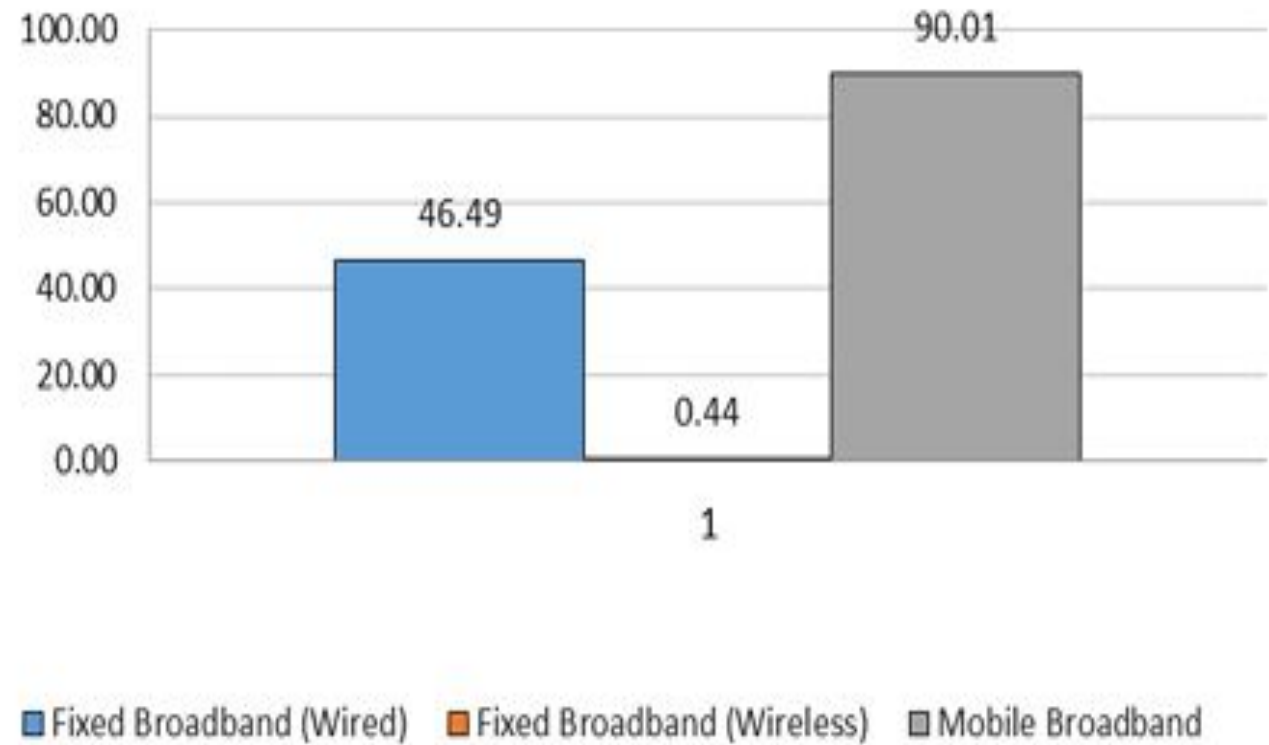


# Current scenario of rural Nepal



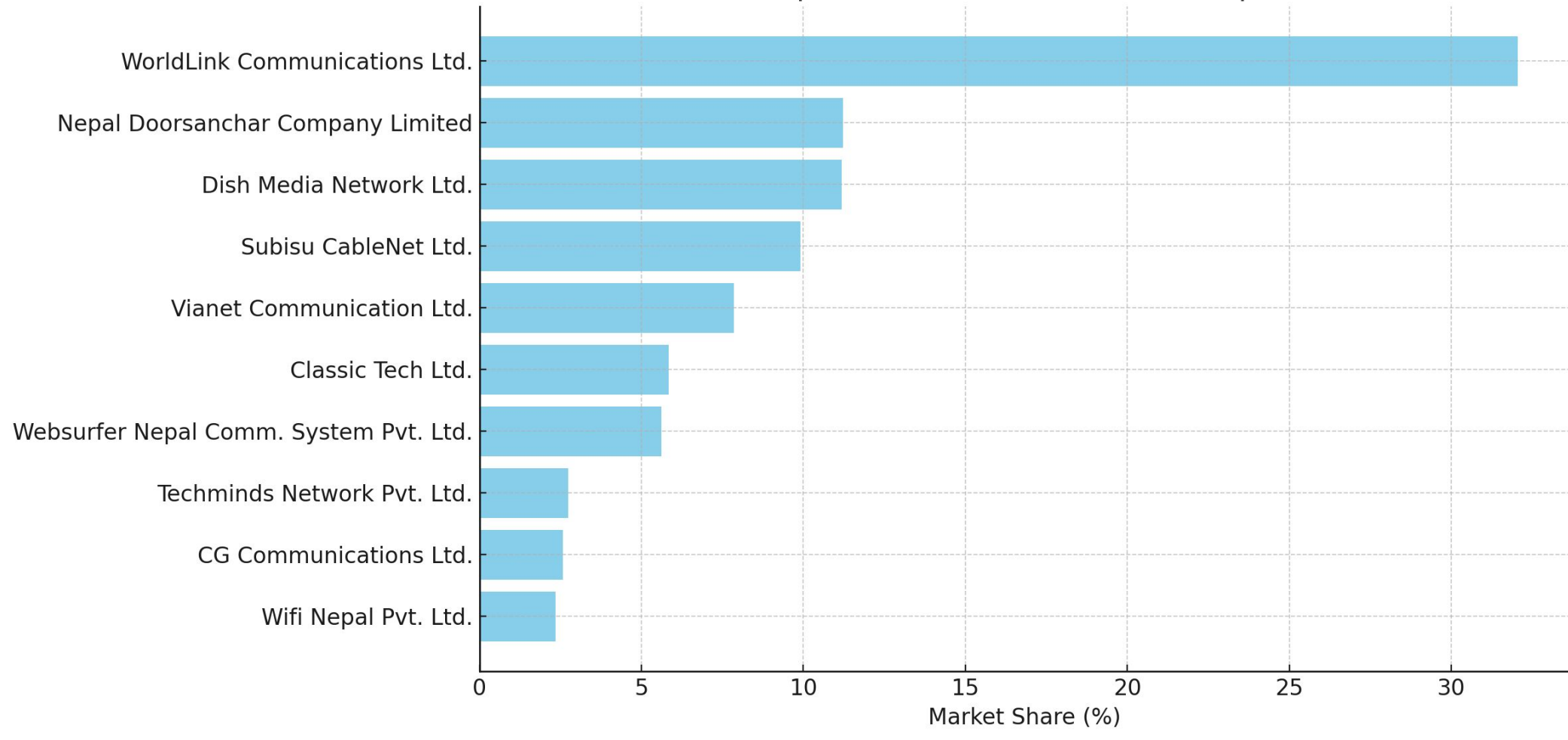
# Internet Penetration

2.4 Population Penetration of Broadband Service  
(Based on Subscription)





Top 1-10 ISP Market Share in Nepal



# Analytic



Internet Package	Average Daily Price (NPR)
50 Mbps	18.33
60 Mbps	28.33
100 Mbps	30.83
150 Mbps	38.33
200 Mbps	38.40



## Beverage

## Price (Rs)

Black Tea

10

Black Coffee

20

Milk Tea

20

Milk Coffee

50

Special Tea

30

Lassi

90



## Distance (km)

5

10

15

20

>20

## Fare (Rs)

19

26

31

35

40

## Complaint Address

Problem Domain	Total Number	Percentage
Internet Not working	9071	29%
Slow Browsing	2583	8%
Field Maintenance	18253	58%
Sales Related	1581	5%
Total	31488	100 %



# Support- Point to Note



Install applications



Change password



Simple configuration

# Fiber Breakage/cut



इन्टरनेटका तार काटेपछि दूरसञ्चार प्राधिकरण  
रुष्ट, 'इन्टरनेट अवरुद्ध गर्ने काम दण्डनीय'



# Cable management





After



# Internet out in New Road after NEA removes cables off poles



by [Dinesh](#) — November 24, 2024 in Telco News Reading Time: 4 mins read



बिनास कि  
बिकास ??



# Dispute with NEA , Impact on Digital Nepal Mission

Infrastructure	Initial Rate	Increased Rate	Reduced Rate (if applicable)
OPGW Rental	NRs. 14,000/year/km/core	NRs. 72,000	NRs. 32,000
ADSS Rental	NRs. 14,000/year/km/core	NRs. 30,000	
Pole Rental (Metro)	NRs. 205/pole/year	NRs. 850/pole/year	
Pole Rental (Municipalities)	NRs. 105/pole/year	NRs. 850/pole/year	
Pole Rental (VDCs)	NRs. 50/pole/year	NRs. 1600/pole/year	
Distribution Box	0	NRs. 600/year	

## Pole rental

9,000/km/year

- Equivalent to:
- Urban:850/pole/year
- Rural: 1600/pole/year



# Underground Infra.

ISPs demand access to underground cable duct laid by NEA



Source: Nepalbuzz



Source: Techlekh

# Challenges

Infrastructure

Priority Lending  
Sector

Nepal Electricity  
Authority (NEA),  
Rentals

Forex approval

Foreign Direct  
Investment (FDI)

Taxation

ISP Classification

Merger and  
Acquisition

Pricing and Tariff of  
Internet packages

Municipality  
Coordination/  
Taxes

Capacity Building ,  
Skilled Human  
Resources

Telecommunications  
Act, 2053(BS)  
Amendment

**Social Media,  
Platform Ban**



# Scattered Settlement



Picture: Credited to Internal Sources



# Picture t

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इन्टर

## नेपाल दूरसंचार

नेपाल दूरसंचार प्राधिकरणबाट अनु  
ग्राहकहरूसँग लिने सेवाको शुल्क/महशु  
वमोजिम अनिवार्य रूपमा प्राधिकरण  
प्राधिकरणबाट स्वीकृत भएको मिति स  
प्रकाशित गरे पश्चात् माघ लागू गर्नु  
प्रदायकहरूले प्राधिकरणबाट सेवाको शु  
तथा सम्बन्धित सेवा प्रदायकहरूको  
प्राधिकरणको गम्भिर ङ्खानाकर्षण भएवं

अतः दूरसंचार ऐन, २०५३ को दफा ४  
शुल्क/महशुलदर प्राधिकरणबाट स्वीकृ  
उल्लेख गरी ग्राहक तथा सर्वसाधारणको  
महशुलदर लागू गर्नुहुन सम्बन्धित सम्पु

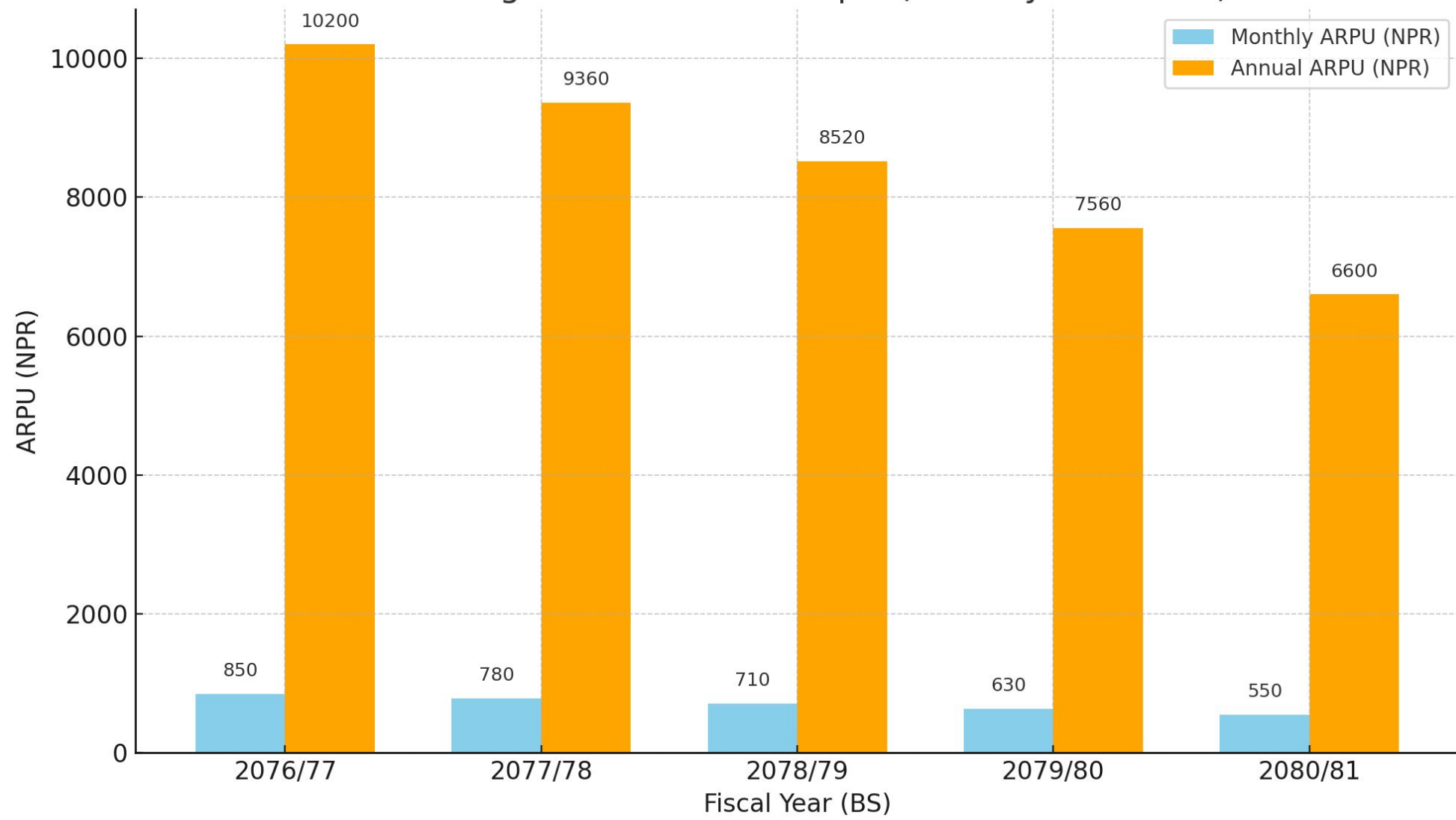
सार्व सम्पूर्ण दूरसंचार सेवा प्रयोगकर्ता  
प्राधिकरणबाट स्वीकृत भए/नभएको  
भुक्तानी गर्ने गरी दूरसंचार सेवा उपभो  
मार्फत जानकारी गराइन्छ ।



नेपाल  
जमल  
फोन नं  
फ्याक्स  
पो.ब.नं  
Email



Declining ARPU of ISPs in Nepal (Monthly vs Annual)









# Possible Roadmap, Recommendations

# Initiatives led by ISPAN

- Restrengthen improve relations with Nepal Government bodies
- Stakeholders
- ADB, World Bank and Development Partners
- Consumer Associations
- Law Enforcement
- Communities asking to secure at end points and Internet ecosystem

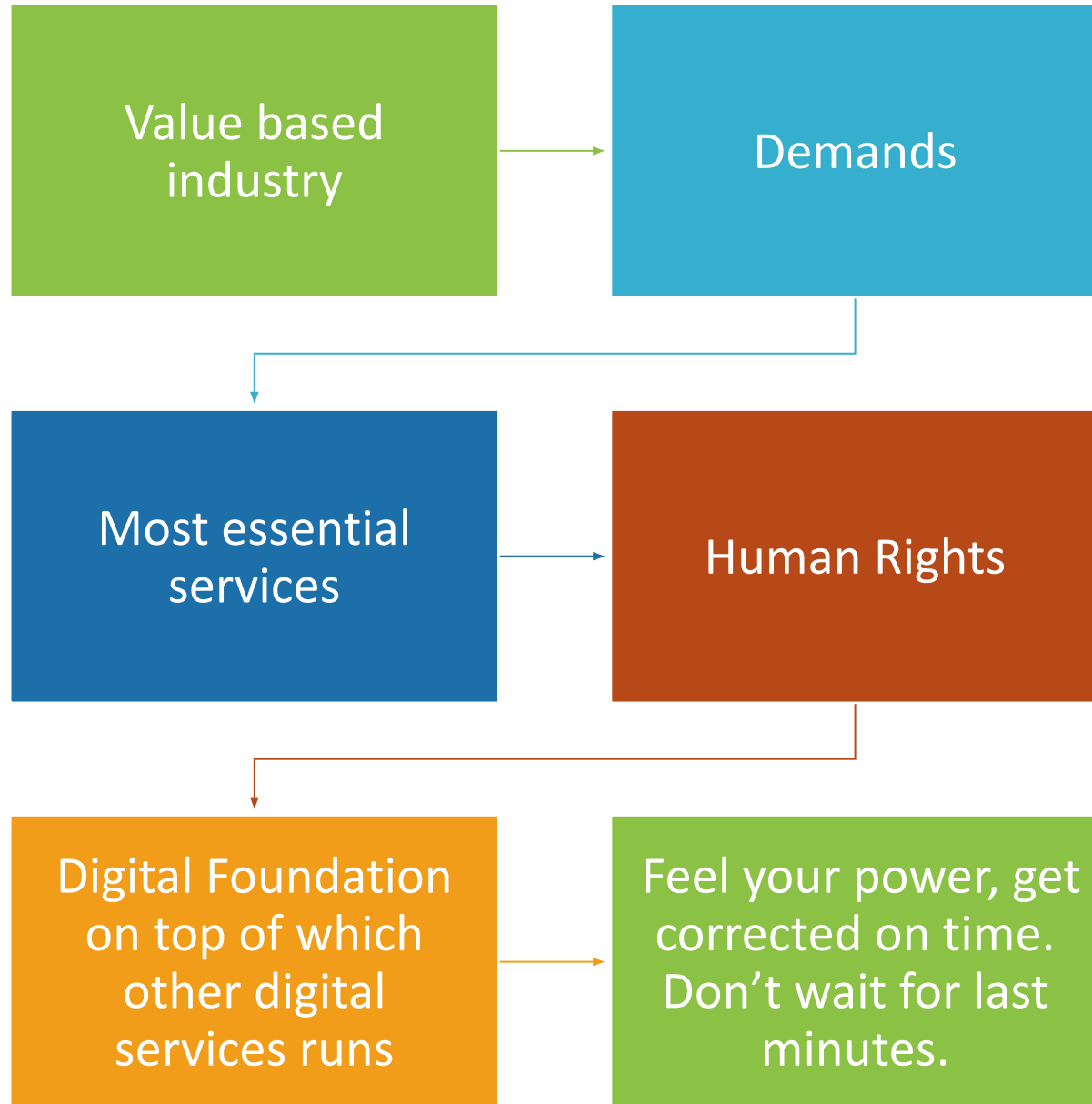
**<? php**

**echo "NEA(start)";**

**?>**



# Glance on points



**Thank you**