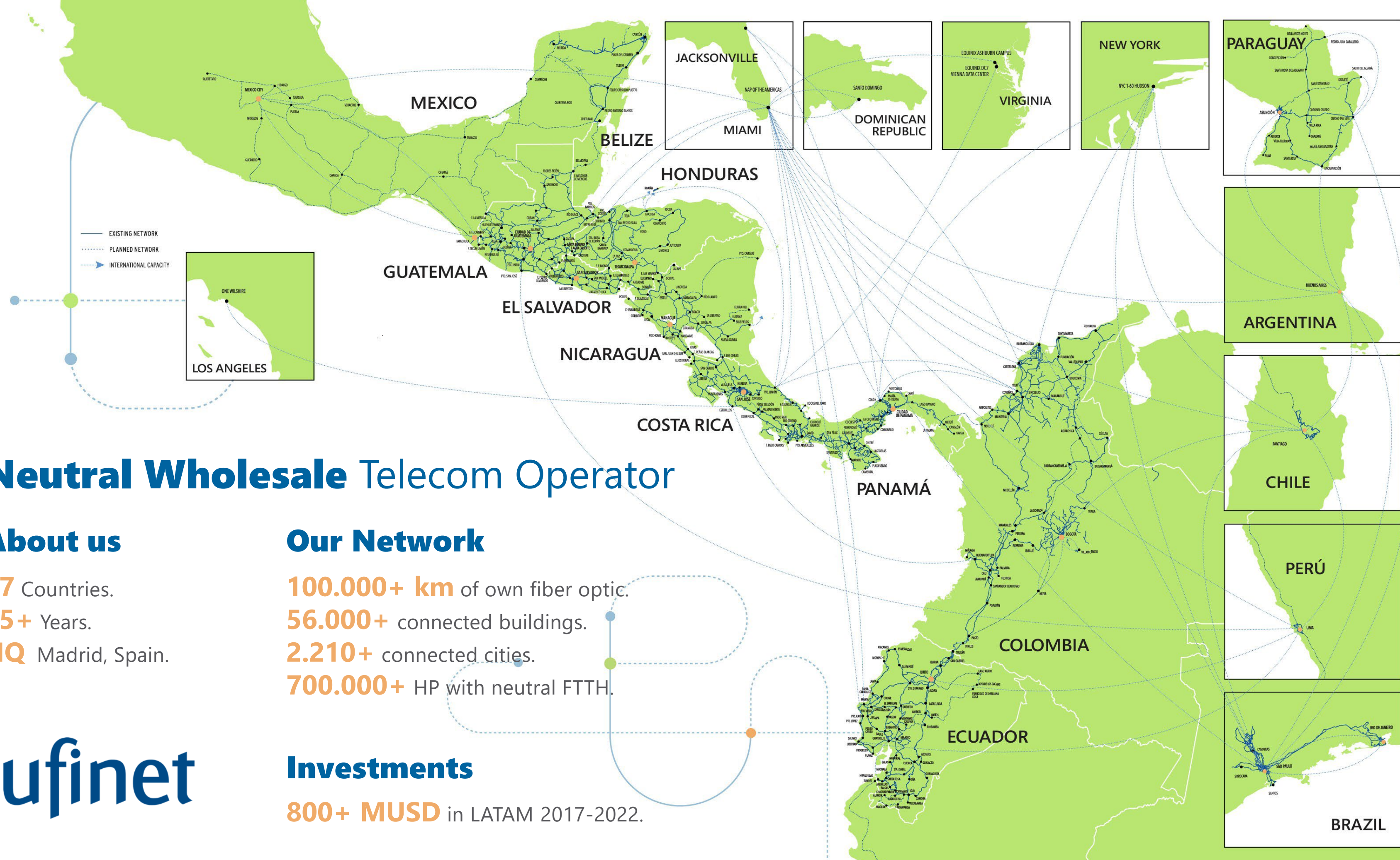




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Project
Northern Perú Fiber Connectivity

Perú, septiembre 2023



Neutral Wholesale Telecom Operator

About us

- 17 Countries.
- 25+ Years.
- HQ Madrid, Spain.

Our Network

- 100.000+ km of own fiber optic.
- 56.000+ connected buildings.
- 2.210+ connected cities.
- 700.000+ HP with neutral FTTH.

Investments

800+ MUSD in LATAM 2017-2022.



Peru & North Peru

DIGITAL GAPS

Gap

Connectivity

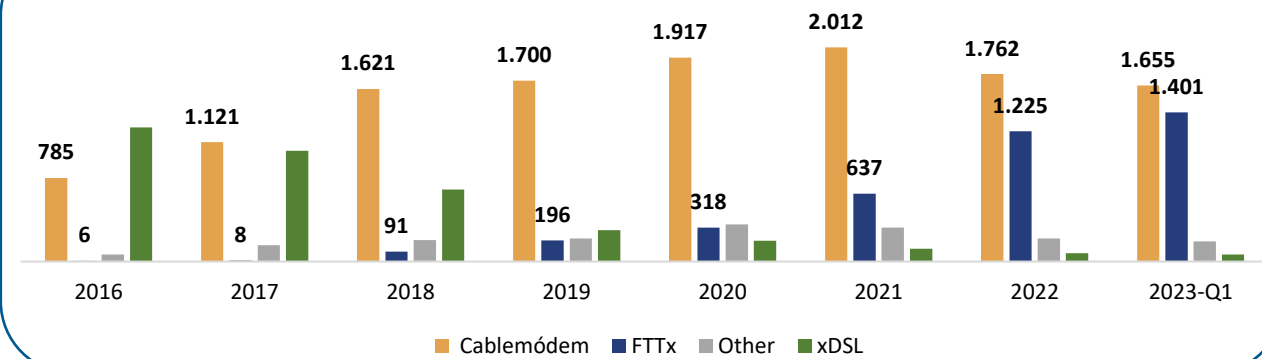
53%
309%
176%
56%

Infrastructure Index (IBDA)
Internet Penetration Rate (per 100 pop)
Fixed Internet Penetration Rate (100 prem)
Fixed Internet Penetration Rate (100 prem)

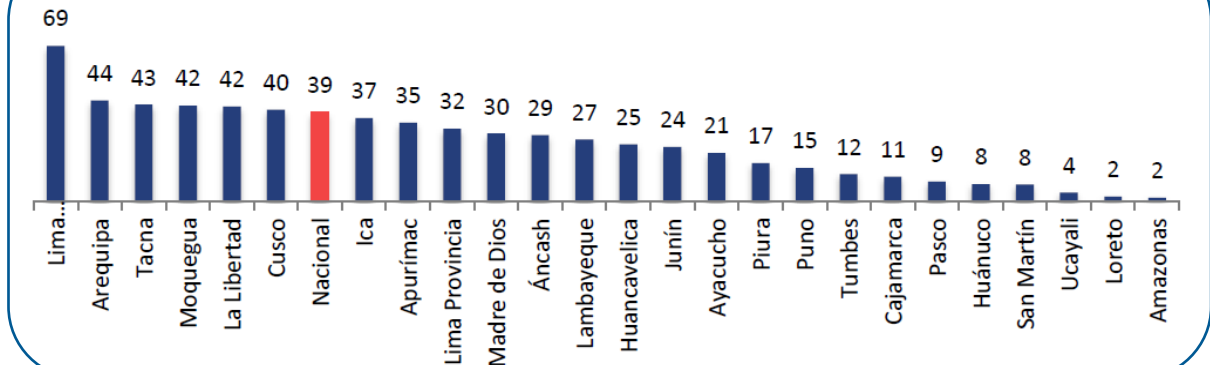
4,04 Peru / 6,17 OCDE ^[1]
9,10% Peru / 37,18% OCDE
25% North Peru / 69% Lima
25% North Peru / 39% Peru (Average)



Internet Connections by Tech



Fixed Internet Penetration Rate



Gap

Access

167%
-87%
95%
115%

Average Internet Download Speed (Mbps)
Affordability Index
% Schools with Internet Access
% Elementary School Internet Access

45,18 Peru / 120,65 OCDE ^[1]
19,68% Peru / 2,52% OCDE ^[1]
43% North Peru / 84% Lima ^[4]
43% Peru / 92,25% OCDE



Gap

Others

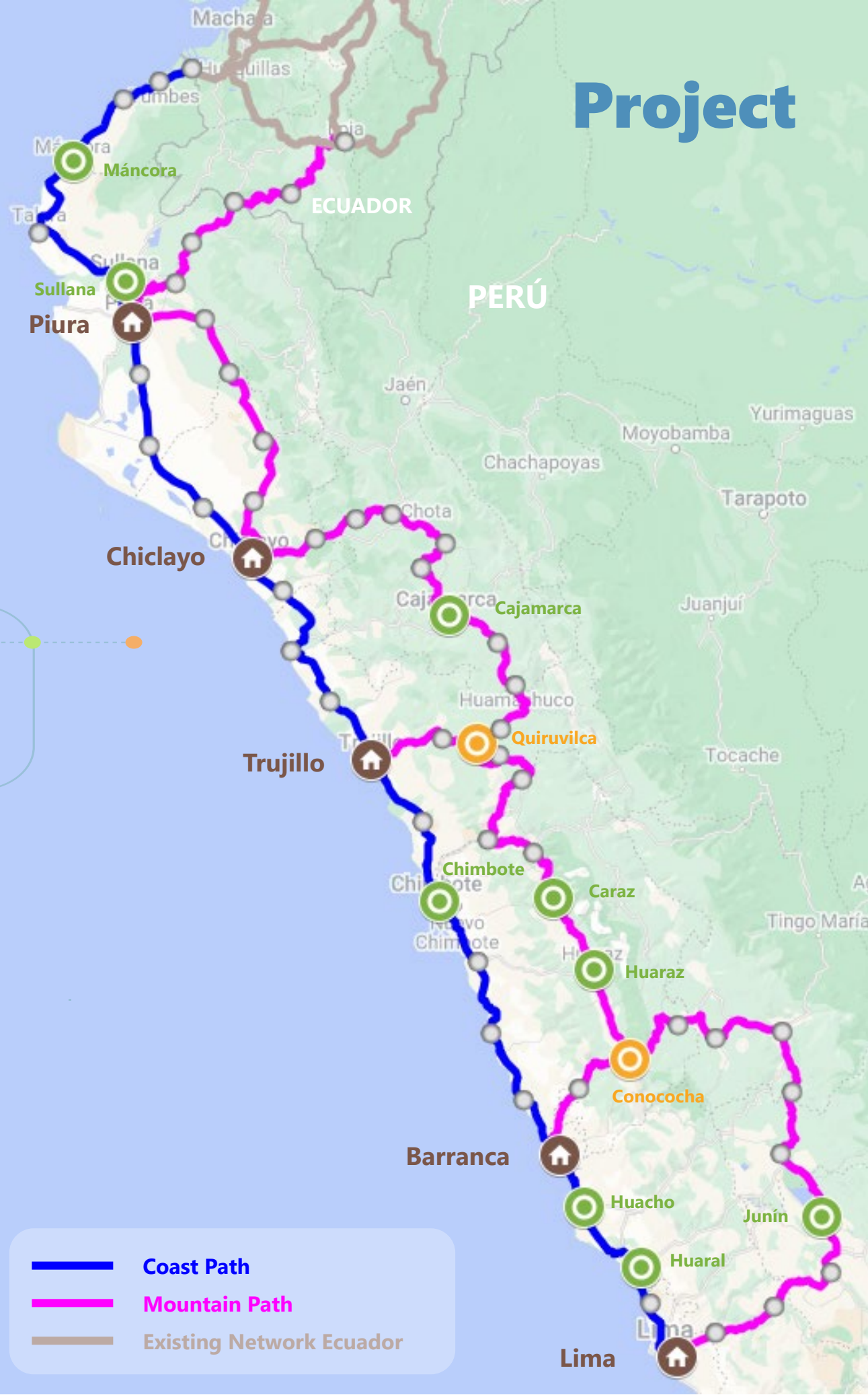
26%
85%
132%
37%

% Internet Users (per 100 pop)
e- Government Development Index
One transaction solve digital procedure
Dissabilities Population Gap ^[2]

71,10% Peru / 89,38% OCDE ^[1]
48,70% Peru / 90,32% OCDE
22% Peru / 51% Latam (average) ^[3]
-



^[1] BID- 2020/ ^[2] (DN Consultores, 2022) Reporte de internet fijo, móvil y uso de internet en el Perú (1er Semestre de 2022) / ^[3] BID – 2018 / ^[4] INCORE Perú – 2023



NORTHERN PERÚ CONNECTIVITY

Fiber Network

	Km of Fiber	PoP
Cost Path	1.500 Km	23
Mountain Path	2.800 Km	36
TOTAL	4.300 Km	59

Capacity Network

	Capacity	PoP
Main PoP	400 Gbps	5
Secondary PoP	100 Gbps	11
Rest	10 Gbps	43

- **Fully redundant terrestrial network**, covering Lima – Ecuador with 5 independent optical fiber rings.
- **Multiple international connections**: north, via Ufinet existing network; Lima, via submarine capacity at Lurín.
- **Low latency internet service** in the northern part of the country.

Coverage

	Towns	Popul.	% Popul.
Northern Peru Project	229	5,5 M	74%

Investment

	CAPEX	OPEX
Northern Peru Project	44,7 MUSD	5 MUSD/year

Estimation

SOCIO ECONOMIC IMPACT

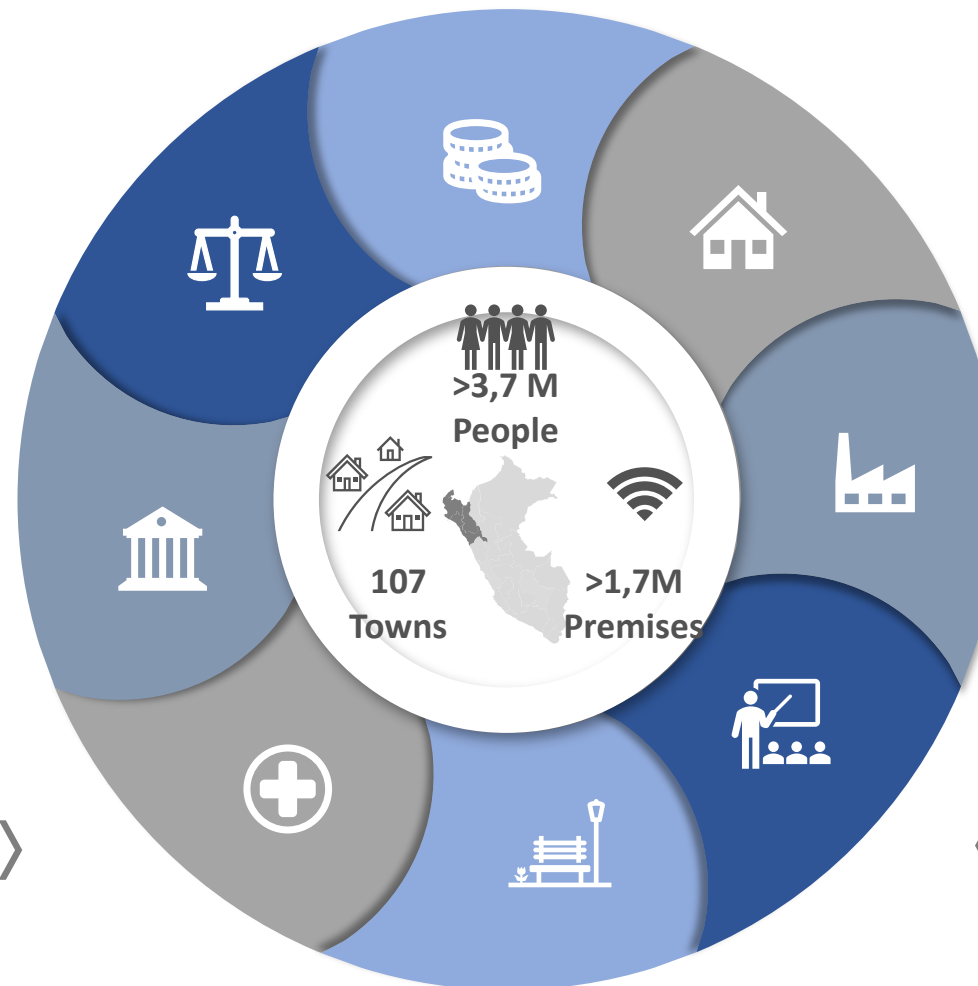
Minimum annually benefits expected for Northern Peru Region

Affordability Index diminution
Currently index 19,85 (2021) >
-4%

Government connectivity
From 400/840 to 400+**10**/840 >
+10

Healthy centers connectivity increasing
From 500/1,5k to 500+**60**/1,5k >
+60

Internet Public Hot spots increasing
From 240/2,9k to 240+**20**/2,9k >
+20



PBI Increasing
< Regional PBI : 13 BUSD (2021)
+0,4%

Home Connectivity increasing
< From 350k/1,3M to **380k**/1,3M
+30k

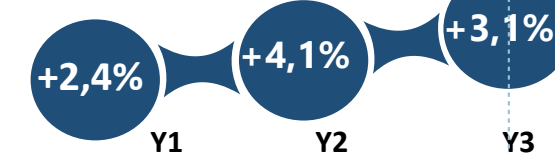
Enterprise connectivity increasing
< From 65k/365k to **82k**/365k
+17k

Educational center connectivity increasing
< From 7k/16k to 7k+**100**/16k
+100

Annually expected growth for Internet Line fixed access:

+11%

Currently avg internet penetration for premises is about 25%, minimum expected annual incrementation rate within this project are:



CLOSING DIGITAL GAPS WITH OTHER SEVERAL INTANGIBLE IMPACTS, SUCH AS: IMPROVEMENT OF QUALITY OF EDUCATION AND HEALTHY, SOCIAL INCLUSION, MORE JOB OPPORTUNITIES, ECONOMIC REDISTRIBUTION AND REGIONAL DEVELOPMENT

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