

# COLLABORATION APPROACH FOR CONNECTIVITY “PALAPA RING PROJECT”





- ❑ more than 17,500 islands
- ❑ spanning the length of 3,977 miles
- ❑ total areas of 1.9 million sq miles
- ❑ more than 270 million people
- ❑ 34 provinces ; 514 districts

**Robust ICT  
Connectivity is a must**



**largest archipelago**



**scattered rural areas**



**difficult landscape**



**challenging weather**



- Participation in a knowledge society in the era of the information economy is based on connectivity to modern ICTs.
- The backbone of a knowledge society is therefore a well developed, well-maintained and affordable information infrastructure that allows access to, and manipulation of the digital economy.



## FIBER OPTIC



Provinces Passed By FO

 **100%**

Number of Provinces Passed By FO : 34

Cities Passed By FO

 **97,47%**

Number of Cities Passed By FO : 501

Districts Passed By FO

 **64,49%**

Number of Districts Passed By FO : 4.598

Villages Passed By FO

 **37,56%**

Number of Villages Passed By FO : 31.285

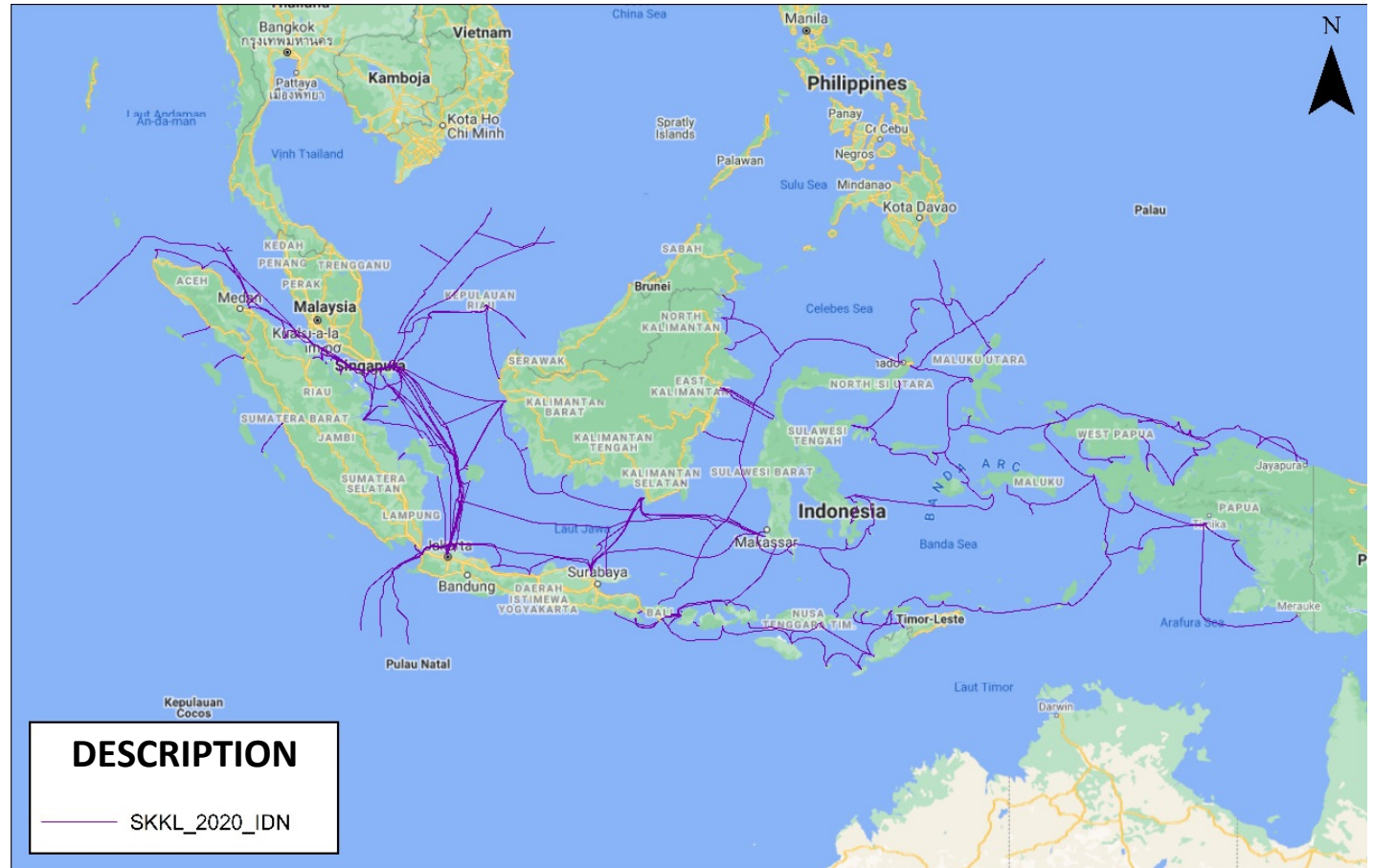
Total Number of Provinces : 34

Total Number of Cities : 514

Total Number of Districts : 7130

Total Number of Villages : 83.285

- ❑ Submarine cable as a digital bridge that connects between domestic and international
- ❑ Almost all of internet traffic is passed through a submarine cable
- ❑ Indonesia has several gateway routes to the global network (Batam-Singapore, Jakarta-Australia, and Manado-USA)



**01**

**Telecommunications Act 1999, Number 36**

**02**

**Republic Indonesia Government Regulation No 52 of 2000 On Telecommunications Operations**

**03**

**Republic Indonesia Government Regulation No 5 of 2021 On The Implementation of Risk-Based Business Licensing**



**04**

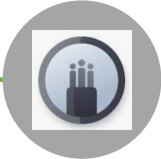
**Republic Indonesia Government Regulation No 46 of 2021 On Post, Telecommunication and Broadcasting**

**05**

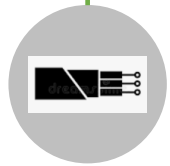
**Minister of Communications and Informatics Regulation No. 01/PER/M.KOMINFO/01/2010 On Telecommunications Network Operation**

**06**

**Minister of Communications and Informatics Regulation No. 5 of 2021 On Telecommunications Operations**



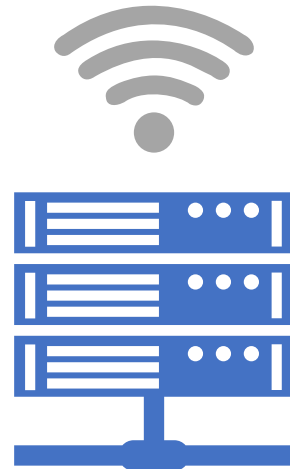
**SUBMARINE CABLE COMMUNICATION SYSTEM**  
(Ind. Sistem Komunikasi Kabel Laut / SKKL)  
There are 2 (two) types of SCCS / SKKL namely  
Domestic SCCS / SKKL and International SCCS / SKKL



## Domestic SCCS / SKKL

Can be hosted by:

- Operators of Closed Fixed Network
- Operators of Long Distance Dialing Fixed Networks



## International SCCS / SKKL

Can be hosted by:

- Operators of Closed Fixed Network
- Operators of International Dialing Fixed Networks

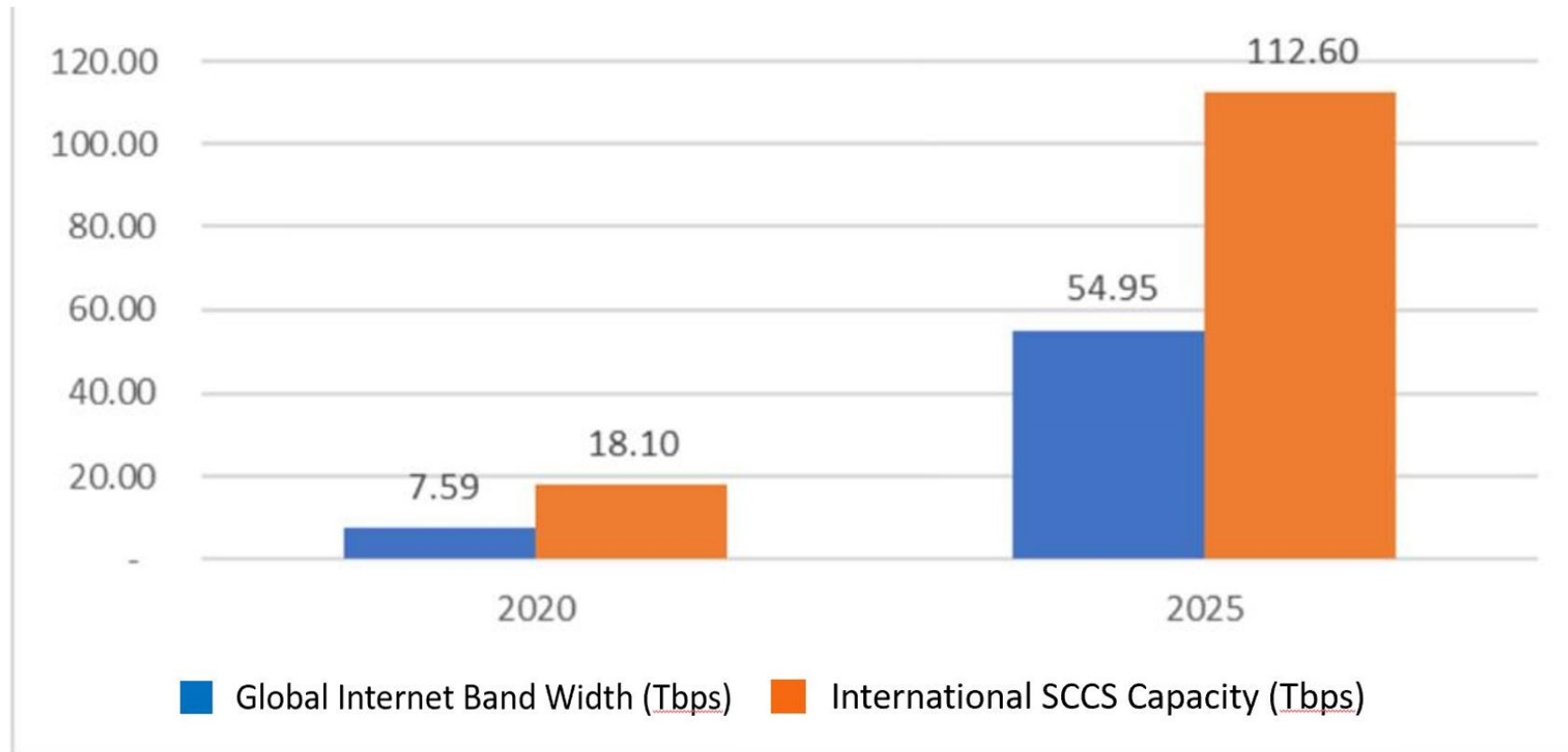
# SUBMARINE CABLE COMMUNICATION SYSTEM OPERATOR (SKKL) IN INDONESIA



No.	Operators	Cable Length (Km)	Cable System
1	PT Indosat Tbk	15.049	SEAMEWE 3, JS, Jakabare, Jakasusi, Javali, Jasutra, JIBA, INDIGO
2	PT Jejaring Mitra Persada	2.200	DAMAI, B3JS, Jayabaya, JBCS
3	PT LEN Telekomunikasi Indonesia (Palapa Ring Tengah)	1.798	Palapa Ring Tengah
4	PT Mora Telematika Indonesia	1.850	MIC-1, MBDC, Tandansuka, Extend PTT
5	PT NAP Info Lintas Nusa	1.046	MCS
6	PT Palapa Ring Barat (Palapa Ring Barat)	1.719	Palapa Ring Barat
7	PT Palapa Timur Telematika (Palapa Ring Timur)	4.555	Palapa Ring Timur
8	PT PGAS Telekomunikasi Nusantara	284	SBWC, BRPP
9	PT Super Sistem Ultima	976	EWS, SEAX-1
10	PT Telkom Indonesia Tbk	22.706	SUB, Jasuka, Anyer-Kalianda, SBCS, HPBB, TSCS, Jaka2dalema, MKCS, LTCS, SMPCS, ASBL, IGG, Matanusa, SLM, IKK
11	PT Telekomunikasi Indonesia International	55.139	TIS, DMCS, BSCS, AAG, SJC, SEAMEWE 5,SEA-US
12	PT XL Axiata Tbk	7.741	BALOK, ASC, BRCS, SJK, LINK 1, LINK 2, LINK 3, LINK 4, LINK 5
13	PT Mega Akses Persada	41	Pasuli
Total		115.104	

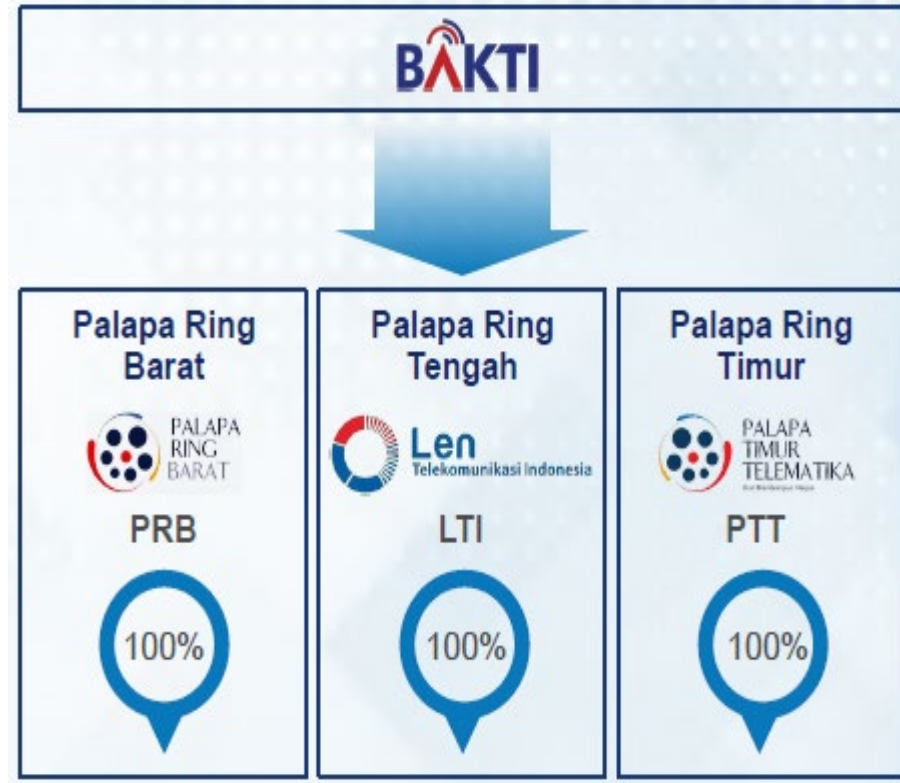


# INTERNET TRAFFIC PROJECTION AND INTERNATIONAL SKKL CAPACITY



Data Source : [www.statista.com](http://www.statista.com)

- ❑ Palapa Ring is the development of backbone network project designed and implemented using fiber optic and microwave transmission to cover 57 city/district where some are still underserved
- ❑ The procurement of were divided into 3 (three) main packages: the western, central, and eastern
- ❑ Palapa Ring is the first Public Private Partnership project in telecommunication sector using Availability Payment (AP) schemes.
- ❑ The source of fund is derived from the Universal Service Obligation (USO)



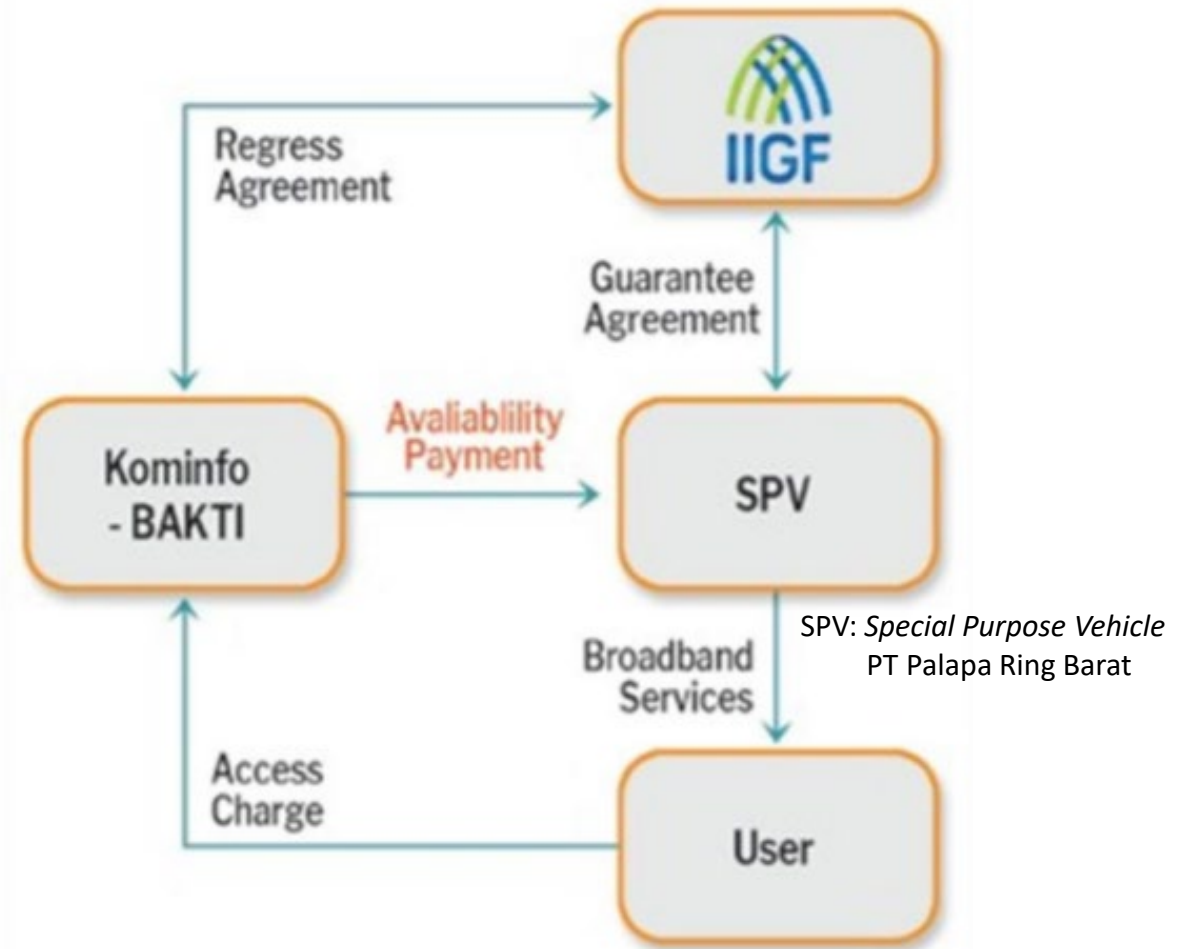
# PALAPA RING INFRASTRUCTURE



## West Palapa Ring Infrastructure



## Project Structure



## Description

### Description:

Development of fiber optic-based broadband telecommunication network which connect Riau Province, Riau Islands and the Natuna Island with a total length about 2,275 km

### Estimated Project Cost:

USD 87,6 Million

### Estimated Concession Period:

15 years



## Central Palapa Ring Infrastructure



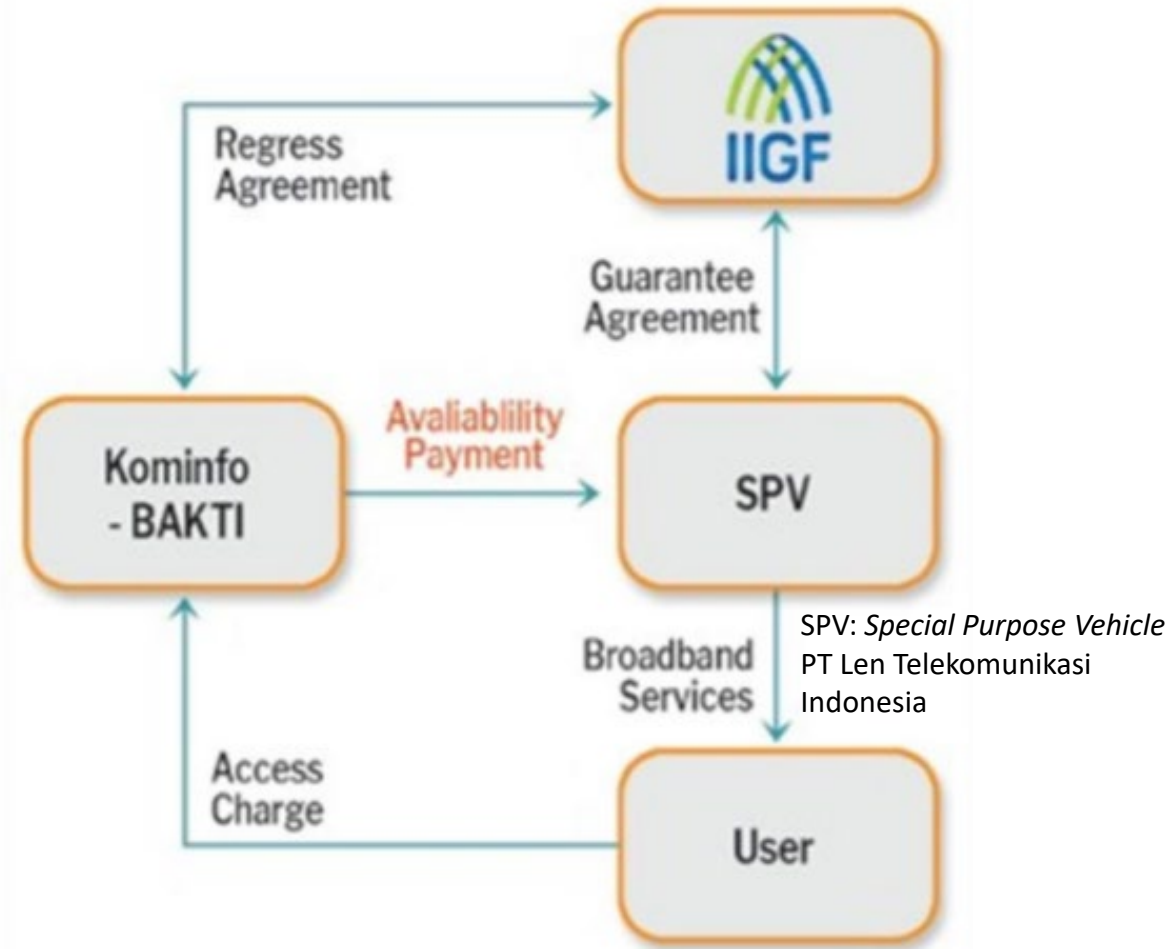
## Description

**Description:**  
 Development of fiber optic-based broadband telecommunication network covering 17 regencies across Kalimantan, Sulawesi, and Maluku

**Estimated Project Cost:**  
 USD 71,5 Million

**Estimated Concession Period:**  
 15 years

## Project Structure



## East Palapa Ring Infrastructure



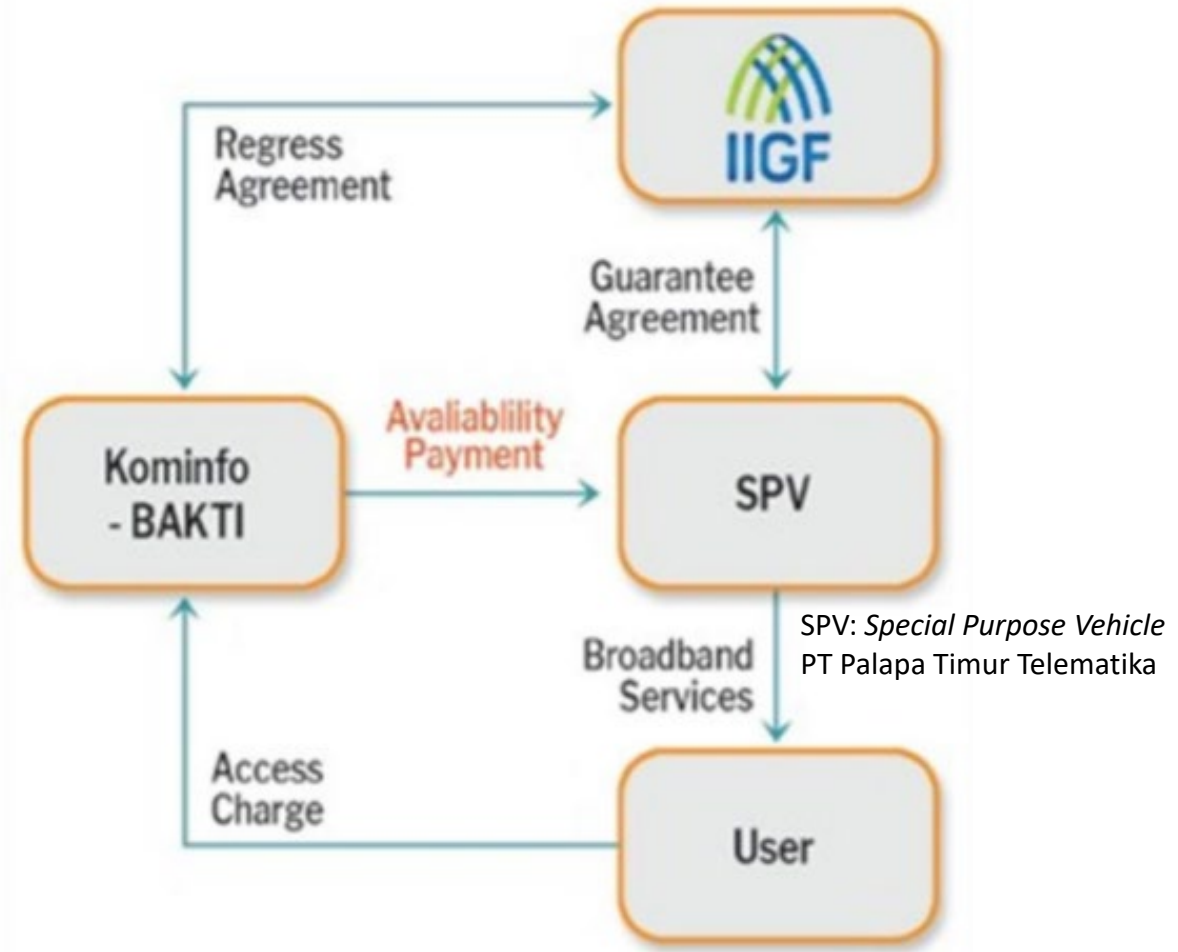
## Description

**Description:**  
 Development of fiber optic-based broadband telecommunication network and microwave transmission which will connect 35 regencies in East Nusa Tenggara, Maluku, West Papua and remote places inside Papua with a total length of about 6,878 km.

**Estimated Project Cost:**  
 USD 386.5 Million

**Estimated Concession Period:**  
 15 years

## Project Structure



Thank  
you

