

Pendidikan untuk 3T

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Wakil Rektor

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Dasar Filosofi

- Bangsa ini hanya bisa maju, saat kita bisa mengangkat terlemah ke atas ..

Solusi Termurah < Rp. 200.000,-

- Asumsi
 - Ada Listrik
 - Ada Komputer Bekas (kelas i3)
 - Siswa punya Handphone
- Butuh
 - USB 16Gb (isi elearning dll) – Rp. 60.000,-
 - WiFi Router/HotSpot/AP - Rp. 100.000,-
 - ONGKIR (mahal kalau dari JAKARTA ke Daerah)

Perkiraan Biaya

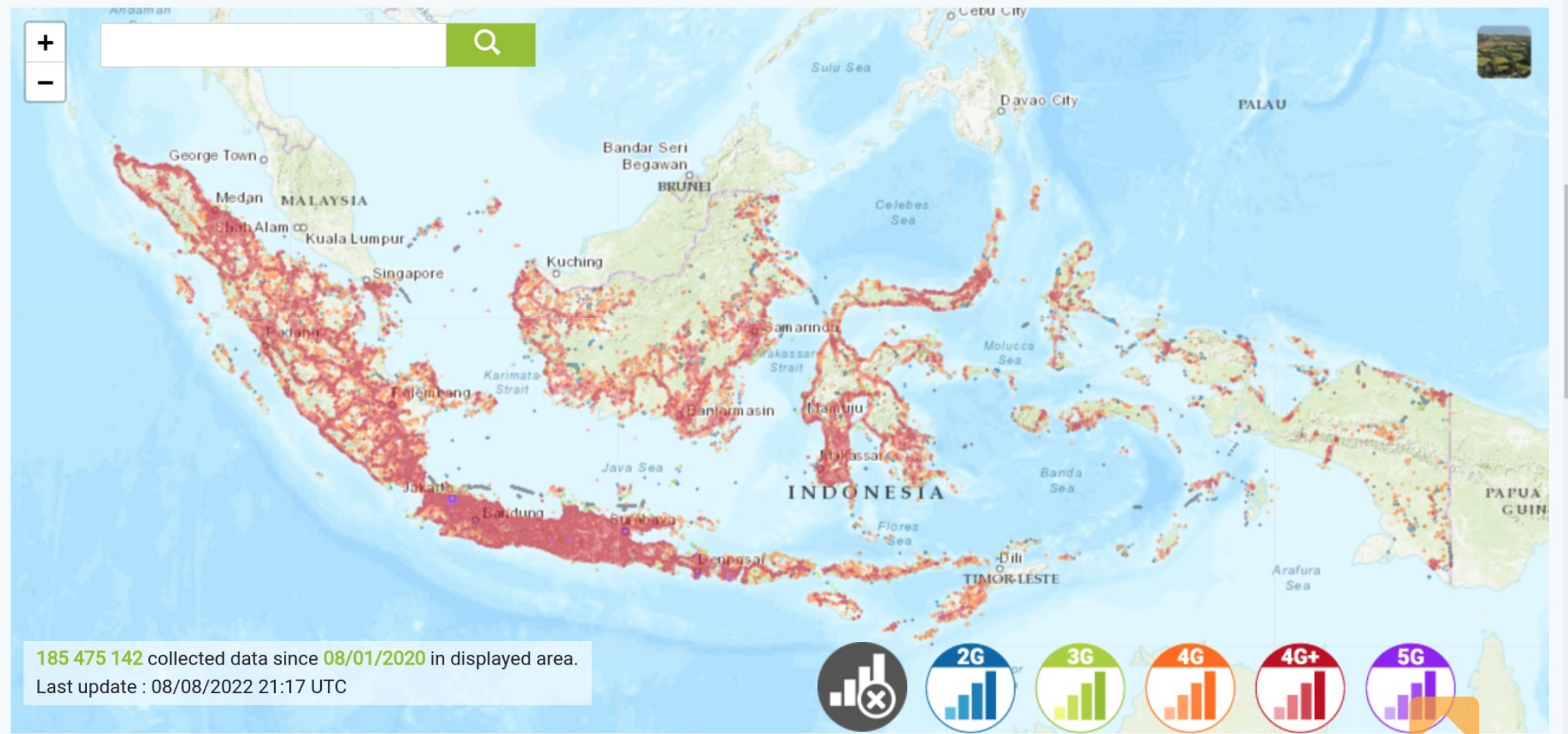
- Rp. 50-80.000 – USB / HDD Perpustakaan Digital
- Rp. 1 juta-an minimal - Solusi Server Lokal
- Rp. 300 ribu-10 juta-an – Jaringan Jarak Jauh (OPTIONAL)
- Belum termasuk (Sumber dari Jakarta = MAHAL)
 - ONGKIR
 - Pemberdayaan Masyarakat
 - Membuat Materi & Bank Soal

Saran Strategi

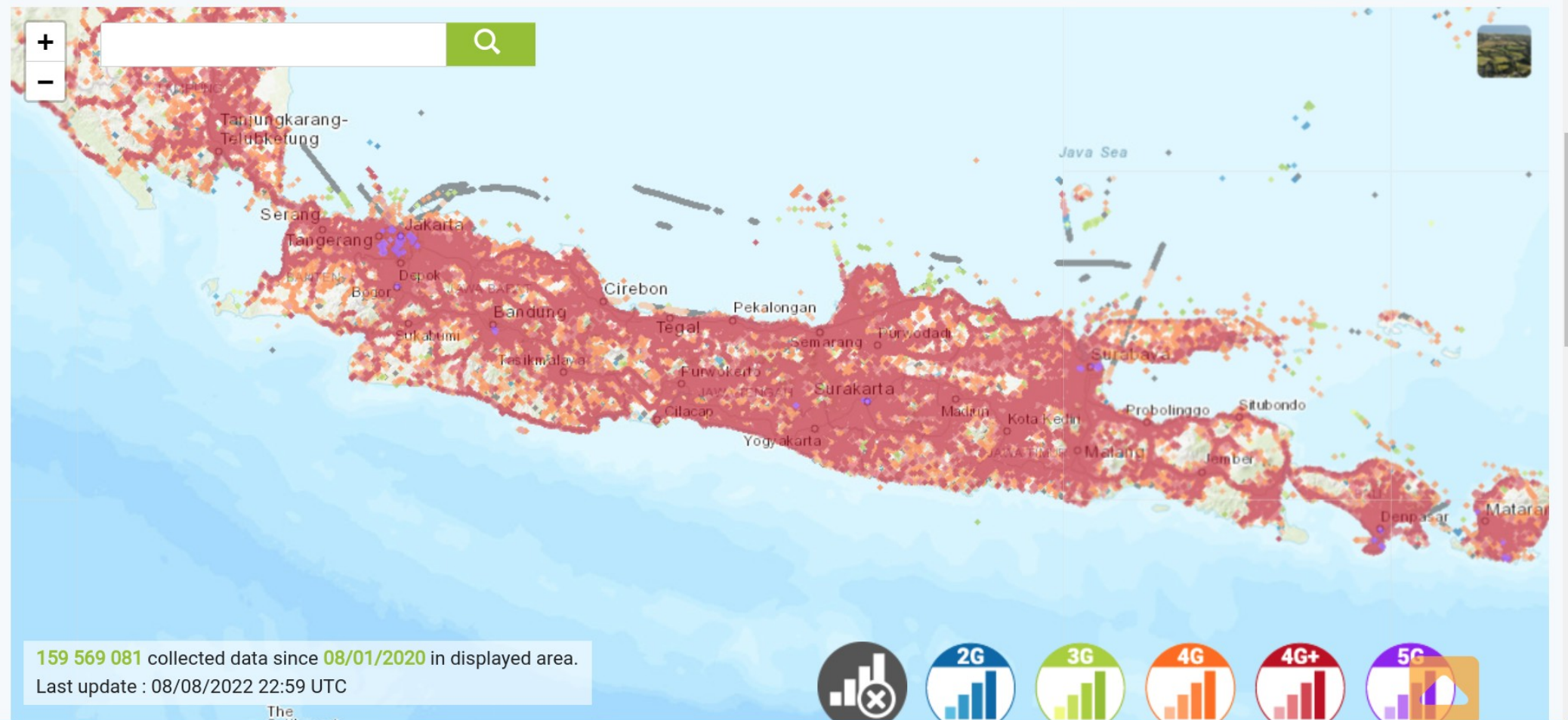
- Investasi SDM & KONTEN – oleh Pemerintah
 - Melalui SMK / SMA
 - Melalui Kampus Lokal
- Investasi Jaringan – bisa operator, bisa rakyat.
- Investasi Alat - oleh Rakyat
 - Menjamin Sustainable

Kondisi yang di sederhanakan ..

- Sinyal – Sulit Sekali / Tidak ada
- Listrik – Terbatas / Tidak ada listrik
- Pendapatan - Rendah
- Kapasitas SDM daerah terbatas



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Find out more about our 5G map
Discover how it is updated



Boost our 5G map
Download our App...
and test your 5G!





sekolah daring naik pohon



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Tools

Collections SafeSearch on

- banyumas
- mahasiswa
- hutan
- kuliah
- kuliah online
- 15 meter
- belajar
- desa bahpasunsang
- mencari sinyal internet
- simalungun
- belajar daring
- pembelajaran jarak



Sejumlah Siswa Panjat Pohon Cari Sinyal ...
regional.kompas.com



Viral Siswa di Simalungun Panjat Pohon ...
news.detik.com



Demi Ikut Belajar Daring, Siswa di ...
medan.tribunnews.com



Demi Belajar Daring, Siswa Desa ...
sumut.inews.id



Simalungun Belajar Online: Manj...
kumparan.com



Cari Sinyal untuk Belajar Daring ...
indzone.id



Viral Siswa di Simalungun Panjat Pohon ...
news.detik.com



Sejumlah Siswa Panjat Pohon Cari Sinyal ...
youtube.com



Simalungun Belajar Online ...
merdeka.com



Siswa Panjat Pohon Belasan ...
suara.com



Foto Viral Sejumlah Siswa Beramai-ramai ...
youtube.com



Siswa di Desa Bahpasunsang Harus ...
surabaya.tribunnews.com



Sejumlah Siswa Panjat Pohon Cari Sinyal ...
regional.kompas.com



Rela Utang hingga Panjat Pohon, Begini ...
boombastis.com



Panjat Pohon Demi Sinyal Internet Saat ...
republika.co.id



Siswa Panjat Pohon Belasan ...
suara.com



Viral Pelajar Panjat Pohon Cari Sinyal ...
beritamusi.co.id



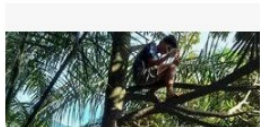
Harus Memanjat Pohon di Hutan ...
kedu.suaramerdeka.com



Siswa Panjat Pohon Demi Belajar Online ...
kompas.tv



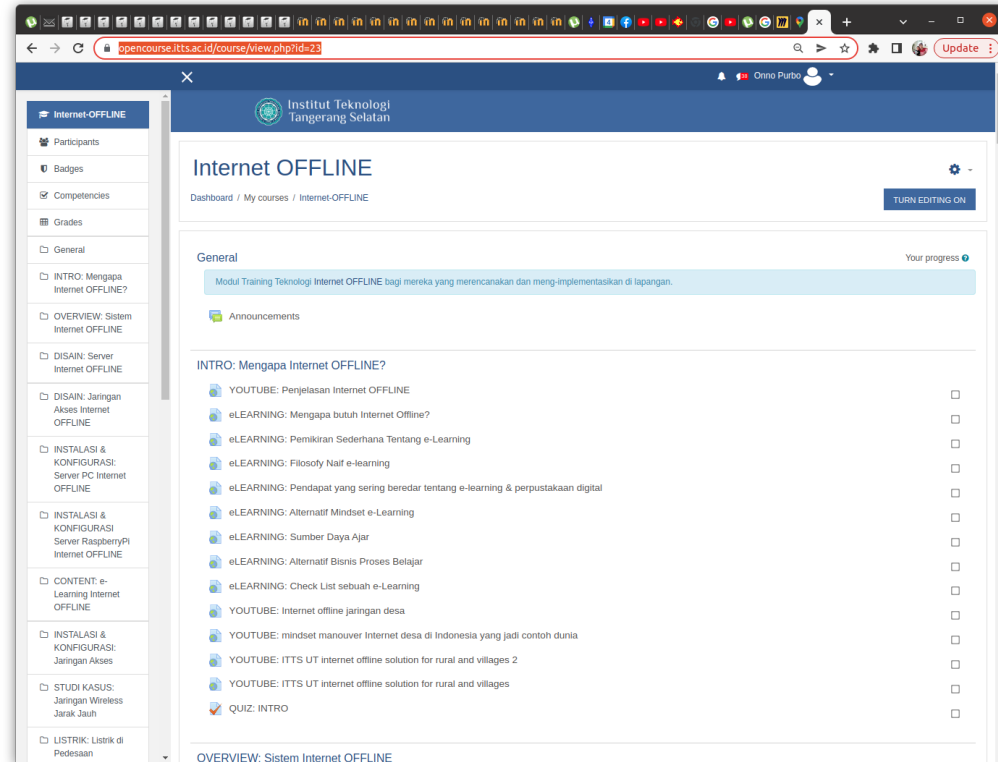
Demi Bisa Belajar Via Daring, Pelajar ...
kaltim.tribunnews.com



Ilmu Internet OFFLINE

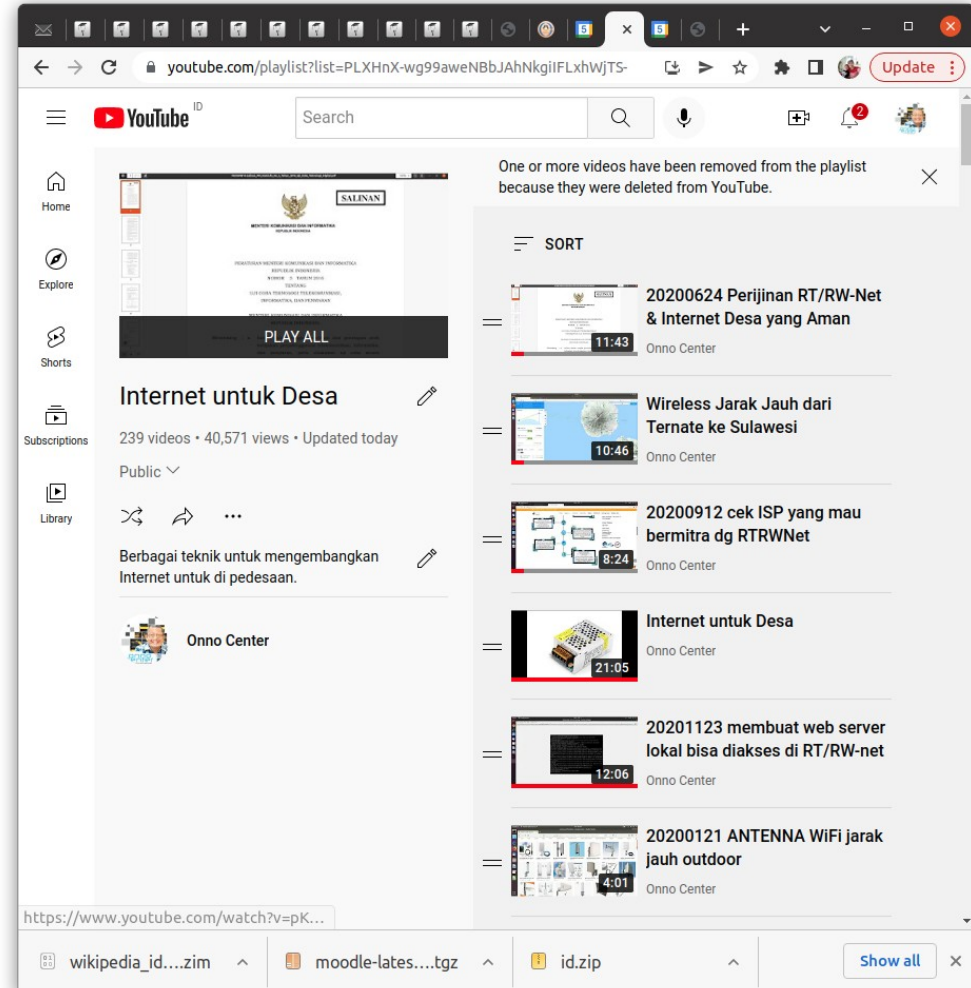
<https://opencourse.itts.ac.id/course/view.php?id=23>

- Free
- Bersertifikat (diakui Industri)



Youtube Channel OnnoCenter

- Playlist Internet Desa
- 200+ Video



Buku Internet OFFLINE

- Sedang dalam proses penulisan

Pilihan Teknologi MURAH

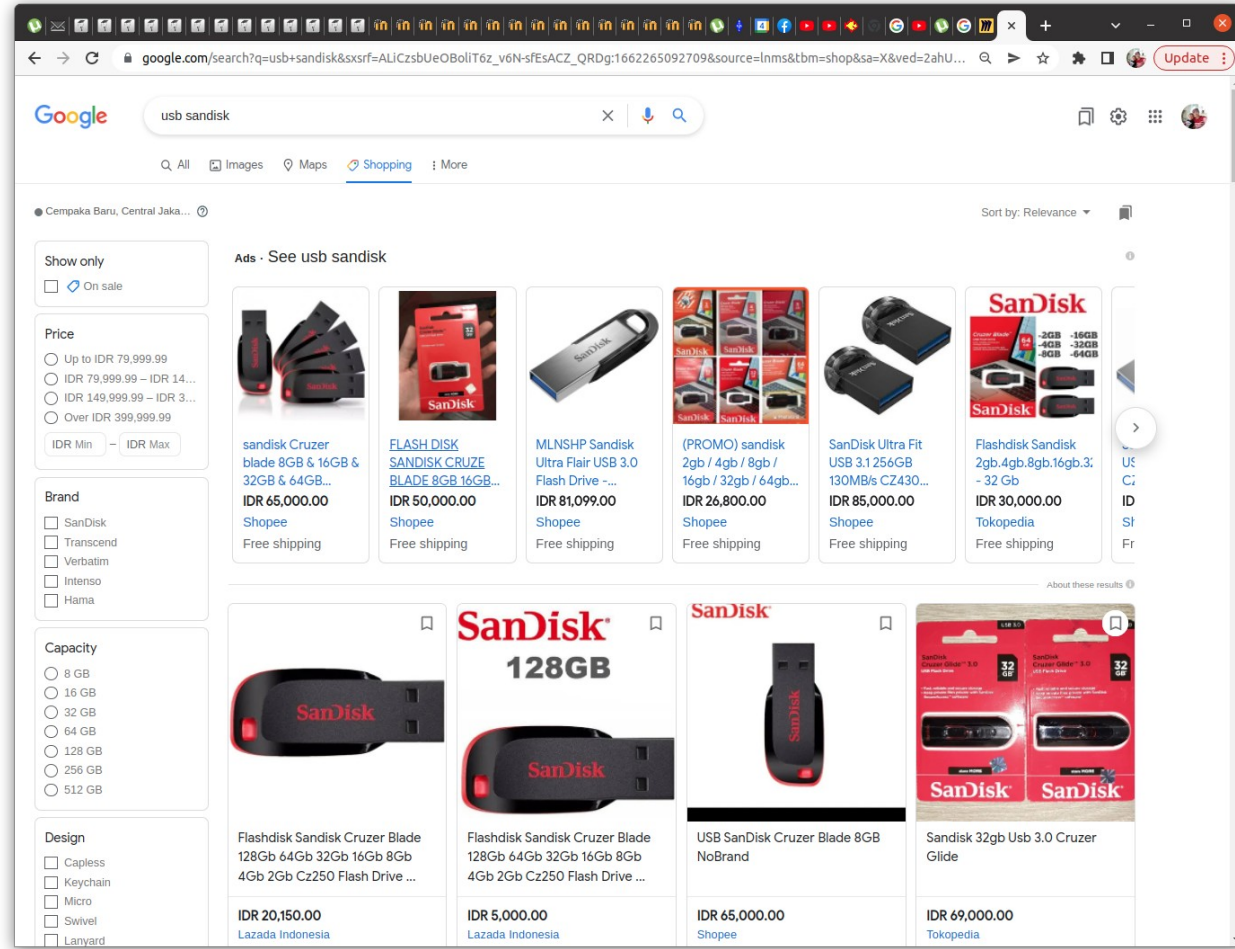
- Copy eBook dll ke USB / OTG flashdisk
- Pembangkit Listrik Murah untuk Server Internet OFFLINE
- Server Internet OFFLINE + Router / WiFi HotSpot
 - USB flashdisk untuk PC Bekas → Server Internet OFFLINE

Jika dibutuhkan Jaringan:

- Wireless Jarak Jauh
- Fiber Optik ke pedesaan

USB flashdisk

- Rp. 50-80.000
- 16Gb



OTG Flashdisk

- Rp. 60-180.000
- 16Gb

google.com/search?q=OTG+flashdisk&sa=X&biw=1520&bih=1075&tbm=shop&sxrf=ALICzsbQMDF1QaBc1EqKPISeKUrVNB-Gw%3A16622691...

Google OTG flashdisk

Q All Images Maps Shopping More

Cempaka Baru, Central Jaka...

Sort by: Relevance

Show only
☐ On sale

Price
☐ Up to IDR 40,000
☐ IDR 40,000 – IDR 79,99...
☐ IDR 79,999.99 – IDR 14...
☐ IDR 149,999.99 – IDR 3...
☐ Over IDR 349,999.99
IDR Min – IDR Max

Brand
☐ SanDisk
☐ Samsung
☐ HP
☐ Sony
☐ Kingston
☐ Philips

Capacity
☐ 16 GB
☐ 32 GB
☐ 64 GB
☐ 128 GB
☐ 256 GB
☐ 512 GB

Design
☐ Keychain
☐ Capless
☐ Swivel

Ads - See OTG flashdisk

4in1 Micro Usb Hub + Charge Kabel Otg Micro 3 Port Usb...
IDR 34,000.00
Shopee
Free shipping

Flashdrive Dual OTG 32/64/128GB USB Flash Disk OT...
IDR 62,888.00
Shopee
Free shipping

SanDisk Ultra Dual USB Drive 3.0 32GB - 130MB/s OTG...
IDR 72,900.00
Shopee
Free shipping

HP X5000M USB 3.1 TYPE-C + A 32GB OTG Flash Drive
IDR 160,000.00
Shopee
Free shipping

JOYSEUS OTG rotating flash Disk USB 2.0 16/32/64...
IDR 65,000.00
Shopee
Free shipping

Flashdisk Otg Ultra Dual Drive Otg Micro 3.0 32gb...
IDR 77,000.00
Tokopedia
Free shipping

About these results

SanDisk Flashdisk Otg Usb 2Tb Warna Ungu Untuk Smartphone Android
IDR 76,795.00
Lazada Indonesia

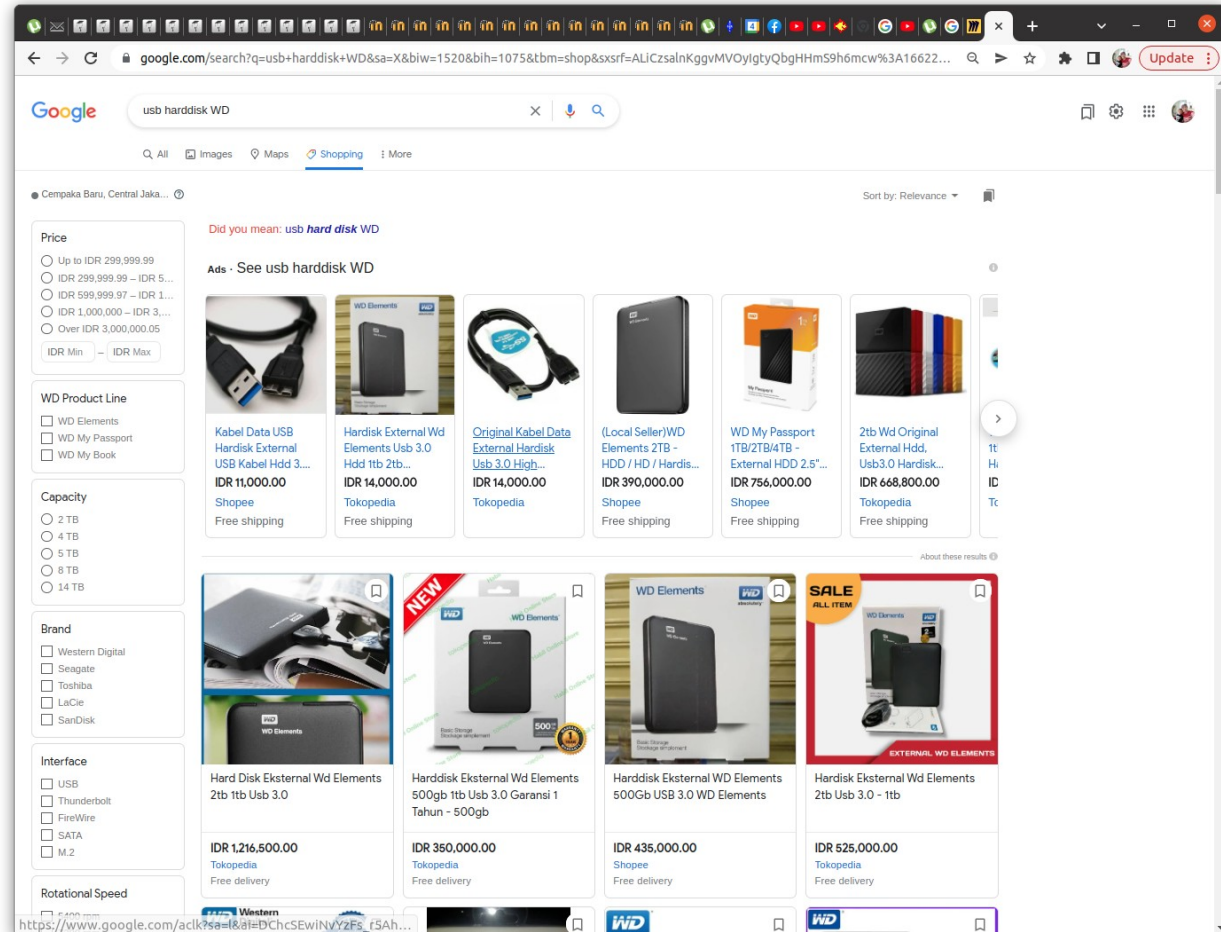
Otg Flashdisk 128gb Untuk Iphone / Android / Pc With Type C /
IDR 606,200.00
Tokopedia

Otg Flashdisk 32gb/64gb/128gb Usb Flash Drive 130m/s Usb3.0 Original - Bubble Wrap
IDR 30,000.00
Tokopedia

Flashdisk Otg Samsung 4Gb / 8Gb / 16Gb / 32Gb
IDR 18,619.00
Lazada Indonesia

USB harddisk

- Rp. 400-800.000
- 2TB



Sumber Listrik Kecil & Sederhana

- Tenaga Air (yang Murah)
- Tenaga Surya (yang Murah)
- Atau Beli BATERE di Warung

Listrik Generator Air

- Rp. 150-200.000
- 5-12V 10W

Search results for "Generator Turbin Air 5V 12V" on Google.

Brand:

- ☐ Firman Power Equipment
- ☐ Powerspot

Shipping:

- ☐ Free shipping

Seller:

- ☐ Alibaba.com
- ☐ DHgate online store
- ☐ Tokopedia

Product Name	Price	Source
Sale Mihan Generator Turbin Air Elektrik Dc 5v 12v 80v 10w H	IDR 200,000.00	Tokopedia +Delivery
Kool Generator Turbin Air Dc 80v / 5v / 12v Micro-Hydro	IDR 246,100.00	Tokopedia Free delivery
Wer Generator Turbin Air Dc 80v / 5v / 12v Micro-Hydro	IDR 254,500.00	Tokopedia Free delivery
Grosir Generator Turbin Air Dc 5v 12v 80v 10w High	IDR 187,575.00	Tokopedia Free delivery
Cardiac Dc 5V 12V 80V Baru Berguna Stabilvolt Alat Kelistrikan Aliran Hidrolik ...	IDR 107,000.00	Shopee
Generator Turbin Air Pembangkit Listrik Tenaga Air 12V Dc 10W	IDR 157,000.00	Bukalapak
generator turbin air pembangkit listrik tenaga air 12v dc 10w / water turbine	IDR 140,000.00	Tokopedia
HI Generator Turbin Aliran Air Micro Hydro Dc 0-80v 12v 5v	IDR 209,700.00	Tokopedia

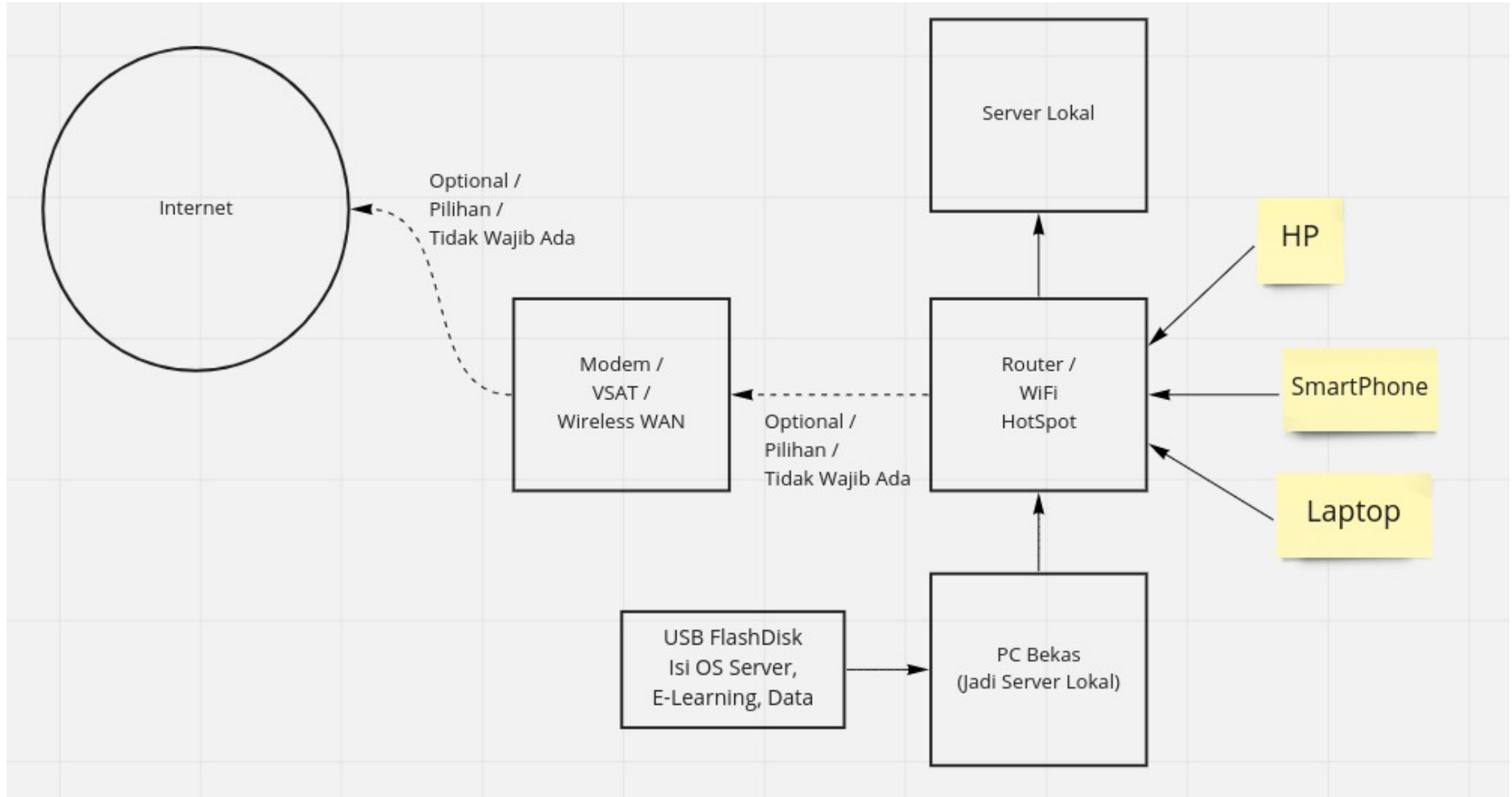
Solar Charger

- Rp 30-300.000
- 5-12V
- 20W

The screenshot shows a Google search results page for the query "Solar Charger 5V-12V". The page displays eight product listings arranged in a 2x4 grid. Each listing includes a product image, a title, a price, and the seller's name. The products vary in power (from 1.1W to 150W) and features (like LCD displays, USB ports, and car chargers). The prices range from IDR 60,000.00 to IDR 1,944,034.91. The sellers include Lazada Indonesia, Bukalapak, Tokopedia, and Shopee.

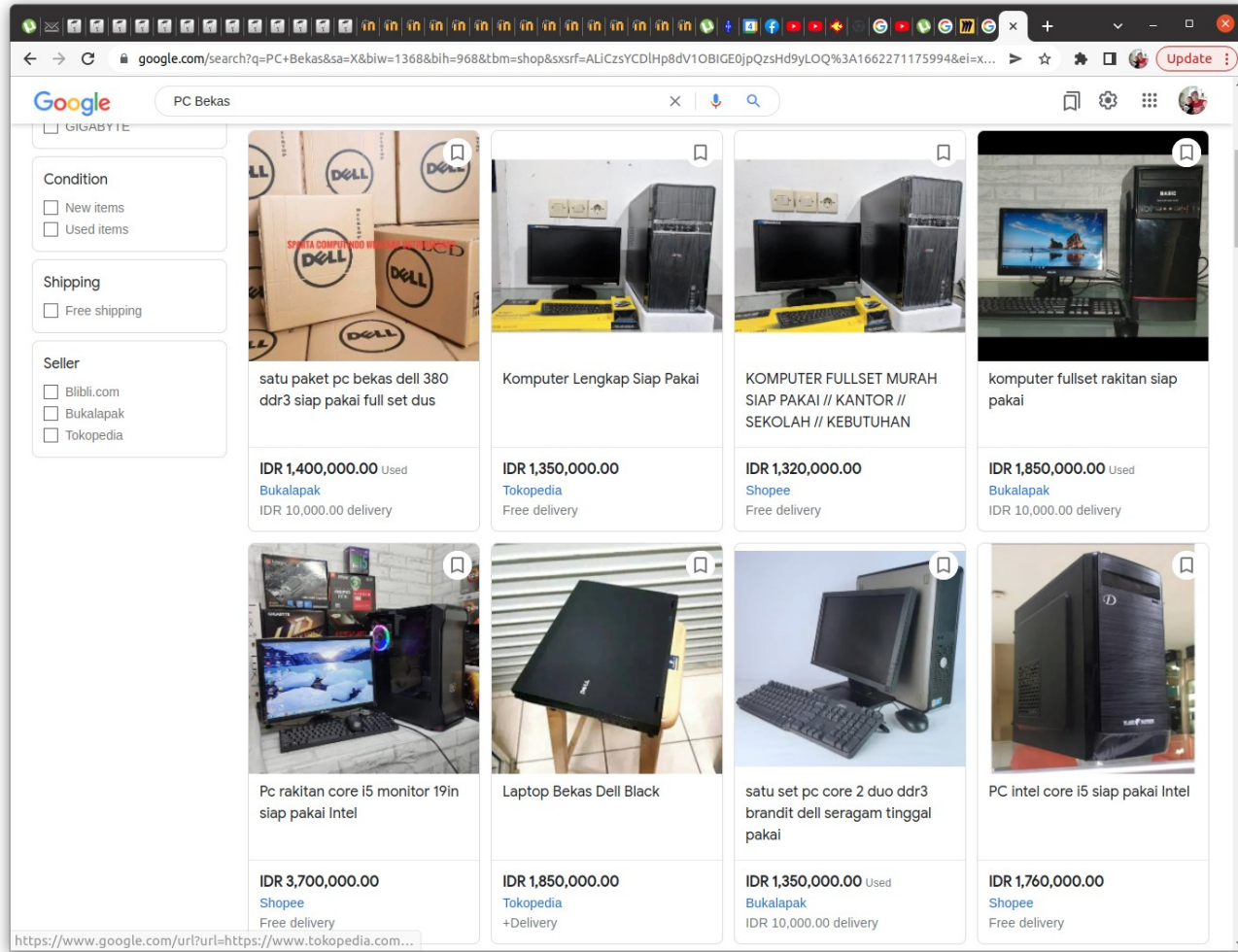
Product Name	Price	Seller
Mini Solar Panel For Smartphone & Powerbank - 5V 1.1W 220Ma Dan Diy Mini Star ...	IDR 29,999.00	Lazada Indonesia
kernuap charger solar panel portable 5 folding usb output port 9w 5v - ker-so1 ...	IDR 223,700.00	Bukalapak
12v Lipat Solar Panel Charger Camping, Solar Power Bank Usb Backpackin	IDR 173,548.00	Tokopedia
controller pwm charger utk generator dan solar cell NoBrand	IDR 60,000.00	Shopee
KERNUAP Charger Solar Panel Portable 5 Folding USB Port 9W 5V KER-SO1 Hitam	IDR 270,700.00	Blibli.com
150W 18V Mono Solar Panel USB 12V/5V DC Monocrystalline Flexible Charger For Car ...	IDR 1,944,034.91 + tax	DHgate online store
Epr Jh-10 12v/5v Monocrystalline Solar Panel Battery Charger With	IDR 669,000.00	Tokopedia
SPECIAL BULAN INI Solar Charge Controller LCD LED Solar display cell PWM 12V/24V	IDR 142,000.00	Shopee

Internet OFFLINE Topologi



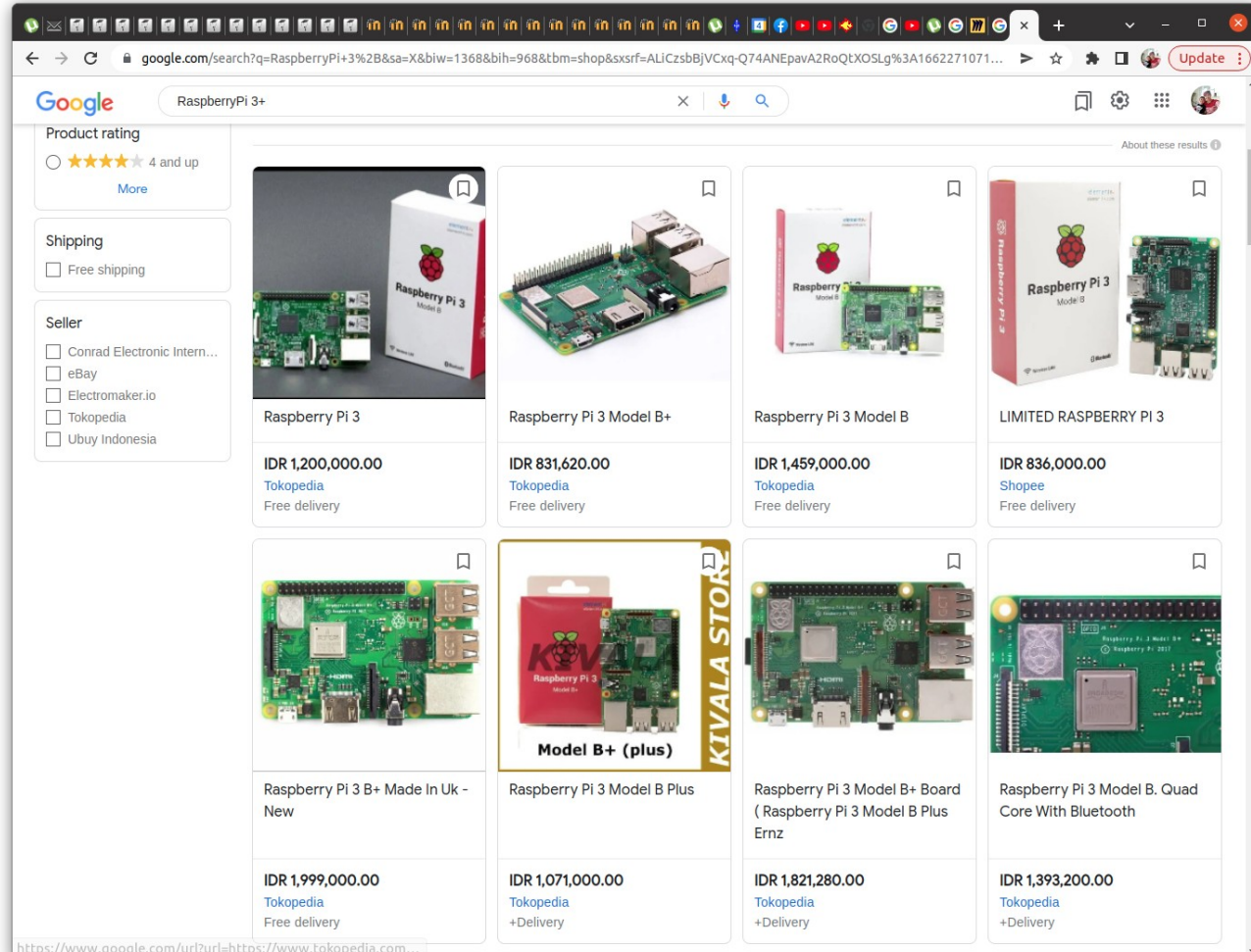
PC Bekas

- Rp. 1.5-2 juta
- HDD 250Gbyte
- Atau
- USB FlashDisk

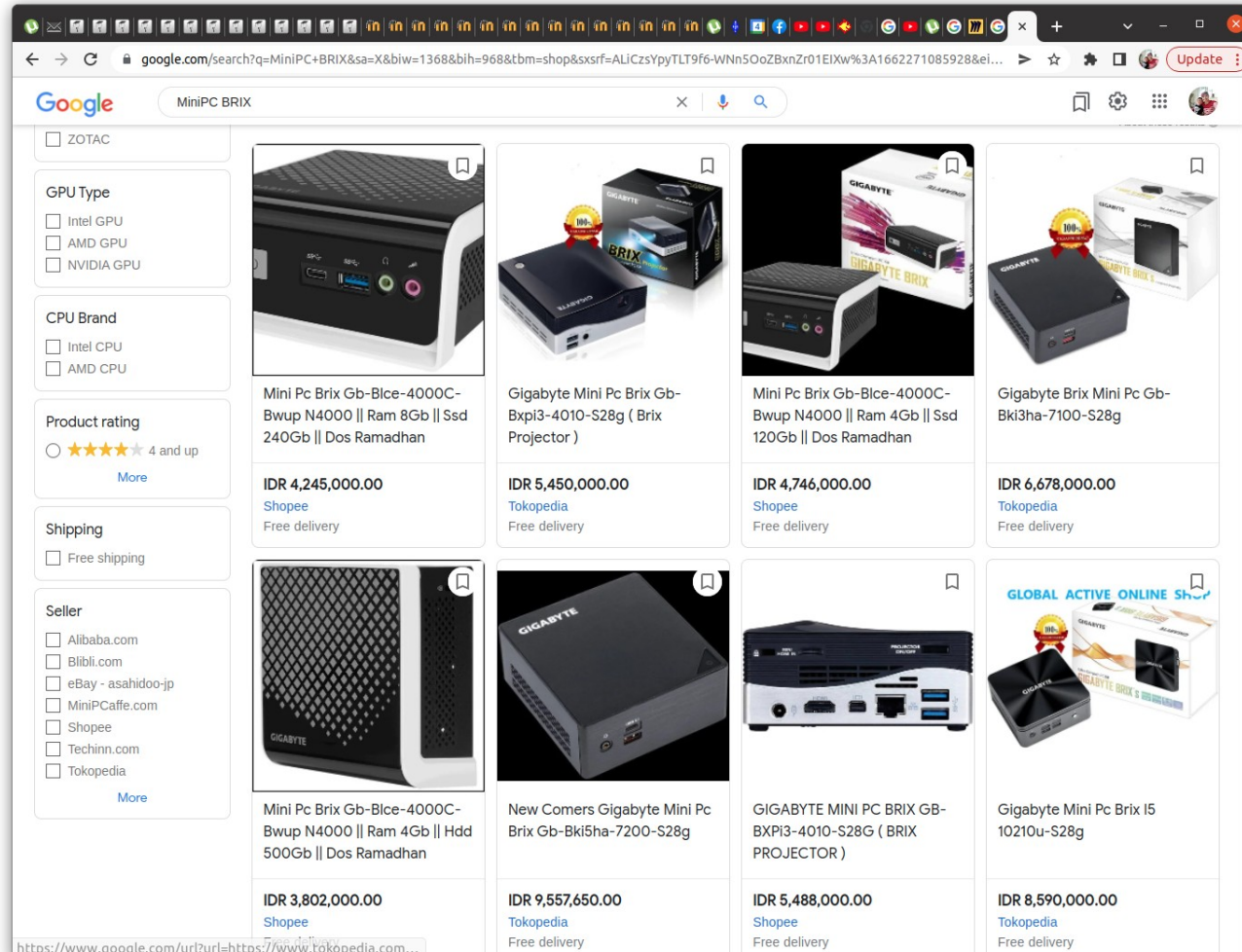


Server Local RaspberryPi 3+

- Rp 800-1+ juta



- Rp. 4-8 juta



Router Mikrotik 4 port

- Rp. 200-400.000

google.com/search?q=Router+Mikrotik+RB941&sa=X&biw=1368&bih=968&tbm=shop&sxrf=ALiCzY89rdPcFH6tz5YVUDVvWtOW7XNgVw%3A16622...

ROUTER MIKROTIK RB941

Show only
☐ On sale

Price
☐ Up to IDR 399,999.99
☐ IDR 399,999.99 – IDR 5...
☐ IDR 500,000 – IDR 599,999.99
☐ IDR 599,999.97 – IDR 7...
☐ Over IDR 799,999.98
IDR Min – IDR Max

Brand
☐ MikroTik
☐ Tenda

Product rating
☐ ★★★★★ 4 and up
More

Condition
☐ New items
☐ Used items

Shipping
☐ Free shipping

Seller
☐ Blibli.com
☐ Shopee

Ads - See Router Mikrotik RB941

Product Image	Product Name	Price	Store	Shipping
	Mikrotik Rb941 2nd Hap Lite	IDR 200,000.00	Tokopedia	
	Mikrotik RB941-2nd - HAP Lite	IDR 369,000.00	Tokopedia	
	Mikrotik RB941-2nd Router Wireless RB941 Mikrotik	IDR 365,400.00	Shopee	Free shipping
	Tp-Link Rasa Mikrotik Rb941-2nd Lisensi Level 4...	IDR 210,000.00	Tokopedia	
	Routerboard Mikrotik Rb941-2nd - Hap Lite	IDR 358,999.00	Tokopedia	
	Mikrotik Router Rb941-2nd-Tc Hap Lite Blue White	IDR 379,000.00	Tokopedia	Free shipping

About these results

Product Image	Product Name	Price	Store	Shipping
	Mikrotik Rb941-2nd-tc Router Blue	IDR 315,794.00	Techinn.com	IDR 216,202.00 delivery
	Mikrotik RB941-2nd (hAP-Lite)	IDR 370,000.00	Kost-net Solution	+Delivery
	Mikrotik Routerboard Rb941-2nd-Tc	IDR 362,000.00	Tokopedia	+Delivery
	routerboard mikrotik rb941 2nd hap lite	IDR 375,000.00	Bukalapak	IDR 10,000.00 delivery

Jaringan Wireless Jarak Jauh (Jika di Butuhkan)

- WiFi Jarak Jauh
- Modem 4G (kalau ada sinyal)
- VSAT (MAHAL)

Modem Orbit

- Rp. 300-700.000

google.com/search?q=modem+orbit+telkomsel&sa=X&biw=1368&bih=968&tbm=shop&sxrf=ALiCzsak9e2v1tOVYy49p-zx3ndLt8i-xQ%3A16622714...

modem orbit telkomsel

Price

- ☐ Up to IDR 59,999.99
- ☐ IDR 59,999.99 – IDR 250,000.00
- ☐ IDR 250,000.00 – IDR 500,000.00
- ☐ IDR 500,000.00 – IDR 1,000,000.00
- ☐ Over IDR 1,000,000.00

IDR Min – IDR Max

Brand

- ☐ Huawei
- ☐ Jio
- ☐ ZTE

Shipping

- ☐ Free shipping

Seller

- ☐ Blibli.com
- ☐ Lazada Indonesia
- ☐ Tokopedia

Ads · See modem orbit telkomsel



Pasang Baru Wifi IndiHome dan Orbit Telkomsel Indihome
IDR 275,000.00
Shopee
Free shipping



Orbit Star A1 Unlocked
IDR 375,000.00
Tokopedia
Free shipping



Telkomsel Orbit Star Lite Free Simpati 150GB...
IDR 599,000.00
Shopee
Free shipping



Telkomsel Orbit Star A1 Modem Wifi High Speed...
IDR 490,000.00
Tokopedia
Free shipping



Orbit Star Z1 ZTE MF293 Free 150GB High Speed Wifi...
IDR 649,000.00
Shopee
Free shipping



Orbit Star H1 Router Huawei B311 Free...
IDR 789,000.00
Shopee
Free shipping

About these results



Modem Orbit Telkomsel
IDR 960,000.00
Tokopedia
+Delivery



Modem Orbit Telkomsel New
IDR 500,000.00
Tokopedia
Free delivery



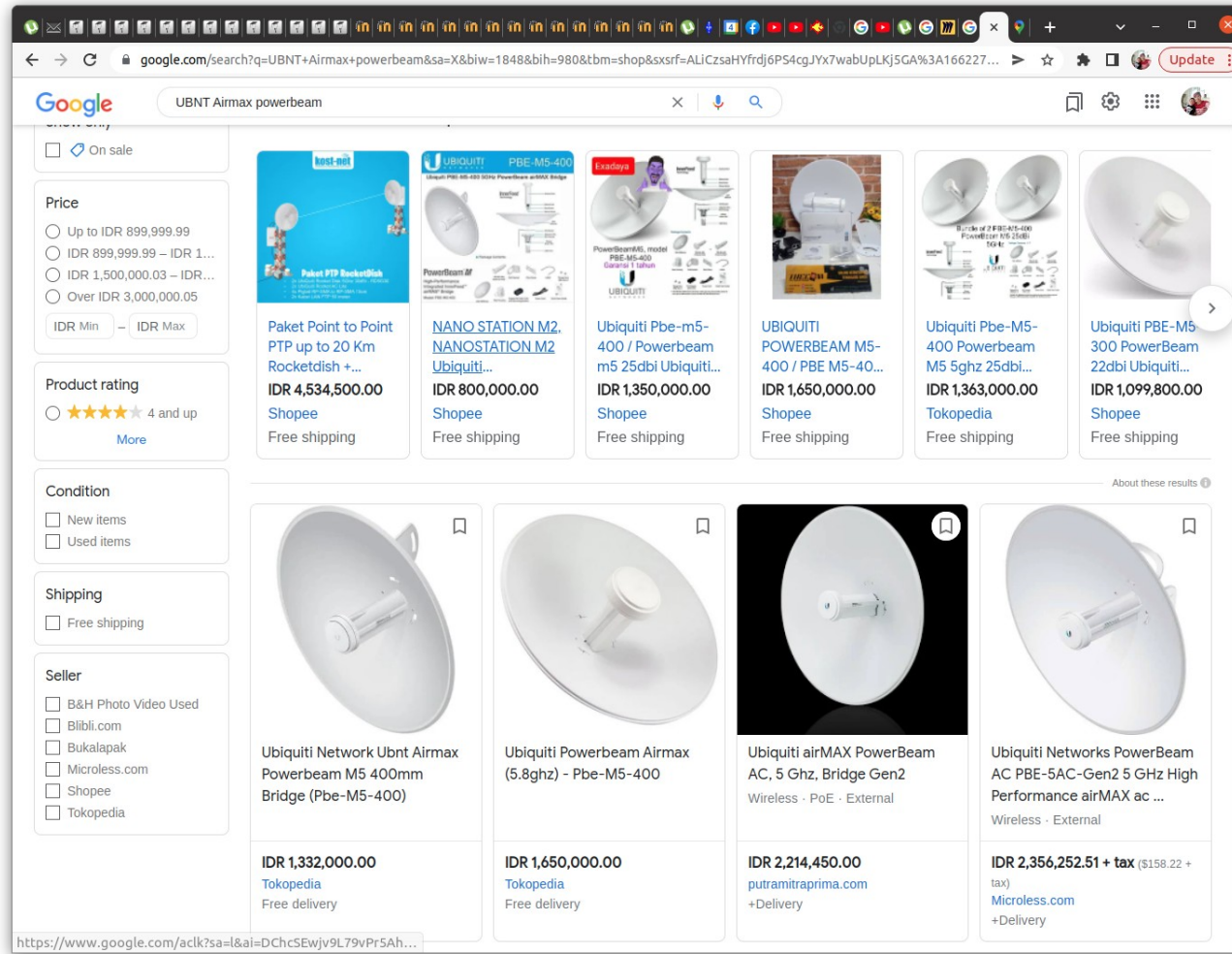
Advan Modem CPE Router Wlan Modem Wifi + Telkomsel Orbit 50GB
IDR 599,000.00
Lazada Indonesia
+Delivery



TELKOMSEL ORBIT STAR LITE Telkomsel
IDR 600,000.00
Shopee
Free delivery

Wireless Jarak Jauh

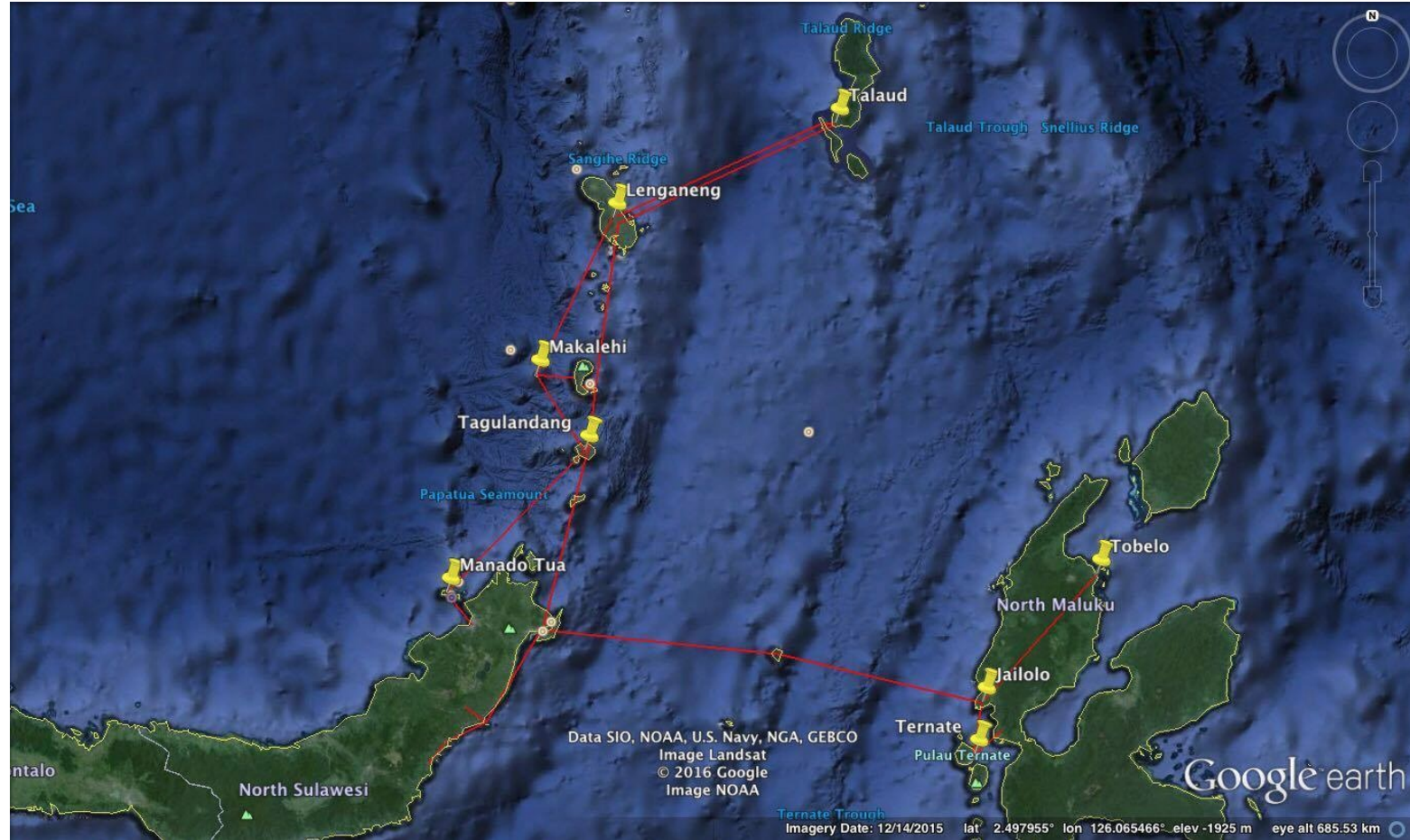
- Rp. 1-2 juta/unit
- Butuh 2 unit
- Butuh Tower
- 300-400Mbps
- Jarak max 50km



Contoh Jaringan di Lapangan

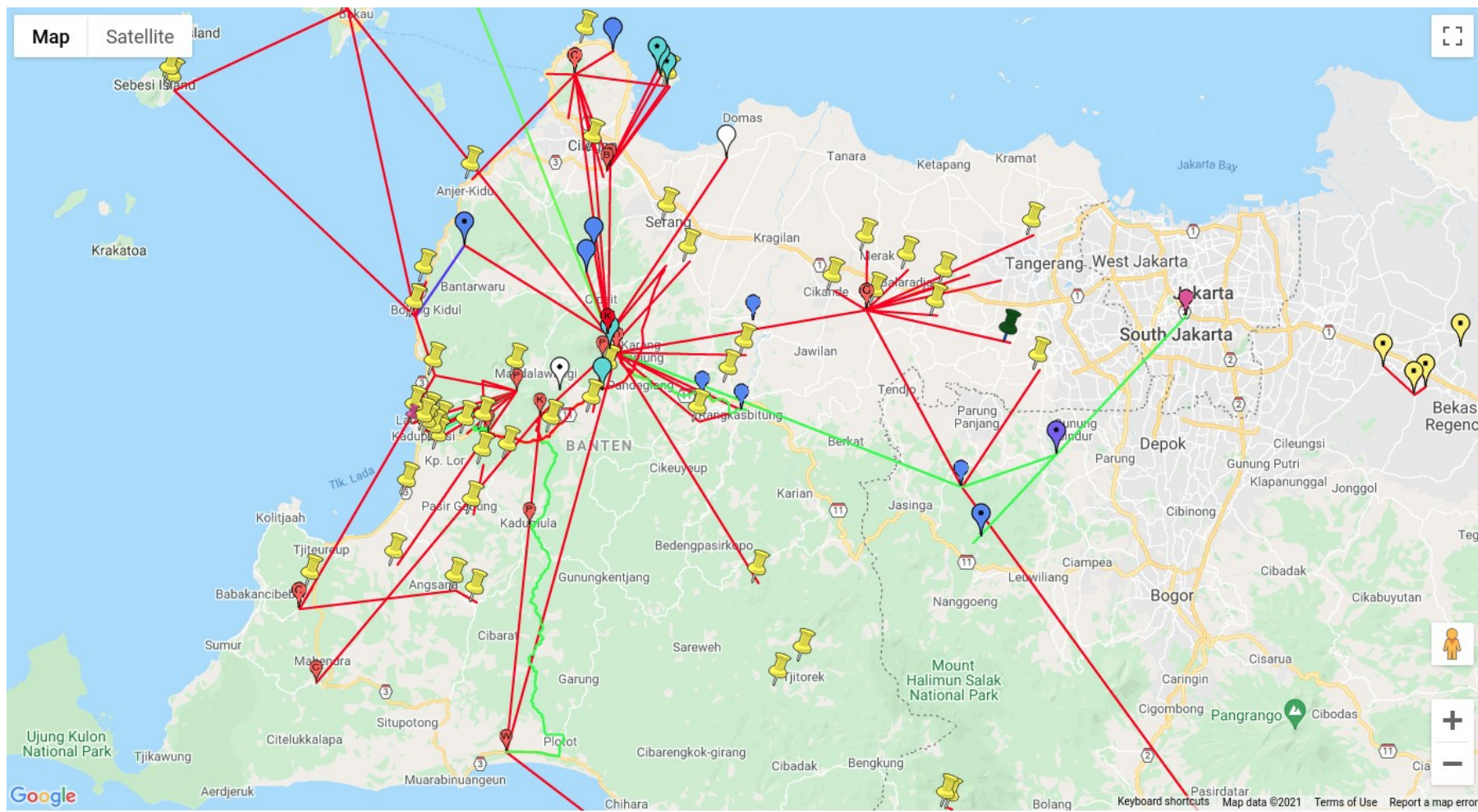
- Manado – Ternate – Talaud (600km)
- Desa Cipta Gelar (Fiber Optik)
- Desa2 di Garut (Fiber Optik)

Insan Balandatu dan Nielson Assa dari PT. Infotek Global Network



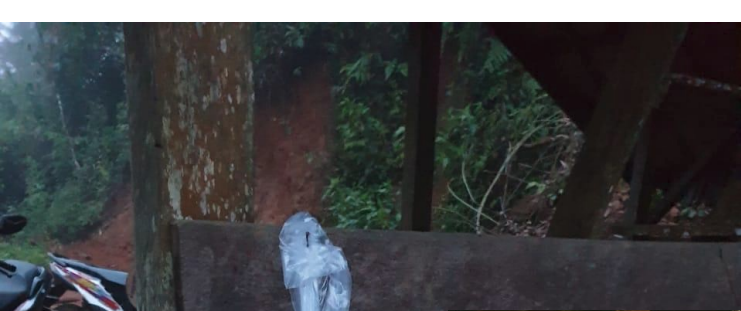


Awi.net.id BANTEN





Fiber Optik di Cipta Gelar



Donie Thambas Sukabumi



Salma.net.id Kawali/Garut/Tasik



Saran Strategi

- Investasi SDM – oleh Pemerintah
 - Melalui SMK / SMA
 - Melalui Kampus Lokal
- Investasi Jaringan – bisa operator, bisa rakyat.
- Investasi Alat - oleh Rakyat
 - Menjamin Sustainable

Terima Kasih

- Kunci Utama Bukan ALAT
- Kunci Utama → pemberdayaan Masyarakat.
- Demo System Tersedia ..