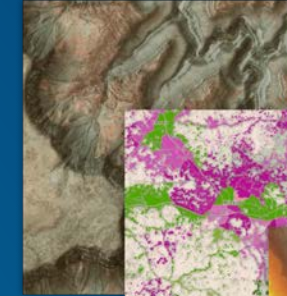


Definisi *GIS*

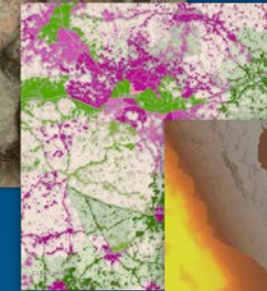
GIS adalah kumpulan yang terorganisir dari perangkat komputer, perangkat lunak, data geografis, dan personil yang dirancang secara efisien untuk memperoleh, menyimpan, mengupdate, memanipulasi, menganalisis, dan menampilkan semua bentuk informasi yang bereferensi geografi.



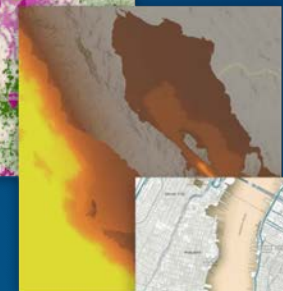
Layer Effects & Blending



Invert



Blending



Invert & Bloom

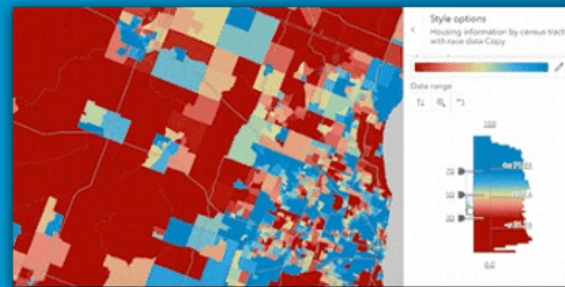


Drop Shadow

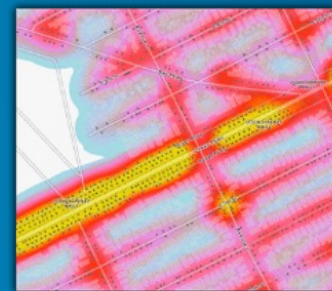
3D



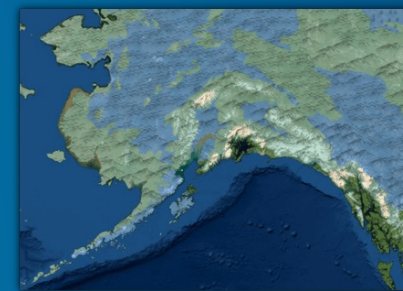
Interactive Maps / Charts



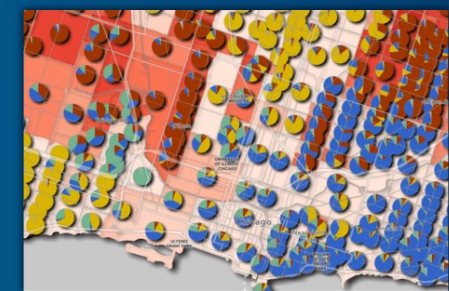
Heat Maps



Accessible for Vision Deficiency



Pie & Donut Charts



Outlines



Tentang GIS

(Geography Information System /Sistem Informasi Geografis)

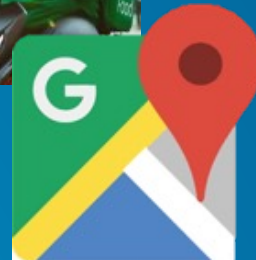
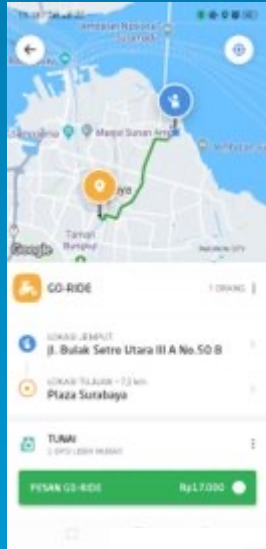
- Definisi
- Aplikasi
- Keunggulan
- Software / Perangkat lunak GIS



Tentang Esri

- End-to-end service
- Esri Indonesia portfolio

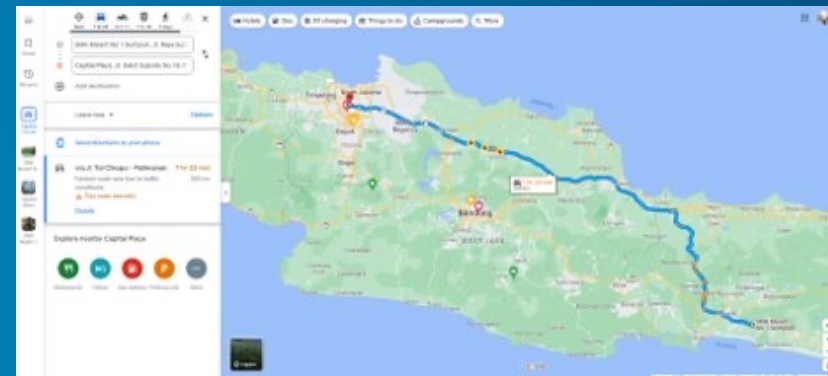
Pernahkah kamu menggunakan?



Used Google Maps, Apple Maps, or a GPS for directions ?



Then Congrats!!
You have used basic GIS!

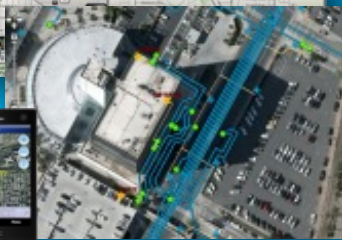
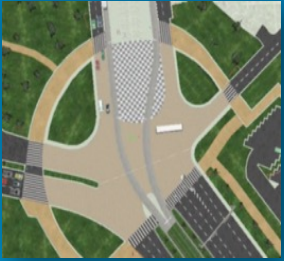


Aplikasi *GIS* | Contoh real-world



- Gunung Merapi – Oktober 2010
353 orang meninggal dunia
>320,000 orang kehilangan tempat tinggal
- Dimana?
 - Dimana kerusakan terparah terjadi?
 - Kemana lahar akan mengarah
 - Dimana petugas terdekat yang dapat merespon kejadian
 - Bagaimana profil demografi yang terdampak di lokasi?

Aplikasi *GIS*



- Bidang sumber daya alam (inventarisasi, manajemen, dan kesesuaian lahan untuk pertanian, perkebunan, kehutanan, perencanaan tata guna tanah dsb.)
- Bidang perencanaan (perencanaan pemukiman transmigrasi, tata ruang wilayah, pemukiman, dsb)
- Bidang perpajakan (SI untuk penarikan pajak, billboard yang terkait dengan data posisi, ruang, dan masa berlaku)
- Bidang ekonomi bisnis (penentuan lokasi Mesin ATM, kantor cabang, gudang, show room, dsb)
- Bidang pendidikan (penentuan lokasi pendidikan)
- Dll.

Keunggulan *GIS*

- Sangat efektif dalam membantu pembentukan pengetahuan, prasangka, dan anggapan terhadap lingkungannya secara visual
- Dapat memisahkan data-datanya, sehingga mampu menyajikan presentasi berbagai bentuk.
- Mampu menguraikan unsur di bumi dalam beberapa layer atau coverage data spasial, yang nantinya dipresentasikan dalam bentuk nyata
- Software yang digunakan bisa dikomunikasikan dengan software pengolah data atau bahasa pemrograman
- Dapat bertindak sebagai map-server atau GIS-Server yang siap melayani permintaan (query) melalui jaringan internet.

Software *GIS* = Esri

Dalam pembuatan GIS di perlukan software yang menyediakan fungsi tool yang mampu melakukan penyimpanan data, analisis dan menampilkan informasi geografis. Dengan demikian, elemen yang harus terdapat dalam komponen software GIS adalah:

- Tool untuk melakukan input dan transformasi data geografis
- Sistem Manajemen Basis Data (DBMS)
- Tool yang mendukung query geografis, analisa dan visualisasi
- *Graphical User Interface (GUI) untuk memudahkan akses pada tool geografi.*

Tentang Esri Indonesia

If **Facebook** is the "Who",
And **Google** is the "What",
Then **Esri** is the "Where"
Andre F Bourque,
Entrepreneur.com



" Esri's vision for location intelligence is to help organizations understand why things happen and when they happen, with the goal of gaining business advantage through better understanding. "

-The Forrester Wave, 2018

1

Market Leader

Leading the geospatial industry in mapping and spatial analytics

54

Years History

Esri was founded in California, USA by Jack Dangermond in 1969. Present in Indonesia since 1987

2200

Customers

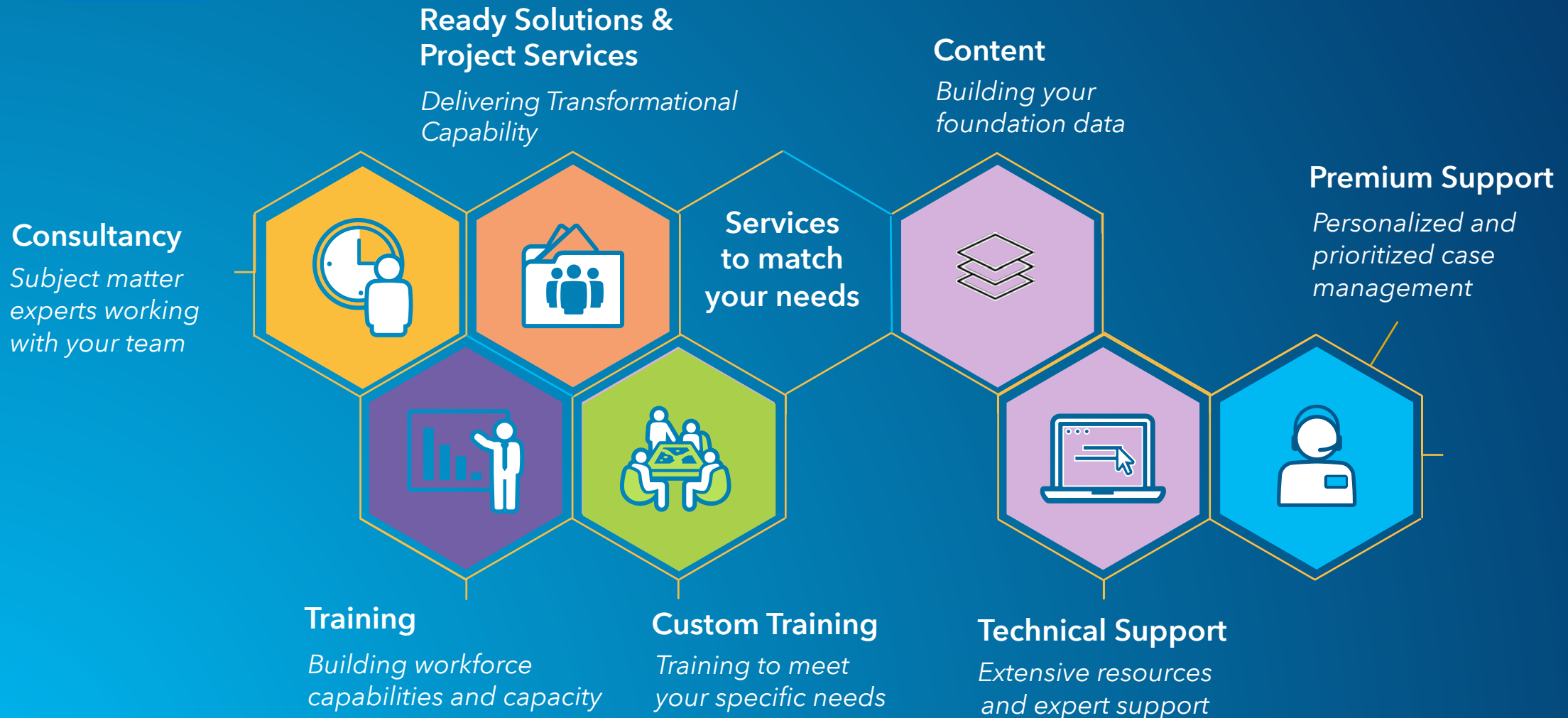
More than 2200 customers in Indonesia and 550,000 worldwide

100

Professionals

A team of geospatial and industry professionals servicing customer

End-to-end services & solusi geospasial



Our Global Users

National Government



US Geological Survey



Ordnance Survey UK



Environmental Protection Agency



Abu Dhabi Digital Authority



Centers for Disease Control



Land Registry Hong Kong



Singapore Land Authority



NASA



Geoscience Australia



US Census Bureau

National Security



US Department of Homeland Security



US Department of Defense



North Atlantic Treaty Organization



Central Intelligence Agency



International Hydrographic Organization



Ministry of Defense UK

Agriculture



US Department of Agriculture



AU Department of Agriculture



Fera Science UK



Sime Darby Plantation



Sinarmas Forestry



Peanut Company of Australia

Commercial



Starbucks



Carrefour



ANZ



Bank Muamalat

Local Government



City of Los Angeles



City of Boston



City of San Francisco



City of Toronto



Urban Redevelopment Authority Singapore



City of Charlotte

NGO



United Nations



World Health Organization



UNICEF



IFRC

Utilities



DUKE Energy



Perusahaan Listrik Negara



Power & Water Corp



Dubai Electricity & Water Authority



Korea Electric Power Corp



AT&T

Oil & Gas



Chevron



Shell



British Petroleum

Transportation



US Department of Transport



Transport for London



Schiphol Group



FedEx



UPS



General Motors



JLL



AEON



British American Tobacco

Serving 2200+ Organizations in Indonesia

Government



Retail & Manufacture



AEC



Real Estate & Property



Bank & FSI



Transportation



Utilities



Oil and Gas



Mining



PFA



ArcGIS System

- A complete geospatial solution



ArcGIS Pro



ArcMap



ArcGIS Online



ArcGIS Enterprise



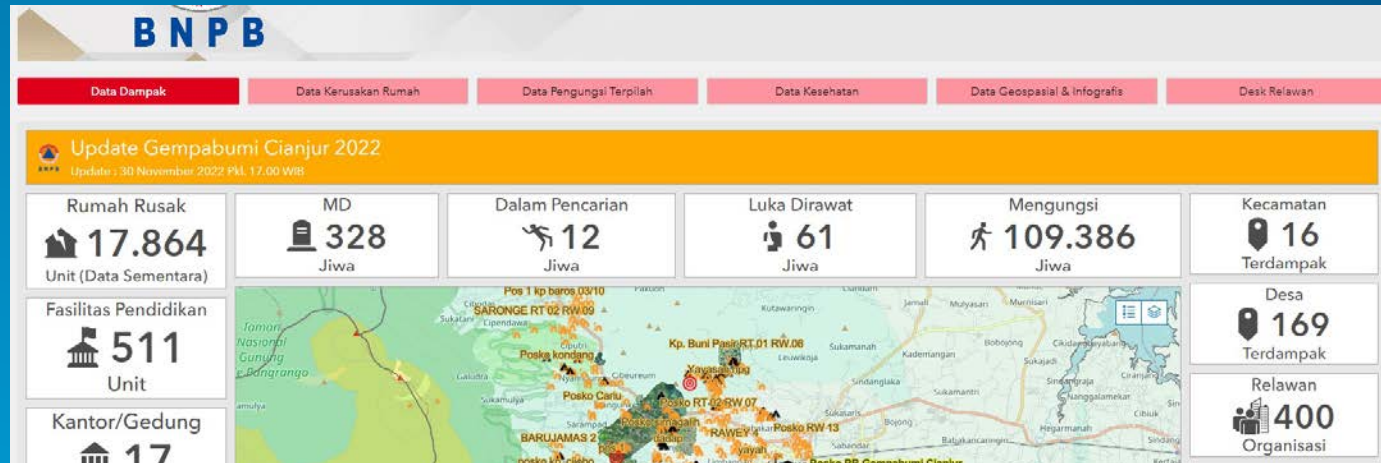
ArcGIS Apps



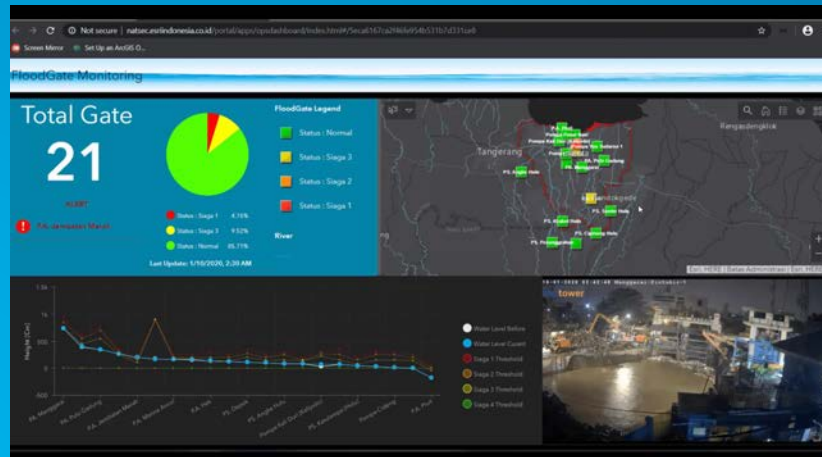
ArcGIS for Developers

Cianjur – Rapid response

<https://gempacianjur-essc.hub.arcgis.com/>



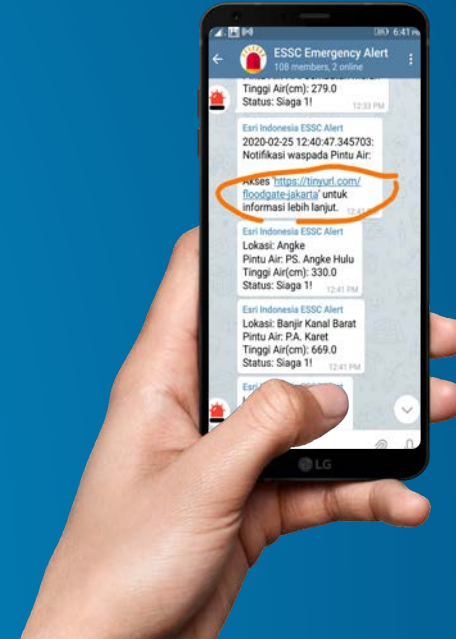
Disaster Mitigation Flood Gate



[Join Chat Emergency Alert](#)

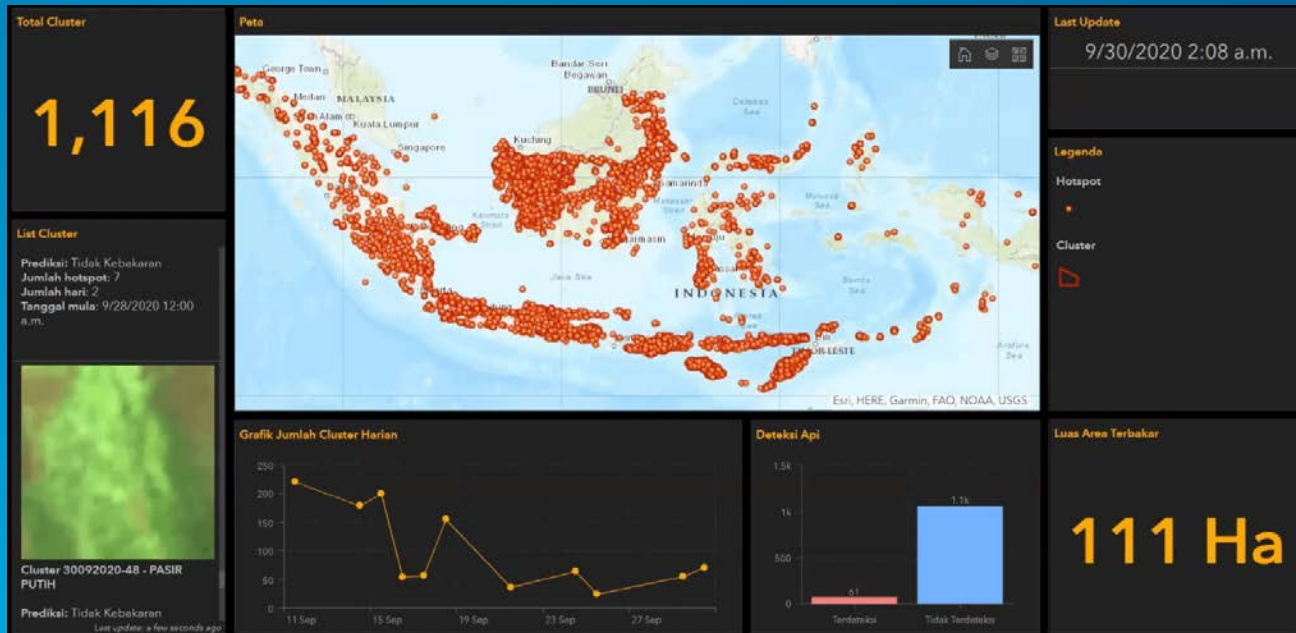
[Chatbot Esri](#)

[Portal Banjir Jakarta](#)

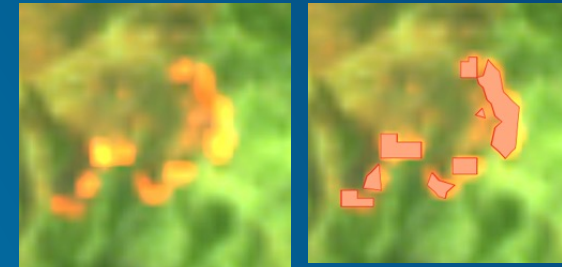


Emergency Management

Result



Automated Forest and Land Fire Detection



Impact Analysis



Find Pattern of Hotspots

Precision Plantation



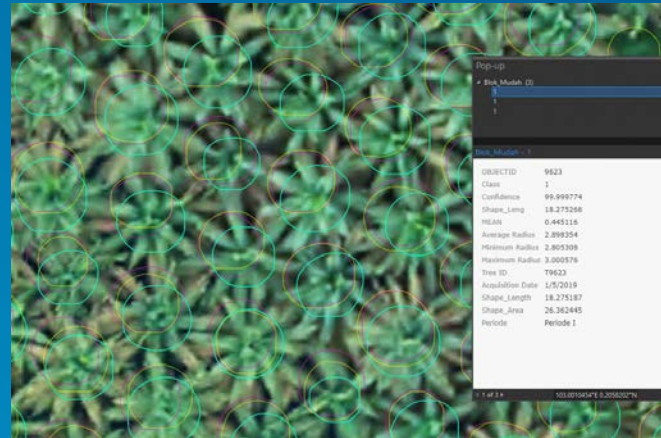
<https://arcg.is/0rm5XL>

Tree Detection



Health Analysis

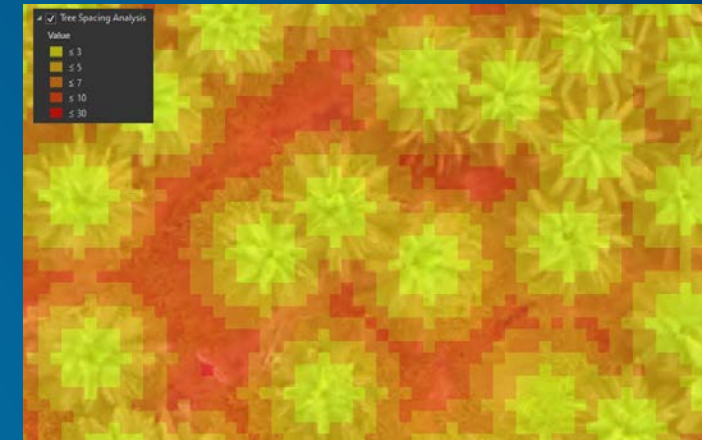
Temporal Analysis



Crown Size Analysis



Blankspot Analysis 1



Blankspot Analysis 2



Palm Oil Anomaly, Nutrient Deficiencies Detection and Fertilizer Need Assessment

Informasi per Blok Kebun

011C

Luas : 1.120447 (ha)
 Sawit : 140 (p)
 Produksi Potensial : 2,009.99 (kg/bulan)
 Produksi Aktual : 1,485.96 (kg/bulan)
 Potensi Kerugian : 26.07 %

013A

Luas : 3.932549 (ha)
 Sawit : 463 (p)
 Produksi Potensial : 4,149.42 (kg/bulan)
 Produksi Aktual : 3,293.54 (kg/bulan)
 Potensi Kerugian : 20.63 %

013C

Luas : 6.322415 (ha)
 Sawit : 750 (p)
 Produksi Potensial : 10,520.69 (kg/bulan)
 Produksi Aktual : 8,479.68 (kg/bulan)
 Potensi Kerugian : 19.40 %

012C

Luas : 12.564651 (ha)
 Sawit : 1086 (p)
 Produksi Potensial : 14,418.78 (kg/bulan)
 Produksi Aktual : 11,683.72 (kg/bulan)
 Potensi Kerugian : 18.97 %

012B

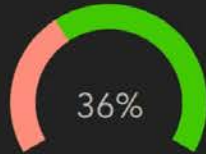
Luas : 24.530889 (ha)
 Sawit : 2922 (p)
 Produksi Potensial : 30,603.84 (kg/bulan)
 Produksi Aktual : 14,231.9 (kg/bulan)

Total Sawit (p)

8332

Last update: a few seconds ago

Presentasi Anomali vs Normal

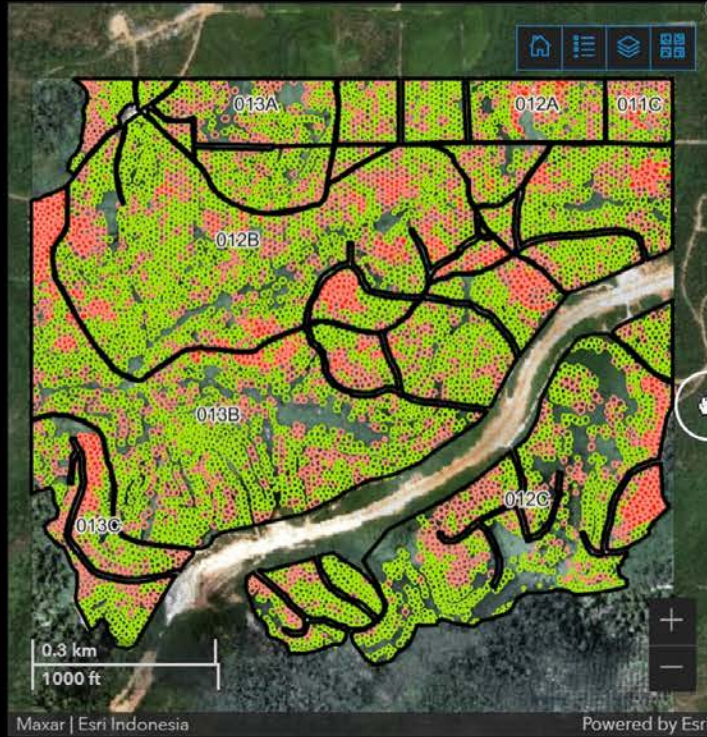


Anomali (p)

3017

Normal (p)

5315



Dosis dan Kebutuhan Pupuk Sawit Anomali (kg/p)

013A-1

	UREA	RP	MOP	DOI
Dosis S1	1.5	1.5	1	1.5
Dosis S2	1	1.5	1	0
Kebutuhan S1	2.3	2.3	1.5	2.3
Kebutuhan S2	1.3	1.9	1.3	0

013A-2

	UREA	RP	MOP	DOI
Dosis S1	1.5	1.5	1	1.5
Dosis S2	1	1.5	1	0
Kebutuhan S1	2.3	2.3	1.5	2.3
Kebutuhan S2	1.3	1.9	1.3	0

013A-3

	UREA	RP	MOP	DOI
Dosis S1	1.5	1.5	1	1.5
Dosis S2	1	1.5	1	0

Dosis dan Kebutuhan Pupuk Sawit Normal (kg/p)

013A-11

	UREA	RP	MOP	DOI
Dosis S1	1.5	1.5	1	1.5
Dosis S2	1	1.5	1	0
Kebutuhan S1	1.5	1.5	1	1.5
Kebutuhan S2	1	1.5	1	0

013A-15

	UREA	RP	MOP	DOI
Dosis S1	1.5	1.5	1	1.5
Dosis S2	1	1.5	1	0
Kebutuhan S1	1.5	1.5	1	1.5
Kebutuhan S2	1	1.5	1	0

013A-16

	UREA	RP	MOP	DOI
Dosis S1	1.5	1.5	1	1.5
Dosis S2	1	1.5	1	0

Rerata Produksi Aktual

11650.6

(kg/bulan)

Rerata Kerugian

20%

Total Produksi (kg/bulan)



Rerata Produksi

14231.9

(kg/bulan)

Semester 1 (S1) Dosis Kebutuhan

Urea (kg)

10425.5

12345.1

RP (kg)

12499.5

14817.8

MOP (kg)

10407.0

12351.3

DOL (kg)

12499.5

14817.8

Semester 2 (S2) Dosis Kebutuhan

Urea (kg)

8333.0

9106.0

RP (kg)

10425.5

11385.3

MOP (kg)

4185.0

4559.2

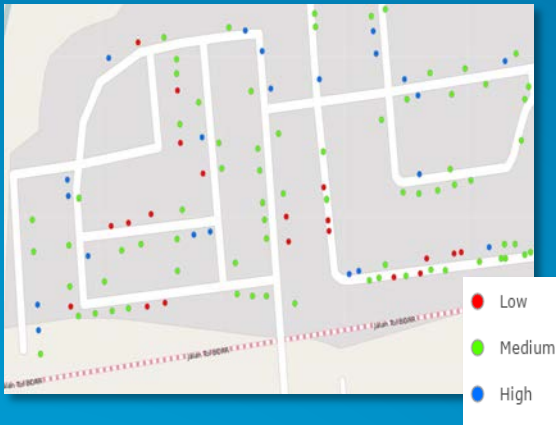
DOL (kg)

0

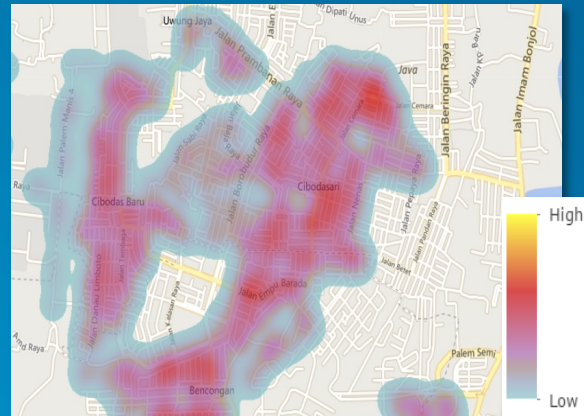
0

Telekomunikasi

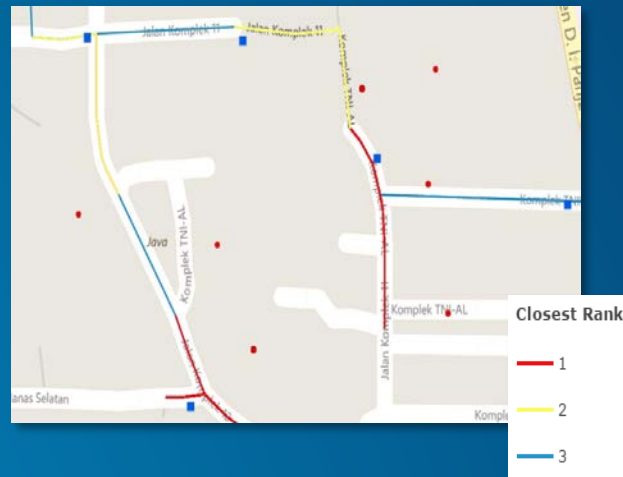
Customer Segmentation



Service Availability

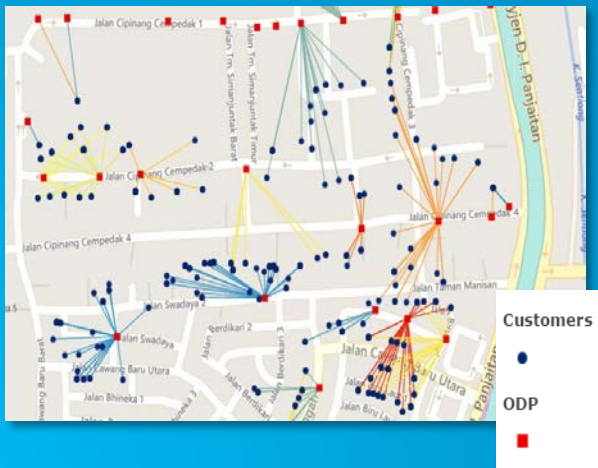


Finding Closest Service

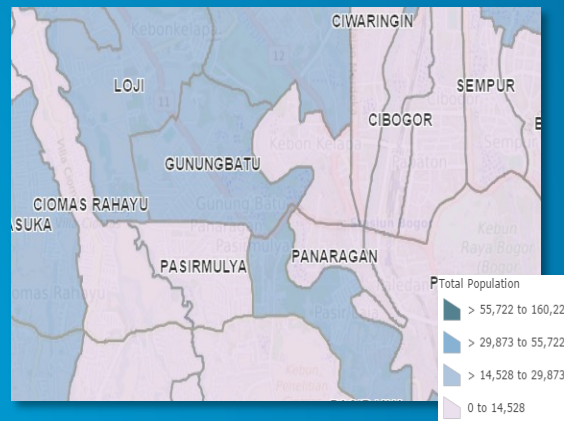


Subscribers :
Targeting 4.000.000
IndiHome triple-play
customers by end-2016

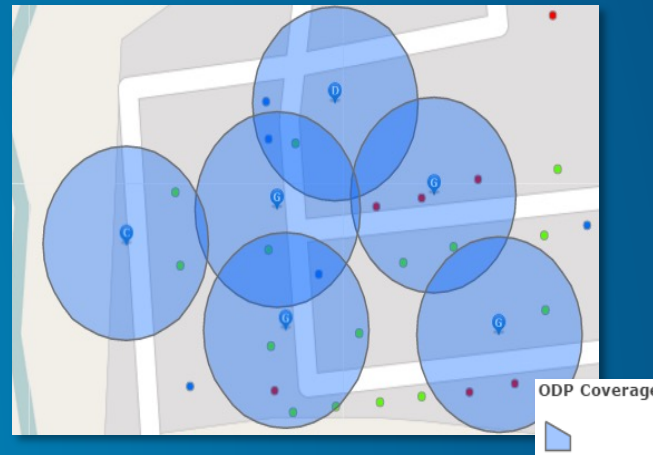
Service Connectivity



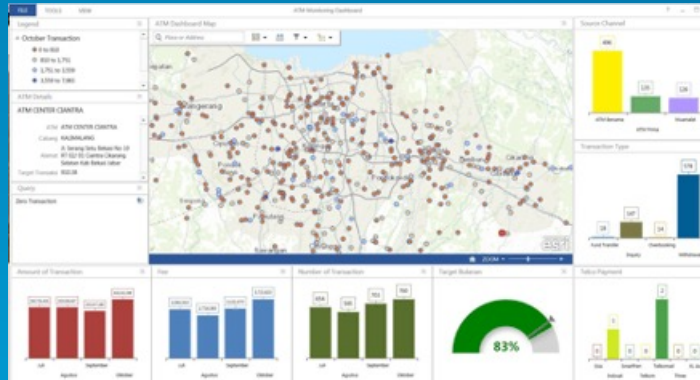
Demographic Analysis



Coverage Analysis



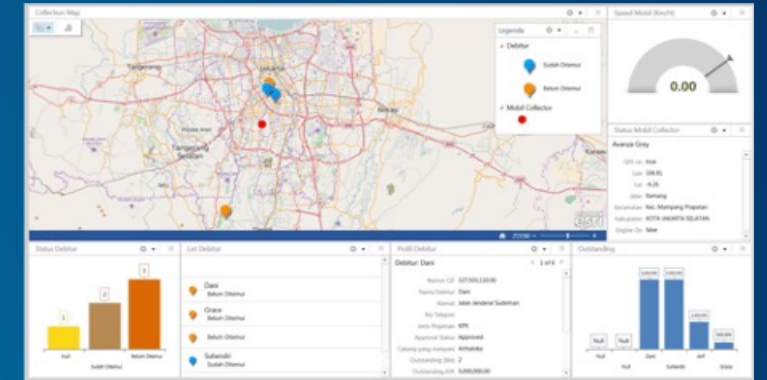
Perbankan



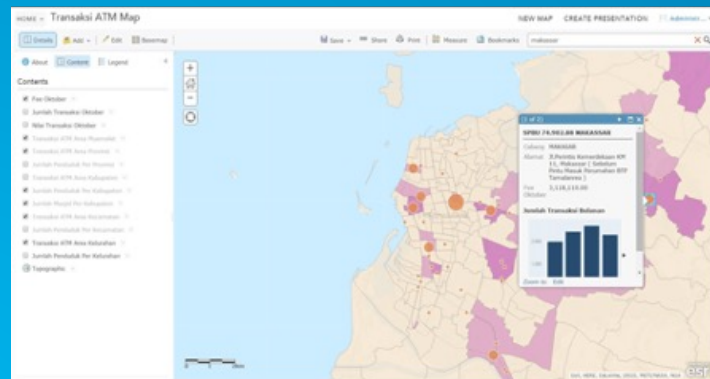
ATM Dashboard



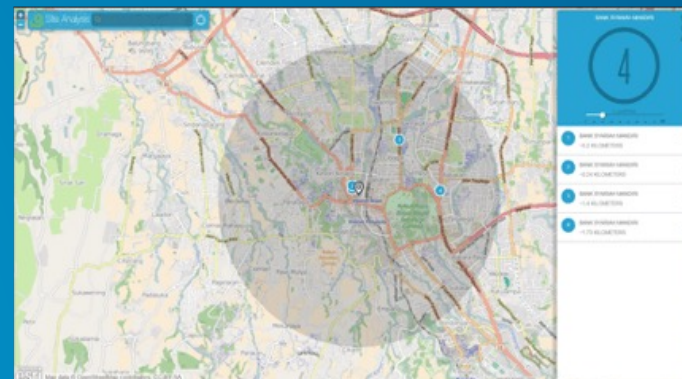
Branch Dashboard



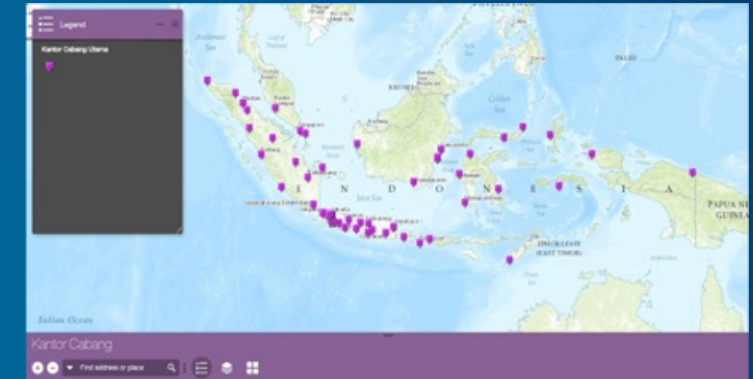
Live Tracking



Transaction per ATM



Site Analysis



Branch Network

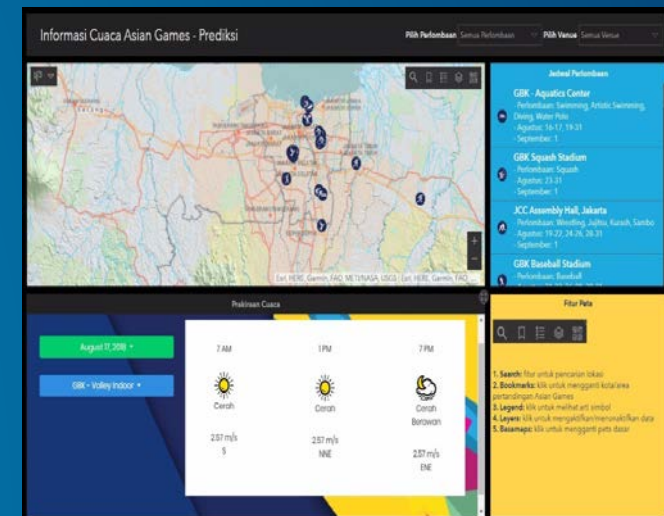
Asian Games 2018 mengandalkan GIS



Interactive Real-Time Weather



Smart-Weather Forecast



Status Pintu Air

Babattoman - 5.13m

Cuaca di Sumatera Selatan

Muara Rumpit - Hujan Ringan

Muaradua - Hujan Petir

Musirawas - Hujan Petir

Pagar Alam - Hujan Petir

Palembang - Hujan Lokal

Pangkalan Balai - Berawan

Prabumulih - Hujan Ringan

Sekayu - Hujan Petir

Talang Ubi - Hujan Petir

Laporan Surveyor

Terendam - 3/7/2018, 5:54 PM

Terendam - 3/7/2018, 3:17 PM

Terendam - 3/5/2018, 2:03 PM

Terendam - 3/5/2018, 2:02 PM

Last update: a few seconds ago

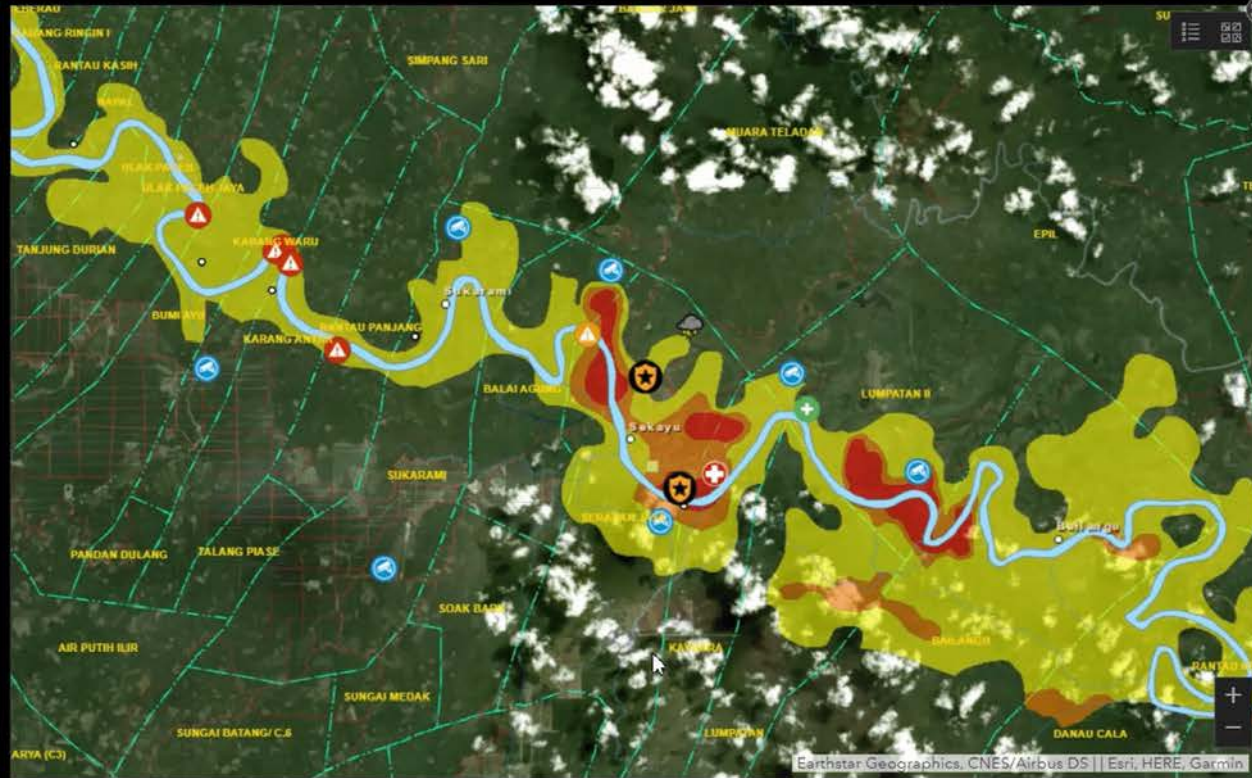


Image 1



Last update: 2 minutes ago

Tinggi Air Saat ini



Last update: a few seconds ago

Jumlah warga terdampak per-kelurahan



Rentang usia warga terdampak

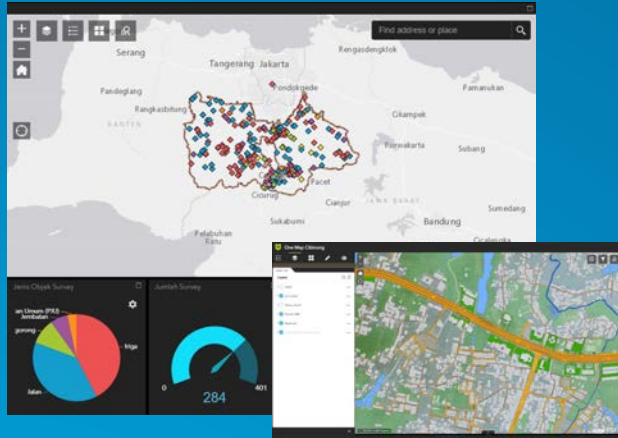


CCTV Aktif

36

Actionable Insight untuk Pemimpin Daerah

Bogapeta Kabupaten Bogor



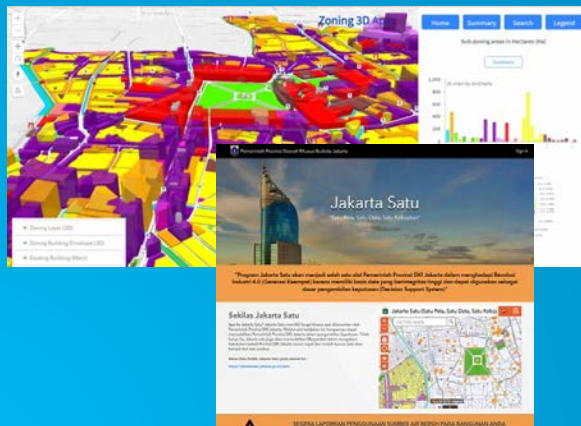
Live Room Kota Tangerang



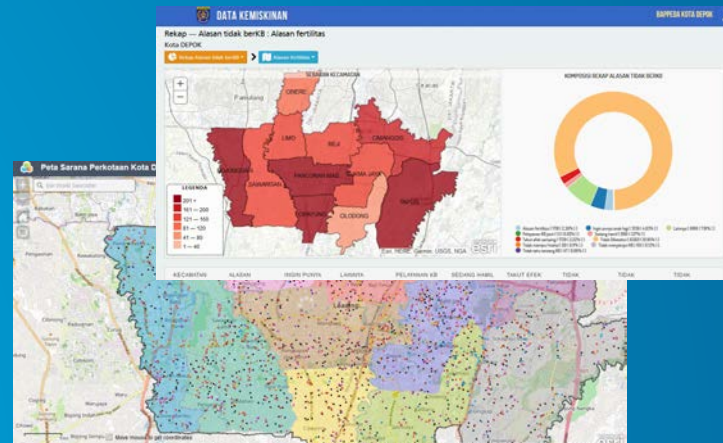
Portal GIS Covid Kota Palembang



Jakarta Satu Pemrov DKI Jakarta



Geoportal Data Kota Depok

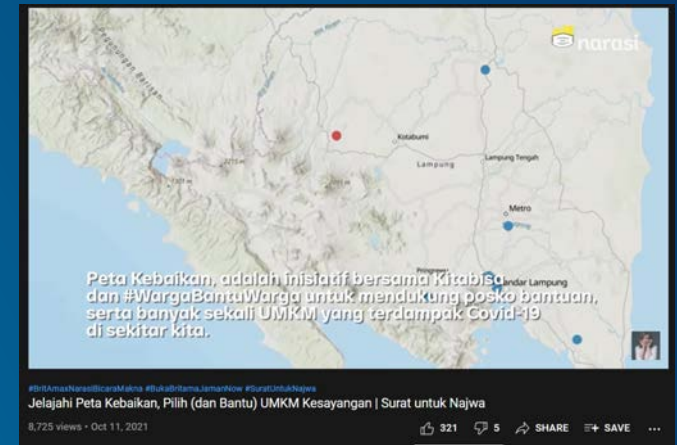
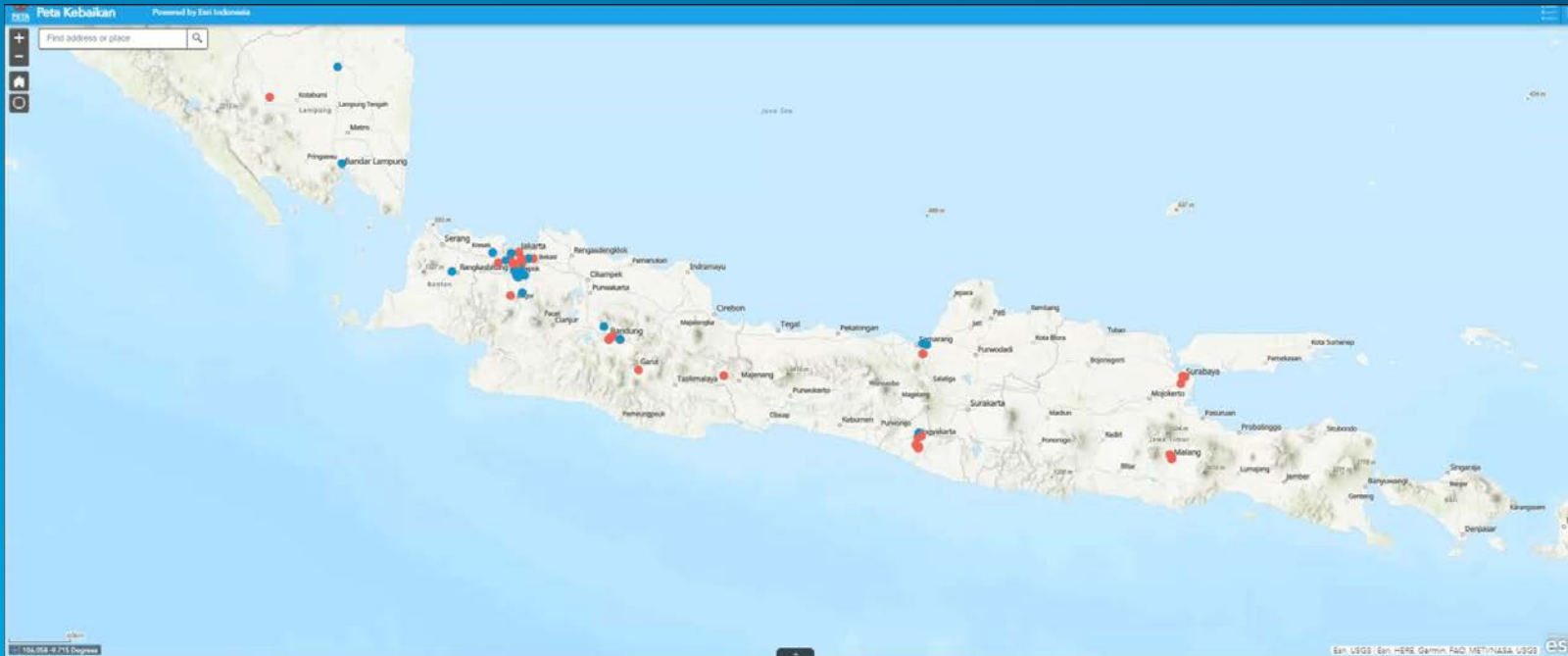


Geoportal Data PUPR Maluku Utara



and many more ...

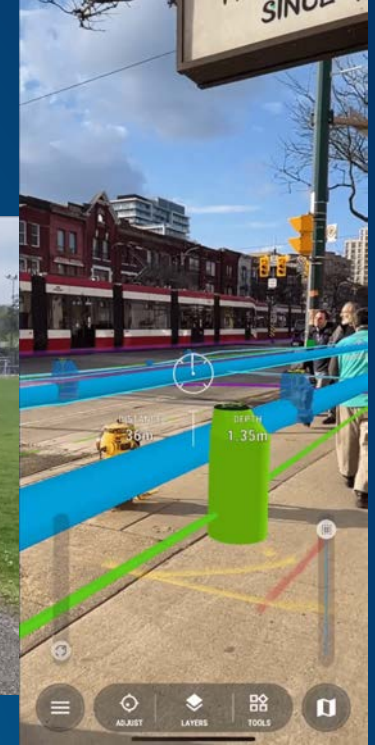
Initiatives to help others with GIS



Perencanaan Tata Kota



AR & Digital Twins



Pengembangan Game dengan GIS



Smart CCTV Monitoring

