



Budget Evaluation Dashboard of Health Sector, using West Java Data as Future Benchmark for Other Province

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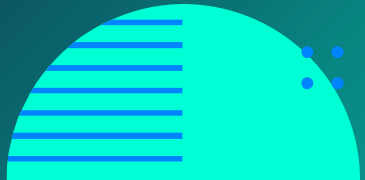
Analysis about Health Facility
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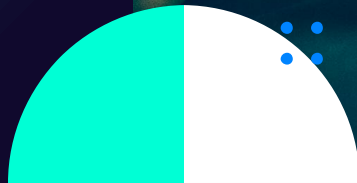
Summary and Recommendation

Our recommendation based
on our summarized analysis



01.

Background





Background

We need to analyze expenditure budget whether the usage is already right on target or not

Why choose West Java as Benchmark?

Biggest Regional Overall Budget

Data Availability



Background

Why choose West Java as Benchmark?



Total Seluruh Anggaran Daerah

Provinsi	Nilai Anggaran (trilyun rupiah)
Jawa Barat	166.15
DKI Jakarta	166.03
Jawa Tengah	164.17
Jawa Timur	153.43
Aceh	
Papua	
Banten	55.41
Sumatera Utara	55.41
Lampung	47.62
Sumatera Selatan	47.34

Biggest Regional Overall Budget

West Java has **the biggest overall budget** compared to other province.

<https://opendata.jabarprov.go.id>

[Open Data Jabar](#)

Portal resmi **data** terbuka milik Pemdaprov **Jawa Barat** yang berisikan **data-data** dari Perangkat Daerah di lingkungan Pemdaprov **Jawa Barat** guna memenuhi ...

[Dataset](#)

Temukan kumpulan data-data mentah berupa tabel yang bisa ...

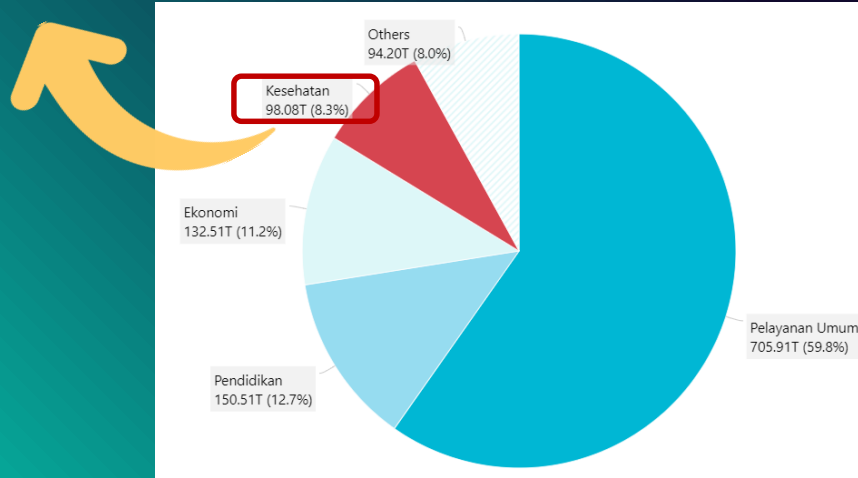
Data Availability

West Java have official website with really **good data availability** that accessible for public.

Background

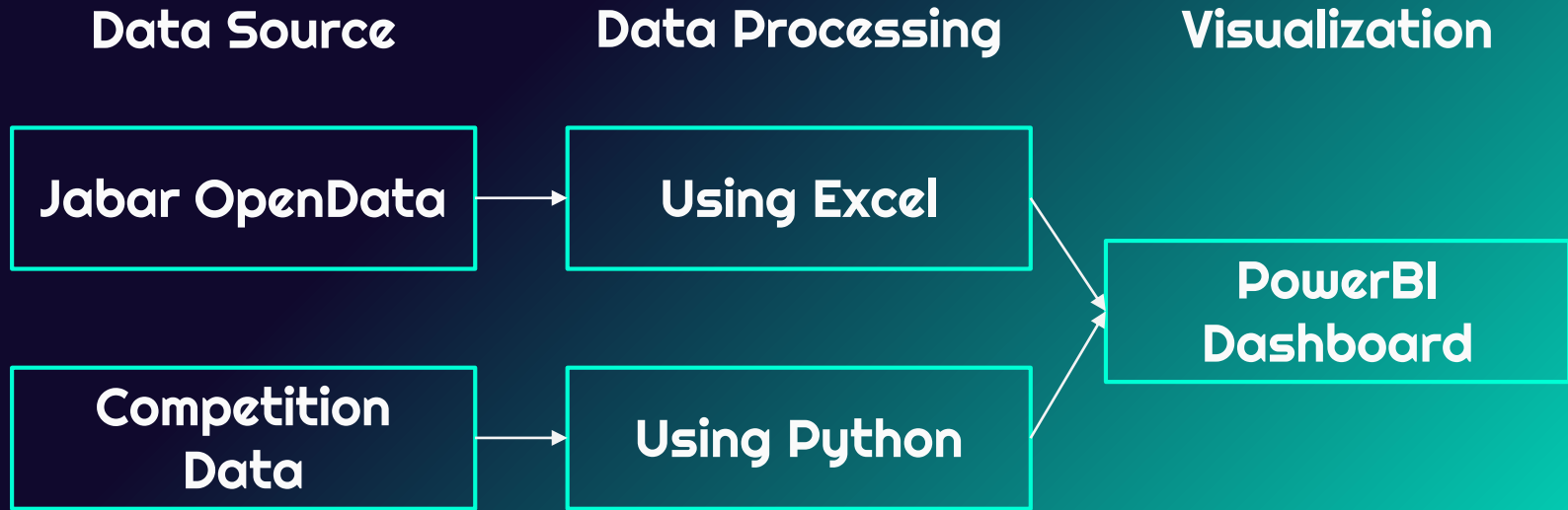
Why choose health sector?

1. It's aligned with this Hackathon's **theme**.
2. Based on our research, **only 8.30%** of the budget was spent for health sector, while it's one of the most **important** aspect in our life



Based on our opinion, expenditure of the health budget can be **increased** or at least should be analyzed so it could be **allocated more effectively** in the future

Data Flow



02.

Sickness to Budget Analysis



Analisa Anggaran Kesehatan Jawa Barat dengan Penyakit

8.77%

0.03

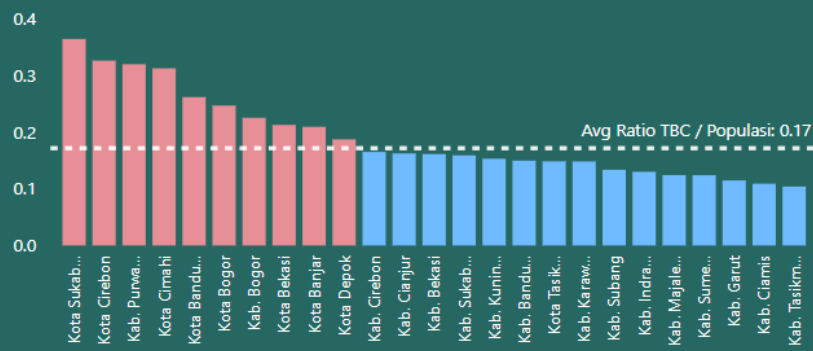
0.17

Perbandingan Anggaran per Populasi (kiri) dengan TBC / Populasi (kanan)

Average of % bayi stunting

Avg Ratio Pasien DBD Meninggal per Populasi

TBC / populasi

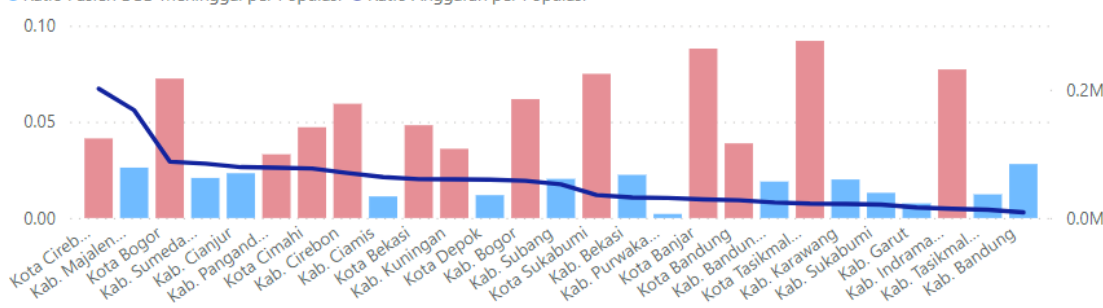


% Stunting Per Daerah (urut berdasarkan anggaran)

Nama Daerah	Bayi Stunting	Anggaran / Populasi (juta)
Kota Cirebon	12.43%	0.20
Kab. Majalengka	3.76%	0.17
Kota Bogor	5.80%	0.09
Kab. Sumedang	10.58%	0.08
Kab. Cianjur	7.55%	0.08
Kab. Pangandaran	8.40%	0.08
Kota Cimahi	10.96%	0.08
Kab. Cirebon	10.52%	0.07
Kab. Ciamis	7.68%	0.06

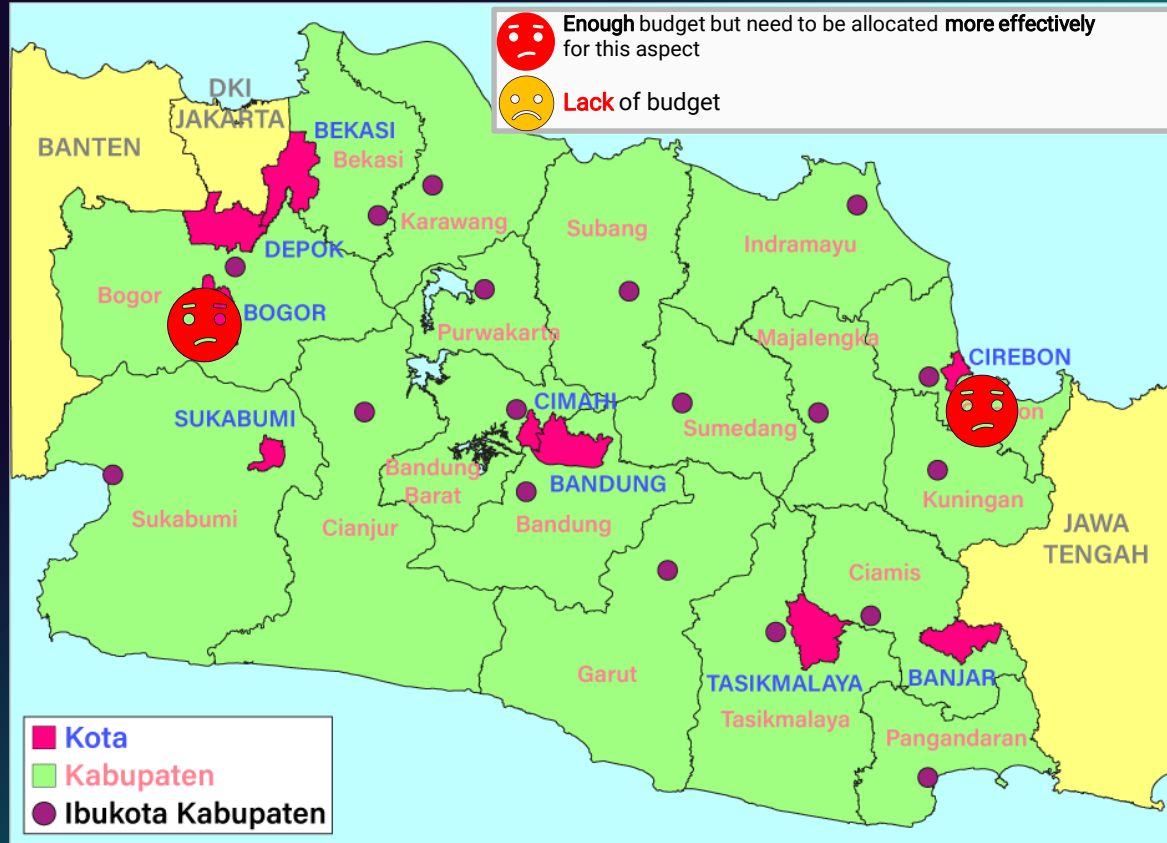
Analisis Kasus Meninggal karena DBD per Daerah

Ratio Pasien DBD Meninggal per Populasi Ratio Anggaran per Populasi



TBC Case Analysis

0.17*
Average of TBC Case per
Population

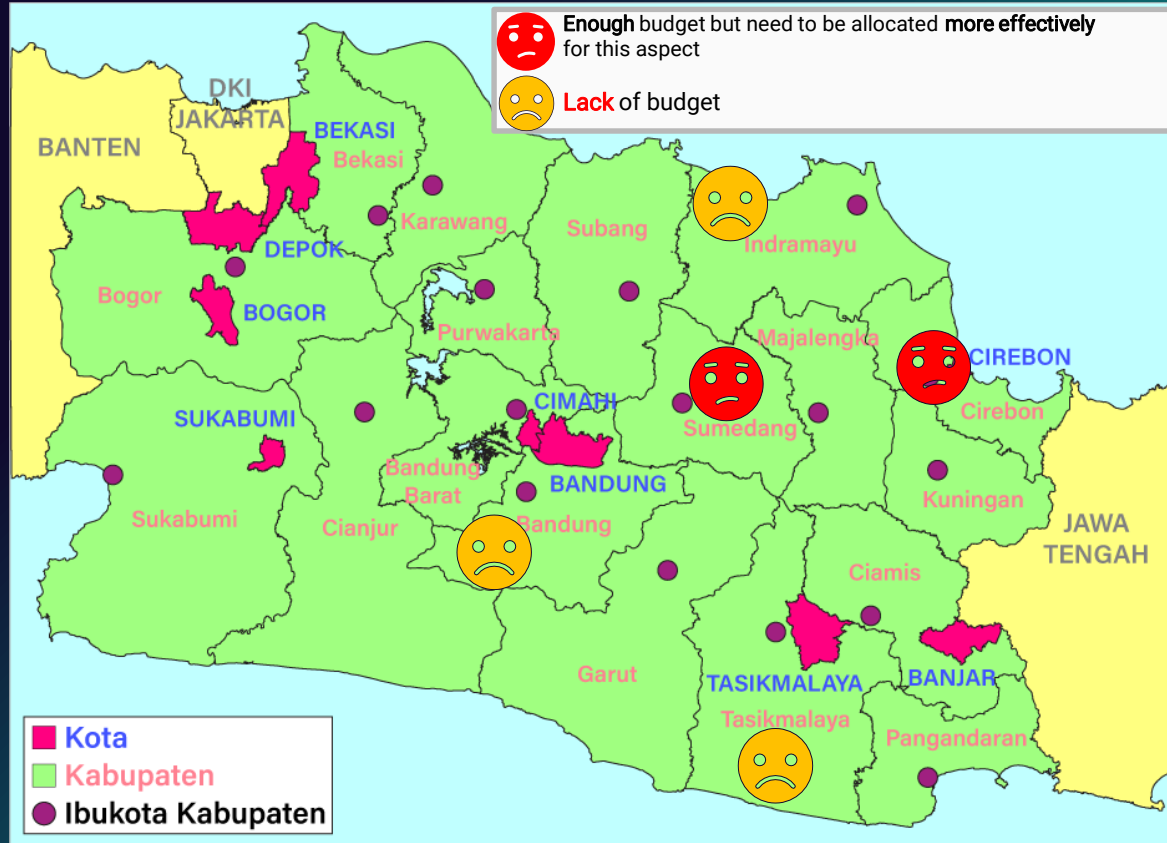


* Because the original ratio is **small**, then we multiply the result by 100 to make it **easier** to be read

Stunting Percentage Analysis

8.77%

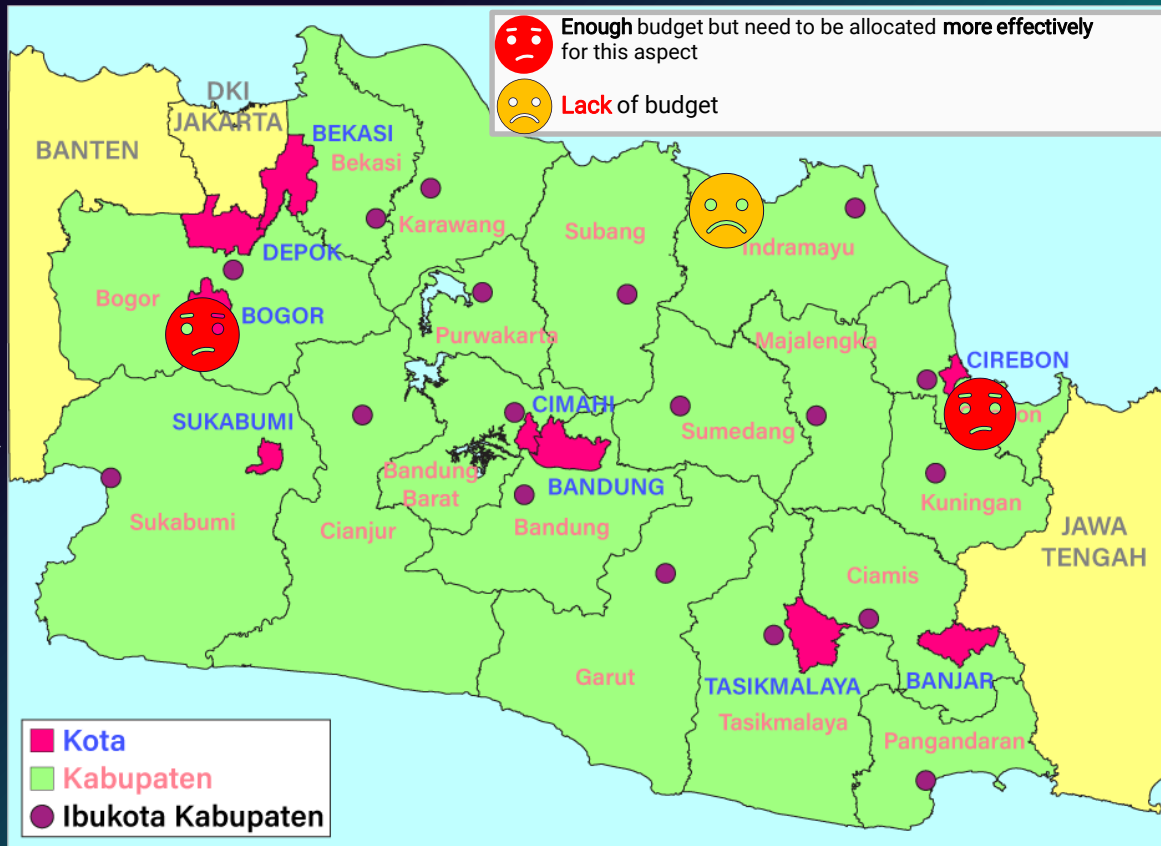
Average of
Stunting Percentage



Death by Dengue Fever Analysis

0.03*

Average of Death by
Dengue Fever per
total population



* Because the original ratio is **very small**, then we multiply the result by 10.000 to make it easier to be read

03.

Health Facility to Budget Analysis



Analisa Anggaran Kesehatan Jawa Barat dengan Fasilitas

0.19

0.02

93.6%

Perbandingan Anggaran per Populasi (kiri) dengan Ratio Faskes/Populasi (kanan)

Ratio Faskes per Populasi

Ratio Nakes per Populasi

Avg of % Cakupan Ketersediaan Vaksin

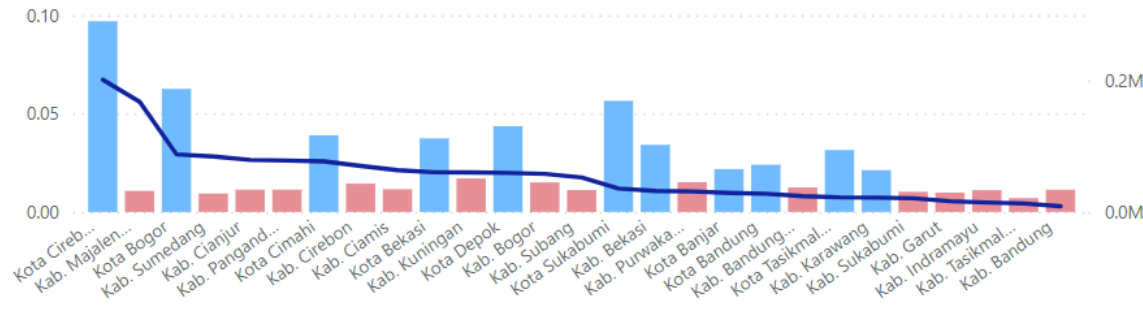


% Cakupan Faskes dengan Ketersediaan Vaksin > 80% Per Daerah (urut berdasarkan anggaran)

Nama Daerah	% Faskes	Anggaran / Populasi (juta)
Kota Cirebon	100.00	0.20
Kab. Majalengka	65.63	0.17
Kota Bogor	100.00	0.09
Kab. Sumedang	97.14	0.08
Kab. Cianjur	59.57	0.08
Kab. Pangandaran	86.67	0.08
Kota Cimahi	100.00	0.08
Kab. Cirebon	98.33	0.07
Kab. Ciamis	86.49	0.06

Analisis Ratio Tenaga Kesehatan per Populasi

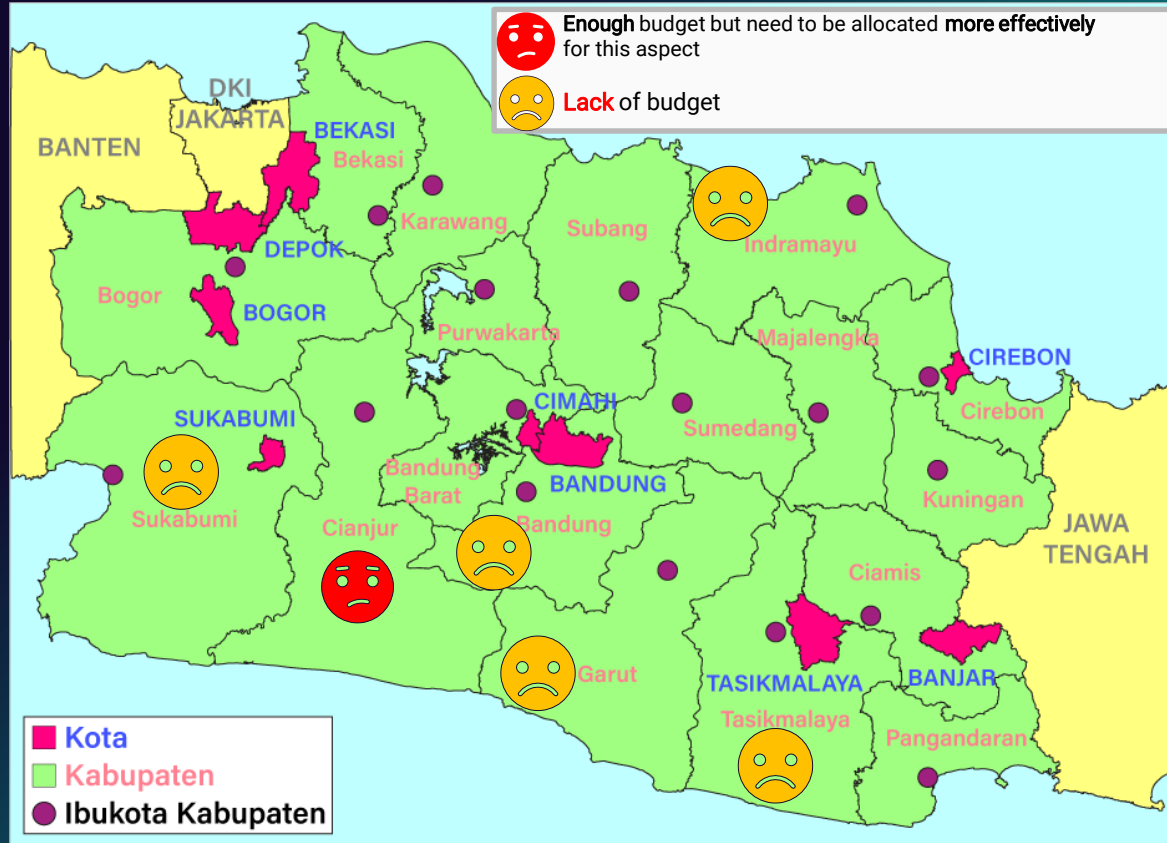
Ratio Nakes / Populasi Ratio Anggaran / Populasi



Health Facility to Population Analysis

0.19*

Ratio of Health Facility to
Population

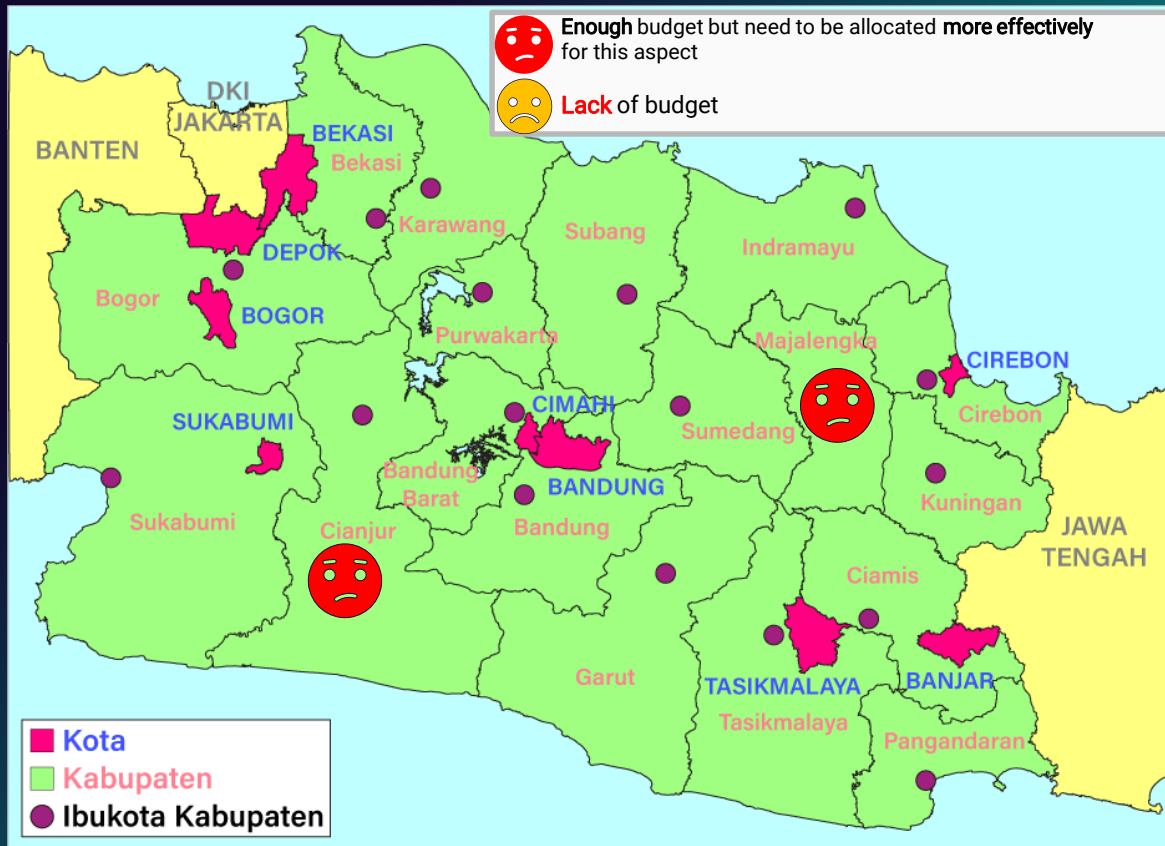


* Because the original ratio is **very small**, then we multiply the result by 10.000 to make it **easier** to be read

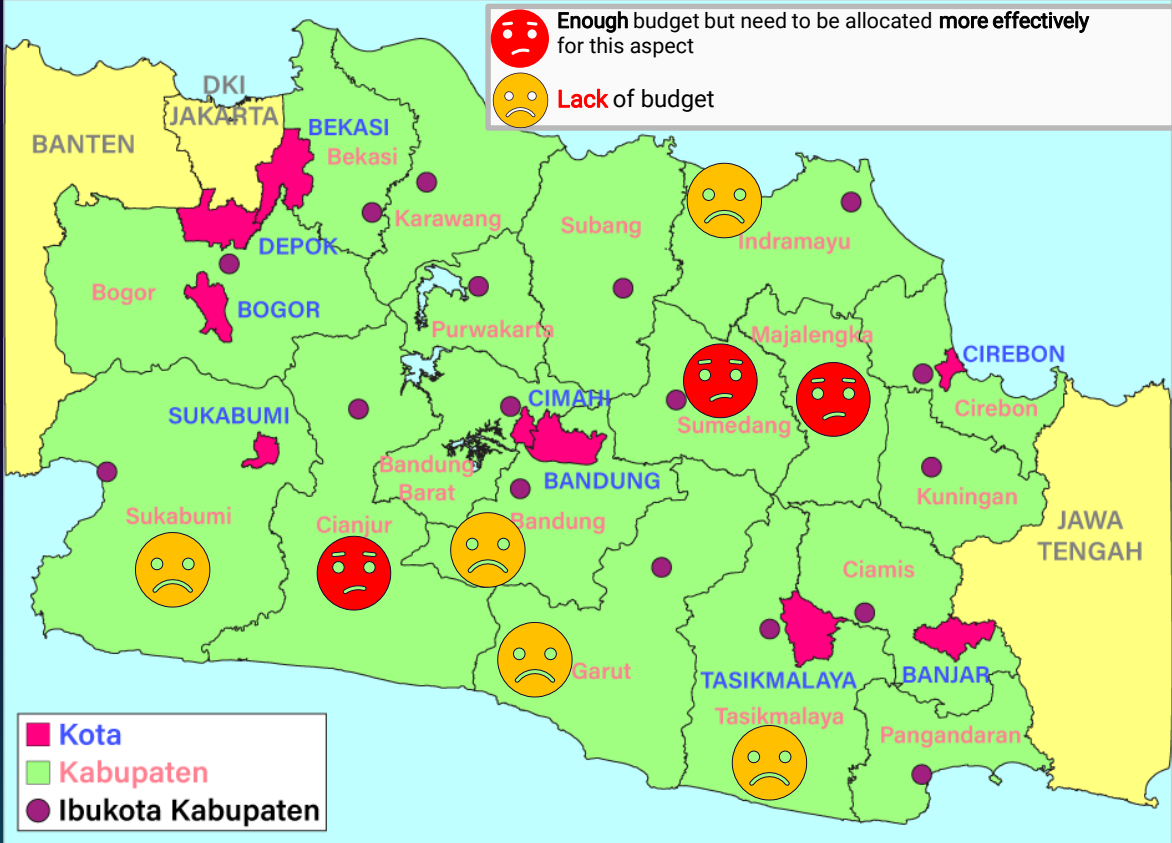
Availability Medicine and Vaccine

93.6%

Average of Percentage
Medicine and Vaccine
Availability



0.02*



* Because the original ratio is **small**, then we multiply the result by 100 to make it easier to be read

04.

Summary and Recommendation



Summary

Based on our analysis:

- Cirebon, Bogor City, Majalengka, Sumedang, and Cianjur Regency need to **allocate** their budget more effectively on **health sector**
- Sukabumi, Garut, Indramayu, Tasikmalaya, and Bandung Regency need to **review** their budget whether it's enough since their **health** condition are **under average**.

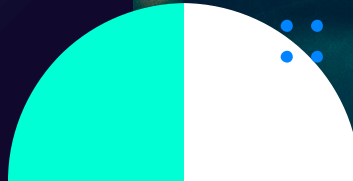
Nama Daerah	TBC	Stunting	DBD	Faskes	Nakes	Ketersediaan Obat
Kota Cirebon						
Kab. Majalengka						
Kota Bogor						
Kab. Sumedang						
Kab. Cianjur						
Kab. Pangandaran						
Kota Cimahi						
Kab. Cirebon						
Kab. Ciamis						
Kota Bekasi						
Kab. Kuningan						
Kota Depok						
Kab. Bogor						
Kab. Subang						
Kota Sukabumi						
Kab. Bekasi						
Kab. Purwakarta						
Kota Banjar						
Kota Bandung						
Kab. Bandung Barat						
Kota Tasikmalaya						
Kab. Karawang						
Kab. Sukabumi						
Kab. Garut						
Kab. Indramayu						
Kab. Tasikmalaya						
Kab. Bandung						

Recommendation

1. All regional government need to have a better method to **collect, maintain, and manage** the data to have a better understanding as it can impact the analysis so that it won't cause a misleading. Also, this dashboard in the future can be used to be one of the argument when creating a health **public policy**.
2. Add more analysis to other **sickness** whom rate is still rising and might become more dangerous in the future.
3. Health facility, medicine, and medical personnel could be analysed more detail using geospatial data to **improve their coverage** so it could be **distributed more effectively**.



Reference



Reference

1. <https://ekonomi.bisnis.com/read/20190311/12/898217/ini-isu-yang-jadi-prioritas-kementerian-kesehatan-hingga-2024>
2. <https://opendata.jabarprov.go.id/>
3. Dataset dari panitia kemenkeu finance & health hackathon
4. <https://slidesgo.com/data>

