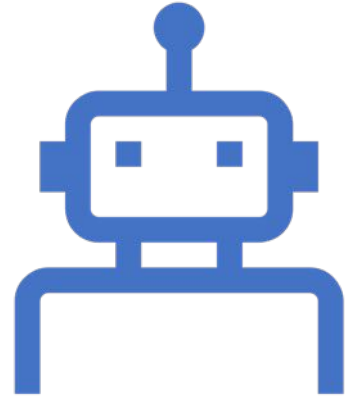


Disrupsi & Transformasi Digital

Lingkungan Bisnis dan Hukum Komersial



#1 Masa Depan



The background features a stylized world map in shades of orange and yellow. Various digital and technological icons are scattered across the map, including a laptop, a smartphone, a car, a factory, a gear, a lightbulb, a magnifying glass, a bar chart, a pie chart, a clock, a mail icon, a person icon, a speech bubble, a document, a camera, a microphone, a speaker, a television, a computer monitor, a server rack, a network diagram, a satellite, a rocket, a plane, a ship, a train, a bus, a car, a motorcycle, a bicycle, a wheelchair, a stroller, a baby carriage, a shopping cart, a shopping bag, a shopping basket, a shopping list, a shopping receipt, a shopping invoice, a shopping order, a shopping confirmation, a shopping receipt, a shopping invoice, a shopping order, a shopping confirmation. A large white circle is positioned on the left side of the map, partially obscuring it.

Tranformasi Digital

Humanless

Precise

Fast

Reliable

Manageable

Digital Transformation

010110
001101
101010

Data



Cloud



Analytics

Trivia

Visualize
Problems

Event, Activities,
Projects

"Patern"
Problems

"Linked"
Problems

Development &
ecosystem

Deep
Problems



A thin vertical line is positioned to the left of the text.

#2. Manajemen Talenta

Talents

Human Resources

- ☐ Workers
- ☐ Do it

Human Assets

- ☐ Brain - idea
- ☐ Collectivity
- ☐ Integrity
- ☐ growth



Human Capital

- ☐ Essential component of company
- ☐ Capital = assets



Problems

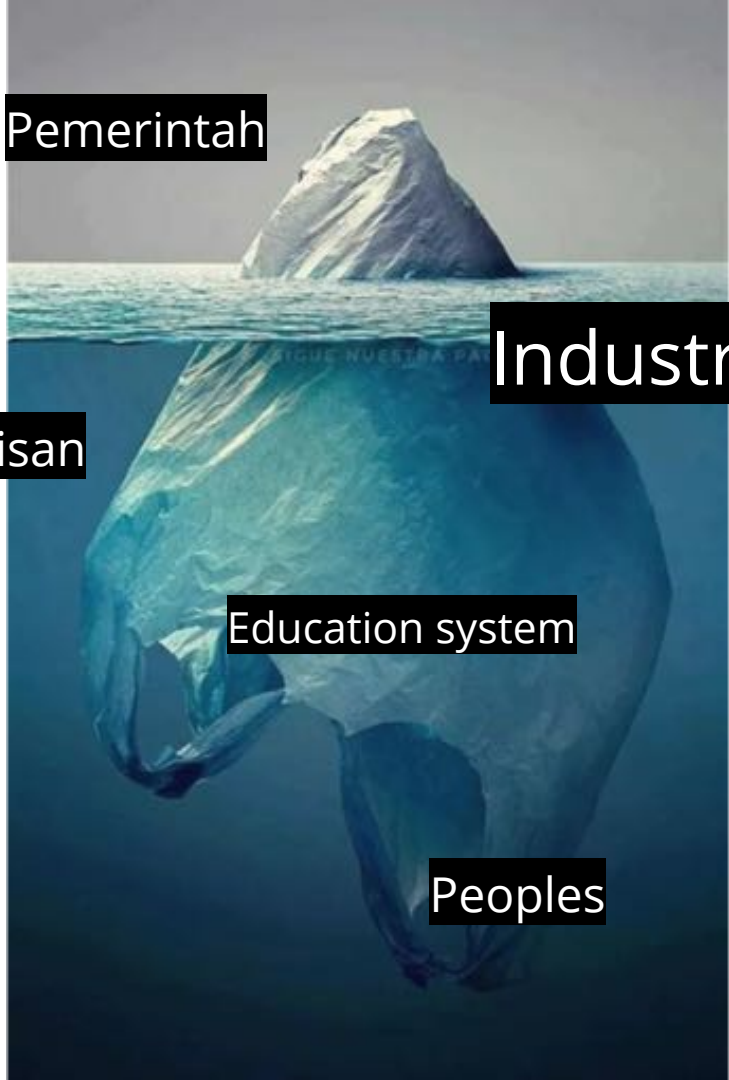
Pemerintah

Industri

Perusahaan Rintisan

Education system

Peoples



Problem landscape

Government

- ☐ Roles
- ☐ Ecosystem → mostly on system
- ☐ Protection (BPJS, Tenaga Kerja, etc)
- ☐ Promoting
- ☐ Unsufficient cordination on program (Ministry, units, etc)
 - ☐ Kominfo Digital Talents
 - ☐ Kemendag
 - ☐ others...

Industry

- ☐ Industrial selfish
- ☐ High expectation on education system
- ☐ Close source
- ☐ Less approach
- ☐ Industrial standard pressure

Problem landscape

Start Up

- ☐ High dream
- ☐ Disruptive for business but not for talents
- ☐ Less salary high skills
- ☐ Less development
- ☐ Very customise environment

Education

- ☐ Formal orientation
- ☐ Tight curriculum
- ☐ Un-upgraded lecturer
- ☐ Un-updated materials
- ☐ Close with science, far from real need

Problem landscape

Talents

- ☐ Individual
- ☐ Superhero thinks
- ☐ Less learning paths
- ☐ Instants
- ☐ Applied orientation, very low in basics
- ☐ Less softskill

Cloud

- Infrastructure (hardware, networking, power)
- Platforms (tools, build apps)
- Software (services)



Big Data

- Data Management
- Data Processing
- Data Analysis & Visualization



01	VOLUME	- Kumpulan data yang dijumlahkan jadi besar - Kumpulan data berukuran besar
02	VARIETY	Data berbagai jenis tipe dan variasi
03	VERACITY	Data yang memiliki sifat tertentu (rahasia, dan lainnya)
04	VELOCITY	Data yang dihasilkan secara real time atau batch
05	VALUE	- Data bernilai di masa depan - Data yang dapat bertaut satu sama lain





#3 Kebutuhan Industri

- Predictive maintenance or condition monitoring
- Warranty reserve estimation
- Propensity to buy
- Demand forecasting
- Process optimization
- Telematics

Manufacturing



- Predictive inventory planning
- Recommendation engines
- Upsell and cross-channel marketing
- Market segmentation and targeting
- Customer ROI and lifetime value

Retail



- Alerts and diagnostics from real-time patient data
- Disease identification and risk stratification
- Patient triage optimization
- Proactive health management
- Healthcare provider sentiment analysis

Healthcare and Life Sciences



- Aircraft scheduling
- Dynamic pricing
- Social media – consumer feedback and interaction analysis
- Customer complaint resolution
- Traffic patterns and congestion management

Travel and Hospitality



- Risk analytics and regulation
- Customer Segmentation
- Cross-selling and up-selling
- Sales and marketing campaign management
- Credit worthiness evaluation

Financial Services



- Power usage analytics
- Seismic data processing
- Carbon emissions and trading
- Customer-specific pricing
- Smart grid management
- Energy demand and supply optimization

Energy, Feedstock, and Utilities



Multidisciplinary Research

(Computer Science + Human Engineering + Cognitive Science + Psychology)

Information Visualization

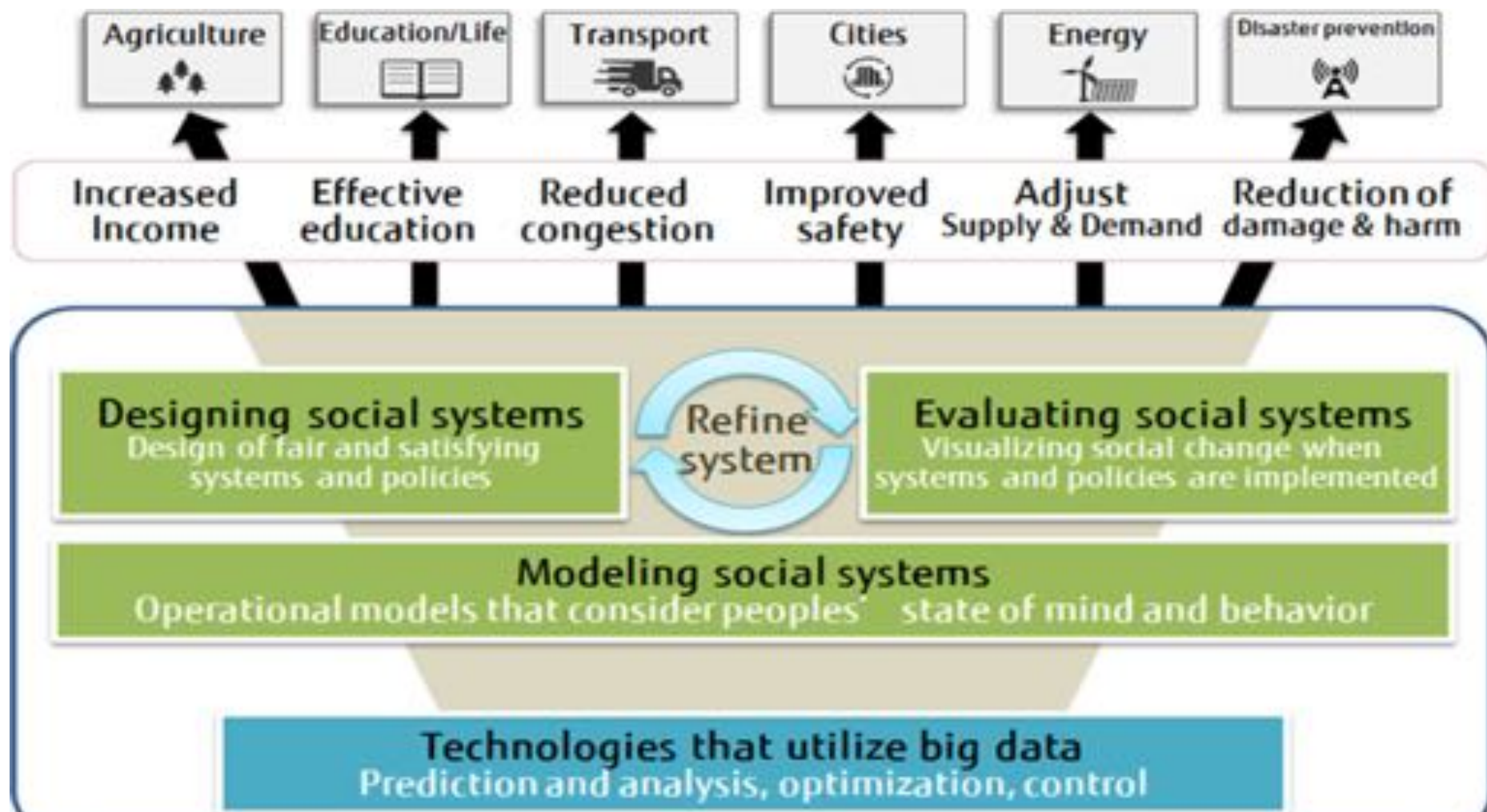
- Visual Representation
- Recordkeeping, Sensemaking, and Storytelling
- Collaboration Support
- Data Labeling, Editing, and Annotation
- Design Study
- Exploration Method in VR/AR

Visual Big Data Analysis

- Precision Medicine
- Personal(Mobile) Data
- Bio Informatics
- Transportation
- Disaster/Safety
- Smart City
- Crime

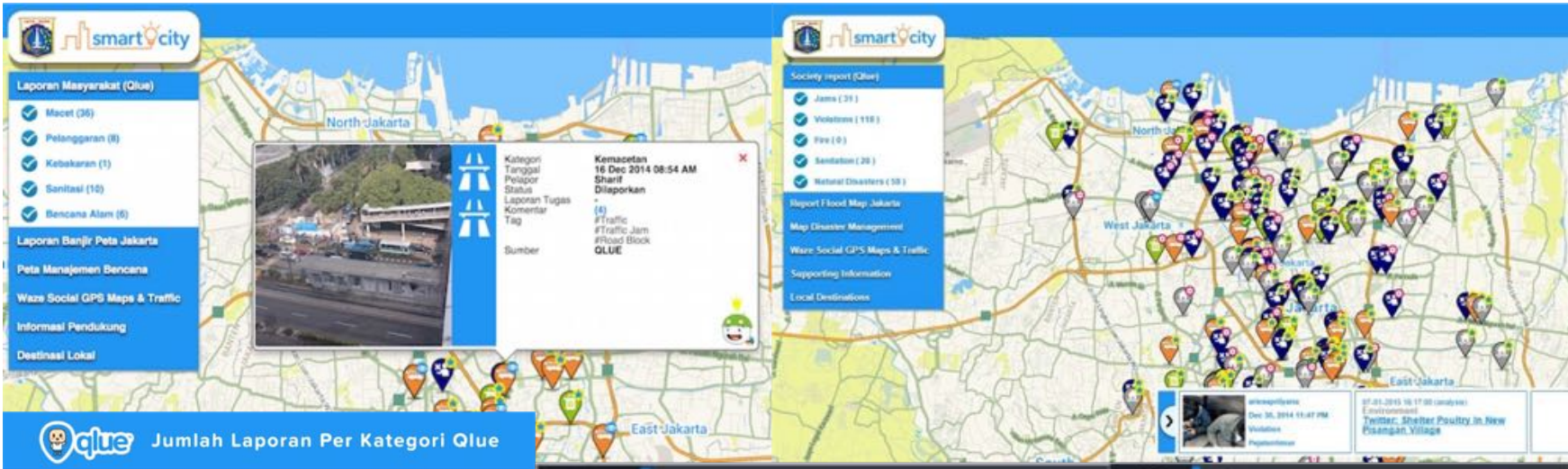
Human-Centered

- Cognition and Perception
- Task and Requirements Analysis
- Qualitative and Quantitative Evaluation
- Novel Evaluation Methods
- Insight Provenance





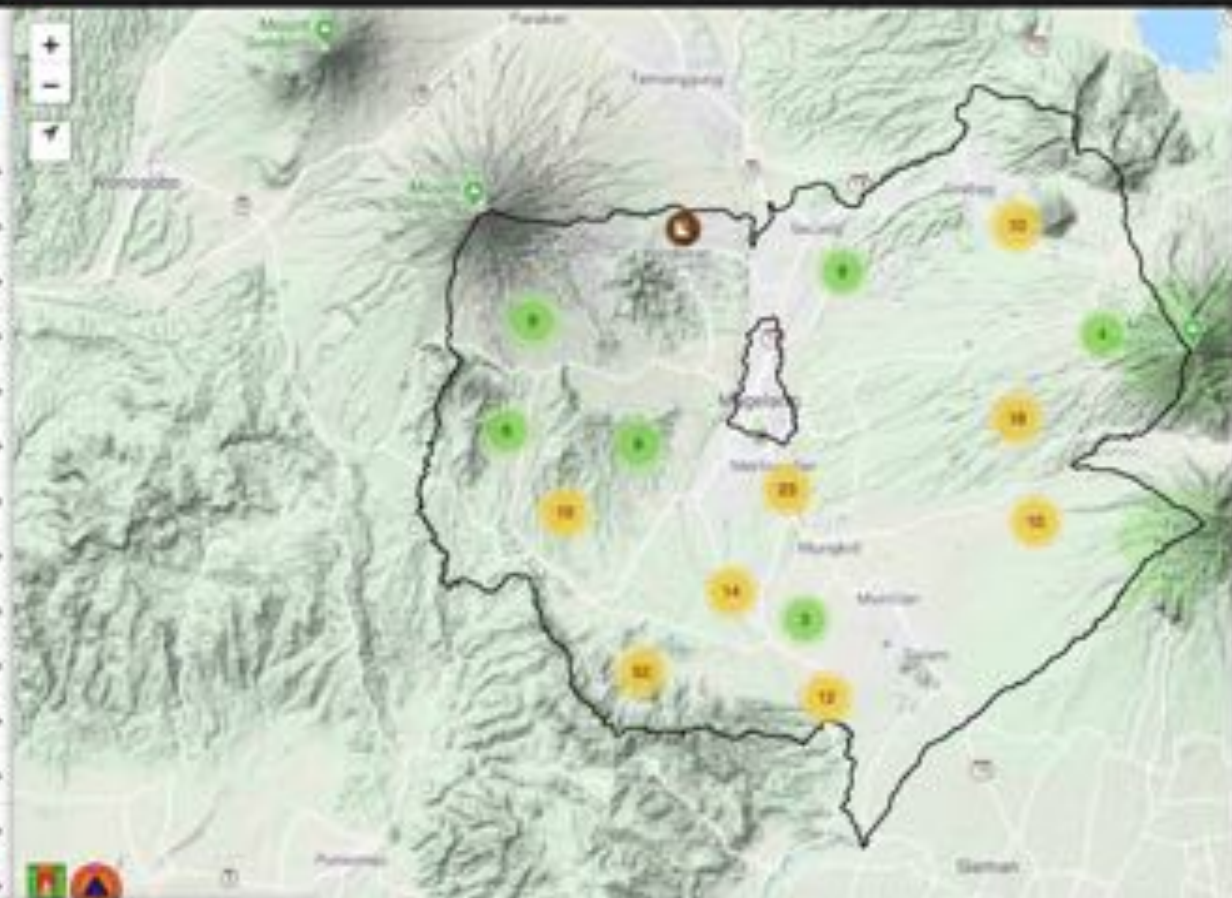
#4 Studi Kasus



Kejadian Bencana

[Sort](#)

2019-04-16	>
2019-04-15	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-11	>
2019-04-10	>
2019-04-08	>
2019-04-06	>
2019-04-06	>



Basemap

- ☐ Google Streets
- ☐ OpenStreetMap
- ☐ Google Satellite
- ☐ Google Hybrid
- ☒ Google Terrain

Kejadian Bencana

- ☒ Longsor
- ☐ Banjir
- ☐ Banjir Lahar
- ☐ Gempabumi
- ☐ Cuaca Ekstrem
- ☐ Kebakaran Hutan/Lahan
- ☐ Kebakaran Gedung/Permukiman
- ☐ Kekeringan
- ☐ Letusan Gunungapi
- ☐ Kejadian lain

Layar

- ☒ Batas Kabupaten
- ☐ Batas Desa
- ☐ Penduduk Kecamatan
- ☐ Desa Tangguh Bencana
- ☐ Laku Lintas (Traffic)
- ☐ IRTS
- ☐ Hunian Tetap

Peta Bahaya

- ☐ Bahaya Banjir
- ☐ Bahaya Banjir Bandang
- ☐ Bahaya Cuaca Ekstrem
- ☐ Bahaya Gempabumi

London

51.51 N, 0.13 W

Wed 24 Apr @ 21:29:08

[Go to Map](#) - [Go to Grid](#) - [Change City](#)

Weather Station (CASA Team)

1

Weather (METAR)

10

London City

Calm 0 C

Traffic Cameras (TrL)

1

Stoke Newington Rd/Evering Rd



Tube Line Status (TrL)

10

Bakerloo	Good Service
Central	Good Service
Circle	Good Service
District	Good Service
H&C	Good Service
Jubilee	Good Service
Metropolitan	Good Service
Northern	Good Service
Piccadilly	Good Service
Victoria	Good Service
W&C	Good Service
Overground	Good Service
Tram	Good Service

LONDON CYCLE HIRE (TrL)

10

4.3 %

Stations Full

4.5 %

Stations Empty

9611

Bikes Available

332

Bikes or Docks Full

Available Bikes (last 24h)



IN SERVICE (TrL)

10

7181

London Buses

377

Underground Buses

Air Pollution (DEFRA)

10

pm₁₀³

Tram Area

Ozone

NO₂

SO₂

PM_{2.5}

PM₁₀

Bloomsbury

Maylebone

Rd

N Kensington

BICYCLES (LBH)

10

Goldenliths' Row

4321

yesterday

STOCKS (Yahoo)

10

FTSE 100 Index

(%)

Traffic Cameras (Two at Random) (TrL)

10

Holloway Rd Nth Rupert Rd



A20 Lee High Rd/Lampstead Rd



BBC LONDON News (BBC)

10

Harlesden murder: Man dies after high street stabbing. How virtual reality may help Grenfell survivors 'let go of emotions'. Cyclist's appeal after thief thwarts sixth round-the-world attempt.

OPENSTREETMAP UPDATES (OSM)

10

#livingmap-waltham-0319: New cycleway (mostly from imagery, needs survey).

#livingmap-waltham-0319: Added more details (various). Deleted 'Post Office' (false double). corrected postcode in Barking.



102 Mio Transaction

24% of national e-Money Transaction Share

820 Payment Device Terminals

Rp. 343 M Payment Settlement



Time Series
Comparison



Audit Trail
Development



Origin-Destination



Sentimen Analytic, NLP



TransJakarta

DB Size 470 GB

DB Size +14G /month

Avg 287K trx/day



Samuel Oktov @BukanMasAlex · 3m
TransJakarta semakin kece, semakin canggih, semakin nyaman karena kinerja @AhokDjarot @basuki_btp #BaDjaTerbukti

Translate from Indonesian



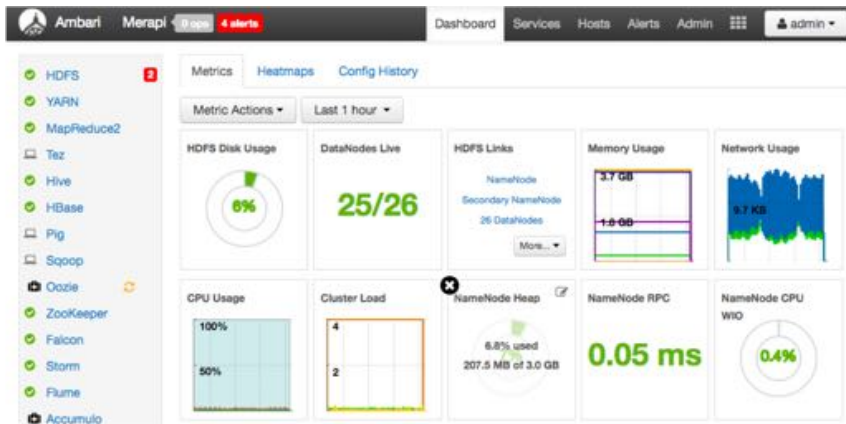
Rose Diana @wiedhie · 2h
#9
Trans Jakarta vs Commuter Line

#streetphotography #street... [instagram.com/p/BRo-QaPjBus8...](https://www.instagram.com/p/BRo-QaPjBus8...)

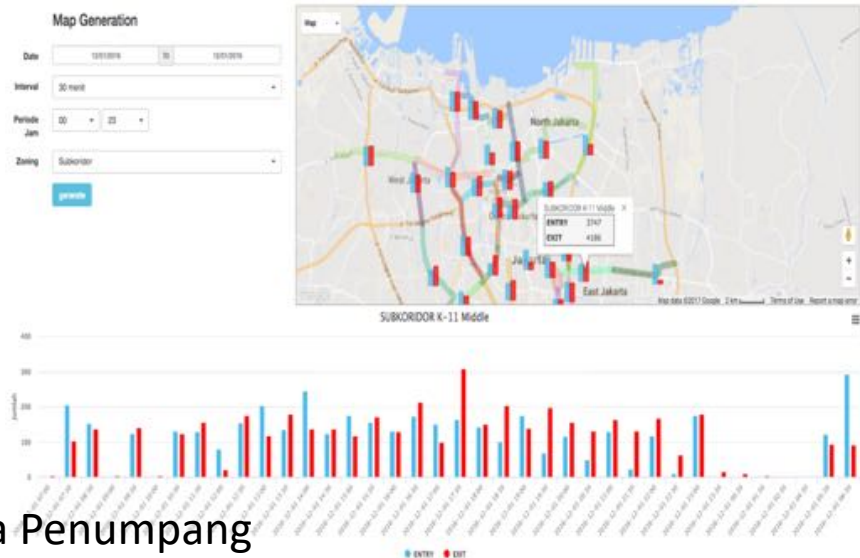


Resi Utama Br H @resitutamaa · 6h
Min kalo mau ke slipi jaya dari kramat sentiong nu, mending transit di cawang uki atau ke harmoni? Mksh @PT_TransJakarta

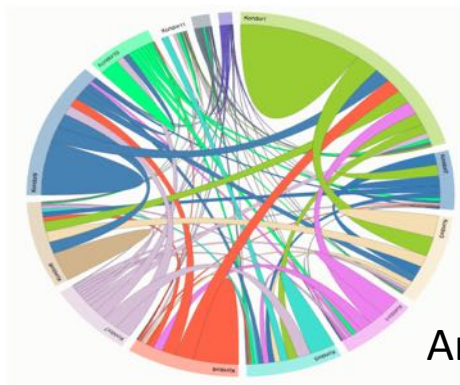
Translate from Indonesian



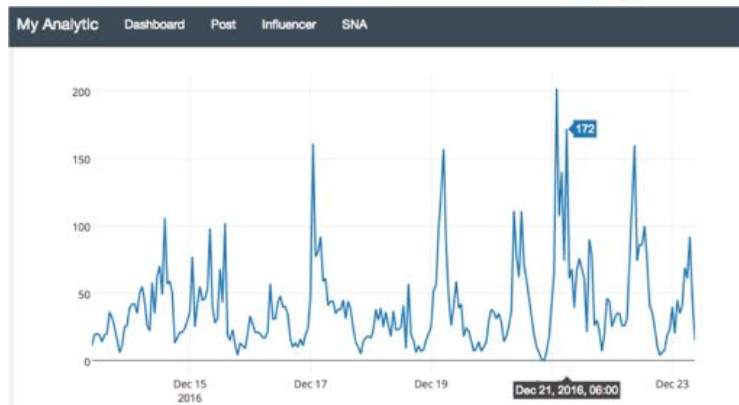
Big data 25 server cluster



Peta & Pola Penumpang



Analisis O-D



Social
Media
Dashboard

[Analytical] & [cREATIVE]



Opportunities



Internships in dalatech.id & gamabox.id



2-3 months works



Business development



Management & operation



Send your CV to mardhani@ugm.ac.id