SMART GROWTH APPROACH IN PLANNING
BOGOR CITY INFRASTRUCTURE
Jabodetabek is a Metropolitan area formed by 5 Cities which is Jakarta as Main City and Bogor, Depok, Tangerang, Bekasi as the Satellite Cities

- Bogor is one of the satellite city of Jabodetabek which has three main function to main City Jakarta, the residential area, education, and recreation
BOGOR AS RESIDENTIAL AREA

800,000 COMMUTERS
Every Weekday

500,000 COMMUTERS
Using Railway Train

75% COMMUTERS JABODETABEK
were from Bogor Train Station

63% PEMBELI PROPERTI DI KOTA BOGOR
Berasal dari Jakarta

BOGOR AS EDUCATION AREA

>30 Universities
With good accreditation

>5,000 New Students
Every years

70% INCREASING
Residential area near University area in 15 years

BOGOR AS RECREATION AREA

4,3 JUTA TOURIST
Along 2014

200,000 TOURIST
Every weekend

44% Tourist
Visiting Bogor Botanical Garden

30% TIME SPENDING
2 nights
BOGOR CITY’S PROBLEM AS A SATELLITE CITY OF JAKARTA

- High-Intensity City, exceeding the carrying capacity
- Decreasing Environmental Quality

- High Dependence on cars/motorbikes (high energy consumption)
- No Convenient Mass Public Transportation
- Insufficient Road Capacity; Not Accessible

- High-Intensity City, exceeding the carrying capacity
- Decreasing Environmental Quality
- the function as a transit area is not optimal

BOGOR CITY

RESIDENTIAL
TOURISM
EDUCATION

TRANSPORT POINT SUPPORTING AREA

JAKARTA

Distorsi akses

BOGOR CITY'S PROBLEM AS A SATELLITE CITY OF JAKARTA
ABOUT THE PROJECT

• Smart Growth Approach In Planning Bogor City Infrastructure project was owned by Public Work Ministry
• The timeline for the project was 7 months long in 2017
• The writer was involving in the project as Urban Planner Consultant
• The aim for the project is to analyzing and arranging infrastructure program as an approach to solve problem background of Bogor City
METHOD

- The city center were delineated around 500 Ha as the core point of development
- City center has main activity such as commuter line train station, main bus terminal, presidential palace, botanical garden, etc
- The project used smart growth approach to plan the infrastructure in City Center
- Smart growth were adapted in the by dividing 15 sub area of 30 Ha (walking distance area)
- Those sub area was planned as the local activity’s center
- Each sub area had different development theme according to area’s characteristic
- Smart growth were applied by developing walkable district, mixed used, green, transport supportive, dense area
- Some example of infrastructure that will be developed was a micro scale infrastructure such as pedestrian way, bus shelter, etc
15 strategic areas become the center of strategic functions of Bogor city, each strategic area serves its surrounding area within a walking radius (300-400 m) and creating 1 integrated functional unit. Each radius unit is connected to one another in the city transit system.

intervention in each 1 radius unit with smart growth principles

interventing Bogor City area in each radius unit with smart growth approach principles, which are integrated with each other in the city connectivity system and creating a livable and smart city

Source: 1) City Building, John Lund Kriken; 2) Walkable City, Jeff Speck; 3) Smart Growth Manual, Andres Duany, et.al
SMART GROWTH APPROACH IN 15 STRATEGIC AREAS IN BOGOR CITY

1. Kawasan GOR Pajajaran - Youth and Sport Center
2. Kawasan Taman Air Mancur - Park & Culinary Center
3. Kawasan Militer ZENI - Historical Tourism Center
4. Kawasan Bogor Permai - Colonial Commercial Center
5. Kawasan Stasiun Bogor - Integrated Train Station
6. Kawasan Perkantoran Paledang - Heritage Conservation Center
7. Kawasan Kampung Arab - Arabian Heritage Tourism & Settlement
8. Kawasan Pecinan - Chinese Heritage Tourism & Settlement
9. Kawasan Terminal Baranangsiang - Integrated Transit Terminal
10. Kawasan Universitas Pakuan - Integrated Education Center
11. Kawasan RS.Siloam – Integrated Public Service
12. Kawasan Pertokoan Pajajaran - Shopping Center
13. Kawasan Kampus IPB - Business & Research Center
14. Kawasan Taman Kencana - Park & Culinary Center
15. Kawasan Lapangan Sempur - Bogor Central Park

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1. MIXED USED DEVELOPMENT
Integration of mixed land use for various activities

2. COMPACT AND DENSE
Facade settings and building intensity in commercial areas with a maximum height of 10 floors around the center of activity

3. WALKABILITY
Providing continuous pedestrian way and connecting to each activity function

4. GREEN
Providing city parks and green lines as a border for rivers and railroads

5. TRANSIT SUPPORTIVE
Providing BRT network and BRT Halte which is integrated with the pocket parking and bike-sharing station
Arabian Heritage Tourism & Settlement Infrastructure Programs

- Developing Pedestrian Way
  R Saleh Bustaman Street - Pahlawan Street
- Increasing the capacity & quality of pedestrian way on IR H Djuanda Street
- Jalan IR H Djuanda Street Maintenance

Revitalization of Commercial & Service area

Developing BRT Shelter integrated with Bike Sharing Shelter
CONCLUSION

- Infrastructure development needs to consider existing city's problems and its function on the regional system.
- Providing human/small scale infrastructure can improve the quality of a district as well as solve the city problems.