SMART GROWTH APPROACH IN PLANNING BOGOR CITY INFRASTRUCTURE

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ABOUT THE PROJECT

The Aim For The Project Is To Analyzing And Arranging Infrastructure Program As An Approach To Solve Problems in Bogor City.

Smart Growth Approach In Planning Bogor City Infrastructure Project Was Owned By Ministry Of Public Works And Housing.

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 Problems in Bogor City.
Bogor City Have Strategic Function In Jabodetabek Metropolitan Area

- Jabodetabek is a Metropolitan area formed by 5 Cities which is Jakarta as Main City and Bogor, Depok, Tangerang, Bekasi as the Satellite Cities
- Jabodetabek has **over 30 Million population in 2017** and categorized as the second largest Megapolitan in the World (Source: https://finance.detik.com/properti/d-2501962/jabodetabek-calon-megapolitan-terbesar-ke-2-di-dunia)
- 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 CITY OVERVIEW: FUNCTIONS AND PROBLEMS

Bogor As Residential, Education, And Recreation Area

**BOGOR AS RESIDENTIAL AREA**

- 800,000 Commuters
  - Every Weekday

- 500,000 Commuters
  - Using Railway Train

- 75% Commuters JABODETABEK were from Bogor Train Station

- 63% Property Buyers in Bogor City come from Jakarta / work in 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

- 4,3 JUTA Tourist
  - Along 2014

**BOGOR AS RECREATION AREA**

- 200,000 Tourist
  - Every weekend

- 44% Tourist Visiting Bogor Botanical Garden

- 30% Time Spending
  - 2 nights
As a satellite city of Jakarta, Bogor City is facing many problems especially on commuting activities.

Bogor City Overview: Functions and Problems

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

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

15 Strategic Areas In Bogor City and Development Themes

1. GOR Pajajaran Area - Youth and Sport Center
2. Air Mancur City Park Area - Park & Culinary Center
3. Military ZENI Area - Historical Tourism Center
4. Bogor Permai Area - Colonial Commercial Center
5. Bogor Station Area - Integrated Train Station
6. Paledang Business Area - Heritage Conservation Center
7. Kampung Arab Area - Arabian Heritage Tourism & Settlement
8. Pecinan Area - Chinese Heritage Tourism & Settlement
9. Baranangsiang Bus Terminal Area - Integrated Transit Terminal
10. Pakuan University Area - Integrated Education Center
11. Siloam Hospital Area – Integrated Public Service
12. Pajajaran Commercial Area - Shopping Center
13. IPB University Area - Business & Research Center
14. Kencana City Park Area - Park & Culinary Center
15. Sempur Park Area - 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
SMART GROWTH APPROACH IN BOGOR CITY

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

- Developing BRT Shelter integrated with Bike Sharing Shelter
- Revitalization of Commercial & Service area
CONCLUSION

• infrastructure development needs to consider with 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.