



OUTLINE

- BACKGROUND
- DESCRIPTION OF BMA
- STRATEGIC ISSUES OF BMA
- SOLID WASTE MANAGEMENT POLICY IN BANDUNG CITY



BACKGROUND

consequences ↓

Based on Gov't Regulation No.26/2008 Bandung Metropolitan Area (BMA) is :

- National Activity Center (Pusat Kegiatan Nasional)
- National Strategic Area (Kawasan Strategis Nasional)

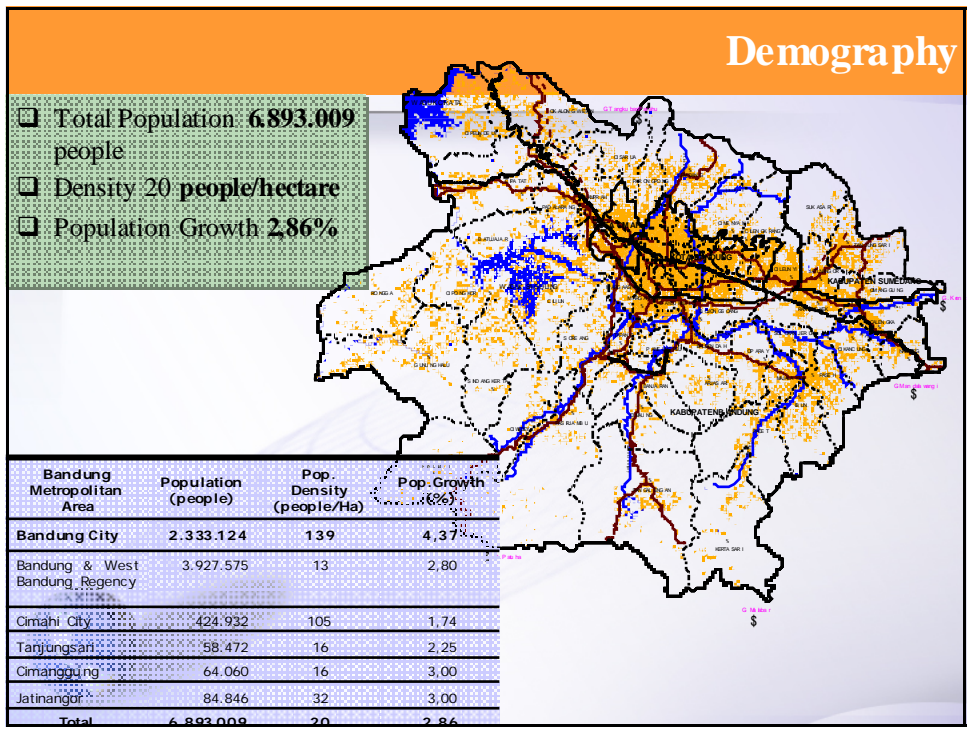
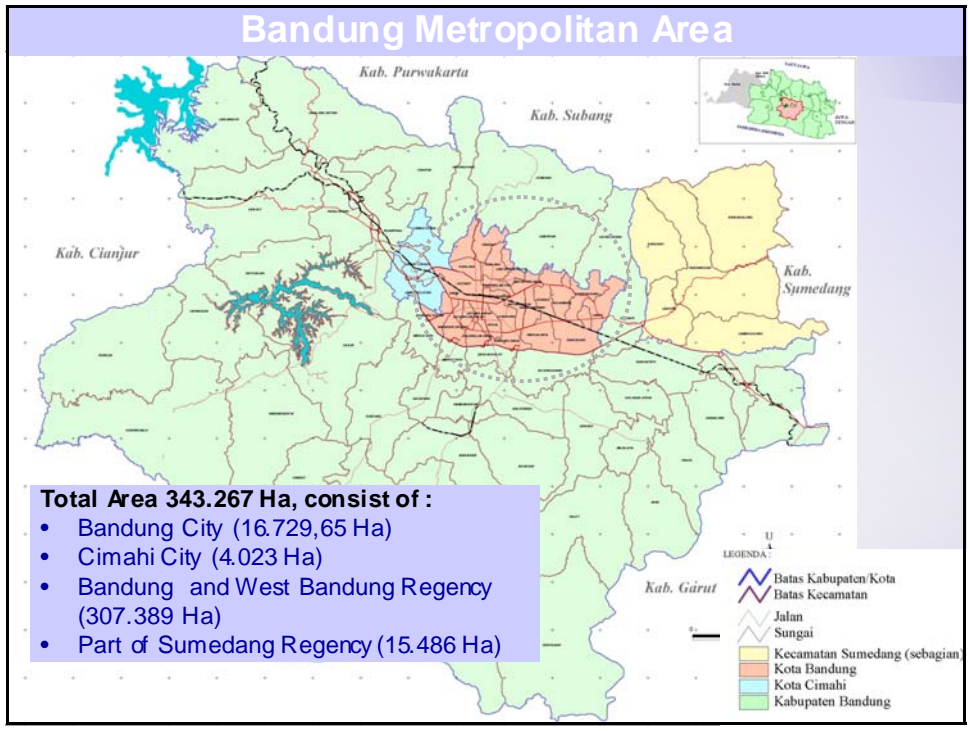
• BMA has a significant role as :

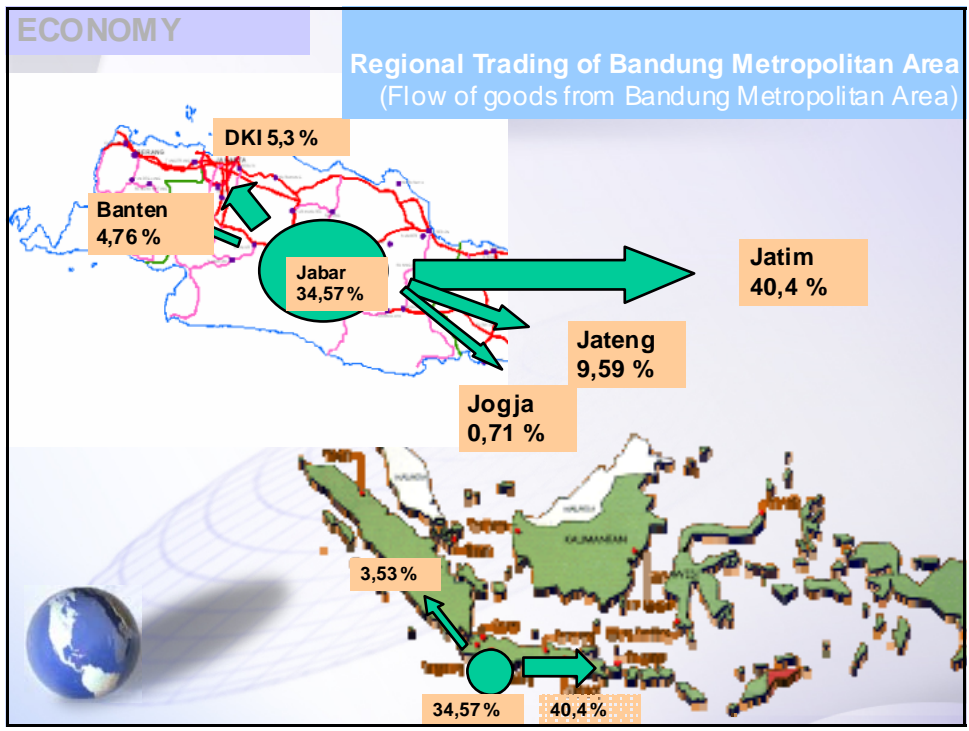
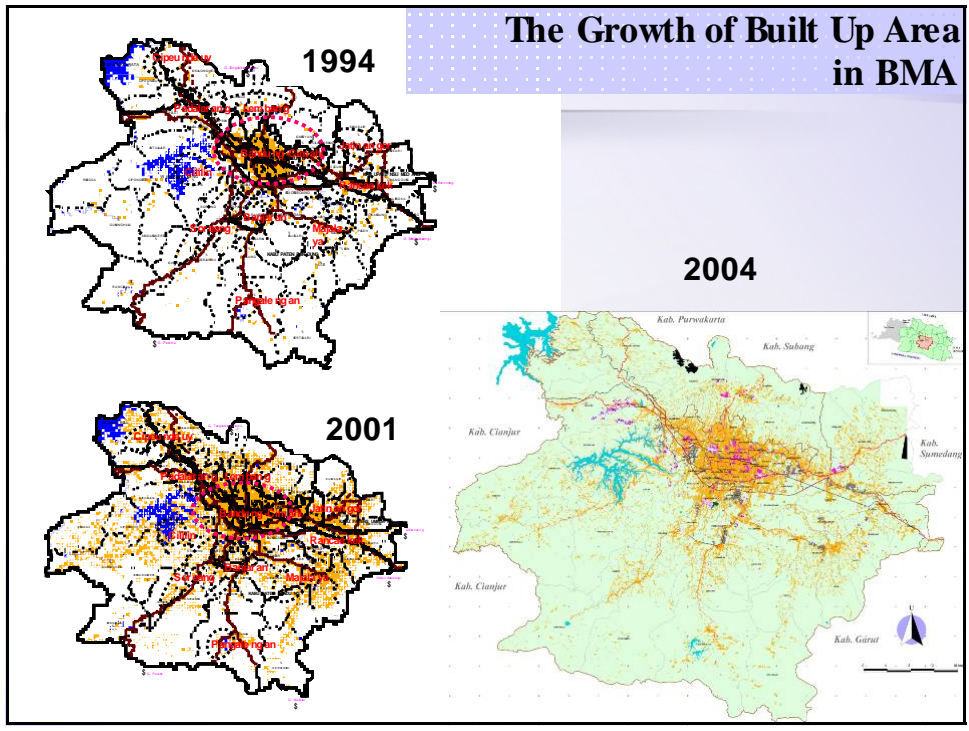
- national center of activities
- Regional and national scale economic growth pole

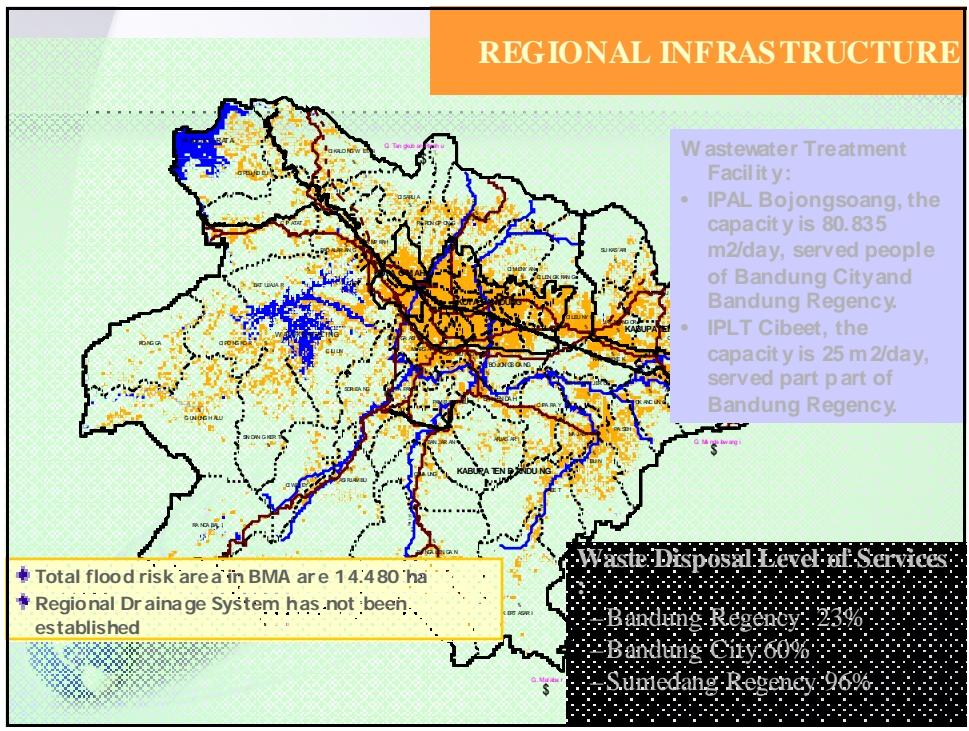
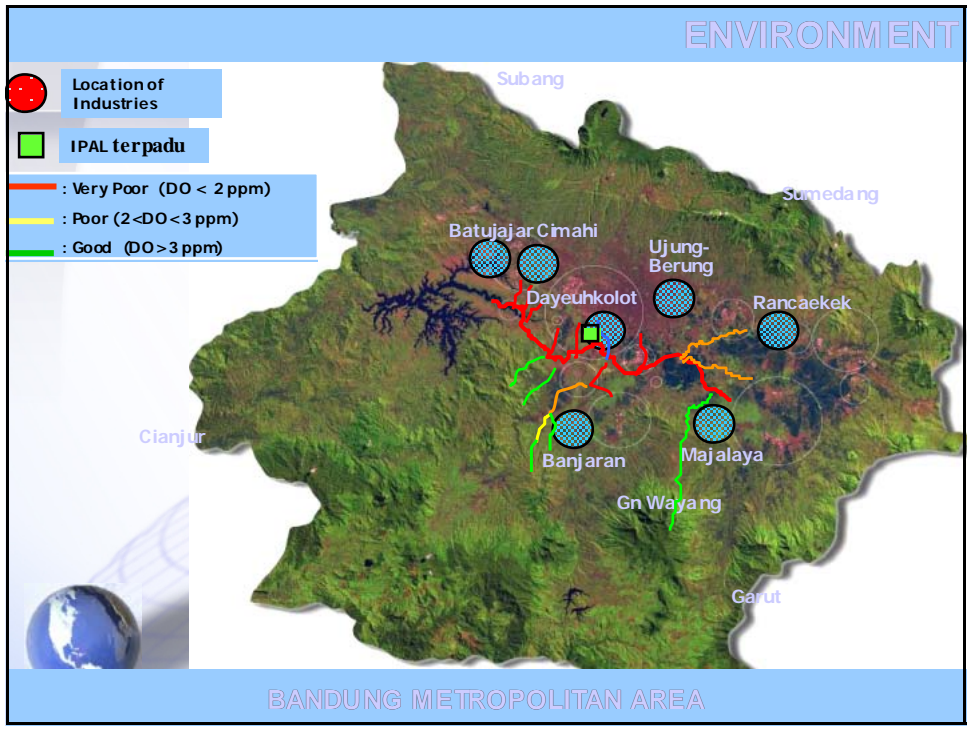
• Provision of regional infrastructure

• Spatial Planning

THE PROFILE OF BANDUNG METROPOLITAN AREA







STRATEGIC ISSUES OF BANDUNG METROPOLITAN AREA



REGIONAL ISSUES OF BMA

- GROWTH OF URBAN POPULATION



- FAST GROWING NEEDS OF URBAN INFRASTRUCTURE
- DEGRADATION OF ENVIRONMENT QUALITY
- LAND CONVERSION INTO BUILT UP AREA



- LIMITED CARRYING CAPACITY

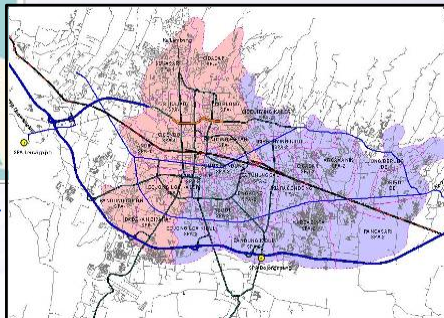
ENVIRONMENTAL PROGRAM IN BANDUNG METROPOLITAN AREA



Bandung City



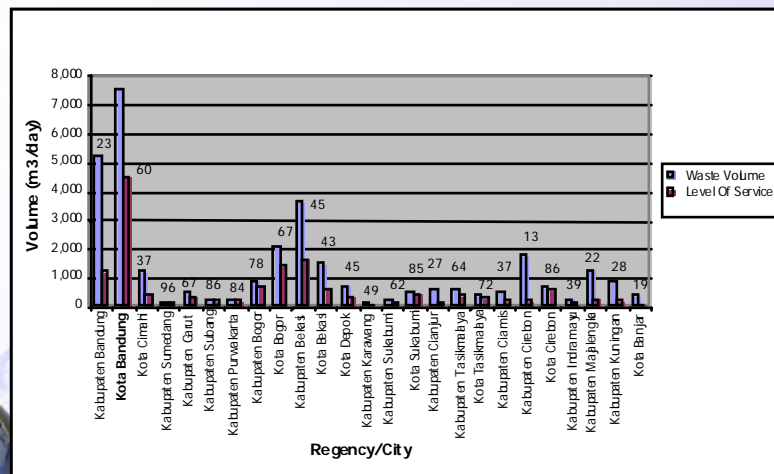
West Java
Province





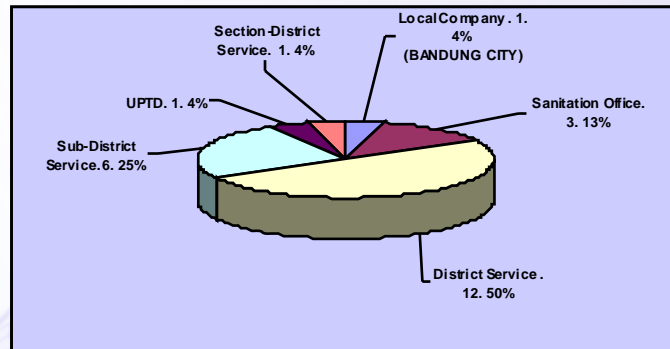
Current Condition

Waste Volume & Level of Services in West Java



Current Condition

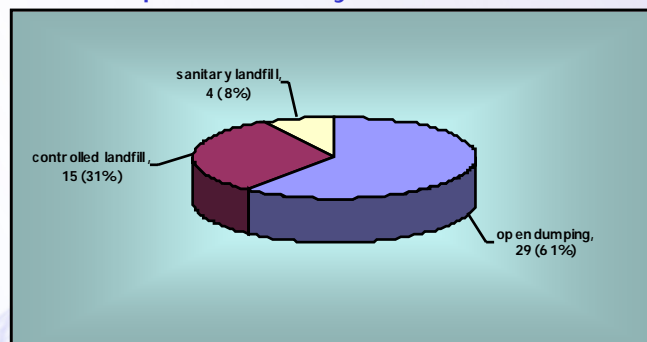
The type of formal institution SWM in West Java



- The type of formal institution that run solid waste management in a certain city will has significant influence on the SWM performance
- The low Level Of Services in Bandung Solid Waste Managemene caused by the still under-developed & need assistance (subsidiy) from the local government to cover overall operational costs

Current Condition

Final Disposal Site System in West Java

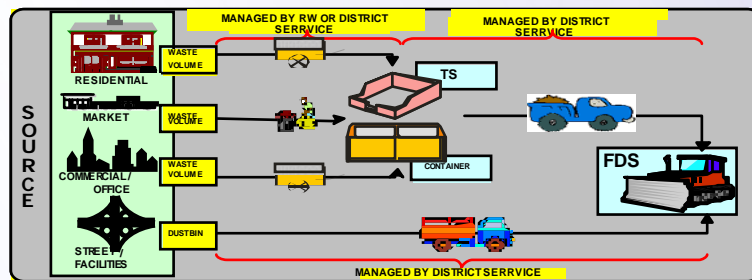


ACTUALLY:

- Most of FDS in West Java Province can be classified as dumpfills, with less than 10% achieving status of controlled landfill.
- No sanitary landfill is in existence although there is some being planned.

Current Condition

Existing SWM Operation



- Solid waste collection to transfer station is managed by community
- Solid waste transportation, processing and final dumping are the responsibility of the operators.



Current Condition

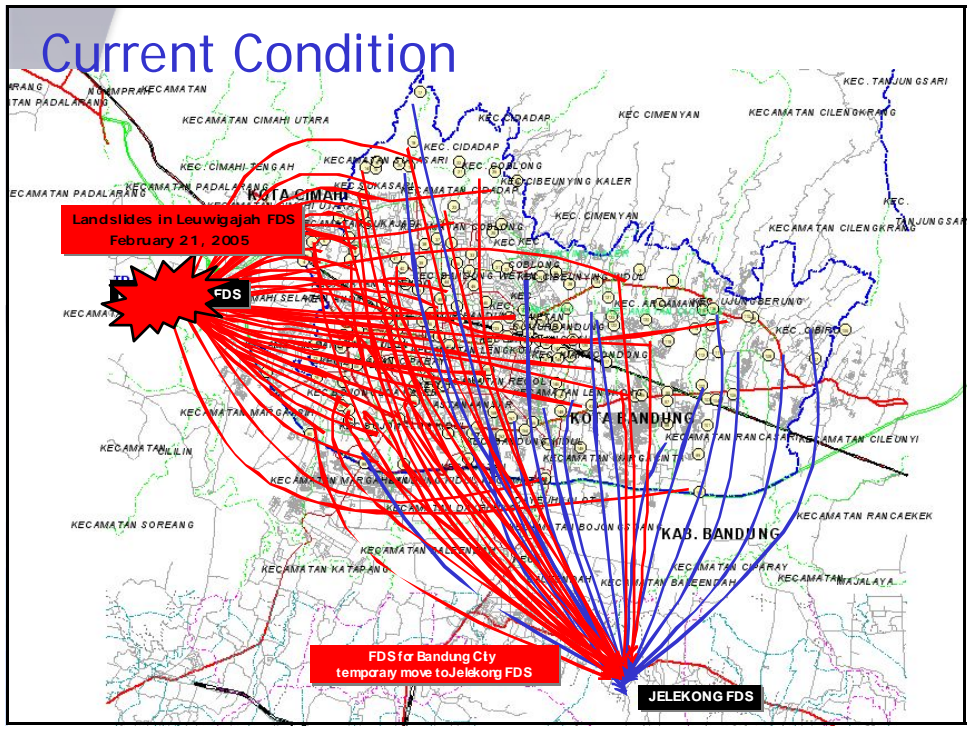
Communities Involvement



the community altogether carried out the solid waste management independently

communities generally implement simple processing in the form of composting and recycling







Current Condition

The Problem

JELEKONG FDS:
Capacity : 300.000 m3
Lifetime : Until Desember 2005

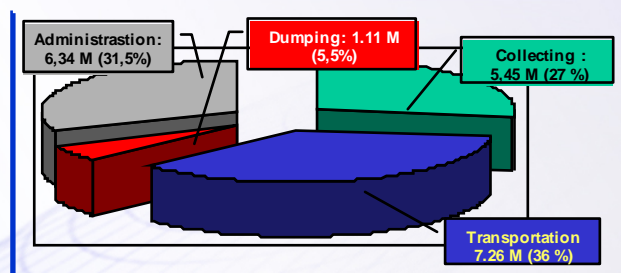


very difficult to find new FDS areas because the public impression and perception of FDS has been largely negative



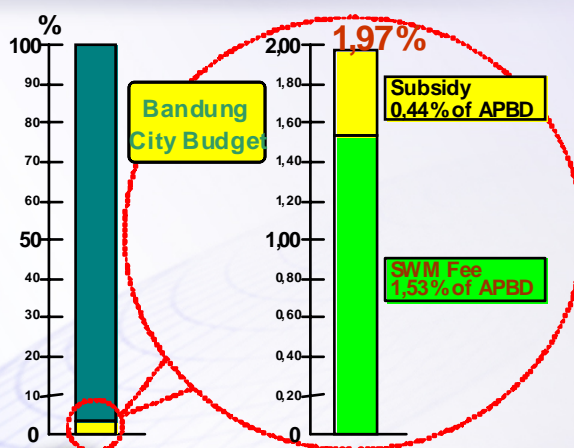
Current Condition

Expenditure on Solid Waste Management Year 2003 in Bandung City



- The cost involved in processing the volume of waste at the FDS is very small
- the solid waste operators put the FDS management at the end priority

Solid Waste Budget



- Budget allocation from APBD (Annual City Development Budget) for solid waste management is lowest compared to other development areas.
- Local government put the solid waste management at the lowest priority.

Environmental Pollution

Environmental Pollution around FDS



Surface & Ground Water Pollution



Air Pollution



Soil Pollution



Environmental Pollution

Environmental Sanitation around FDS

pond of leachate & many flies



slums settlement of scavenger

smoke combustion of solid waste



Environmental Pollution

Flood



floods caused by the number of solid wastes in canal or river



Environmental Pollution



Transfer Station by the road side

Transfer Station underneath elevated highway under construction



Needs Of SWM Policy

- Environmental pollution caused by waste management activities in Bandung City
- An appropriate solid waste management policy is needed as reference in implementation of sustainable environmental management



Requirement New Paradigm

The Root of FDS Problems

- The bad physical and chemical quality of FDS environmental caused by the open dumping method.
- Many factors becoming cause operated FDS by open dumping (technical, budgeting, and also community participation aspect)
- **The paradigm of collect-transport-dump becoming the root of the matter all this**

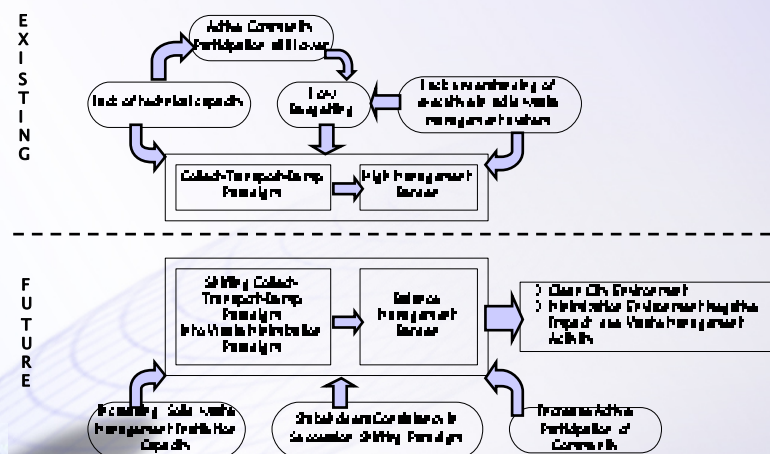


Requirement New Paradigm

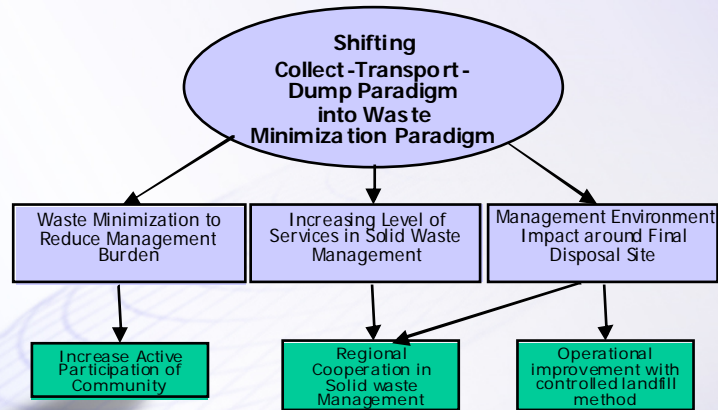
- SWOT method analyzed indicates that Bandung City solid waste management system in SURVIVAL condition
- Bandung City solid waste management policy have should be changed, where THE COLLECT-TRANSPORT-DUMP PARADIGM IS CHANGED INTO SOLID WASTE MINIMIZATION PARADIGM



Shifting Paradigm Framework in Bandung City SWM




From Policy To Strategy



Bandung City SWM Strategy

Waste Minimization To Reduce Management Burden

1

- To endorse local government in order to begin with shift of solid waste management paradigm to a reduction paradigm.
 - To make an informal sector of recycling organizers as working partner by opening the business opportunity for them.
- 

Bandung City SWM Strategy

Competency of Formal Solid Waste Management Institution

2

- Increasing capacity and competency of formal solid waste institution.
- Increasing professionalism of institution.
- Developing the financial system to increase the institution competency.



Bandung City SWM Strategy

Management Environment Impact Around Final Disposal Site

3

- Improving the condition of FDS environment.
- Rehabilitation of physical-chemical environment condition with an approach of friendly environment technology.
- Operational improvement from open dumping to controlled landfill method.

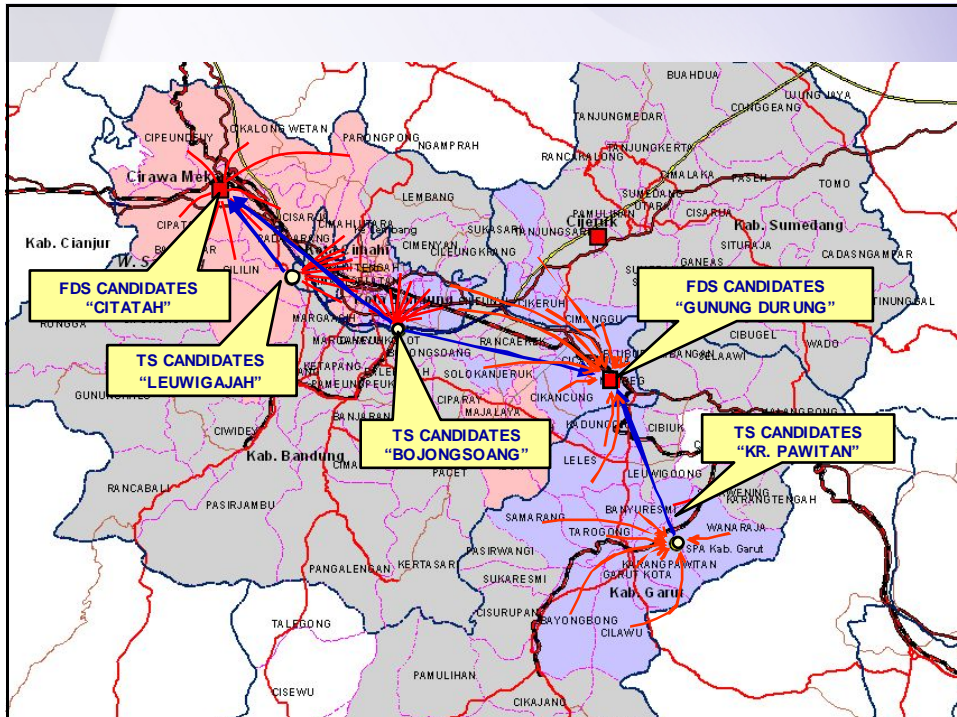


Bandung City SWM Strategy

Regional Cooperation in Solid Waste Management

4

- To establish a regional cooperation in carrying out the operation of solid waste management.
- To carry out the institutional function of environment quality observation around FDS.



Bandung City SWM Strategy

5

Law Enforcement and Increase Active Participation of Community

- To increase the socialization of regulation and law and its implementation
- To lift the existence of community or society group which has participated actively in solid waste management in order to become the mediator in campaign programmed
- To build an inter community group network which has worked actively in solid waste management.
- To establish pilot project area, which will become an example for the other region.



Bandung City SWM Strategy

The Objective Bandung City SWM Strategy

- Increasing capacity Bandung City SWM institution
- Increasing solid waste recycle center garbage in intercity service scope
- Increasing solid waste recycle information system
- FDS operational has been updated from Open Dumping into Controlled Landfill
- Regional Solid Waste Corporation for Greater Bandung has been implemented



Conclusion

- The environment pollution caused by solid waste management activity in Bandung City reveals that the core of the problem is caused by collect-transport-dump paradigm
- Shifting paradigm in solid waste management policy should be taken, where the collect-transport-dump paradigm is changed into solid waste minimization paradigm
- Final Disposal Site should be developed through the mechanism of inter town cooperation
- Generate and develop an active participation of the community in solid waste management



THE END

Thank you for your kind attention

