



The Action Plan for implementing The Eco-town Program Case Study Bandung City, Indonesia

Bandung City Government
February 2009



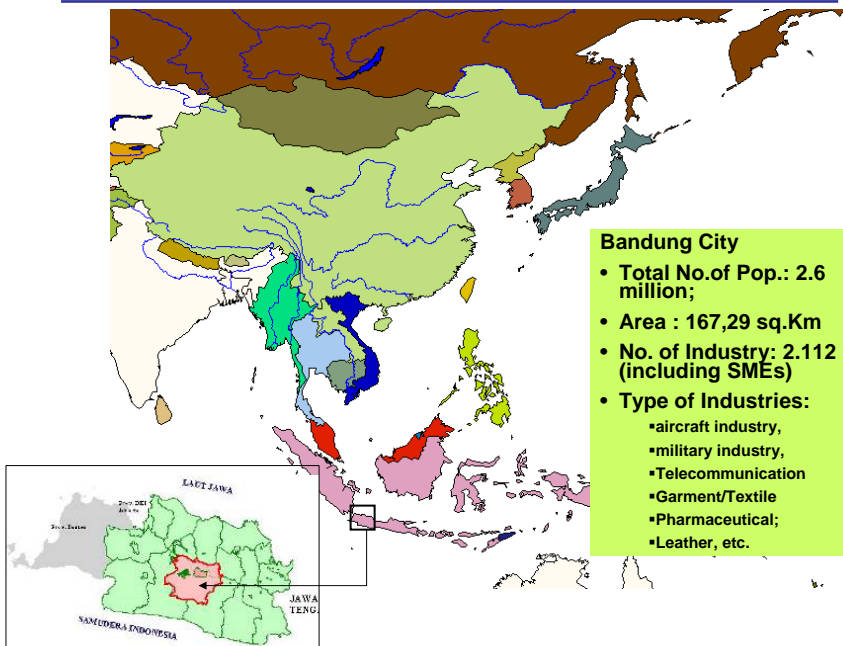
Outline

- Background
- Bandung Eco-town Concept
- Implementation Progress

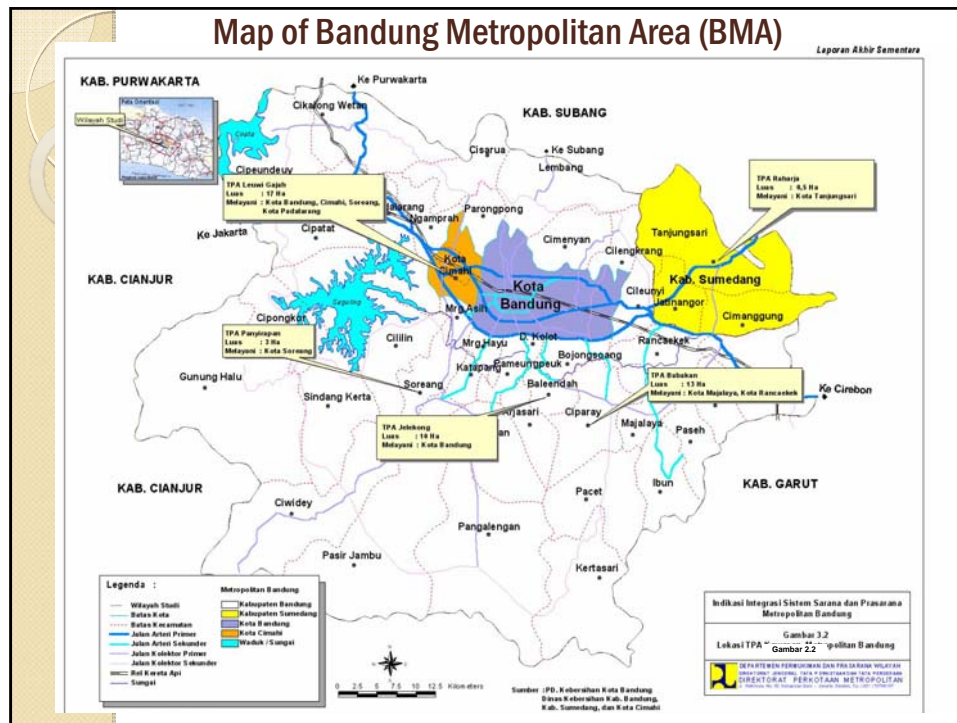


Example of
Bandung, Indonesia

INDONESIA REGION IN ASIA PACIFIC



- Bandung City**
- Total No. of Pop.: 2.6 million;
 - Area : 167,29 sq.Km
 - No. of Industry: 2.112 (including SMEs)
 - Type of Industries:
 - aircraft industry,
 - military industry,
 - Telecommunication
 - Garment/Textile
 - Pharmaceutical;
 - Leather, etc.



Background

- Bandung City was selected in 2006 as the one of pilot project for Eco-town program in order to respond the environment issues around the Asia Pacific region.
- One of the strategy for the Eco-town program is to develop the eco-partnerships among the cities in Asia Pacific region, such as city of Kawasaki, Bandung, Penang, Dalian and etc.
- As a case city, Bandung city has to develop and try to implement the Eco-town concept regarding to the local perspective, which includes the plan, regulation, institution, program and activities.

What have been done

Referring to the steps for Bandung-Eco Town, there are some activities have been carried out, including:

- **Formulating institutional framework** by developing networking and cooperation with West Java Province Government;
- **Local Initiative and capacity building** through
 - Socialization of Eco-town concept through several event of city government official forum during 2006-2007;
 - Participating in training/seminars/workshops on Eco-town;
- **Setting up the industry's perception** by conducting survey and dialogue waste exchange in some industries;
- **Promote the community participation** by providing a market chopping machine and composting process in some location;

The Eco-town Concept on Local Perspective

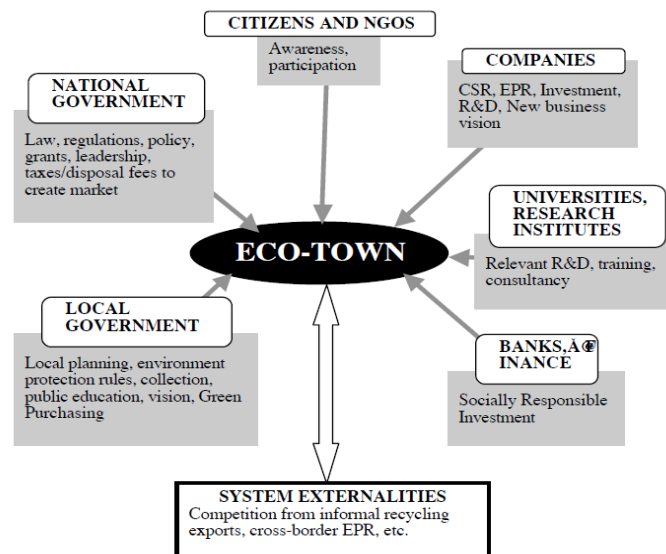
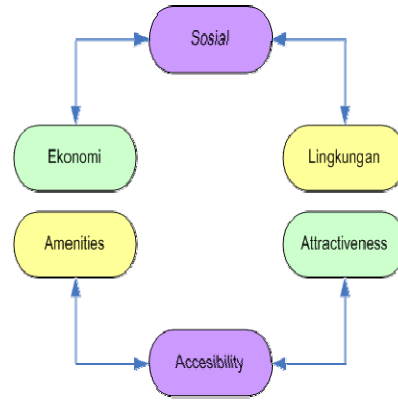


Figure 3 Eco-towns as Local Systems of Innovation

The Basic Concept of Bandung Eco-Town

- To develop the infrastructure for 3R activities and clean production which are workable, less pollutant, green infrastructure.
- To develop the facilities for industries and city services which consider to the carrying capacity of the city and Environmental sound of technology.



9

STEP BY STEP FOR ECOTOWN PROGRAM

Role	Governance			Education	Technology
Stakeholders	Laws & Legislation	Policy Strategy	Finance	Awareness & Capacity Building	Technology Development & Transfer
National Government	Making Policy <ul style="list-style-type: none"> Fundamental laws to develop Material-Cycle Society process with 3 R policy Regulation of 3R Kyoto Protocol Laws about global warming issue 	<ul style="list-style-type: none"> Making a scenario <ul style="list-style-type: none"> Sound Material-Cycle Society Eco-Towns Projects To Promote the important R & D event and industry sector (Environment/Nano-Technology/IT/Biotechnology) 	<ul style="list-style-type: none"> Menetapkan anggaran <ul style="list-style-type: none"> Ecotown Hardwares Subsidies Ecotown Softwares Subsidies Subsidies for research projects related to the environment 	<ul style="list-style-type: none"> Open citizen's mind <ul style="list-style-type: none"> Environment Learning Programs PR Activities (Internet, Brochures, etc) Symposiums Building Capacity Secretarial Office of Communities PDCA Cycle 	<ul style="list-style-type: none"> Attend the international conference 3 R (example) Promoting Ecotown Projects Green Purchase
Local Government	Making Policy <ul style="list-style-type: none"> Managing regional environment Policy related to 3R Basic Plan to reduce Global Warming 	<ul style="list-style-type: none"> well city planning to solve a local issues <ul style="list-style-type: none"> designing eco-town plans Policy mix 	<ul style="list-style-type: none"> Menetapkan anggaran <ul style="list-style-type: none"> Ecotown Hardwares Subsidies Ecotown Softwares Subsidies Industrial waste tax Develop infrastructure facilities which needs and cost source 	<ul style="list-style-type: none"> Establishment of eco-town centers Rising Awareness <ul style="list-style-type: none"> Environmental Learning Programs PR Activities (Internet, Brochures, etc) Symposiums Building Capacity Secretarial Office of Communities PDCA Cycle 	<ul style="list-style-type: none"> Managing of ... limbah Promoting Ecotown Projects Green Purchase
Industries	<ul style="list-style-type: none"> Obey the regulation Opinion 	implementation of strategy : <ul style="list-style-type: none"> Projects planning based 3R Managing environment Managing BS 	Make a strategy and palnning for: <ul style="list-style-type: none"> To invest facilities which needs Cost Paying taxes	Rising awareness <ul style="list-style-type: none"> opening facilities for the public Sustainably Reporting Building Capacity <ul style="list-style-type: none"> Fostering of experts Participation in study groups Establishing groups for cooperation among communities 	R & D <ul style="list-style-type: none"> 3 R technologies and social system waste exchanges Distribution system Establishing demonstration project Green purchase
Banks	<ul style="list-style-type: none"> Obey the regulation 		<ul style="list-style-type: none"> To invest on Eco-Town projects Taxes Payment 	Setting out socially responsible investments	
Universities	<ul style="list-style-type: none"> Actively involve in making suggestion to policy maker 	<ul style="list-style-type: none"> To apply the strategic plan Implementation R&D project Collaborated entrepreneur with academic people 	<ul style="list-style-type: none"> To invest on R&D projects Paying taxes 	Rising awareness <ul style="list-style-type: none"> Reporting research results Building capacity Fostering of expert 	R & D <ul style="list-style-type: none"> 3 R technologies and social system Education methods Assesment tools Coordinating among stakeholders
Citizens/NGOs	<ul style="list-style-type: none"> To Express opinion through public comment/ suggestion on the policy of environment 	<ul style="list-style-type: none"> To critized national and regional policy 	<ul style="list-style-type: none"> Paying taxes 	Participating programs <ul style="list-style-type: none"> Environmental learning programs Symposium Eco tour Building capacity Establishing NGO's Participation in study groups 	

10

THE PROGRESS OF BANDUNG ECOTOWN

PLANNING FORMULATION

- Mapping the cluster of small scale industry
- Mapping the 3 R activities in community level
- Formulation the Action Plan Bandung Eco-town Program
- Concept of Environment Sound Technology for pollution reduction (Waste to Energy)

• POLICY & REGULATION

- Revise the City Master plan to achieve the certain portion of conservation area
- Revise the solid waste management regulation

11

BANDUNG ECOTOWN ACTIVITIES :

• 1. AT MANUFACTURE LEVEL

- To promote Energy & Material Conservation
- To promote the Implementation of ISO 14001
- To promote Environment Sound Technology for pollution reduction

• 2. AT CITY LEVEL

- Sharing information & Public awareness
- Public participation for environment activities
- Establishment of Ecotown Center

12