



SURABAYA CITY

AREA ± 326,36 Km² Divide in to : **31** District and **163** Sub-District.

Administrative boundaries :

- * North : Madura Strait.
- * East : Madura Strait.
- * South : Sidoarjo City.
- * West : Gresik City.

Population : ± 2,800,000 lives (at night).
± 5,000,000 lives (at afternoon).

PROBLEMS

Lack of location in the Final Disposal Site;

illegal waste, throwing waste carelessly

markets along the sidewalk that has the potential of causing illegal waste

Lack of knowledge on 3R and simple waste utilizing technology with results suitable for sale

Lack of enforcement on the laws of waste

COMPOSITION OF WASTE

| ANORGANIC | | ORGANIC | |
|--------------|------------------|---------|-----------|
| Plastic | : 10,09 % | Total | : 72,41 % |
| Metal | : 1,41 % | | |
| Clothes | : 2,68 % | | |
| Glass | : 1,70 % | | |
| Woods | : 2,39 % | | |
| Paper | : 7,26 % | | |
| Roads | : 0,46 % | | |
| Other | : 1,48 % | | |
| Total | : 27,59 % | | |

Community-Based solid Waste Management in Surabaya city

A. BASIC CONCEPT

- Decrease waste starting from its sources
 - Decrease throwing waste carelessly
 - Decrease waste to final disposal
- Sorting waste in each household that is between wet and dry waste,
- To process waste:
 - wet waste is processed into compost
 - dry waste is sold to waste collectors or as a material for recycling

ORGANIC

ANORGANIC

B. TARGET

All citizen

C. AGENT FOR WASTE PROCESS (Stakeholders)

Local Government, PKK, Private, Community, University,

D. THE ACTIVITIES INCLUDE

- Socialization/elucidation**
 - As an act of raising awareness and changing the community thinking pattern on waste;
 - Socialization can be done by the department, PKK or NGO (Socialization at 163 sub-districts and 31 districts).
- Creation of environmental cadre, there are 2 systems :**
 - Facilitator system**
 - Element of community leaders that cares for the environment
 - Selected by the NGOs assisting in that location;
 - Monitoring and facilitator training are done by the government, NGO and mass media;
 - Next, this facilitator is responsible in creating environmental cadres;
 - Until now the number of facilitators have reached 400 person;
 - Cadre system**
 - Environmental cadre has the duty to motivate and mobilize the community in his/her area;
 - The number of environmental cadre in 2008 = 23.195 person, and by the end of 2009 have reached 26.744 environmental cadres;
 - Chosen by a member of PKK;
 - Each desa wisma has one environmental cadre;
 - Environmental cadre that has been selected holds the

JUMLAH FASILITATOR

| Tahun | Jumlah |
|-------|--------|
| 2007 | 123 |
| 2008 | 175 |
| 2009 | 400 |

JUMLAH KADER

| Tahun | Jumlah |
|-------|--------|
| 2007 | 5884 |
| 2008 | 23195 |
| 2009 | 26744 |

3. Community assistance

- Department of Cleansing and Gardens with NGO (Bangun Pertiwi, Sahabat Lingkungan, Pusdakota, BLTKI, etc) gives assistance to the community so the programs in waste management can run well.



4. Distribution of cleaning utilities

- Distribution of aerob composting barrel (year 2009 = 795 units);
- Takakura Basket (until 2009 = 13.669 units);
- Waste cart;
- Development of 14 composting houses.



5. Cleansing Judicial Operation

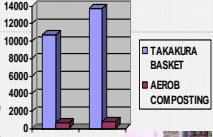
- Carry out enforcement by law on disobedience of cleansing regulation;
- Cooperate with the state court;
- Monitor the proceeding of a judicial operation court.



E. PRODUCT

1. Compost

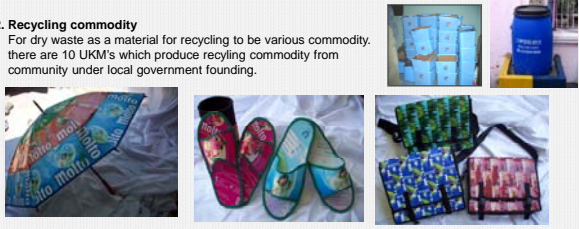
Composting performed by the community is since the discovery of "Takakura home method" which is a method in making household scale compost, it is then developed by the community in various different forms but still using the same method. Distribution of takakura basket until 2009 is ± 13.669 units. In addition, there also those using aerob composting barrel with family of 5 to 10 scale, distribution of aerob composting barrel until 2009 is ± 795 units.



| Year | TAKAKURA BASKET | AEROB COMPOSTING |
|------|-----------------|------------------|
| 2008 | ~10000 | ~1000 |
| 2009 | ~13669 | ~795 |

2. Recycling commodity

For dry waste as a material for recycling to be various commodity, there are 10 UKM's which produce recycling commodity from community under local government founding.



F. PARTNERSHIP PROGRAMS

1. Surabaya Green And Clean Competition

Surabaya Green and Clean competition is stakeholders collaboration activity between Private (PT. Unilever), Mass Media (Jawa Pos) and Local Government. Target is to select the kampung which most green, clean, good waste process activity etc. the number of participants is increase in every year, it's mean the participant of community-based solid waste management is increase to.

JUMLAH RT PESERTA SURABAYA GREEN AND CLEAN




| Year | Number of RT Participants |
|------|---------------------------|
| 2005 | 325 |
| 2006 | 263 |
| 2007 | 335 |
| 2008 | 1797 |
| 2009 | 2774 |



2. Pesta Cak Koen.

This program is like thanksgiving from stakeholders to cleansing worker, more than 5000 workers get the parcel which collected from stakeholders.



Thank you

