

**COMMUNITY INITIATIVES IN SOLID WASTE REDUCTION,
SUKUNAN VILLAGE, SLEMAN, YOGYAKARTA, INDONESIA**



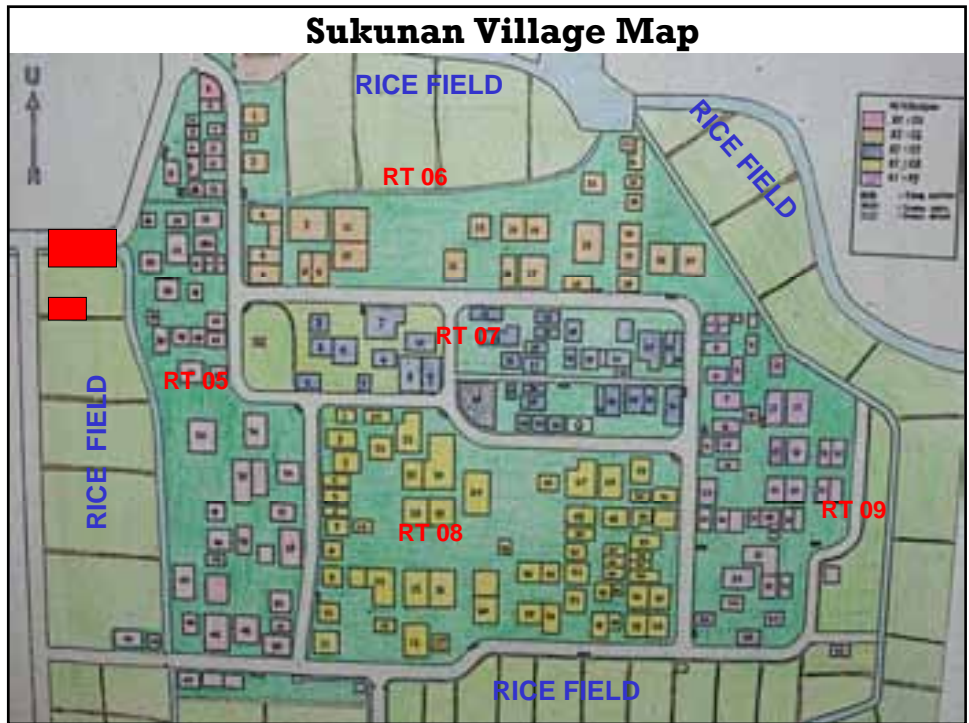
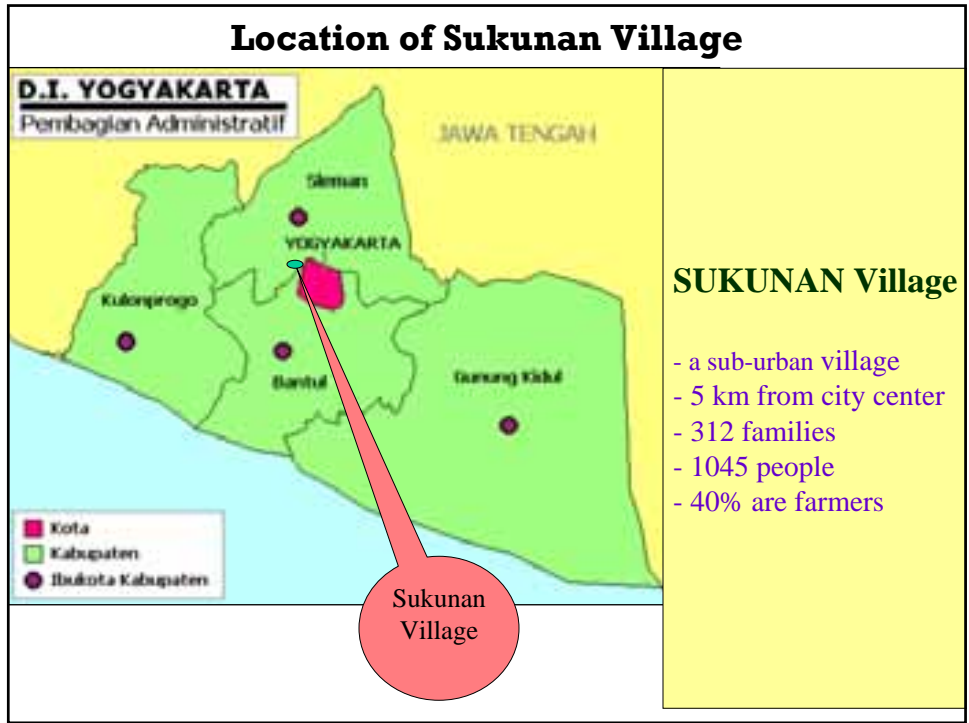
ISWANTO

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Location of Sukunan Village







Welcome to Sukunan
the eco-tourism village













Background of Sukunan Waste Management Program



**I have been living in Sukunan since 1997
First, we met waste problem, Sukunan has not gotten
the waste management service from local Government and
I don't have vacant land for keeping my waste**



**Solid waste from households entered Sukunan rice fields in 2000
→ the first waste problem for community**



Inorganic Waste destroyed rice plants .



Rubbish was found anywhere.





Social conflicts was often arose from Waste



Local Government didn't have capability to treat garbage from all areas. Sleman District just could handle 22% of Sleman area.



Looked for Problem Solving

Observation to Yogyakarta landfill



Many scavengers work in Landfill Disposal Site of Yogyakarta. They are collecting & separating rubbish. Almost all garbage is picked up & sold



The scavengers picked and separated garbage into some types: paper, plastic, bottle, cans, metal. Then, he sold to recyclable waste traders (buyer)

BALADA SEONGGOK SAMPAH
karya Iswanto - Ronadeva

*Aku lahir karena kamu, aku ada juga karena kamu,
Setiap hari engkau hasilkan aku, setiap hari pula engkau campakkan aku*

*Betapa malang nasibku jadi seonggok sampah; selalu dijauhi, dihina dan disia-siakan.
Betapa sedih ditakdirkan jadi setumpuk sampah; dianggap biang bencana dan musibah*

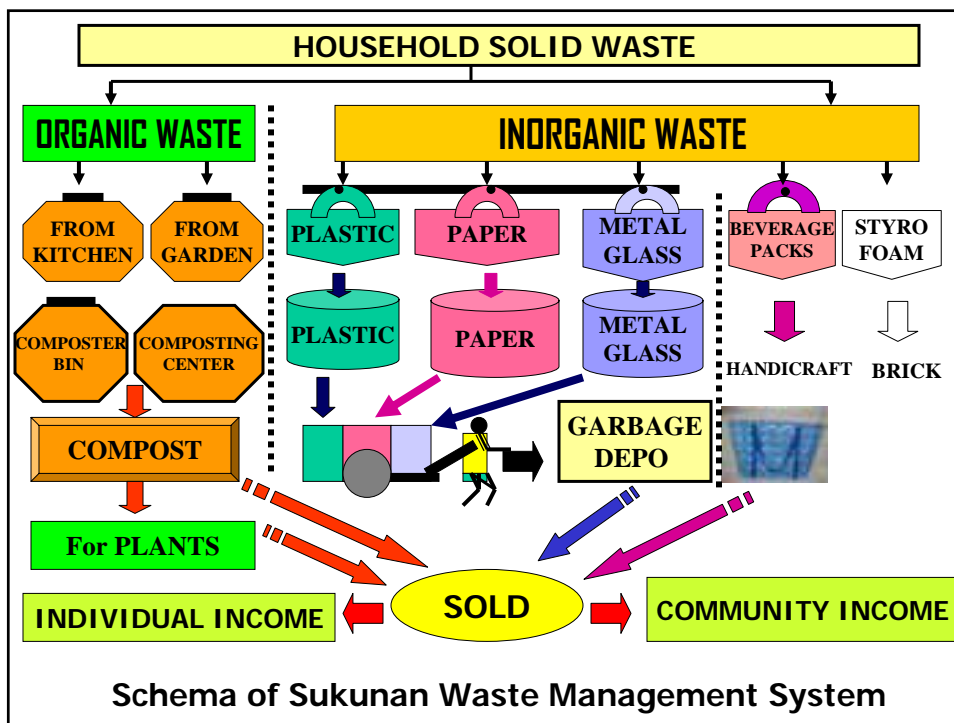
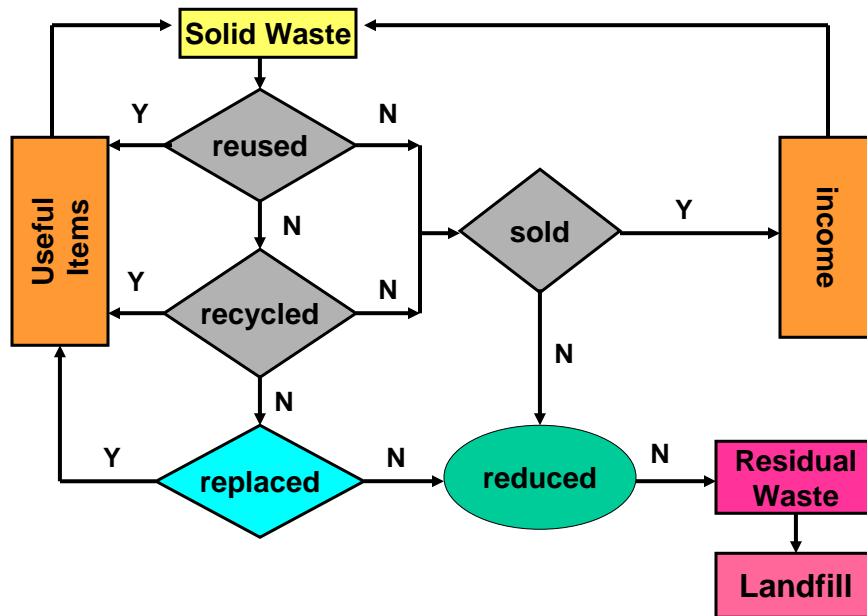
*Salah sendiri engkau buang aku ke kali, hingga aku kirimkan banjir bertubi-tubi,
Salah sendiri engkau bakar aku sembarangan, hingga aku tebarkan racun pencemaran,*

*Salah sendiri engkau buang aku di tepi jalan, hingga aku munculkan kekumuhan,
Salah sendiri engkau buang aku di sembarang tempat, hingga aku sebarakan lalat dan bau menyengat*

*Tidak mampukah wahai engkau manusia? Mengelola aku dengan sebaik-baiknya,
Tidak sadarkah wahai engkau manusia? Ada mutiara dalam seonggok sampah.*



The Basic Idea of Sukunan's Waste Management System



We must manage our solid waste environmental friendly



**Begin from small and begin from now
to reduce the waste**

**Community Empowerment Process
to Implement
the Sukunan Waste Management System**

Steps

- I. Propose the idea to solve waste problems to community
- II. Build a village vision to support the waste management system.
- III. Build community commitment to implement the system
- IV. Establish the waste management team
- V. Make rules for implementation of the system
- VI. Socialize the system to all villagers
- VII. Educate and train community about: 1) waste separation method, 2) compost making, 2) handicrafts making from rubbish, 3) Three R action (reduction, reusing, recycling), etc.
- VIII. Prepare facilities for system implementation
- IX. Implement the system
- X. Monitor, evaluate and record
- XI. Report the results to community and solve problems
- XII. Develop and spread the system to other areas



Proposing ideas and building the commitment

Establishing Waste Management Team



Socialization the system to women





Training how to make compost to children



Training how to recycle paper to children



Training how to separate the waste to children by playing game



Educating how to separate the waste to each household (door to door)



The Sukunan Song

created by Iswanto

**Marilah mari wahai warga Sukunan
Kita jaga kebersihan lingkungan
Jangan lupa kita harus memisahkan
Sampah plastik, kertas, kaca dan logam**

**Kita harus jaga kesehatan
Buang sampah jangan sembarangan
Bakar sampah jangan dilakukan
Sampah-sampah ayo kita kumpulkan**

**Agar lingkungan bersih dan nyaman
Kampung Sukunan sehat dan nyaman**







Placing three bins per collecting point (on 22 sites)



Bins were ready. One set (3 bins) for 10 – 15 families



Campaign to Waste Reduction



**USE
REUSABLE NAPKINS**



**BRING
SHOPING BAGS**



**USE REUSABLE GOODS
Such as : plate, cup, etc**

Implementation of Rubbish Separation



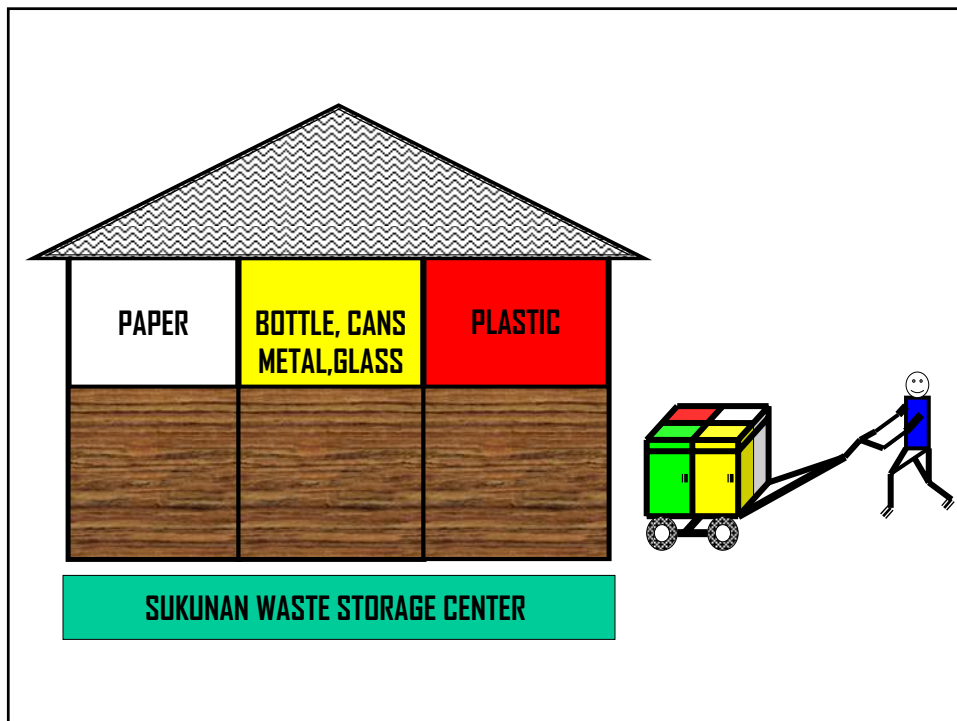
Separate rubbish in each house

- 1) PLASTIC,**
- 2) PAPER,**
- 3) BOTTLE, CANS, GLASS, METAL**



from houses to bins

from bins to the garbage storing site by a collector (weekly)



sale rubbish to the buyer



**Implementation of
compost making
in each household**

Tom 09/05



Clay pots for composting bin



Sukunan's composting bin models



Other Sukunan's Models

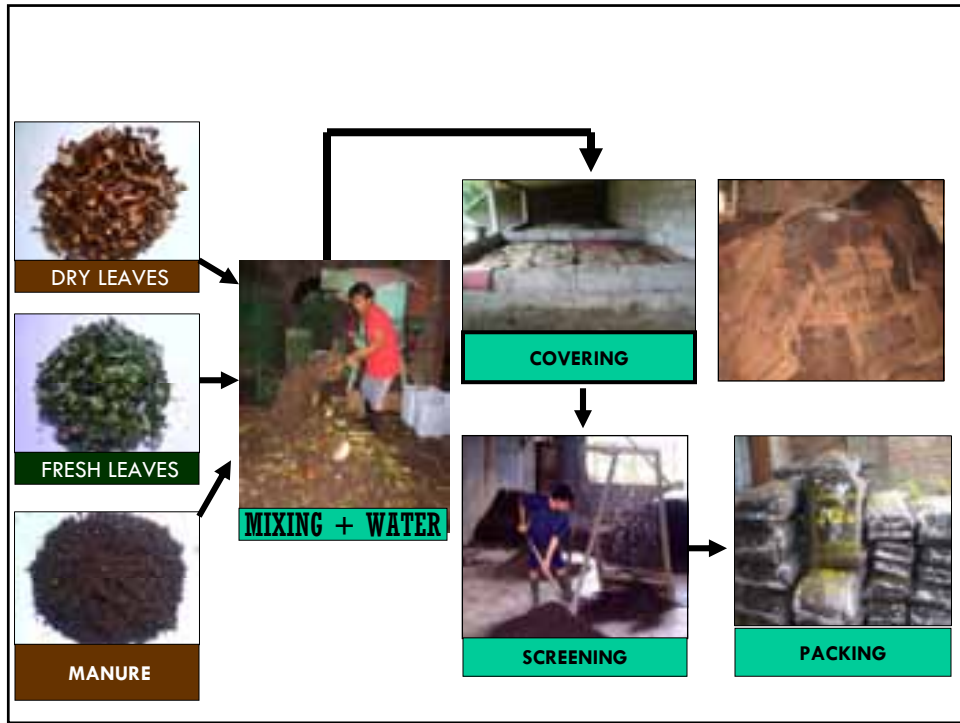


composting in garden



compost making
from leaves and manure

Tom 09/05



Sukunan women make handicrafts from Rubbish



cleaning and setting process





**SUDDENLYMay 27th , 2006, in the morning
Earthquake devastated Yogyakarta (included SUKUNAN)**



**Many Houses were ruined.....
Needed materials to rebuild houses.....**



The idea to use styrofoam waste as rebuilding material was emerged



Grinding the styrofoam into granule



**Composition = 1 cement : 3 sands : 3 styrofoam
+ water**



Styrofoam Bricks



**Many people from many places
visit Sukunan:**

- about 300 – 400 visitors/month
- more than 15,000 people have visited



From governments



From Women Groups



From other communities



From schools



From universities



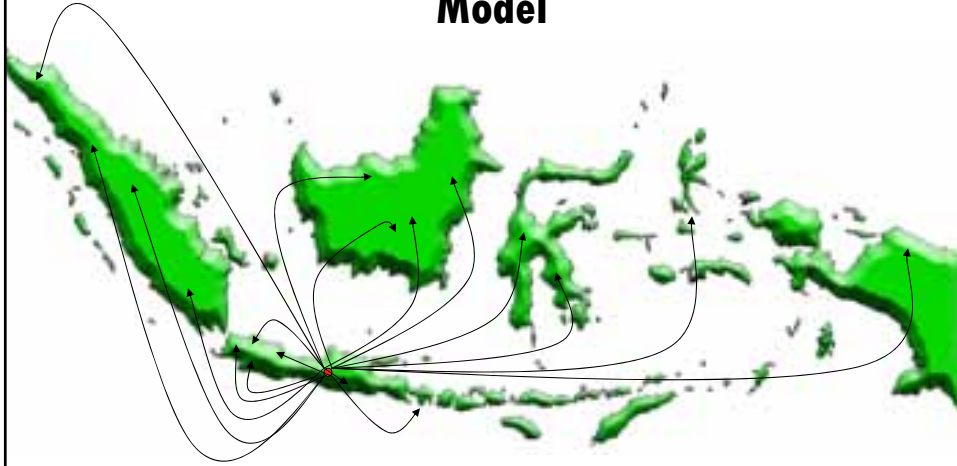


Selling the recycling products to visitors



Visitors can pick organic fruits by themselves

Disseminating the Sukunan Waste Management Model



**from Sukunan to Indonesia
more than 100 villages in Yogyakarta Province has
replicated the Sukunan Model**



Awards for Sukunan



Sukunan got trophies, awards & rewards from Environment Ministry RI & Women Empowerment Ministry RI, 2004

Invited by President of Republic of Indonesia (2004)



RESULTS OF THE SUKUNAN'S WASTE MANAGEMENT PROGRAM

- Rubbish Volume is Reduced
- Awareness & Knowledge are Improved
- Rubbish Separation Habit is Established
- Composting Habit is Established
- Rubbish Burning & Pollution are Reduced
- Dengue Fever Cases are Decreased

- Illegal Dumping Sites are Eliminated
- Economic Benefits for Community
- Economic Benefits for Village
- Benefits for Government
- Benefits for Private Company
- Sukunan Model is Replicated in other places

akhirnya.....

Daripada membuang sampah, lebih baik mendaur ulang

Daripada menebar amarah, lebih baik menabur kasih sayang

Kalau kita hasilkan sampah, lebih baik dimanfaatkan

Kalau ada yang salah-salah, mohon untuk dimaafkan

