

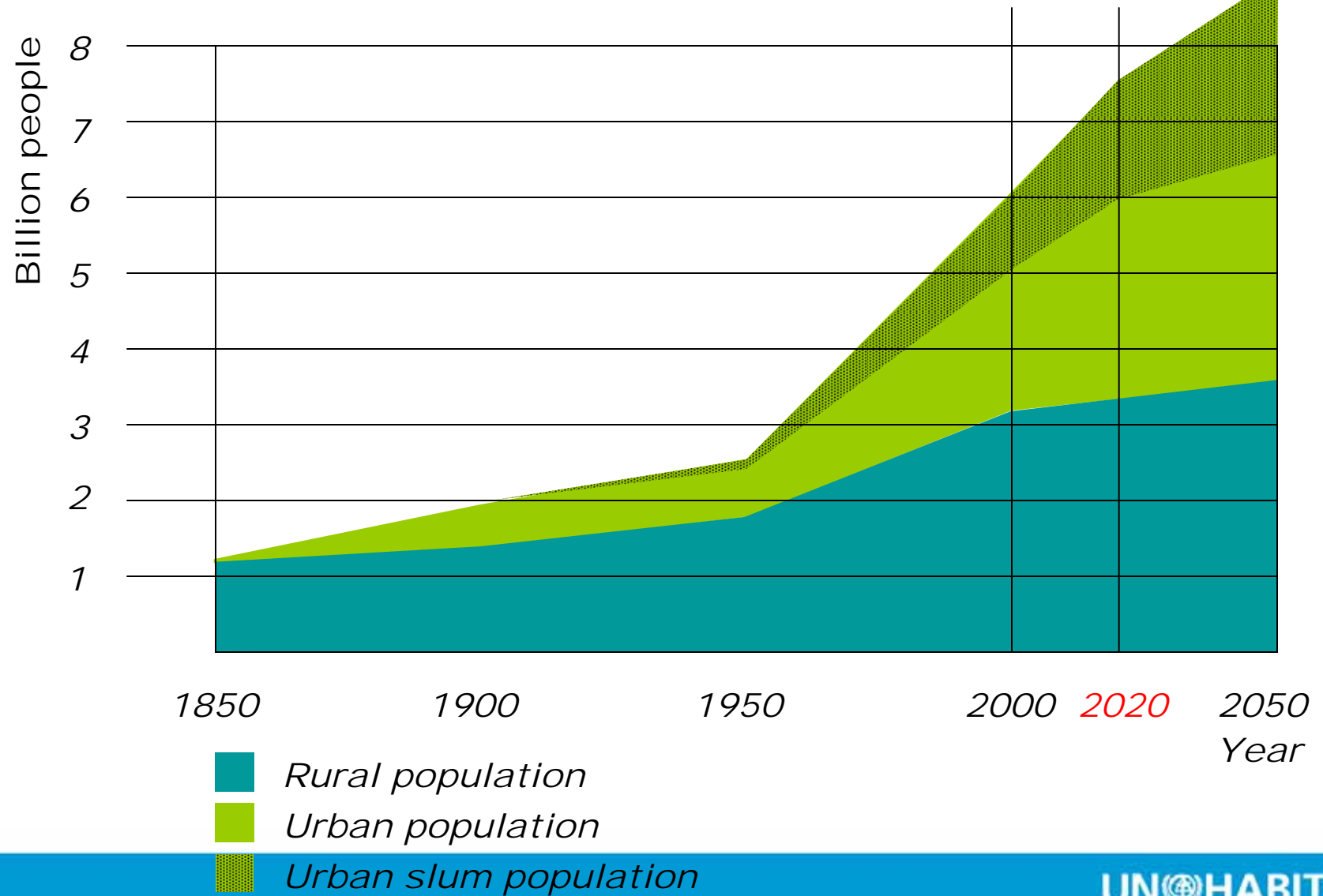
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Solid Waste Management – Issues & Challenges in Emerging Towns

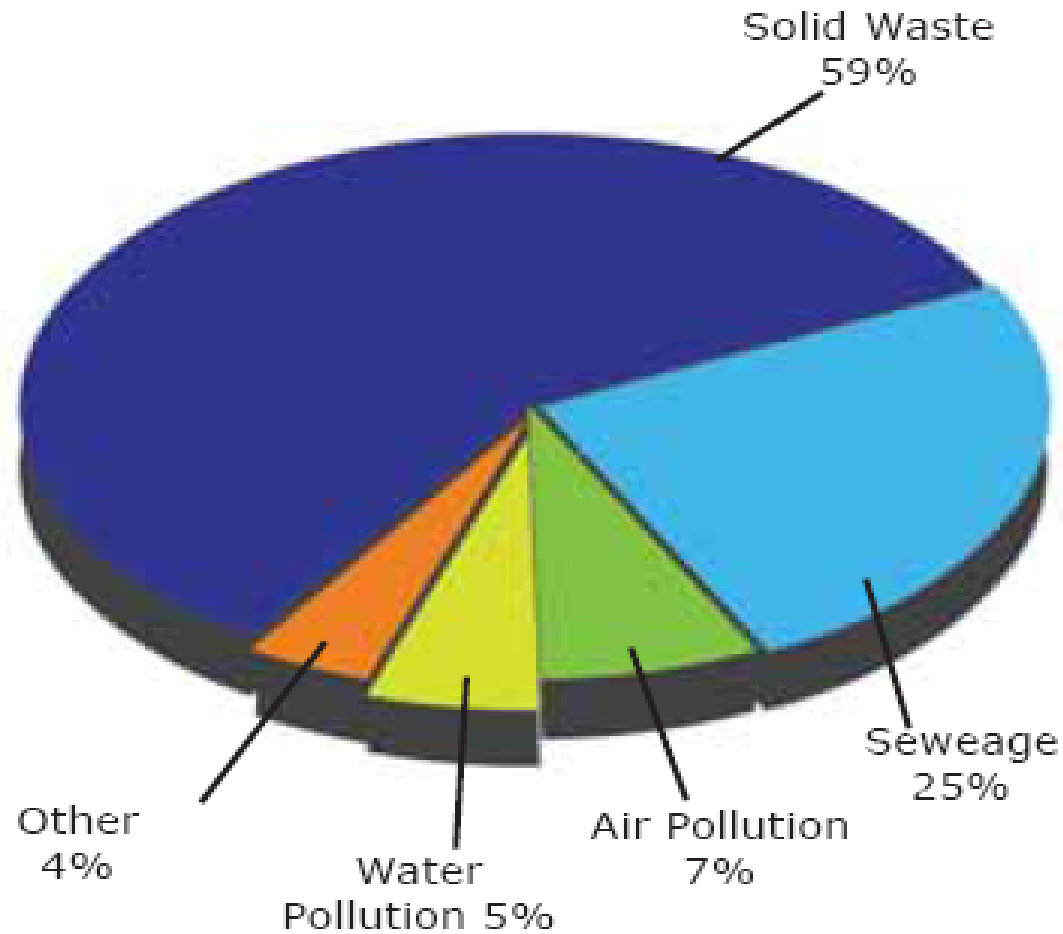


Rajesh Manandhar

POPULATION OF THE WORLD



Public opinion on Environment Problem



Source: CBS, 1997

Present approaches, practices & attitude

- Municipalities “sweep and dump”
- Dump somewhere where people can not see
- Everybody talks about SWM & knows how to manage it but only small amount of waste is being properly managed
- It is other’s responsibility- not mine



Definition of Emerging Towns:

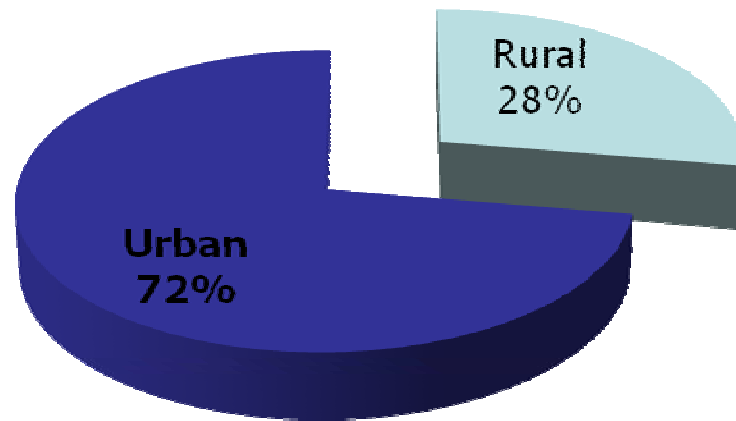
- Population: $\geq 5,000$
- Population Density: at least 10 persons per hectare
- Economy: at least 50% of the population (above 10 years of age) relies on non-agriculture economic activities.
- There are more than 200 Emerging Towns
- Average town size 15,000 pop.



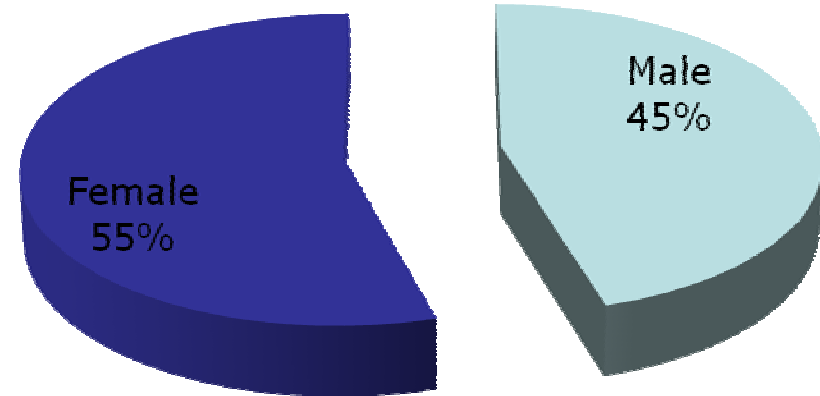
Birtamode

KUSHMA (Household Survey)

Categories

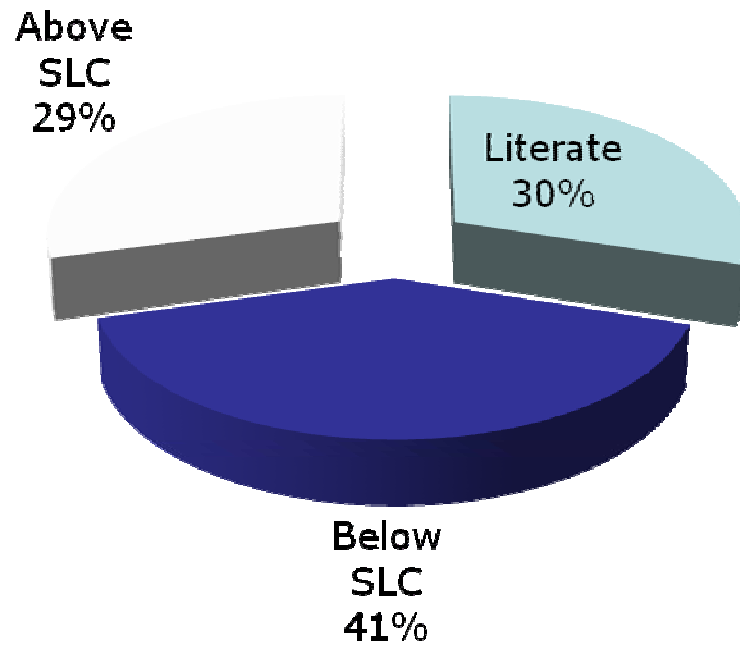


Sex

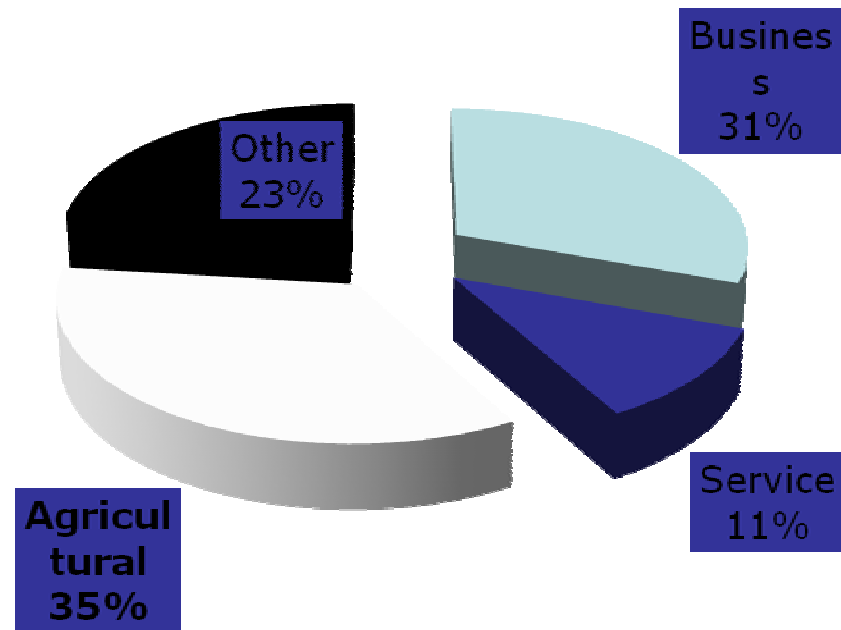


KUSHUMA

Education

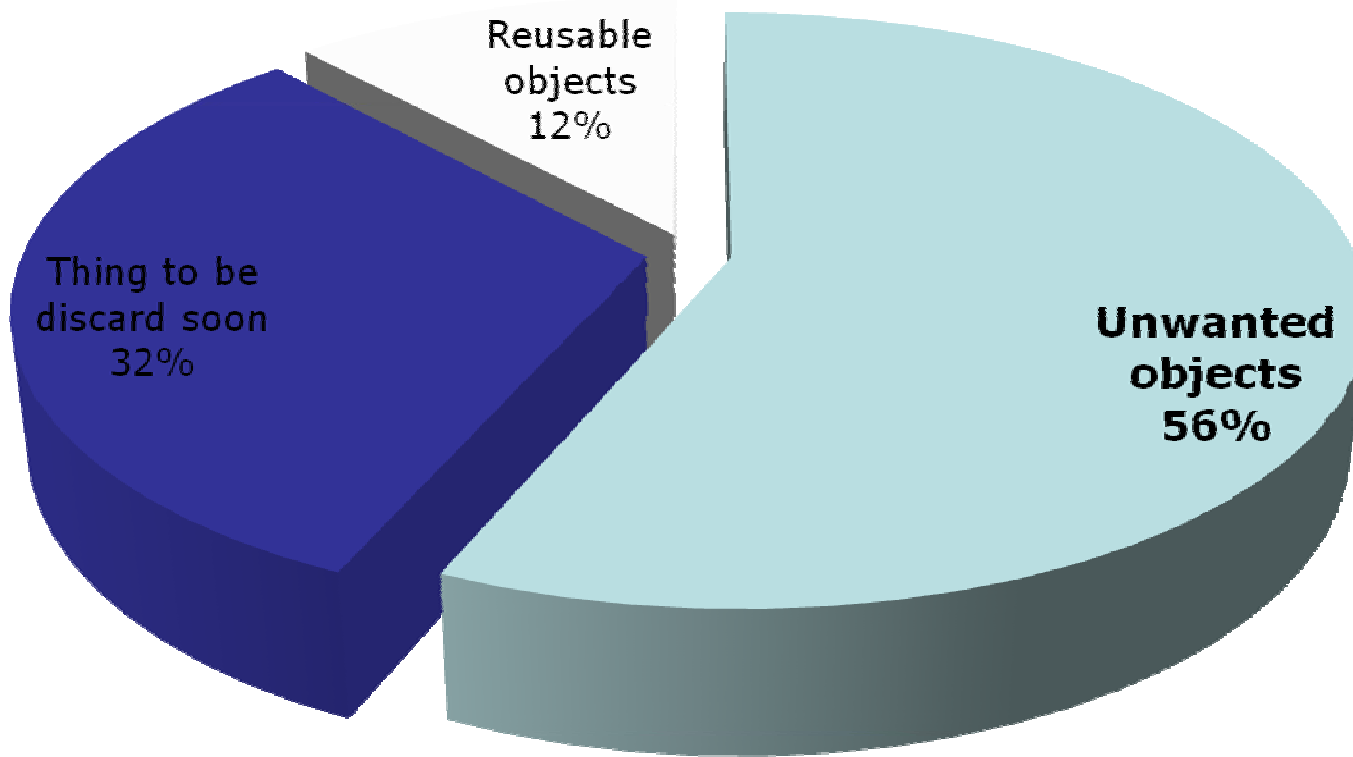


Profession

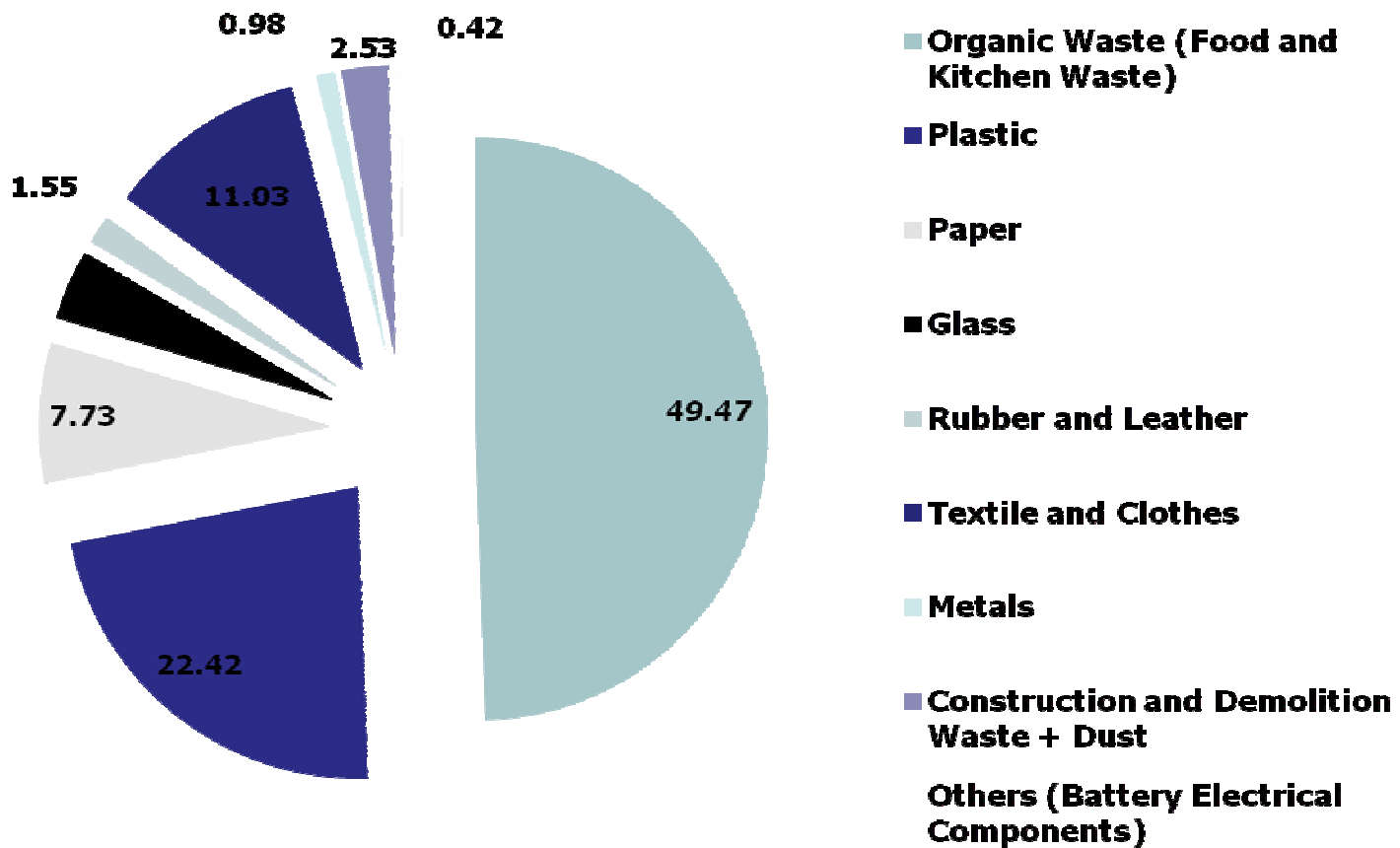


KUSHMA

Definition of Solid Waste



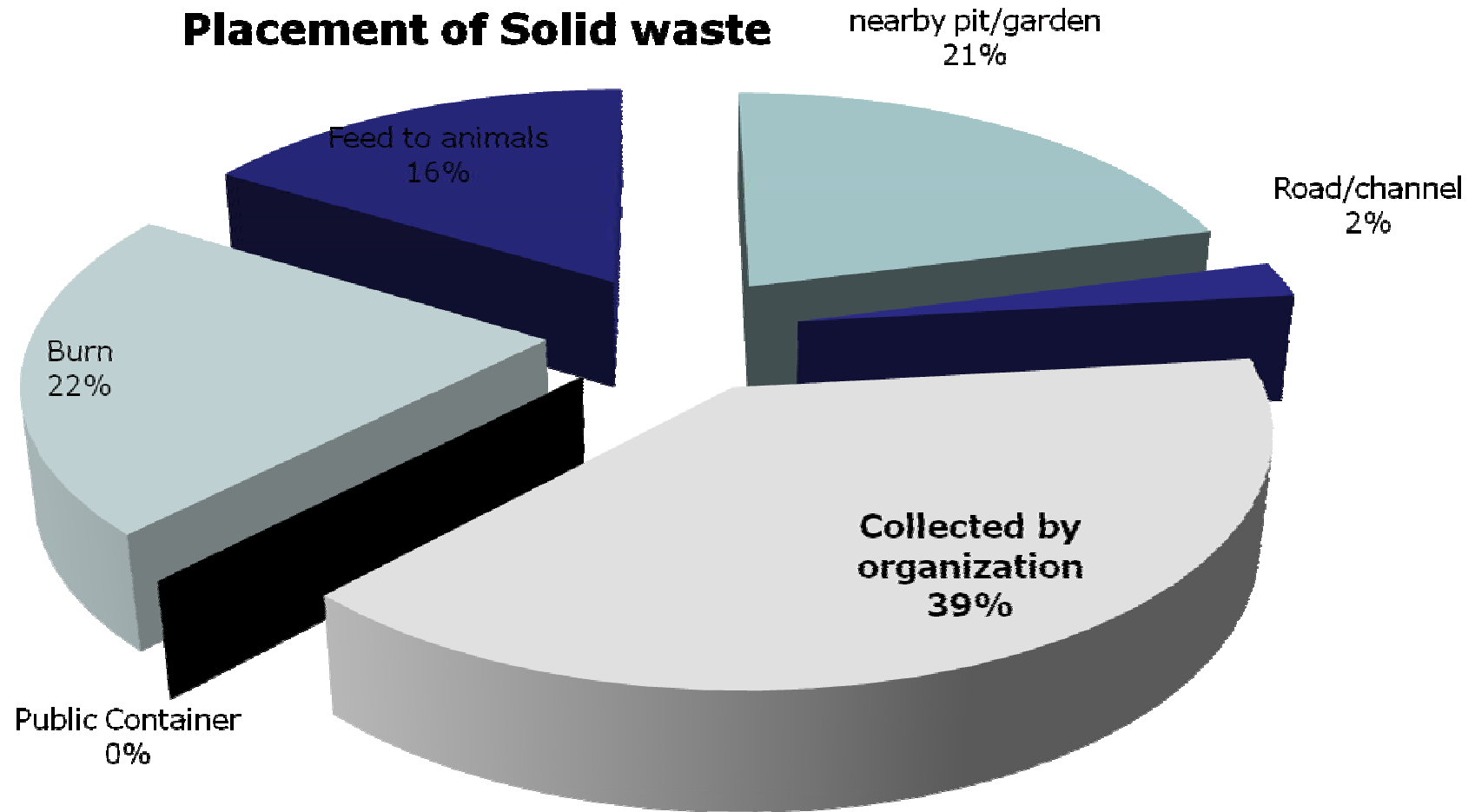
HH Waste Composition



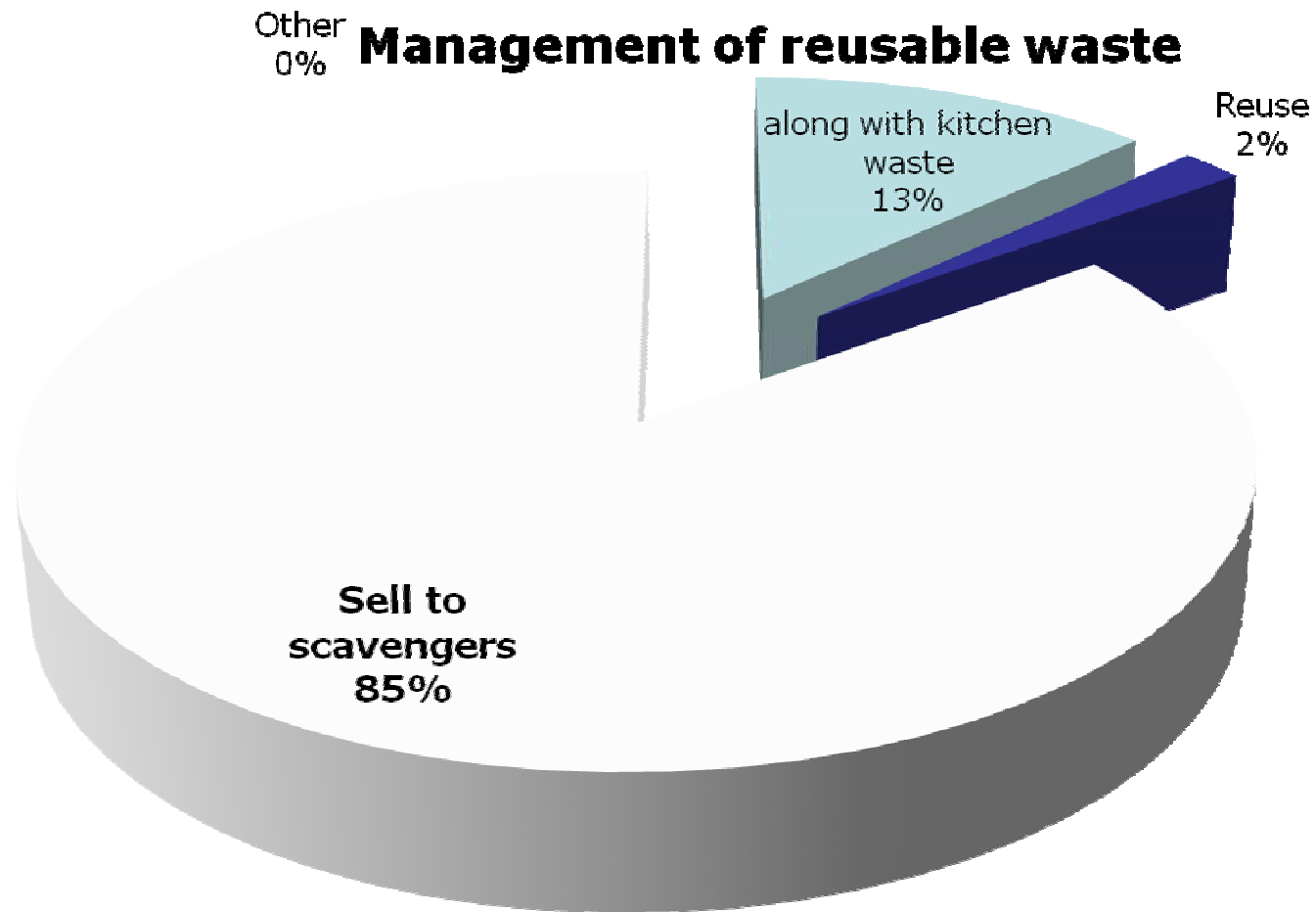
Source: Kusma, 2010

KUSHMA

Placement of Solid waste

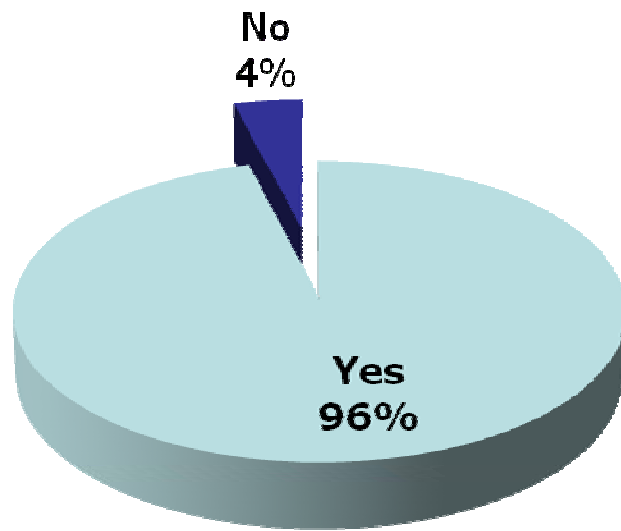


KUSHMA

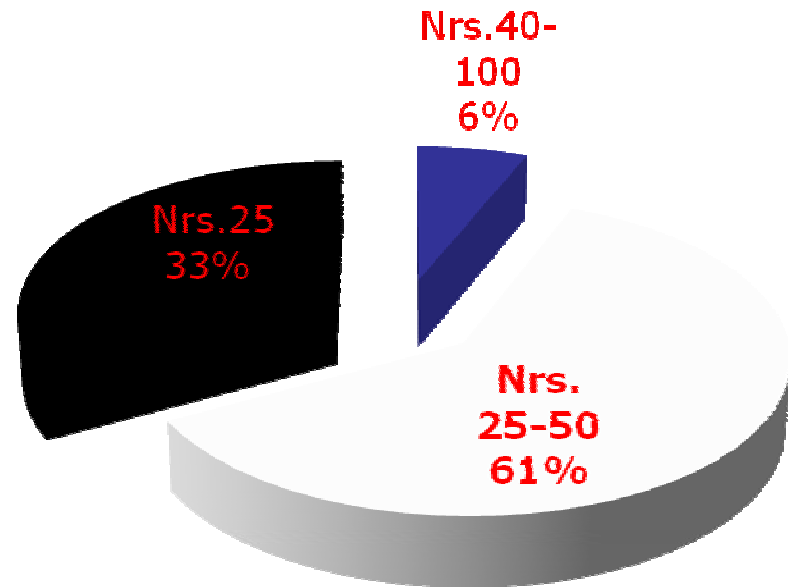


KUSHMA

Payment Support

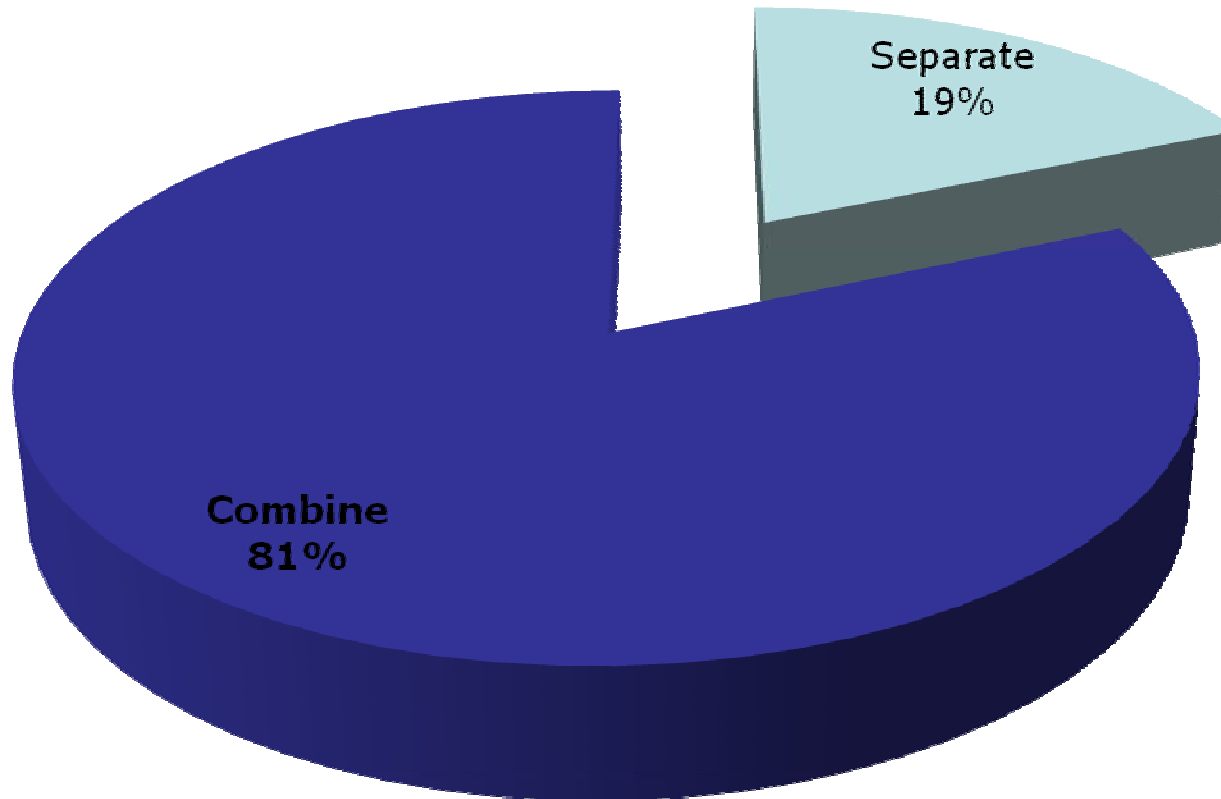


Agreed to support



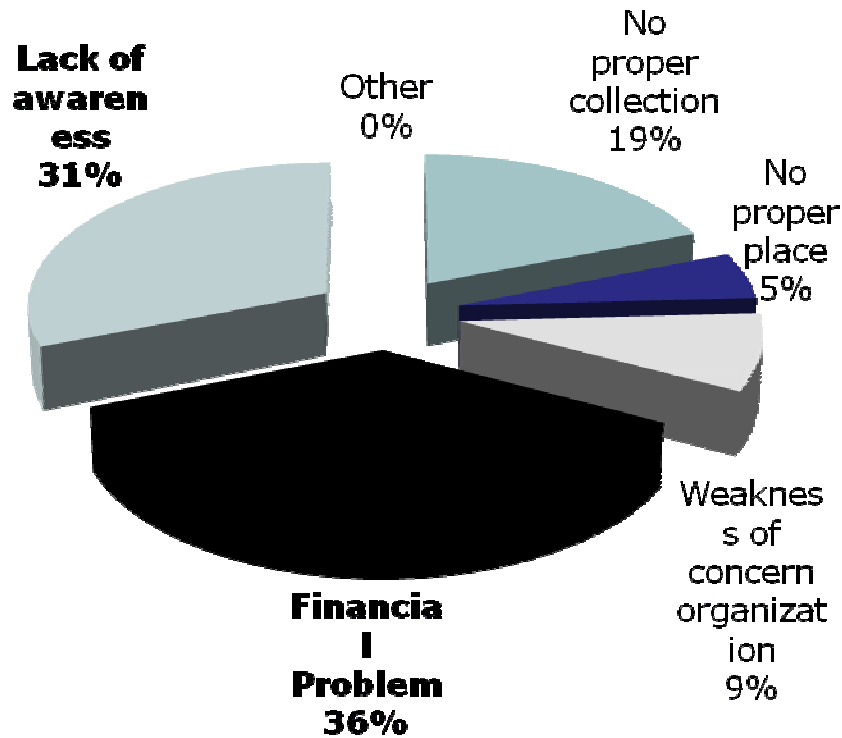
KUSHMA (Commercial)

Waste Segregation

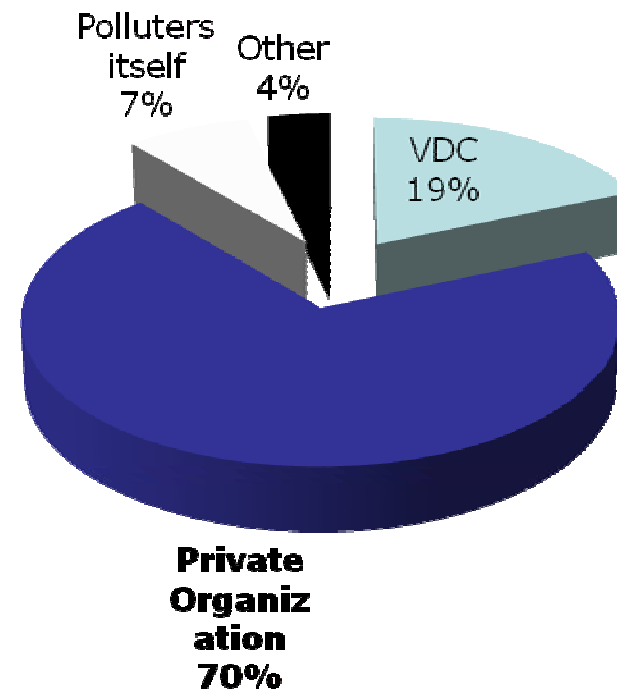


KUSHMA

Problem in SWM



Responsible Organization



Major Issues and challenges

- It is not clear who is responsible?
- Increase in population – increase in waste
- Institutional capacity
- Some focus on water and sanitation but not in SWM
- Lack of understanding on sanitation/waste management as a matter of public health
- Waste management is limited to Sweep, collection & dumping – if it is implemented - Rivers, water bodies are polluted.
- Government bodies are least concerned on these matters at local level
- Effective mobilising communities
- Recycling of organic waste is still a challenge

Opportunities

- Focused on Rural and Municipalities only
- Sanitation /SWM could be an entry point
- Majority of urban the population (10 to 15 % of total) will be served
- Varieties of activities and intervention can conducted
- Less per capita investment
- Household /Community based schemes - still viable options
- Situation is can be improved with little support – no high
- Good infrastructures facilities

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