

Presented at



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Solid Waste Management

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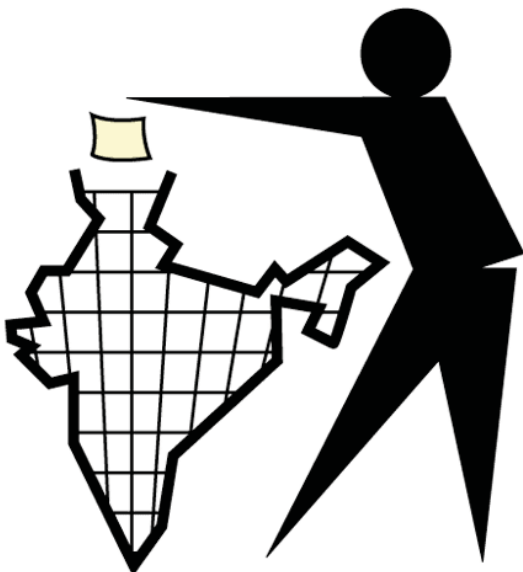


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The Present Scenario

in towns...



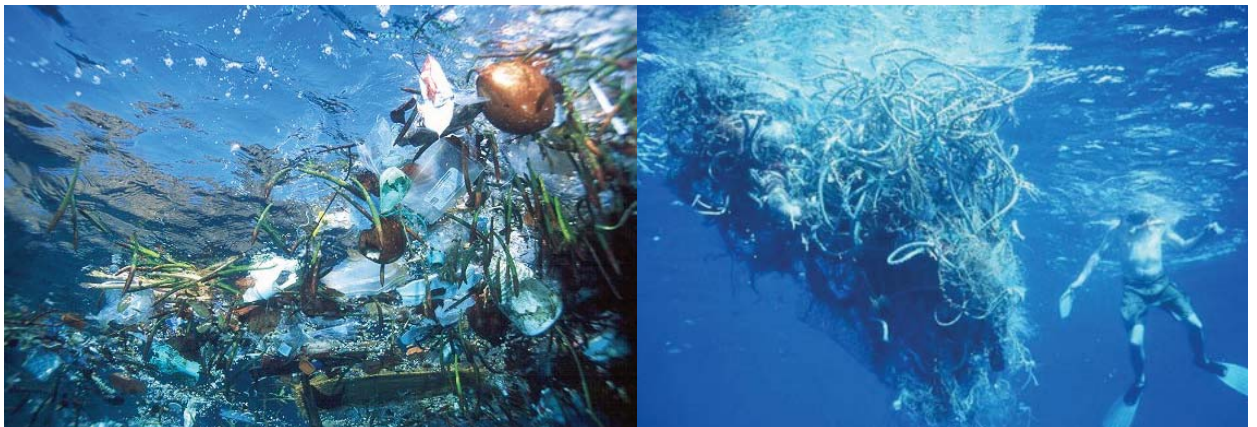
The Present Scenario

out of towns...



The Present Scenario

and this...



The Present Scenario

and this too...



Discard/dump or burn

Soil, water and air pollution of the biosphere, our habitat

In order to reduce pollution:
sanitary landfill
and incineration



Public Health & hygiene concerns

- Blocked open sewers > fly & mosquito breeding > feces-borne & mosquito-borne diseases
- Groundwater becomes polluted microbiologically (sewage, feces) and chemically (e.g. heavy metals) > distant groundwater sourcing and depletion



Public Health & hygiene concerns

Air pollution by dioxins and furans caused by low-degree smoldering fires burning PVC (halogen-containing plastics & plastics additives)

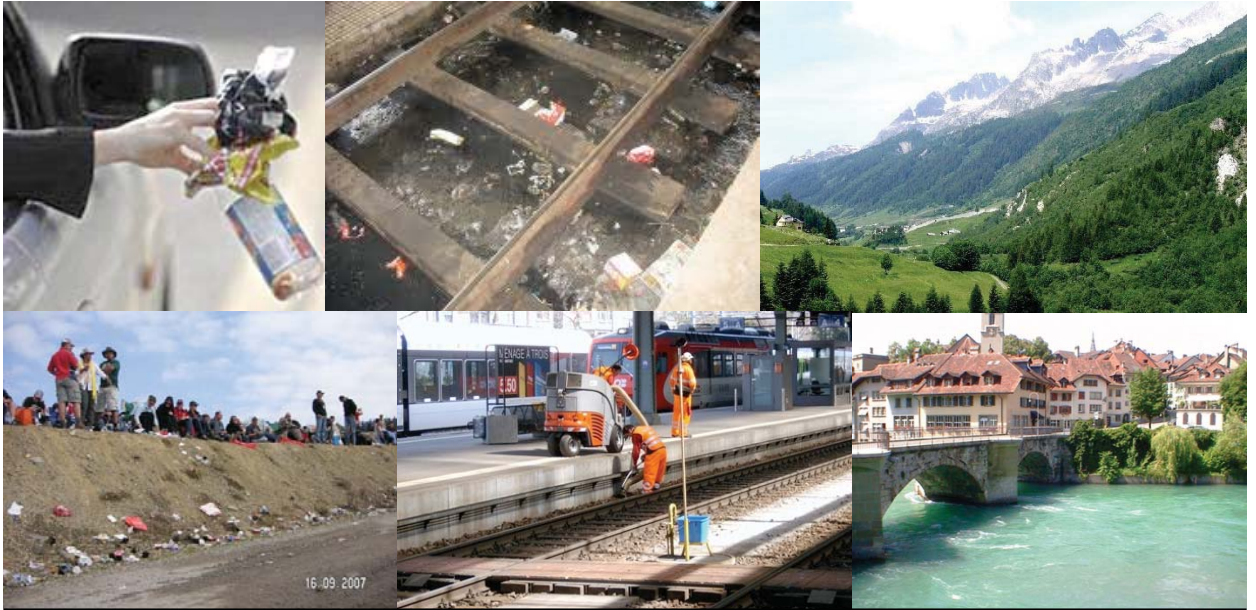
bio-accumulation in fat tissues: mother milk / nervous tissue, serious damage to fetus and embryo – see agent orange damage in Vietnam war



Moral Issues

The Management of the commons

The disparity between personal cleanliness and orderliness in one's own house & compound, and the messiness of the commons.



Technical Issues

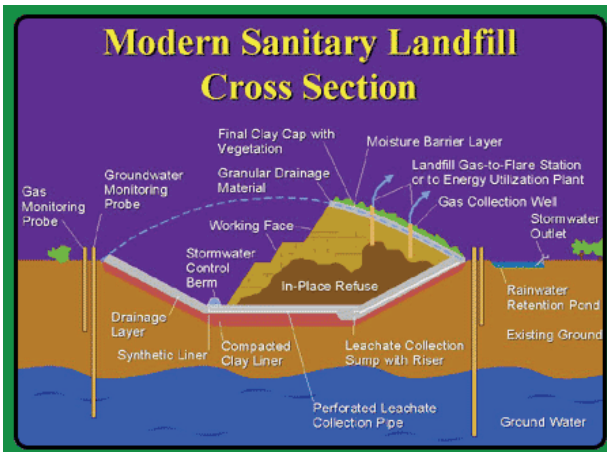
No universal solution for all kinds of waste

Sanitary landfill

- Lining
- Covering
- Collection & treatment of leachate
- Methane retrieval & use

Incineration

- High temperatures
- Fast cooling
- Air filters
- Adequate use of fly ash



Issues of Management

- Adequate collection services missing
- Adequate processing services missing
- Capacity building at lower levels required
- Corruption in administrative & political offices



Promotional Messages

resource mgmt vs. waste mgmt

beautification vs. clean-up



Our Choices

- Prosperity – for some – based on short-term profits and mirrored by mountains of trash;
- Prosperity – for many, for all? – based on smart resource use and reflected by long-term benefits



Possible Actions

Reduce – Re-use – Recycle

- Avoid unnecessary packaging (value addition, branding...)
- Implement waste separation
- Demand adequate collection services
- Compost bio-waste, channel it to where there is a need, stay decentralized as far as possible, keep transport routes short
- Challenge manufacturers of hazardous waste (e.g. batteries) and complex waste (e.g. IT industry) to recycle



Nature is nothing but recycled goods...



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