

Techniques and Technologies: Various aspects of decentralised waste management

Definition:

Decentralized waste management involves localized collection, segregation, and disposal of waste, often at the source of generation

Environmental Factors	Social Factors	Commercial Opportunities	Legal Compliance
Support Waste Diversion	Development of human centric waste management	Augmenting local recycle market	Achieving Legal Compliance
Support Segregation at Source	Aggregation of unorganized sanitary workers	Increased segregated material access by local market	Ease of Monitoring & Reporting
Reduction in Transport related GHG Emissions	Reduced Exposure to Waste	Waste Transportation avoidance	Better EHS Compliance
On-site waste handling and Storage at Generation Point	Developing Equal Inclusive Opportunities	Low CAPEX -Opex Intensive Operation	Quality of Recycled Products
Preferred Selective waste Processing	Skill enhancement & alternative employment opportunities	Non-Gate fee centric models	Project Funding
Avoidance of local waste spillage		Developing local based circular economy models	Approval/ Permission
Support Local waste Recycling Rate		Achieving Resource Efficiency through material circularity	
Achieving Diversion from landfill waste			
Reduced Environmental Concerns			
Land Resource Requirement Availability			

Challenges in Managing & Implementing of DSWM

Need of Space - Not in my Backyard - At building levels, society or ward levels

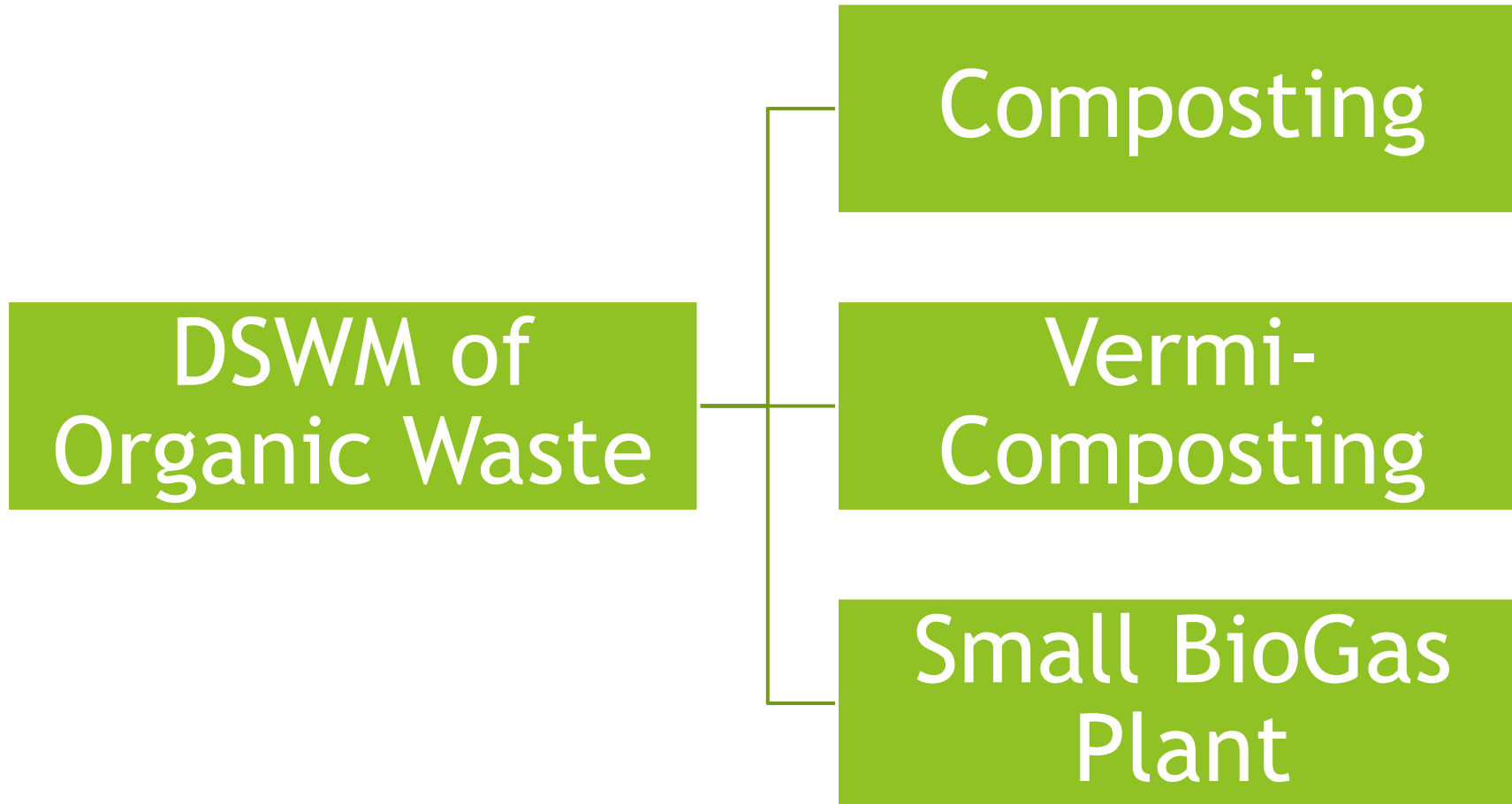
Lack of long term commitment of citizens and volunteers

Lack of knowledge at local RWA levels

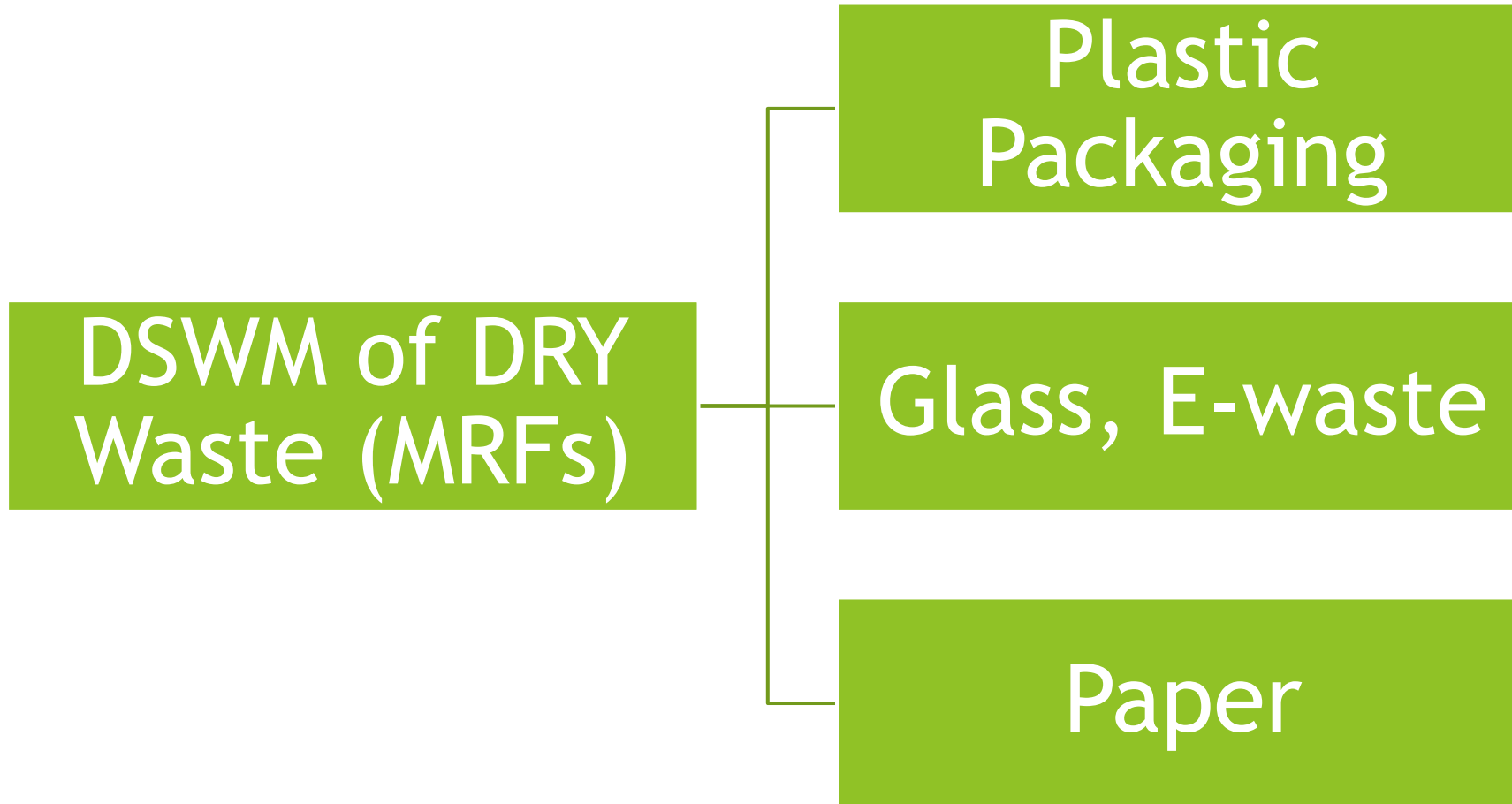
Strengthening of Capacities and Training Programms for Implementation & Monitoring.

Safety & Hygienic processes are hard to manage

Useful and resellable resources are only targeted



Integration of local stakeholders - Entrepreneurs, NGOs, RWAs, Waste Management Service providers Facility Management etc is important.



Integration of local stakeholders- ULBs, Entrepreneurs, NGOs, RWAs, Kabadiwala etc is important. Use of Transfer stations as MRFs







Our Experiences in setting up DSWM in India

GIZ Project - Developing technically and financially viable solutions for decentralized waste management for Nagpur, Pune & Surat
Surat - Implemented Decentralized composting pit in SVNIT Campus.



In the second phase we prepared detail report for Treatment of Textile Waste and using the same as fuel to generated Steam

Our Experiences in setting up DSWM in India

Pune - Supported local NGOs in setting up Decentralized Composting facility for one housing colony with about 650 residence



Our Experiences in setting up DSWM in India

Nagpur - Presented technical solutions for processing of cowdung into wood logs for use in crematoriums.

