

SUPPORTING WAKE UP CLEAN UP* (WUCU)

A work in progress initiative for Solid Waste Management (SWM)

BANGALORE CITY CONNECT FOUNDATION (BCCF)



OF SHRINKING LANDFILLS & PRESSURE TACTICS

Circa Aug 2012 Bangalore had the perfect storm

And some 10,000 tons of garbage on it's streets



Mavalipura Landfill closed down Mandur villagers protest



Garbage contractors week long strike leads to mounting garbage





WAKE UP CLEAN UP

Supported by























Feb 2013.

WUCU conceived as an integrated response to the 2012 garbage crisis

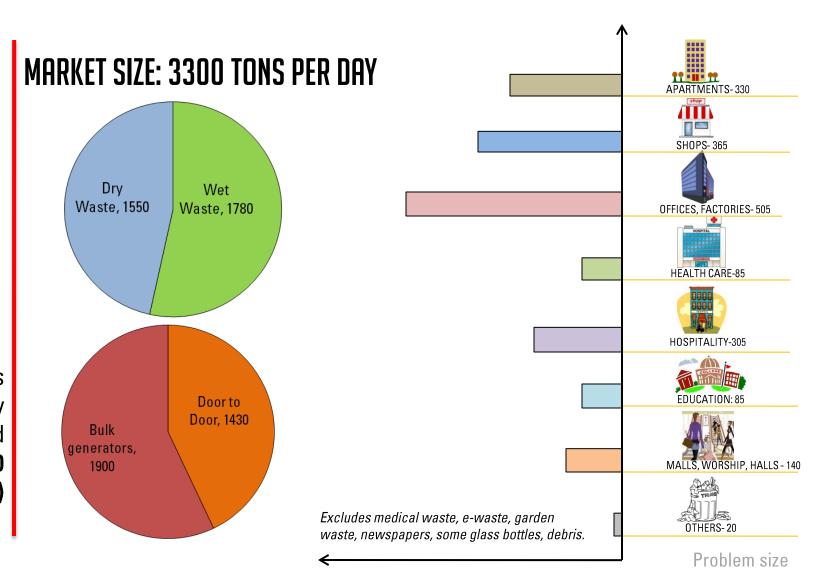
Managing bulk waste in situ was a start point







Current Wave



A PWC study pegs Bangalore's daily Municipal Solid waste @ 3330 tons / day (TPD)



MANDUR IS OUR SINGUR MOMENT

Landfills as Garbage dumps are not sustainable anymore

In Bangalore and across the country





THIS NEEDS A CONTRACT!

Legacy mountains of waste needs to be addressed

KCDC, a composting unit was dumped with 1.2 mn tons of mixed waste in 2008!



- Bio mining
- Bio remediation
- Waste to Energy



MIXED WASTE WOES





Mixed Waste is the bane of our cities

Value from waste declines with higher costs of transport & processing



WE HAVE TRANSPORT CONTRACTORS; NOT GARBAGE CONTRACTORS



Not segregating since the Contractor mixes is falling into their 'trap'

Contractors interested in transport contracts!



RISING CONSUMERISM

Waste generation increasing year on year

Most Manufacturers not concerned with post consumer waste disposal







SECTOR PROFESSIONALISM LIMITED

Lack of scaled up Social Enterprise in SWM

Sector characterized by well meaning small NGOs and informal workers



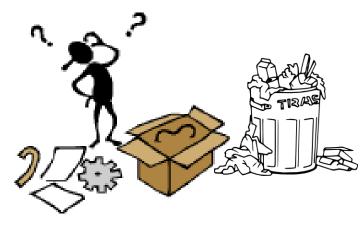






CITIZEN AWARENESS AND ENGAGEMENT LOW



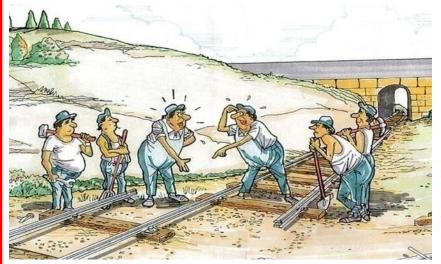


Citizen apathy around garbage exists

Awareness of what can be done is limited



LACK OF INSTITUTIONAL CAPACITY IN GOVERNMENT





- Lack of Governance
- Technology awareness low
- Poor Project Management
- Archaic Vendor contracting practices

Lack of Institutional capacity in BBMP to deal with SWM issues



GOAL: REDUCE WASTE TO LANDFILL BY 85-90%

- Remediation, Bio mining, segregation & processing contracts at Land fills to bring down legacy waste
- The High Court in Karnataka monitoring the situation – on Land fills and other solution elements

Land fills over time should receive only inert, rejected material

For starters deal with legacy waste



WET & DRY WASTE IS THE NEW TWOSOME



- Mandatory segregation in BBMP rules
- Assembly to pass revised laws
- Penal provisions for non compliance with waste segregation

To do:

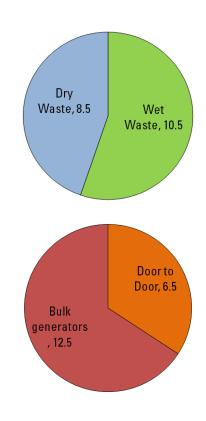
- Waste compliance certification
- License renewal linked to waste handling for bulk
- New tender guidelines to reflect segregation

Segregation of waste at source is a non negotiable necessary step



FROM NIMBY TO YIMBY (YES, IN MY BACKYARD)





Decentralized handling, local processing of waste and recycling is the way ahead

Typical Waste generated per ward: 19 TPD



BACKEND INFRASTRUCTURE TO MANAGE AND PROCESS WASTE

Dry Waste Collection Centre (DWCC) Status:

SI.No	Name of the Zone	No.of DWCC	Existing DWCC	Entrusted to NGO	Entrusted to Contractor	Under Progress/ Yet to start
1	South	44	9	6	3	35
2	West	44	8	2	6	36
3	East	44	12	5	7	32
4	Mahadevapura	17	1	0	1	16
5	Bommanahalli	17	10	2	8	7
6	R.R.Nagar	14	3	0	3	11
7	Yelahanka	11	6	2	4	5
8	Dasarahalli	8	3	2	1	5
Total		199	52	19	33	147

- 27 integral yards (Wet + Dry) planned3 underway
- Fresh wet waste capacity through KCDC, Composting, Bio gas, hybrid technologies

One DWCC (dry)
per ward and One
integral yard (wet
& dry) per
Assembly
constituency
planned



DEVELOP THE SWM VENDOR ECOSYSTEM

- Social enterprise for waste management to be encouraged
- Develop a vendor accreditation process
- Rework tenders to accommodate new market paradigms
- Work with entities that fund social enterprise to realize scale
- Build a certification system to certify proper waste handling by bulk waste generators

Need to build professionalism and scale operators among SWM vendors

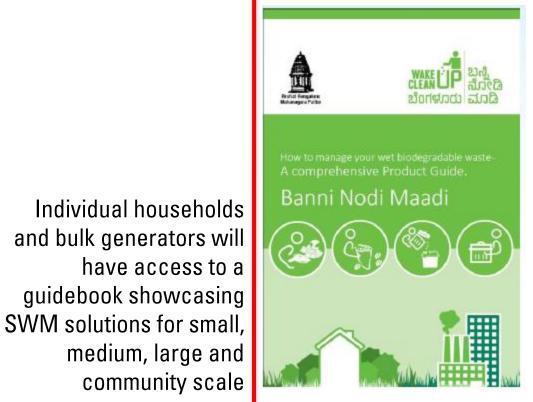


KEY COMMITMENTS OF BULK GENERATORS

Track	Target	Anchor	Commitments
Trade	250	FKCCI	12 Pilots across business districts in six weeks, monitored and document to scale
Hospitality	300	Hotel Association	Setting up independent collection and processing facility with clearly defined norms
Healthcare	250	Manipal Hospital	Community collection centers for Domestic bio-medical waste; 100% segregation and in situ processing
Corporate	300	CII	In situ management of waste; Tech parks
Homes	250	CREDAI	50 model wards; 60 Pilots by CREDAI; DWCC's in all 198 Wards
Others			In situ waste processing in Government buildings; WM in BDA layouts; Commitments by political leaders

Bulk Generators handling their waste in-situ or using shared services to reduce the pressure on the Public system

SOLUTION GUIDEBOOK





Name that could not be consumed that you consider

Main staps in the implementation of the programme levelyet.

· Placement of two reports bins is all continue areas of the previous

liftning arms, kitchers, new wooding machines & autor soulors, quant





CITIZEN ENGAGEMENT







- Packages for zonal initiatives
- WUCU awareness films
- Kits for communities and wards
- WUCU Ninjas at the Door steps
- Fame boards & shame boards
- WUCU Gift kits
- Dedicated focus on children and youth

Citizen awareness and engagement across 50 model wards planned

'Black spot' reduction with community involvement feasible





At some stage the post consumer waste needs a Extended Producers Responsibility (EPR) bill

EXTENDED PRODUCERS RESPONSIBILITY (EPR)



- Pyrolysis for polymer fuel from plastics
- Plastic pellets for road asphalting
- More needed......



SWM REGULATOR AND SWM PLANNING / IMPLEMENTATION TEAM

Need for Regulator

- BBMP cannot be policy maker, implementer and appraiser
- New JN NURM recommends Regulator for Civic services

BBMP needs SWM professionals

- Capacity building
- Training
- Set up for PMO and VMO at BBMP
 - Scope for external experts
- Third party Monitoring
- Pilots and scaling

Akin to Electricity
Regulator, will
need a regulator
for SWM as a
good governance
measure



HOW TO GET INVOLVED WITH WUCU

Institutions

- Commit Zero Waste to landfill
- Get diagnostics done on waste generated and how handled
- Determine and implement best way of handling waste
- Adopt the extended ward neighbourhood to make it zero waste
 - Awareness building
- Adopt neighbourhood DWCC
 - Viability gap funding
- Get employees to Volunteer

Individuals and institutions can get engaged with the WUCU campaign

Advocacy and financial involvement options

Individuals

- Ensure Daily Waste Segregation
- Never handover Mixed waste
- Don't Litter the neighbourhood
- Volunteer in community efforts to reduce waste



THE CITY CONNECT PLATFORM

The City Connect
premise is that
collaboration
between
Government and
Civil society
catalyzed by
Industry can lead to
better cities

