

Presentation from the
**Workshop on
Innovations for Scaling up to
Citywide Sanitation**

October 16-17, 2012, Ahmedabad



Organised by PAS Project, CEPT University

MAHAD...

An Open Defecation Free City in Maharashtra

Presentation for the workshop on
Innovations for Scaling-up to Citywide Sanitation

16th Oct, 2012



MAHAD... ODF ???!

DURING DATA COLLECTION WORKSHOPS.....

S.N	Description of data elements	Unit	FY 2010-2011	FY 2011-2012
	COVERAGE OF TOILETS	%	96.6	97.8
	<i>Sanitation Coverage</i>			
1	Total Number of Properties in the City	Number	8221	8527
2	Properties with toilets	Number	7300	7632
3	Households dependent on functional community toilets	Number	640	710
4	Total Number of Properties with access to toilets	Number	7940	8342



Preliminary Discussion

PAS Team: As per your data, toilet coverage is calculated as 98%, which seems to be very high

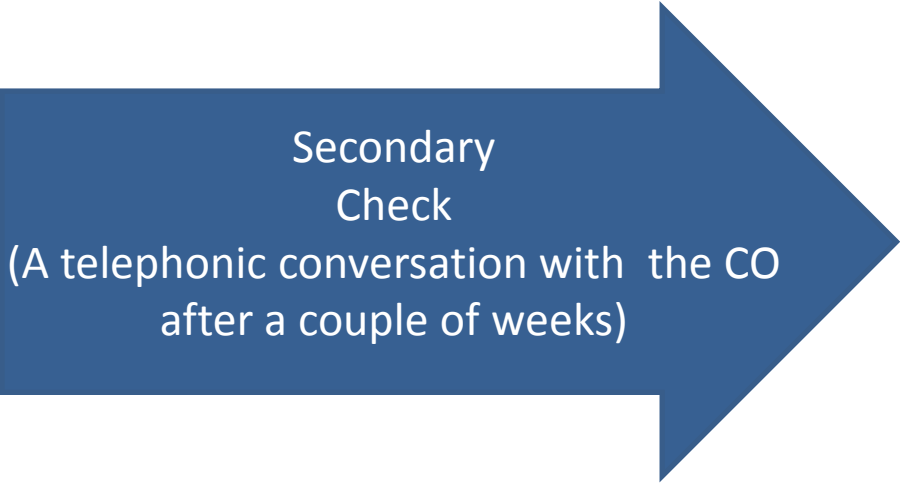
Mahad Officials: Yes, it should be even more than that!

PAS Team: !!.. Do you mean that there is no open defecation seen in Mahad?

Mahad Officials: Yes, you wont see any open defecation.

PAS Team: Are you sure?... If we plan to visit your city, or if anybody from GoM visits your city, no OD will be seen?

Mahad Officials: Yes, you may visit our city anytime...



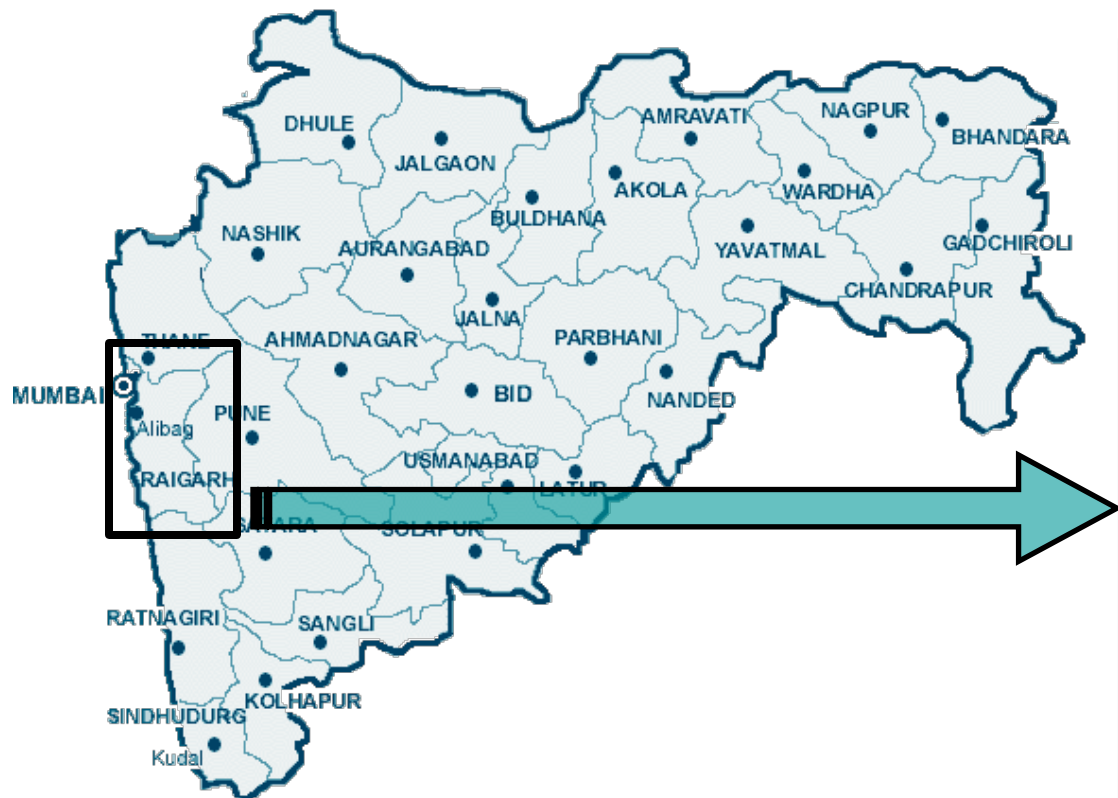
THE STORY NARRATED BY THE CO:

Around 25 years ago, the then **president Mr. Sawant**, had taken an initiative to stop OD in the city... He used to walk through the city in early mornings and capture the photographs of people defecation in the open.. He used to publish those photographs in daily newspapers of Mahad along with their names.. He also imposed fines on them.. He did not stop there, he filed cases against them who did not stop defecating in open even after such actions by the president..

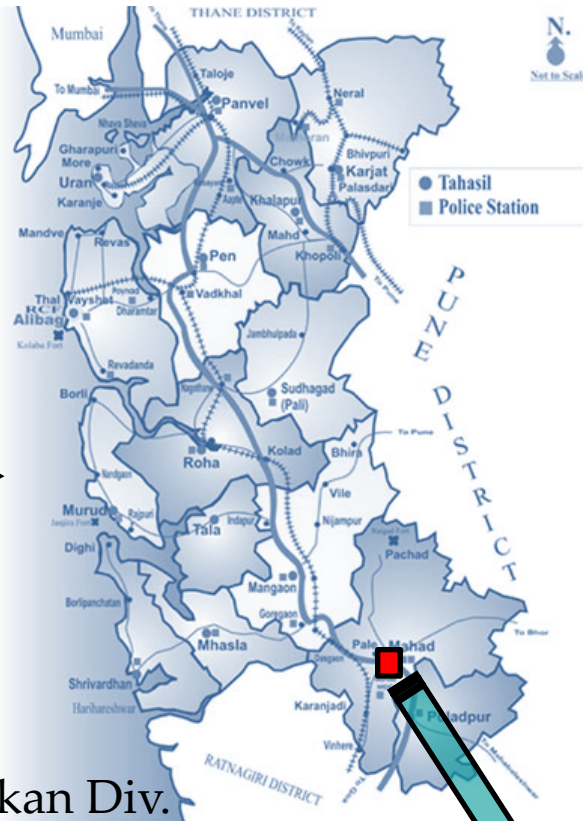
The president continued for next 10 years and the trend is continued even till date...

Mahad... a Class C City along river... ODF ???!..... Lets Visit Mahad

INTRODUCTION...



The State of Maharashtra

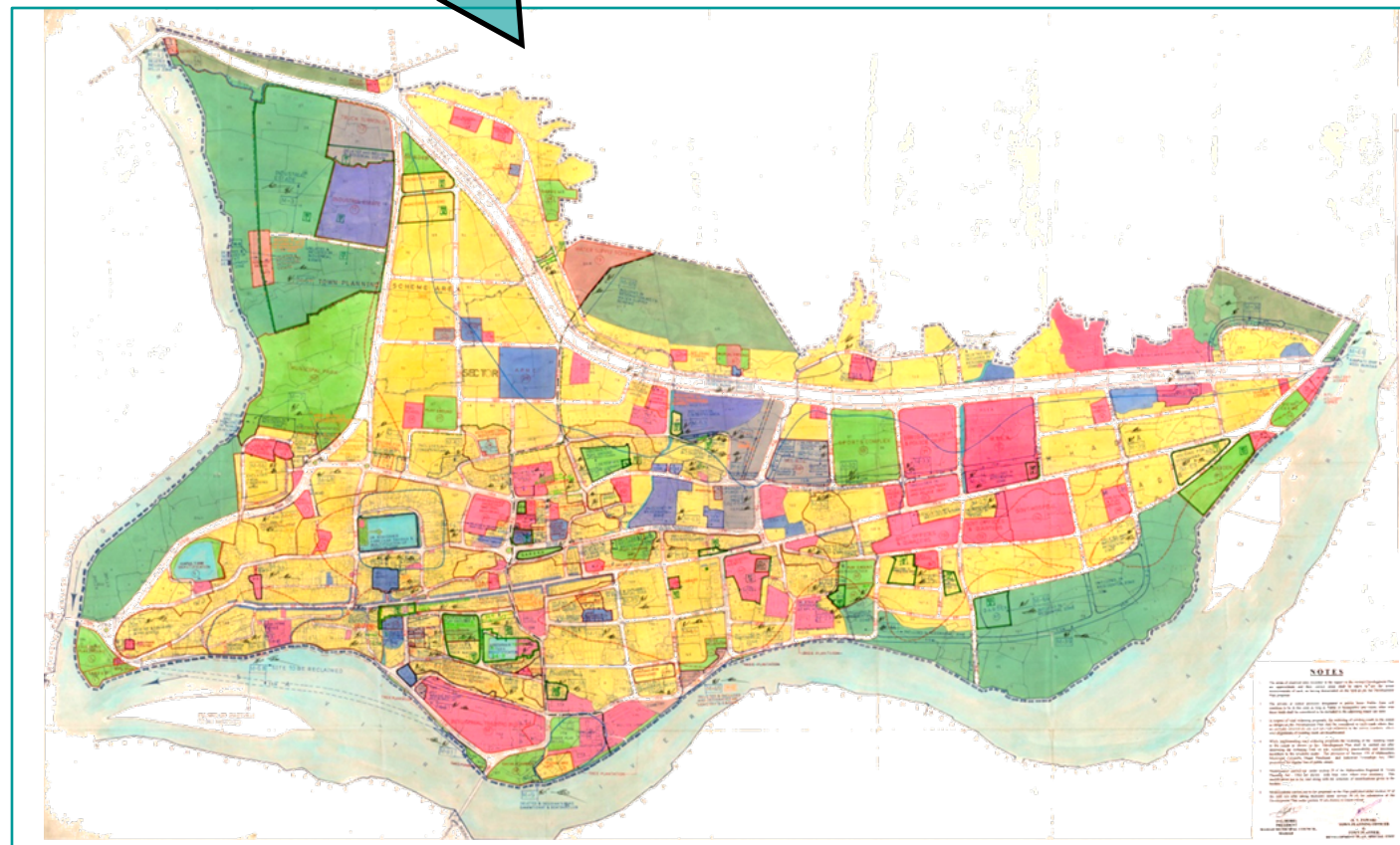


Raigadh District in Konkan Div.

GENERAL DETAILS

Area:	4.07 km ²
Population (2001)	24, 276
Population (2011)	27, 531
No. of HHs (2001)	5,287
No. of HHs (2011)	6,369
No. of Slums(2011)	0
Population in slums	0
% of Slum population to total	0

- City of rains..
- Beautiful surroundings and pleasant climate
- 80% roads concretized
- Famous for the Drinking Water Satyagraha of Dr. Babasaheb Ambedkar for Dalits at Chavdar Tale
- Avg LPCD= 120



SUSPECTED OD SITES...

Innovations for Scaling-up to Citywide Sanitation



Generally, in any small city, sites along river, community toilets or open spaces in and around city are visualized as -



CITY AT A GLANCE...

Innovations for Scaling-up to Citywide Sanitation



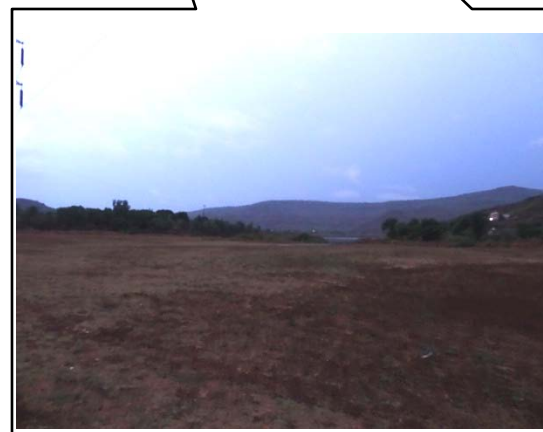
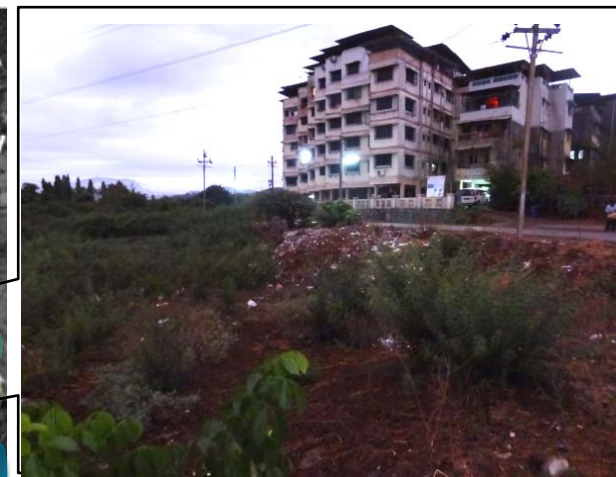
WITHIN THE CITY...

Innovations for Scaling-up to Citywide Sanitation



EXISTING OPEN SITES...

Innovations for Scaling-up to Citywide Sanitation



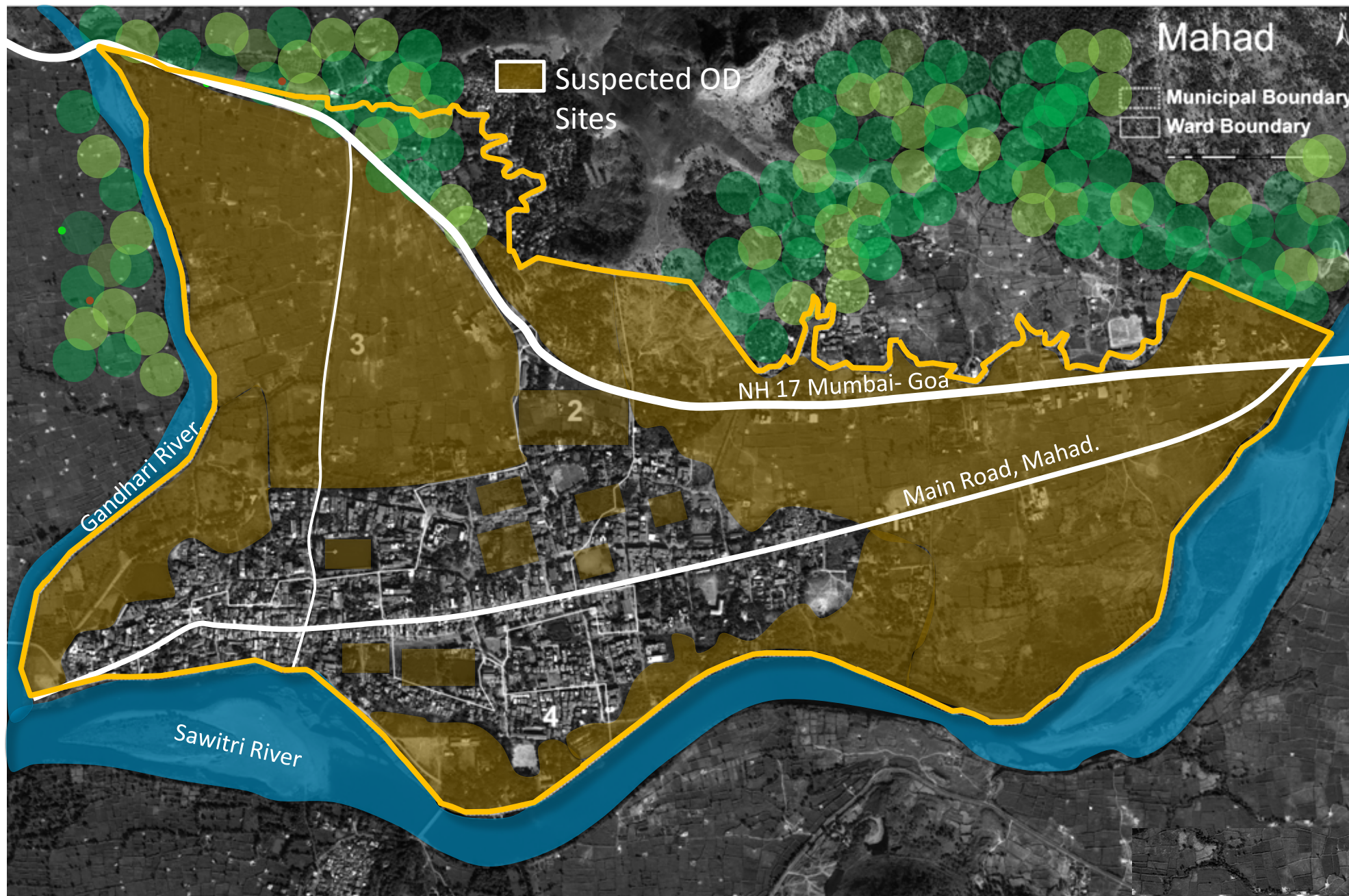
EXISTING OPEN SITES...

Innovations for Scaling-up to Citywide Sanitation



DEVELOPED OPEN SITES...

Innovations for Scaling-up to Citywide Sanitation



Umm.. no, we haven't seen any OD



President



CO

Discussions with ULB and Citizens



Why go out if toilets are there!



WHAT DO RECORDS SAY...?

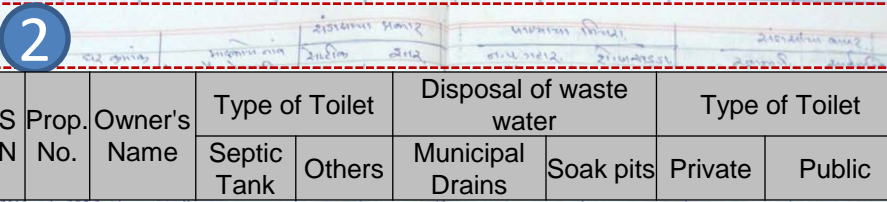
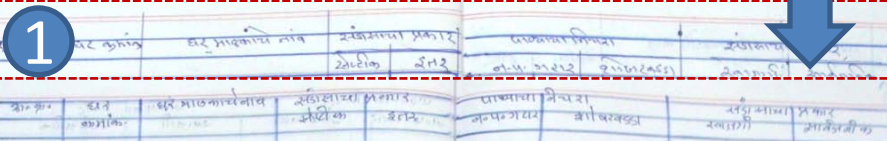
Records

Innovations for Scaling-up to Citywide Sanitation

Surveys for availability of toilets and Septic Tanks was conducted in 2007

Records of community toilets 2012

- 2 Registers for 2 zones- Toilet Survey
- Summary calculated manually.



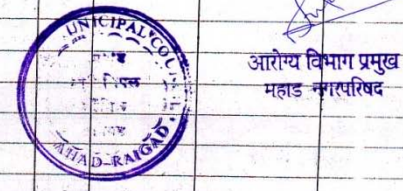
S N	Prop. No.	Owner's Name	Type of Toilet		Disposal of waste water		Type of Toilet	
			Septic Tank	Others	Municipal Drains	Soak pits	Private	Public
1	2044	सुरेशचंद्र गणेश						
2	2045	सुरेशचंद्र गणेश						
3	2046	सुरेशचंद्र गणेश						
4	2047	सुरेशचंद्र गणेश						
5	2048	सुरेशचंद्र गणेश						
6	2049	सुरेशचंद्र गणेश						
7	2050	सुरेशचंद्र गणेश						

Individual Toilets, Septic Tanks, HHs dependant on community/ public toilets

SN	Area/ Place	No. of Blocks	No. of Seats			Type of Land (Govt./ Municipal / Private)	Type of Toilet (Public/ Shared/ Pay & Use)	Remark
			Males	Females	Urinals			
1	काजडपुरी नर्सिंग कोवा.	3	1	1	1	Govt. Land	Public	
5	खाडीवडा नाका	1	2	2	3	Mun. Land	Public	
6	कपेडावाडी	1	2	2	1	Private land	Public	समन्ती पत्राणे जगा ताब्यात
7	खोलेवाडी	1	1	1	1	Mun. Land	Public	
8	खोलेवाडी	1	1	1	1	Private land	Public	
9	खोलेवाडी	1	1	1	1	Private land	Public	
10	नगर परिषद कार्यालय	2	1	2	3	Municipal	Municipal Toilet	
11	खोलेवाडी	1	1	1	1	Private land	Public	
12	खोलेवाडी	1	1	1	1	Private land	Public	
13	खोलेवाडी	1	1	1	1	Private land	Public	
14	खोलेवाडी	1	1	1	1	Private land	Public	
15	खोलेवाडी	1	1	1	1	Private land	Public	
16	खोलेवाडी	1	1	1	1	Private land	Public	
17	खोलेवाडी	1	1	1	1	Private land	Public	
18	खोलेवाडी	1	1	1	1	Private land	Public	
19	खोलेवाडी	1	1	1	1	Private land	Public	
20	खोलेवाडी	1	1	1	1	Private land	Public	
21	खोलेवाडी	1	1	1	1	Private land	Public	
22	खोलेवाडी	1	1	1	1	Private land	Public	
23	खोलेवाडी	1	1	1	1	Private land	Public	
24	खोलेवाडी	1	1	1	1	Private land	Public	
25	खोलेवाडी	1	1	1	1	Private land	Public	
26	खोलेवाडी	1	1	1	1	Private land	Public	
27	खोलेवाडी	1	1	1	1	Private land	Public	
28	खोलेवाडी	1	1	1	1	Private land	Public	
29	खोलेवाडी	1	1	1	1	Private land	Public	
30	खोलेवाडी	1	1	1	1	Private land	Public	

SN	Area/ Place	No. of Blocks	No. of Seats			Type of Land (Govt./ Municipal / Private)	Type of Toilet (Public/ Shared/ Pay & Use)	Remark
			Males	Females	Urinals			
30	काकरतले खिन्ने आवड	9	9	2	2	Private land	Public	
31	काकरतले जिवाडे (गंगरु)	9	9	1	1	Private land	Public	
32	काकरतले मोहल्ला	9	9	1	1	Private land	Public	
33	खोलेवाडी नगर युमाजमदी	9	9	9	9	Mun. Land	Public	
34	खोलेवाडी नगर	9	9	9	9	Private land	Public	
35	खोलेवाडी नगर	9	9	9	9	Private land	Public	
36	खोलेवाडी नगर	9	9	9	9	Private land	Public	
37	खोलेवाडी नगर	9	9	9	9	Private land	Public	
38	खोलेवाडी नगर	9	9	9	9	Private land	Public	
39	खोलेवाडी नगर	9	9	9	9	Private land	Public	
40	खोलेवाडी नगर	9	9	9	9	Private land	Public	
41	खोलेवाडी नगर	9	9	9	9	Private land	Public	
42	खोलेवाडी नगर	9	9	9	9	Private land	Public	
43	खोलेवाडी नगर	9	9	9	9	Private land	Public	

Community Toilets



S.N	Description of data elements	Unit	BEFORE VALIDATION				VALIDATED
			FY 2008-2009	FY 2009-2010	FY 2010-2011	FY 2011-2012	FY 2011-2012
	COVERAGE OF TOILETS	%	38.0	95.3	96.6	97.8	124.3
	<i>Sanitation Coverage</i>						
1	Total Number of Properties in the City	Number	7900	8112	8221	8527	8527
2	Properties with toilets	Number		7110	7300	7632	7632
3	Households dependant on functional community toilets	Number	3000	620	640	710	2970
4	Total Number of Properties with access to toilets	Number	3000	7730	7940	8342	10602
	COVERAGE OF SEWAGE NETWORK SERVICES	%	na	na	na	na	na
5	Total Number of Properties in the City	Number	7900	8112	8221	8527	8527
6	Properties with sewer connections	Number	NA	NA	NA	NA	NA
7	Properties with onsite sanitary disposal	Number		7160	7350	7682	7691

Total no. of properties with individual toilets for FY 2011-12 was estimated as-

No. of properties with Ind. Toilets as per surveys in 2007

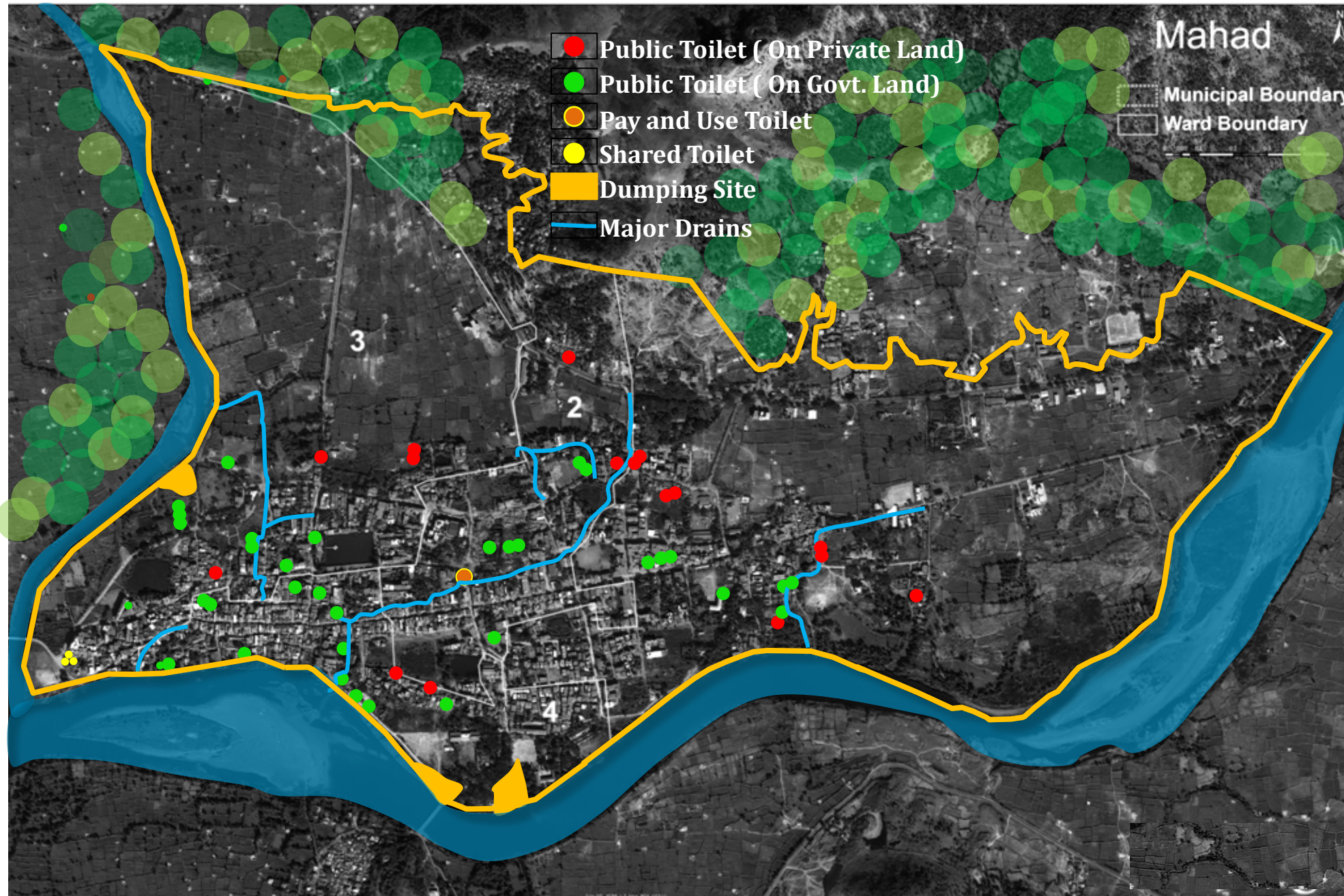
No. of new properties as per building permission records

No. of HHs that could be served on comm. Toilets= 297 seats * 10 HHs

DEPENDENCY ON COMMUNITY TOILETS...

Maps and Records

Innovations for Scaling-up to Citywide Sanitation



LIST OF COMMUNITY TOILETS								
S N	Area Place	No. of Block	No. of Seats			Type of Land (Public / Private)	Type of Toilet (Public / Shared / Pay & Use/Other)	Remark
			Male	Female	Urinals			
1	Bandar Naka	3	0	0	0	Govt Land	Share Toilet	Total 6 Seats (2 in each Block)
2	Near Hapus Tale Masjid	1	3	3	0	Govt Land	Public	
3	Kotali	1	3	3	0	Municipal Land	Public	
4	Kajalpura Talathi Naka	1	3	3	0	Municipal Land	Public	
4	Kajalpura Talathi Naka	1	6	0	0	Govt Land	Public	
5	Sali Wada Naka	1	0	6	0	Govt Land	Public	
6	Kave Ali	1	2	2	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
7	Salekar Ali	1	6	0	0	Municipal Land	Public	
7	Salekar Ali	1	0	6	0	Municipal Land	Public	
8	Rajeshri Shahu Maharaj Samaj Mandir	1	3	3	0	Municipal Land	Public	
9	Math Ali	1	3	3	0	Municipal Land	Public	
10	Nagarparishad Office	1	1	2	3	Municipal Land	Municipal Toilet	
11	Chavdar Tale Ambedkar Hall	1	0	0	0	Municipal Land		6 Seats
12	Bhaji Market Building	1	2	2	2	Municipal Land	Public	
13	Bhaji Market Building	1	2	2	2	Municipal Land	Public	
13	New Bhaji Market	1	4	4	6	Municipal Land	Public	
14	Arjun Bhoi Marg	1	1	2	3	Municipal Land	Public	
15	Punya Shlok Ahilya Devi Holkar Samaj Mandir	1	0	0	3	Municipal Land	Public	2 seats
16	Macchi Market	1	2	2	5	Municipal Land	Public	
17	Bhoi Ghat	1	3	3	0	Municipal Land	Public	
18	Kumbhar Ali	1	3	3	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
19	Vetal Awad	1	3	3	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
20	Vetal Awad (Near Shri. Dharias Home)	1	3	3	0	Municipal Land	Public	
21	Near Prathamik Shala No.2	1	2	3	0	Municipal Land	Public	
22	Jijamata Udyan	1	4	4	3	Municipal Land	Pay and Use	2 bathroom
23	Hutatma Smarak	1	0	0	0	Municipal Land	Public	
24	Gharat Awad	1	6	0	0	Municipal Land	Public	
24	Gharat Awad	1	0	6	0	Municipal Land	Public	
25	Dasturi Naka	1	3	3	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
26	New Nate Khind	1	3	3	0	Municipal Land	Public	
27	Nate Khind	1	2	2	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
28	Koteshwari Tale	1	5	0	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
29	Koteshwari Tale	1	0	5	0	Private Land	Public	
29	Kakad Tale Bhillare Maidan	1	3	3	0	Municipal Land	Public	
29	Kakad Tale Bhillare Maidan	1	2	2	4	Municipal Land	Public	
30	Kakad Tale Shinde Awad	1	2	2	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
31	Kakad Tale Bhillare Bungalow	1	6	0	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
31	Kakad Tale Bhillare Bungalow	1	0	6	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
32	Kakad Tale Mohalla	1	4	0	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
32	Kakad Tale Mohalla	1	0	4	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
33	Rohidas Nagar Samaj Mandir	1	1	1	0	Municipal Land	Public	
34	Sant Rohidas Nagar	1	5	0	0	Municipal Land	Public	
34	Sant Rohidas Nagar	1	0	5	0	Municipal Land	Public	
35	Prathamik Shala No.5 (Krushi Utpanna Bazar Samiti)	1	3	3	0	Municipal Land	Public	
36	Military Boys Hostel	1	5	0	0	Private Land	Public	closed
36	Military Boys Hostel	1	0	5	0	Private Land	Public	closed
37	Nave Nagar Sutar Ali	1	3	3	0	Municipal Land	Public	
38	Nave Nagar Sutar Ali	1	3	3	0	Municipal Land	Public	
38	Nave Nagar Sutar Ali	1	3	3	0	Municipal Land	Public	
39	Nave Naqar Burud Ali	1	6	0	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
39	Nave Naqar Burud Ali	1	0	6	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
40	Panchsheel Nagar	1	6	6	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
41	Prathamik Shala No.4	1	4	4	16	Municipal Land	Only for School purpose	
42	Parit Ali	1	5	0	0	Municipal Land	Public	
42	Parit Ali	1	0	5	0	Municipal Land	Public	
43	Sundar Wadi	1	3	3	0	Private Land	Public	Samatti Patrane Jaga Tabyat dili
TOTAL	59	147	150	50				

PUBLIC/ COMMUNITY TOILET DETAILS

No. of Blocks	No. of Seats			Type of Land (Public / Private)	Type of Toilet (Public / Shared / Pay & Use/Other)
	Male	Female	Urinals		
59	147	150	50	Govt. Land : 6	Public Toilets: 55
	297			Municipal Land: 35	Shared Toilets: 3
				Private Land: 18	Pay and Use: 1

Existing Dependency= 3.01 HHs / seat

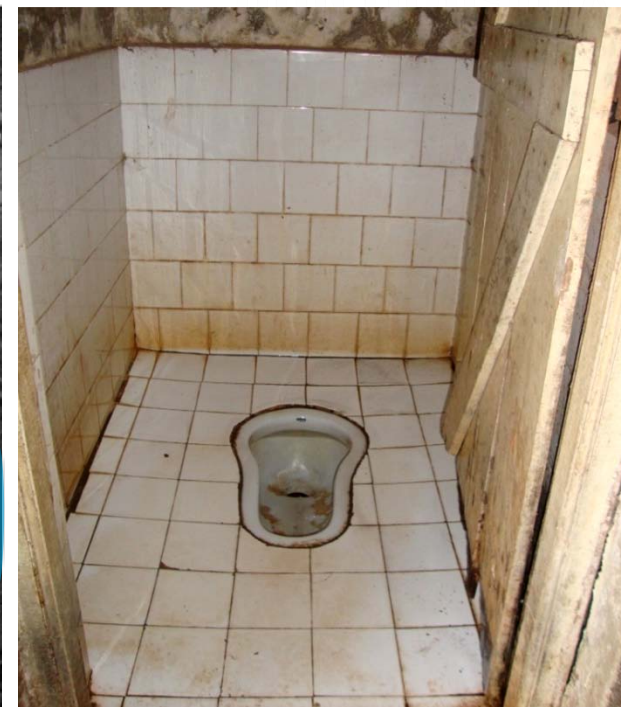
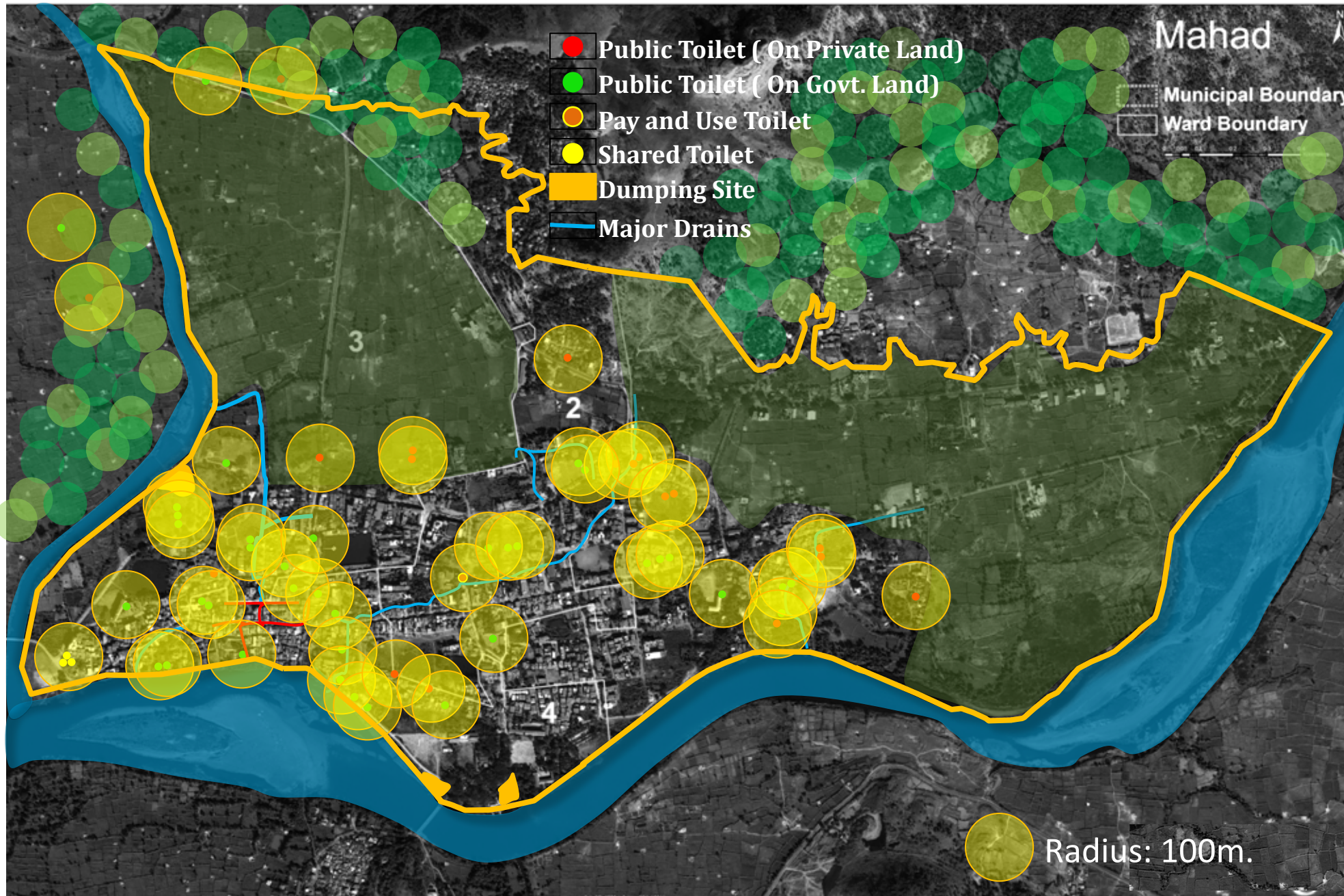
All Community/ Public Toilets are constructed through ULB Funds

Block Cost= Rs. 50,000/ seat

COMMUNITY TOILETS: On-site validation

Availability and functionality

Innovations for Scaling-up to Citywide Sanitation



- Mahad an ODF city.
- ODF status achieved through-
 - Leadership
 - Social pressure
 - Initiatives and responses by MMC
 - Priority to create physical toilet infrastructure- Expenses through municipal funds
 - Attention towards O & M of community toilets
 - Periodic surveys to identify additional demands if any. HH level survey in 2007.
 - Strong support and response from citizens- mobilization of private lands- a unique arrangement
- MMC's efforts are appreciable. It's a good practice for other smaller cities to refer and apply.



INITIATIVES FOR SUSTAINABILITY

2 Blocks to be
Reconstructed



- Moving towards individual toilets- Funds under Dalit Basti Sudhar Yojana 20% contribution by beneficiaries, if not affordable, will be borne by MMC (resolution passed for this on 02/02/2012)
- Option of shared toilets wherever individual is not feasible. (as per same resolution)
- Sub-contracting maintenance of community toilets to avoid delay in complaint redressal
- Reconstruction of community toilet blocks that are too old/ dilapidated
- Introduction of sanitation/user charges in Municipal Bye-laws
- Additional pay and use toilet for market area and a toilet for girls school are proposed under 'Vaishishtyapurna Yojana'
- Innovative ideas/references for designs of comm. toilets



-Mahad-
An 'ODF Model' for other ULBs to adopt

THANK YOU