

Concurrent M&E system to track CLTS progress using Google Fusion and Google Earth - Budni Block, Madhya Pradesh, India -

BACKGROUND

The CLTS programme in Budni, supported by UNICEF, aims at obtaining the first-of-its-kind model resource Open Defecation Free Block in Madhya Pradesh, through the Community-Led Total Sanitation (CLTS) approach.

Budni's CLTS programme started in November 2010 and the Government of Madhya Pradesh aims at rendering it ODF by March 2013, under the State's newly launched Sanitation MARYADA Campaign (meaning "Dignity" in Hindi).

Status Summary of phase 1 of the UNICEF-supported CLTS programme in Budni Block.

	# villages in Budni	% of total villages in Budni
Total	132	
Triggered	85	65
ODF	68	52

GOOGLE FUSION AND GOOGLE EARTH

Fusion Tables is a Web service provided by Google for data management. In Fusion, data can be uploaded, updated and stored in multiple tables with different applications that Internet users can view and download. Fusion Tables are user friendly and have similar applications than Microsoft Excel.

Their additional advantage, however, is that they can be directly linked to Google Earth's GIS system, and can thus be potentially used as powerful concurrent Monitoring and Evaluation (M&E) applications.

M&E APPLICATIONS

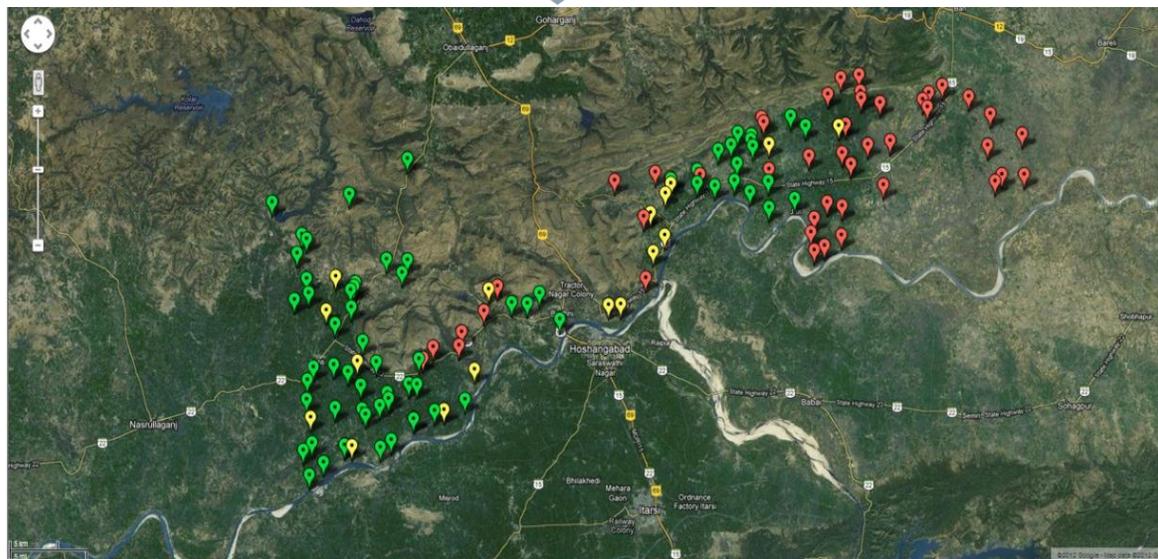
Here are some of their M&E applications currently used to track the progress of the CLTS programme in Budni:

- **Host data online** in a common single platform, accessible by different users in different locations. Viewers located anywhere can review charts, tables and maps.

- **Create custom visualizations** for the stored/updated data. For instance, in the screen shots given from Budni’s CLTS programme below, three color coding are currently used to visualize the progress of a given village: green (ODF village), yellow (triggered, not ODF yet), red (not triggered).

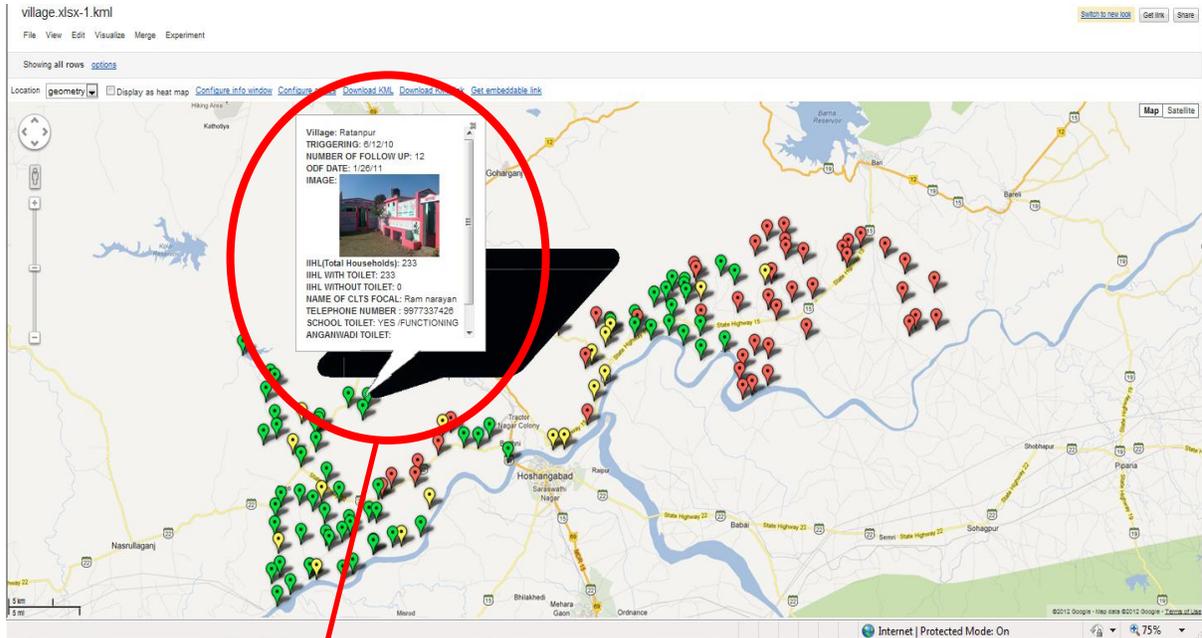
Village	TRIGGERING	NUMBER OF FOLLOW UP	ODF DATE	IMAGE	IIHL(Total Hoi)	IIHL WITH TOI	IIHL WITHOUT	NAME OF CLTS FOCAL	TELEPHONE NUMBER	CATEG
Semri	6/12/10	5	1/18/11		228	228	0	Jiya lal	9977925499	2
Delabadi	12/4/10	8	1/29/11		37	37	0	Jiya lal	9977925499	2
Ratanpur	6/12/10	12	1/29/11	https://#5.googleusercontent.com/-kP2jUjUq-c/UAp	233	233	0	Ram narayan	9977337426	2
Khanpura	6/12/10	10	1/29/11		151	151	0	Ram narayan	9977337426	2
Kheri	12/17/10	15	5/3/11		159	159	0	Govind	9907452712	2
Jamoniya	12/18/10	19	1/20/11		82	82	0	Govind	9907452712	2
Bordhi	1/11/11	12	4/1/11	https://#5.googleusercontent.com/-YGsz7dZvmg/UAp	291	291	0	Ram jeevan	9928528343	2
Gondigudia	1/15/11	9	2/24/11	https://#5.googleusercontent.com/-b5eM7olLFYY/UAp	208	208	0	Narayan singh	9977079773	2
Gahukheda	1/18/11	8	2/24/11		55	55	0	Narayan singh	9977079773	2
Bhadkul	3/4/12	5			160	87	73	Radheshyam	9977337401	1
Kosmi	3/4/12	5			93	48	45	Radheshyam	9977337401	1
Bori	12/20/10	12	8/5/11		91	28	0	Shyam babu	9770760886	2
Dogan	12/20/10	12	8/5/11		78	78	0	Shyam babu	9770760886	2
Pipliya	12/21/10	9	8/3/11		32	32	0	Shyam babu	9770760886	2
Bardha	12/17/10	13	10/5/11		141	141	0	Jagdeesh	8959005446	2
Jholyapur	11/1/11	14	4/1/11		118	118	0	Jagdeesh	8959005446	2
Sagoniya	1/13/11	9	3/28/11		178	178	0	Kuvar singh	9229801954	2
Mailbaya	1/13/11	9	3/28/11		159	159	0	Kuvar singh	9229801954	2
Salkanpur	NGP	-	NGP		293	293	0	Manoj kevat	9203761212	2
Itarsi	1/18/11	12	3/13/11		140	140	0	Vinod tiwari	9009210285	2
Makodiya	8/5/12	2			75	57	18	Dhan singh	9202552935	1
Semriya	4/17/11	8	5/3/11		19	19	0	Vinod tiwari	9009210285	2
Murrah	4/12/10	13	2/28/11	https://#4.googleusercontent.com/-kXyq4UEtyk/UAp	192	192	0	Amit nagar	9200801835	2
Dhankot	4/4/11	12	10/9/11	https://#4.googleusercontent.com/-nwfdJl0ll/UAp	44	44	0	Amit nagar	9200801835	2
Ganjet	4/12/10	20	3/29/11	https://#3.googleusercontent.com/-B91P6ohMDQ/UAp	135	135	0	Amit nagar	9200801835	2
Pathoda	11/12/10	17	1/20/10		153	153	0	Hari om	9203300502	2
Charua	11/12/10	10	5/2/11		120	120	0	Hari om	9203300502	2
Avalghat	11/12/10	8	1/24/11		117	117	0	Prakash	9617058312	2
Pangra	11/24/10	10	1/24/11	https://#4.googleusercontent.com/-t1CwubVypE/UAp	107	107	0	Prakash	9617058312	2
Mogra	10/12/10	10	1/24/11	https://#4.googleusercontent.com/-uP_PS_NuRA4/UAp	117	117	0	Ram kumar	9200822860	2
Phulada	9/12/10	12	1/30/11	https://#3.googleusercontent.com/-z5ERhqvKXWB/UAp	54	54	0	Ram kumar	9200822860	2
Mardanpur	11/1/11									

Screen shot of Budni’s CLTS Fusion Table data set



Screen shot of Budni’s CLTS Google Earth visualization

- **Produce “CLTS Report Cards”:** these report cards provide tailored information about the village’s CLTS progress. These cards can be generated from the Fusion Tables for all villages.

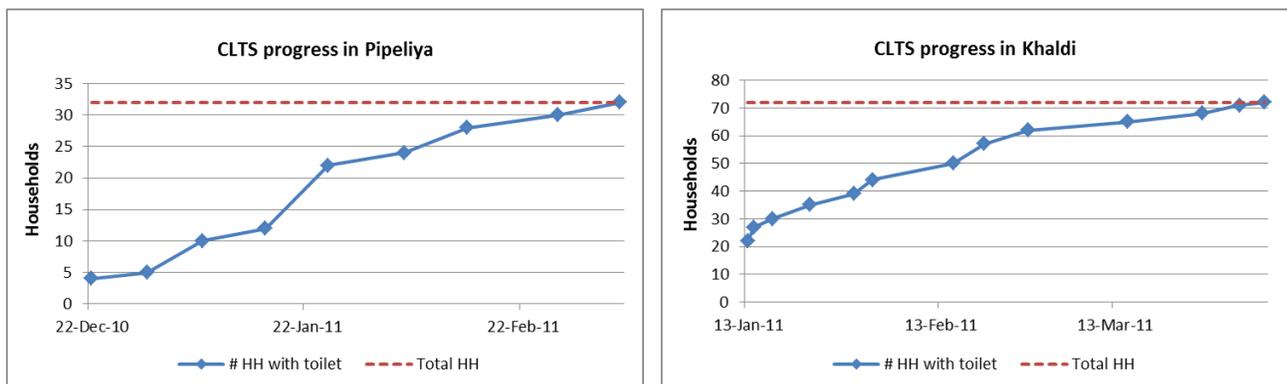


Village: Ratanpur
TRIGGERING: 6/12/10
NUMBER OF FOLLOW UP: 12
ODF DATE: 1/26/11
IMAGE: 

IIHL(Total Households): 233
IIHL WITH TOILET: 233
IIHL WITHOUT TOILET: 0
NAME OF CLTS FOCAL: Ram narayan
TELEPHONE NUMBER : 9977337426
SCHOOL TOILET: YES /FUNCTIONING
ANGANWADI TOILET: YES /FUNCTIONING
HAND WASHING FACILITY : YES

Clicking on each village tag on the Google map, a Report Card appears, with key information of the CLTS progress of that particular village, including triggering date, number of conducted follow-ups, ODF date, CLTS focal point in the village and their phone number, status of school and Anganwadi toilets, handwashing facility, as well as the option to include some pictures (in this case of Ratanpur village’s renovated school toilet).

- **Generate charts and graphs:** Fusion tables also help to create and share charts in various formats. For instance, timeline progress charts can be easily produced and then displayed separately or as part of the Report Cards on the Google Earth interface. Below are two simple examples of CLTS progress in two villages, along the timeline from the triggering date, until ODF date, with each marker representing one follow-up event.



CONCLUSION

The Google Fusion and Google Earth applications showcased above are only a few examples of the concurrent M&E system currently used and further developed by the Block Administration and UNICEF to track the progress of the CLTS program in Budni, but they provide powerful tools to the Block Administration and CLTS team on the ground to fine-tune their implementation, triggering and follow-up strategies to accelerate progress towards rendering all 132 villages ODF.

For further information, feedback and suggestions, kindly contact Ajit Tiwari, CEO Budni, Government of Madhya Pradesh: tiwari.ajit1@gmail.com; Gregor von Medeazza, UNICEF WASH Specialist: gvonmedeazza@unicef.org; or Avinash Tiwari, CLTS MIS support, Budni: cltsbudni@gmail.com.