# Bending the Curve: Changing Behaviour in National Sanitation Programmes

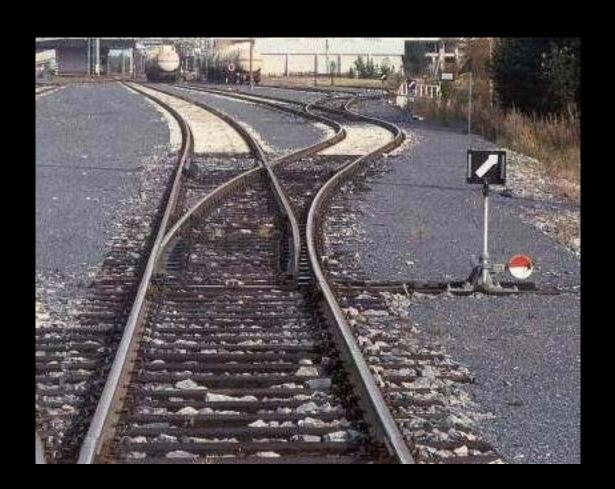




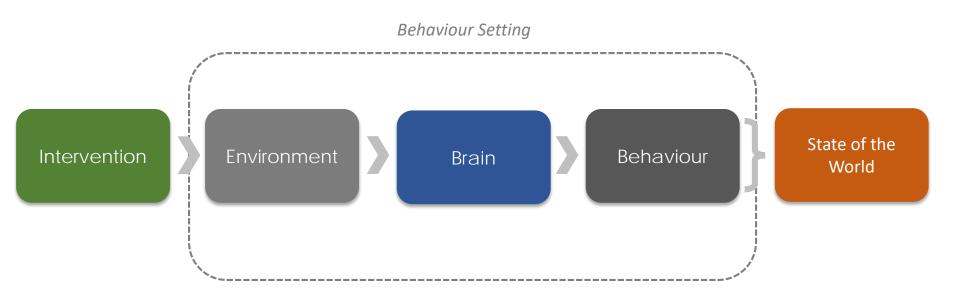
Val Curtis
Environmental Health Group



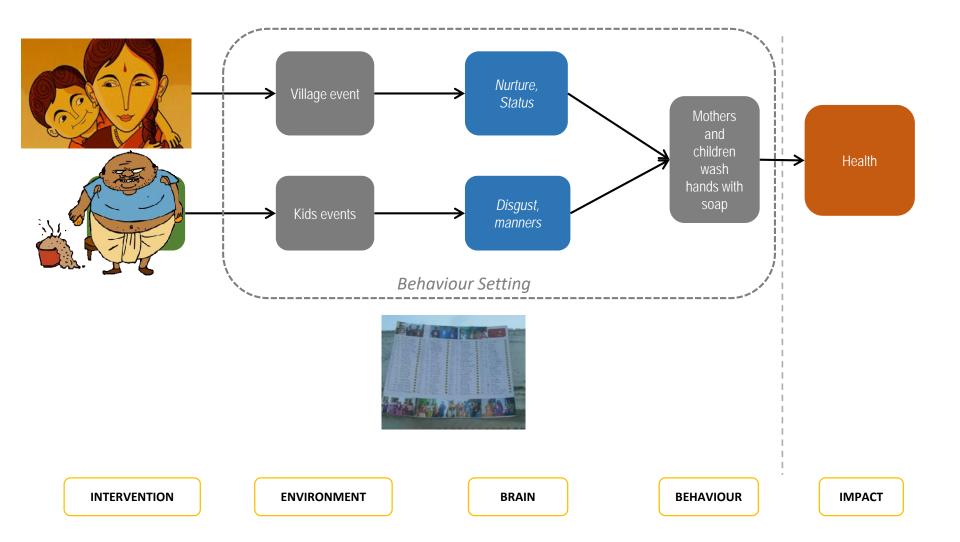




## Theory of change: individuals



## SuperAmma: Theory of Change



Intervention Environment Brain Behaviour State of the World

Behaviour Setting



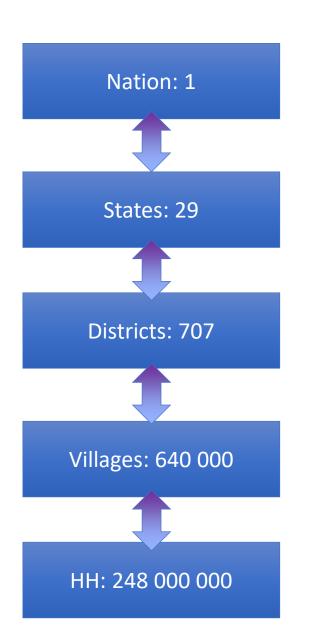


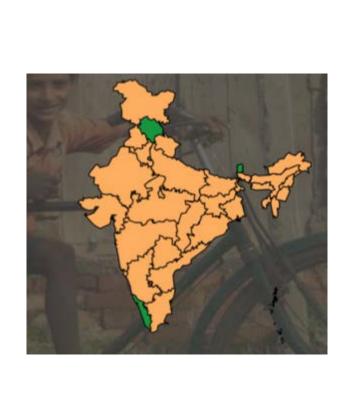






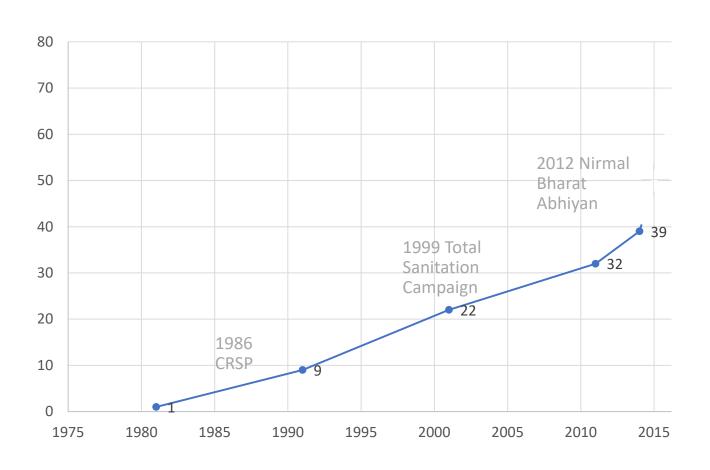




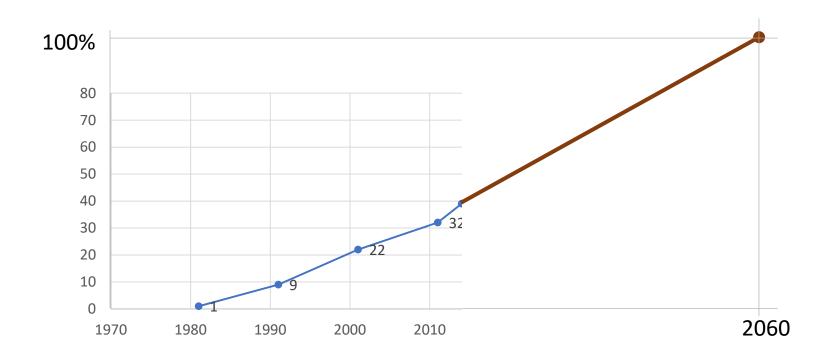




## Rural Sanitation coverage in India

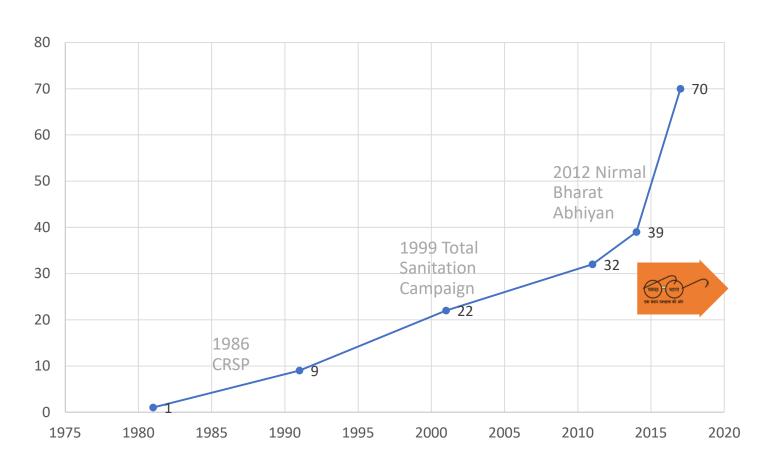


## Rural Sanitation coverage in India



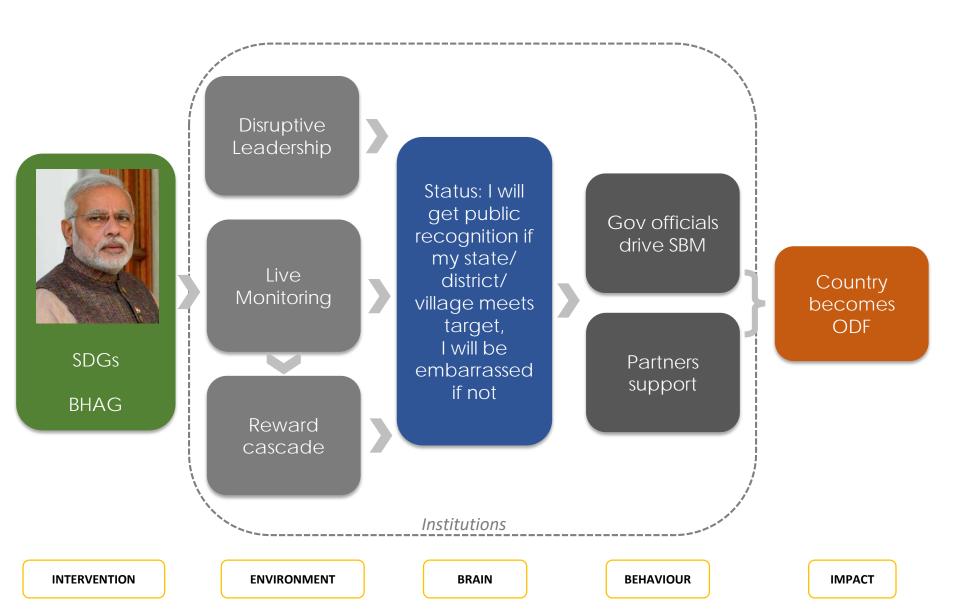
## Swachh Bharat Abhiyan



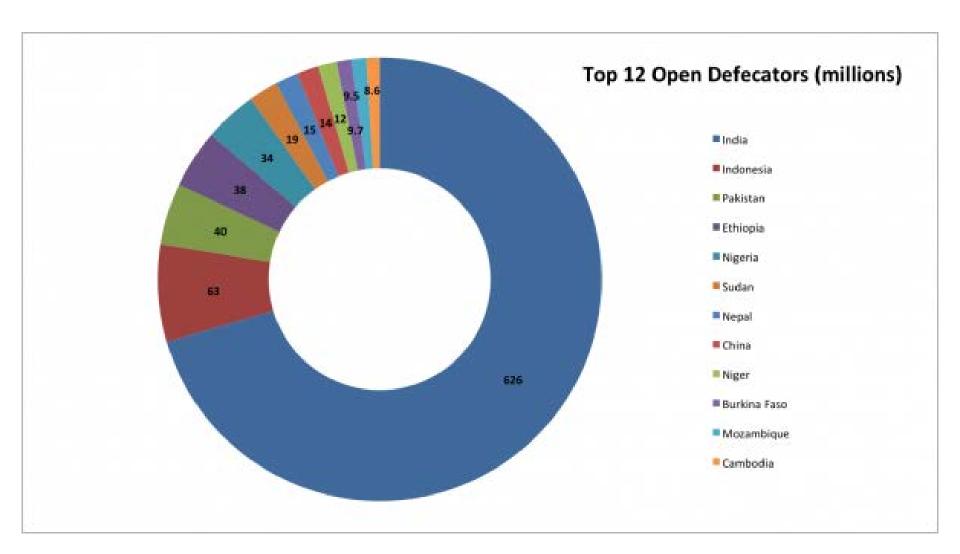


#### SBM Theory of Change





## India: 'Home' of OD



### The BHAG

India becomes Open

Defecation Free by 2<sup>nd</sup> October 2019





## Disruptive Leadership













602







#### स्वच्छ शक्ति सप्ताह 2017

**RUN-UP TO INTERNATIONAL WOMEN'S DAY** 

#### Planned Activities - 1st to 8th March, 2017

- Launch of 'Swachh Shakti Saptah' by Minister. MDWS & CM Haryana at Gurugram on 1st March
- Highlighting women in sanitation issues
- Sports programmes in districts/villages
- Events on girl child and sanitation in govt schools
- Local event engaging women sarpanches
- More than 6000 women swachhta champions participating in mega event on 8th March



**SWACHH SHAKTI 2017** SWACHH SHAKTI 2017 N" MARCH, 2017





#### Women heroes for Swachh Bharat celebrate World Water Day

By OUR STAFF REPORTER RISHIKESH, 22 Mar: A

celebration at Parmarth Niketar today brought together and honoured Sanitation Ambassadors and Heroes from Sanitation nearby villages and urban slums their local communities and water bodies free from Open Defecation and pollution.

The Global Interfaith WASH Alliance (GIWA), under the inspiration of its co-founder Swami Chidanand Saraswati (who is also President of Parmarth Niketan), has been training people in slums and villages on how to lead their own communities towards a Swachhta Kranti or Clean Revolution. GIWA has been doing so through its array of courses, offered through its World Toilet College, as well as outreach, through its WASH on Wheels programme and Women

for WASH initiative. The World Water Day celebration, held on the banks of the River Ganga, included colourful video presentations. musical recitals and dramatic serformances as well as a mass iversal access to safe water, sanitation and hygiene

Saraswati handed the Sanitation Keys (Swachhta Chabiyan) to highlight the message that the tools for society lie in the hands of the come together and stay together

"Today is World Water Day, and we are so happy that just a little is truly historic, and will surely enable our beautiful rivers to be better protected. This means,

toilets. And we must roll up our

sleeves to free our precious rivers—and all water bodies—

same status as a person by the High Court of Uttarakhand. This around us." Sadhvi

the Global Interfaith WASH Alliance, said, "Water is Life -- life for our bodies. He for our planet and life for all of creation with whom we share this beautiful in India water is becoming a earlier this week, our Ganga and from the terrible base of human source of death and disease rather

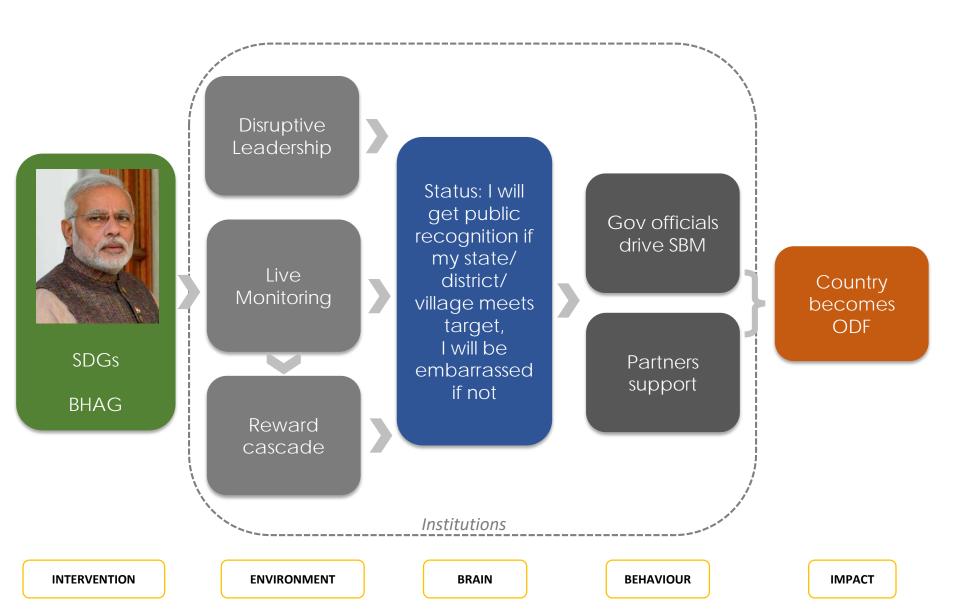
Yamuna Rivers were given the waste that mar their banks and than a source of life, due in large part to rempent open defecation That is why on World Water Day we are celebrating the work being local communities in sanitation

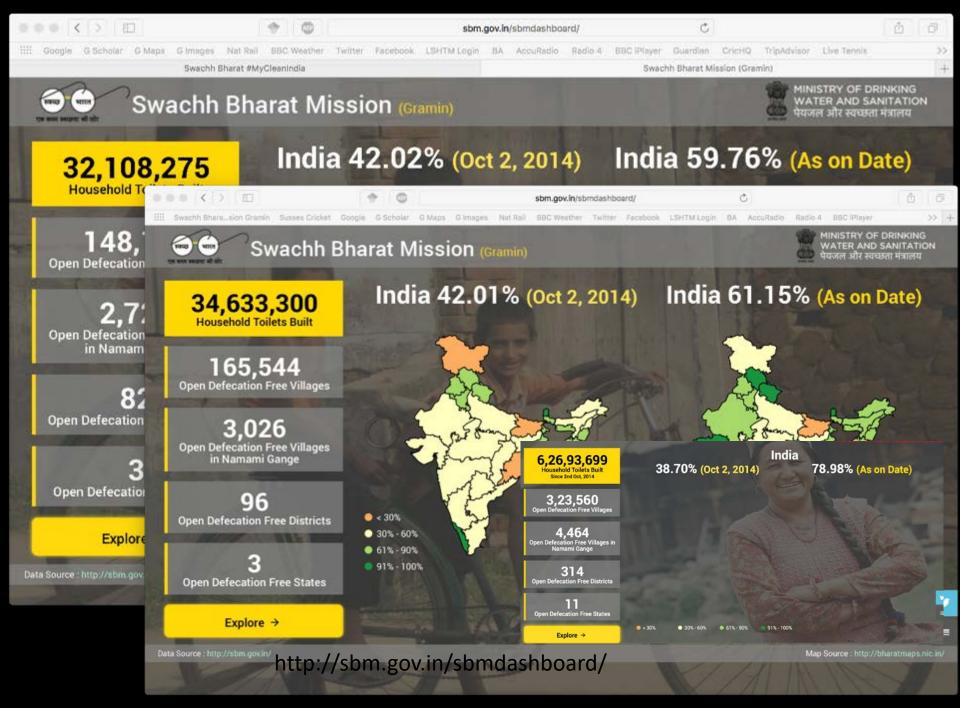
and hygiene.\* The Swami all of us to become Swachhta can realise a vision for Mother India and Mother Ganca



#### SBM Theory of Change









#### ONLY BJP-RULED STATE TO GET INTO TOP 3 IS MP

### Swachh Bharat: Karnataka No. 1, West Bengal No. 2

Sowmya.Aji@timesgroup.com

Bengaluru: Congress-ruled Karnataka has pipped all other states, including BJP-ruled ones, in implementing PM Modi's Swachh Bharat mission. The state tops the country in the number of toilets built under government programmes so far in fiscal 2014-15 — Karnataka has built 3.57 lakh, or about 15% of the total 25.30 lakh toilets built in the country this fiscal year.

Figures compiled by the Union Ministry of Drinking Water and Sanitation under the Swachh Bharat (Gramin) scheme show that the PM's home state of Gujarat has built just 1.34 lakh toilets. The population of Gujarat and Karnataka are almost similar —according to 2011 census, Gujarat had a population of 6 crore and Karnataka, 6.1 crore.

Karnataka's rural development

#### BJP States Way Behind



KARNATAKA HAS built 3.57 lakh, or about 15% of total 25.30 lakh toilets built in this fiscal year

GUJARAT HAS built just 1.34 lakh toilets

Population of Gujarat & Karnataka are almost similar – according to 2011 census, Gujarat had a population of 6 cr & K'taka 6.1 crore

GOA HAS not built a single toilet in the last three years, Chhattisgarh has built just 30,819 and Rajasthan 1.79 lakh minister, HK Patil, who has no qualms in praising Modi for the initative, has set a very ambitious target of building as much as 10 lakh toilets this year for the state. "We are first in the country," he told ET. "Last year, we had a target of 6 lakh toilets, and built 5,00,500 of them. This year we have been more ambitious and want to meet a target of at least 8-10 lakh," he said.

West Bengal, ruled by Trinamool Congress, stands second on the national list, building 3.12 lakh toilets this year. The only BJP-ruled state to get into the top three is Madhya Pradesh, with 3.04 lakh toilets. Other BJP-ruled states are lagging woefully behind. While Goa has not built a single toilet in the last three years, Chhattisgarh has built just 30,819 and Rajasthan. 1.79 lakh.

By August 15 next year, Karnataka hopes to make 10,000 villages opendefecation free.















After providing toilet access to **6.6 lakh** IHHLs, Cooch Behar district becomes **ODF** 

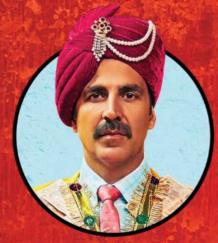












11TH AUG 2017, SWACHCH AZAADI

## एक प्रेम कथा



## Islands of success













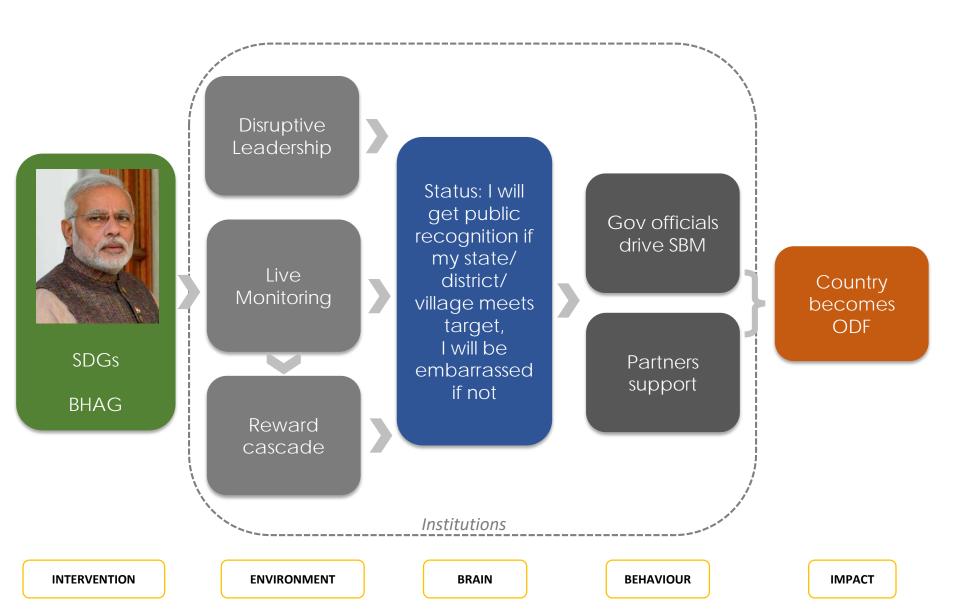






#### SBM Theory of Change







## Tanzania's National Sanitation Campaign











**Development** 



## The BC challenge

- 10% defecate in open
- 55% have unimproved toilet
- 10% have a handwashing facility







Source: DHS 2016











TV Radio Billboard Status anxiety: am I completely Gov: modern? national, CLTS Improve my 100% choo regional, triggering + toilet bora district, emo- demos Wash my Clean hands Partners, Road shows hands Clouds Tanzania Tie-ins Media, private sector I can act now Market support Choo bora/HW village INTERVENTION **ENVIRONMENT BRAIN BEHAVIOUR IMPACT** 





Monitoring data reported

PR campaign: Nipo Tayari

Sector meetings, Public events

Radio call-ins Progress coverage in press

I will ensure legacy. I will get status & public recognition if my district/ region/ project does well/ I will be embarrassed if not

Gov Drives Nyumba ni choo

**Partners** invest in Nyumba ni choo

**BEHAVIOUR** 

*Institutions* 

Country mobilised

**INTERVENTION** 

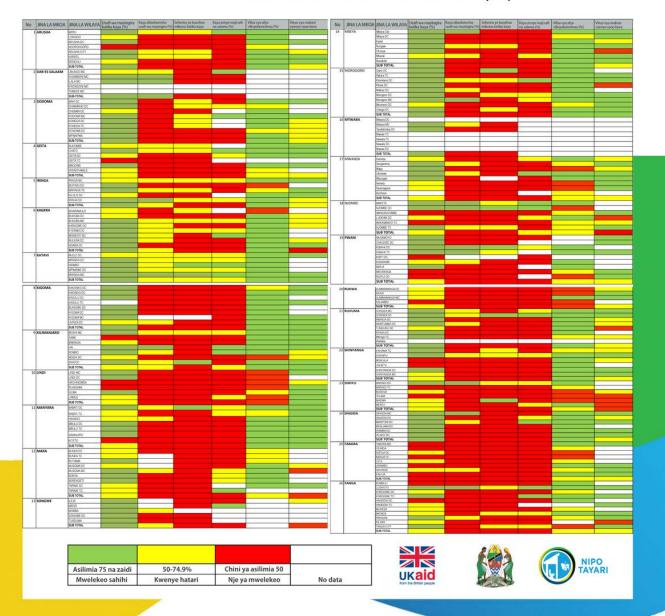
**ENVIRONMENT** 

**BRAIN** 

**IMPACT** 



### MATOKEO YA UTEKELEZAJI WA USAFI WA MAZINGIRA HADI 31/03/2017



Cloudsfm

THE PEOPLE'S STATION









# Lessons for National Sanitation Campaigns





### Thanks

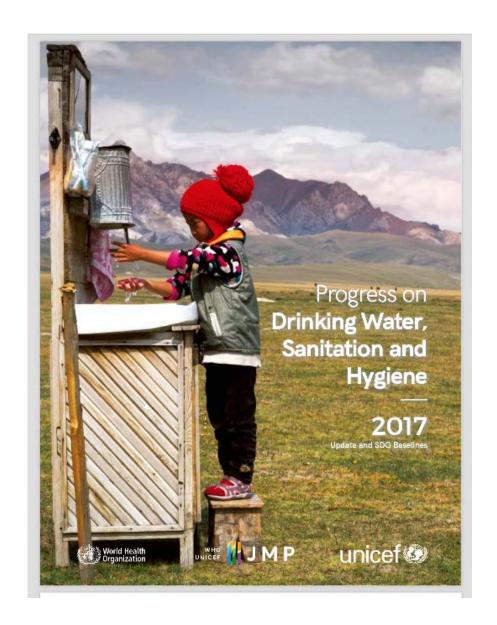
- Robert Aunger and the team at EHG/LSHTM
- Swachh Bharat team
- CLEAR Tanzania team
- WASH FUTURES for the kind invite



"No child should die or get sick as a result of being exposed to other people's excreta, or having no place to wash their hands...

...And no one should suffer the indignity of having to defecate in the open."

Dr Tedros Ghebreyesus



### Articles

### Effect of a behaviour-change intervention on handwashing with soap in India (SuperAmma): a cluster-randomised trial



Adam Biran, Wolf-Peter Schmidt, Kiru ba Sankar Varadharajan, Divya Rajaraman, Raja Kumar, Katle Greenland, Balaji Gopalan, Robert Aunger, Val Curtis



Background Diarrhoea and respiratory infections are the two biggest causes of child death globally. Handwashing with soap could substantially reduce diarrhoea and respiratory infections, but prevalence of adequate handwashing is low. We tested whether a scalable village-level intervention based on emotional drivers of behaviour, rather than knowledge could improve handwashing behaviour in rural India.

Methods The study was done in Chittoor district in southern Andhra Pradesh, India, between May 24, 2011, and Sept 10, 2012. Eligible villages had a population of 700-2000 people, a state-run primary school for children aged 8-13 years, and a preschool for children younger than 5 years. 14 villages (clusters) were selected, stratified by population size (<1200 vs >1200), and randomly assigned in a 1:1 ratio to intervention or control (no intervention). Clusters were enrolled by the study manager. Random allocation was done by the study statistician using a random number generator. The intervention included community and school-based events incorporating an animated film, skits, and public pledging ceremonies. Outcomes were measured by direct observation in 20-25 households per village at baseline and at three follow-up visits (6 weeks, 6 months, and 12 months after the intervention). Observers had no connection with the intervention and observers and participant households were told that the study was about domestic water use to reduce the risk of bias. No other masking was possible. The primary outcome was the proportion of handwashing with soap at key events (after defecation, after cleaning a child's bottom, before food preparation, and before eating) at all follow-up visits. The control villages received a shortened version of the intervention before the final follow-up round. Outcome data are presented as village-level means.

Findings Handwashing with soap at key events was rare at baseline in both the intervention and control groups (1% [SD 1] vs 2% [1]). At 6 weeks' follow-up, handwashing with soap at key events was more common in the intervention group than in the control group (19% [SD 21] vs 4% [2]; difference 15%, p=0.005). At the 6-month follow-up visit, the proportion handwashing with soap was 37% (SD 7) in the intervention group versus 6% (3) in the control group (difference 31%; Dr.Adam Biran, London School of p=0.02). At the 12-month follow-up visit, after the control villages had received the shortened intervention, the proportion handwashing with soap was 29% (SD 9) in the intervention group and 29% (13) in the control group.

Interpretation This study shows that substantial increases in handwashing with soap can be achieved using a scalable intervention based on emotional drivers.

This online publication has been corrected. The corrected version first appeared at

Health Sciences, Bangalore (K S Varadharalan MSc and Centre of Gravity. Hygiene & Tropical Medicine,

ondon WC1E 7HT, UK



### Funding Wellcome Trust, SHARE.

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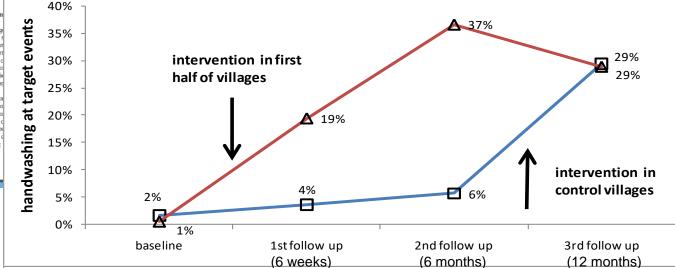
Improved hand hygiene has the potential to reduce morbidity and mortality from infections spread by faecaloral routes and person-to-person contact. Infections preventable by improved hand hygiene include gastrointestinal infections,12 respiratory infections,134 trachoma,5 fatal neonatal infections,€ and possibly worm infections." Diarrhoea and respiratory infections remain the two most important causes of child death globally.9 Improved hand hygiene can also improve child development and school attendance.10-11 Hygiene promotion has been suggested to be one of the most cost-effective interventions for prevention of infectious

Knowledge about the health benefits of handwashing is research\* widespread. For example, 92% of respondents in Kenya

studies in China.15 Bar 29% of part defecation of water are co high, hands health pers behaviour Several so explain hea

behaviour c

www.thelancet.com/lancetgh Vol 2 March 2014



View	Intervention	Control
HWWS protects children	63%	2%
HWWS leads to success in life	30%	0%
HWWs is good manners	84%	21%
Everybody around here WHWS	35%	8%





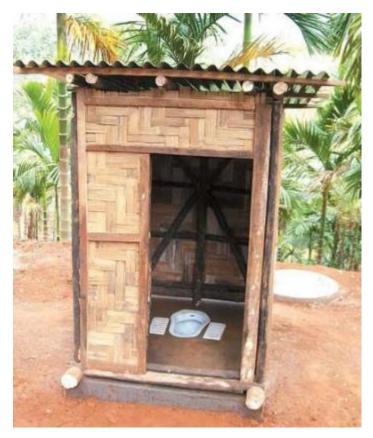
### 2014 Swachh Bharat Abhiyan

2012 Nirmal Bharat Abhiyan

1999 Total Sanitation Campaign

1986 CRSP





# How have institutions responded?

On a campaign footing



04 | bhopal and beyond | hindustant

# 'Offending' poster on open defecation torn up by citizens

POSITIVE REACTION ZP congratulates local people for aggression against the practice

Multipoli Panday

MARDA: A poster against open descention displayed on the bromites of the March 2018 Panthagast GF) was tern upon Fruker night by unknown elements who probably found is offending and on burrossing

However, reacting positively to the vanishizating, the chief occentive officer (CEO) of the EP gat a companishery baseding installed by the side of the toru prober on Standar, The new beauting dominating the next the companishing aggressively and embarransingly to the original poster and separation of a state of the kind of utilizeds is needed to get the district rid of open defounts.

Theoriginal power was put up on Triday as part of an awareness ward that he he ing conducted by the district administration under the Maryada campaign of the sake government. The poster displayed a man and a day disteasing in the open and was captioned. Assimals could not see known the fact of the sake of the sake

On Saturday, it came to the indice of the ZP CEO Gaussia Bunday Mislim that the poster had been form up and he realleed that probably this was done because of the offending dotals.

Bother than taking any action, Mishra decided to renet positively. Thus, the congratu-



The poster under Maryada campaign (right) that was tern up by unidentified people on Harda Zilla.
 Paeubayari office campus on Friday. On the left is the new poster congratalating people put up on flunday.

latory poster was put up on Punding The new poster runds to Hinds: "Shabasib Hards, Khuleme obswich he profit yield analogic over and proud \$1 ownships like had Harris taxig classicky busi. Ebsole me shough all any subsi. Klimbe kninnk hat, leks virodb kers. Harda ka samuun bachasa hat chuppt todo hulla boto" «Congratulations Bordel Thisktod of aggression and embarransment to required against open defocation. Hards is afart. none, no promy open defocation. from now on. Open detection to a blot on the sockety. We must oppose if and speak out against it. We have to note the prode of

CRO district penchayat.

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International har district penchayat. har district a company of the penchanayat har district a company of the penchanayat.

International type district in the viblages under Maryada campaign on a pilot project in few viblages under the guidance of finetic collector. The pender in question was based on concept by Westf Busin.

The mattre of purring up the poster was to make Hards district free from open defection during the year 2014 15. This can be done by making people assureabout the begattive impact of the practice, he said.

Mishen sikled the act of tearing up poster by some instruows elements has motivated the administration to do more to

work in this regard.
However, president of district possessing fraction blanker and nonclassifity president of tharts finitgents. And Banesal both soil these posters must be placed in such beatters where open detection with commonly practices.

The municipality precident also said such posters which offend common people must not be displayed.

# Grass roots innovation



## Random thoughts

- Importance of (and effects of) subsidy
- CM or DM commitment
- big cultural differences-hill states at a higher base
- Difficult states with other priorities, eg conflict, J&K, other programmes
- Stable govs
- Female head of mission, eg Gujarat
- Chattisgarh started late but went for big mass mobilsation, CM Ramon Singh, big personal investment, incentives at community level
- Islands of excellence: others can learn from, be inspired by, it *is* possible

- Last mile issue
- Once achieved, oxygen goes, no more subsidy but there is unfinished business, 'sustainability'
- Lots of different ways in which ODF is achieved
- Driven and being driven, top and bottom
- Mass media played some role, but film was big
- Young preraks
- Clearly designated focal person, accountable and held to account, centre is watching
- Reward: just the simple 'creatives' to pass around,

- MP used direct cash transfer to individual bank a/cs worked surprisingly well (Aadhaar biometric ID system) cut out corruption
- Richer states-appeal to their pride-should be leaders
- Poorer states need big efforts, eg big rallies
- Being BJP helps a bit but some states go for it anyway
- Even when water is scarce can be done, eg Rajasthan
- Easier when close to delhi
- States each need a different approach
- Staff aren't promoted by their effectiveness (except occasionally)
- 74 visits

## What's working?

- Massive mobilisation, on a war footing, a crusade
- Huge money available, but mostly its about passion



"Lead from the front... Behind every ODF village, block, district or State, there is a leader who has driven it passionately, almost madly with zeal. Without it, the mission is a non-starter."



# PM-CM-DM Approach

PM	CM	DM
Mann ki Baat dedicated to SBM	CM's commitment to ODF State	DM accountable for delivering SBM
Tweet 'SBM Champion Collector' of the month SBM-G messages in	Strengthen institutional arrangements	Converge all related government programmes
Teacher's Day VC	Develop state	"Champion" the shift
PM-CM-DM Event	strategy to address SLWM	from construction to ODF
SBM Sessions of: - Cabinet - Parliament - Niti Aayog GC	CM-DM-GP events	Generate awareness and implement strategy for SLWM

## Challenges...

- Construction targets (measurable)
- Use data not collected, so gets left behind
  - Depending on how you measure it: 98%-50%
- Can you get usage up?
- Funds are plenty, but spending them is problematic
- Lots of innovation, lots of CLTS trainings
- Evidence that toilets are being built, but little evidence of which approaches are working and why



### Issues

- Going hell-for-leather, no time to think, plan, research
- This is a sales campaign, driven by targets
  - Not a marketing campaign with strategies and plans
- Politicians have staked their reputations on this, and need to look good
- Academics, NGOs, funders and Gov all have different roles, healthy tension?
- Choose Cynicism or roll up sleeves and help?



### Lessons for Tanzania's NSC

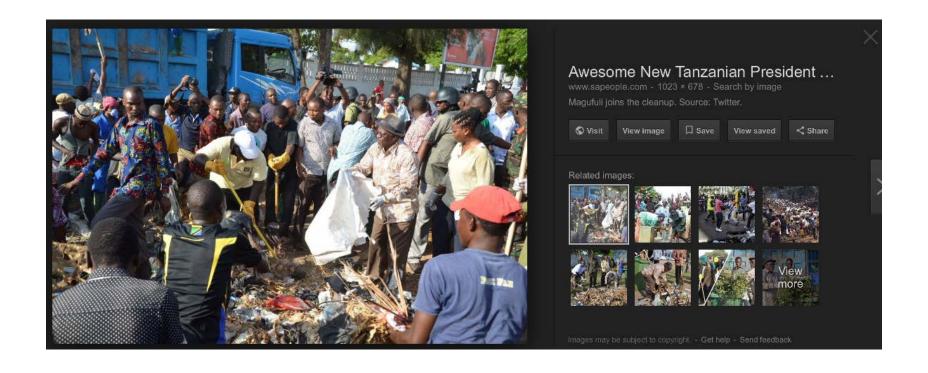
- Set a BHAG -- not 2030!
- Create a unifying identity
- Create a success story for everyone.





- Planning and passion
- Local ownership, competition between districts, but reward everybody
- Real time monitoring and feedback
- Constant buzz in press
- Surprise!





Be one of the first to have a smell-free toilet.

### SaTo

- Automatically seals to eliminate flies.
- Closes quickly to block sights, smells, and heat from pit.
- Rinses with less than 200 ml of water.
- Smooth, easy-to-clean surface.
- · Safe for children.
- Easy installation in concrete or wood floor.

For less than 17,500 UGX!

### LIXIL

Official Distributor Contentin, Limited Flor No. 265 Steja Bond Brosty agentes - Vannares EO. See 15381 Europela (Cigaroba) 201 - 236-390-242015 - 236-390-242016 Make your home smell-free today with the SaTo toilet.













"Civilisation is the distance that man has placed between himself and his own excreta."

-- Brian Aldiss Novelist



















