# WC CUBICLE PROJECT

## DEVELOPING A SANITATION SOLUTION FOR RURAL AREAS IN INDIA


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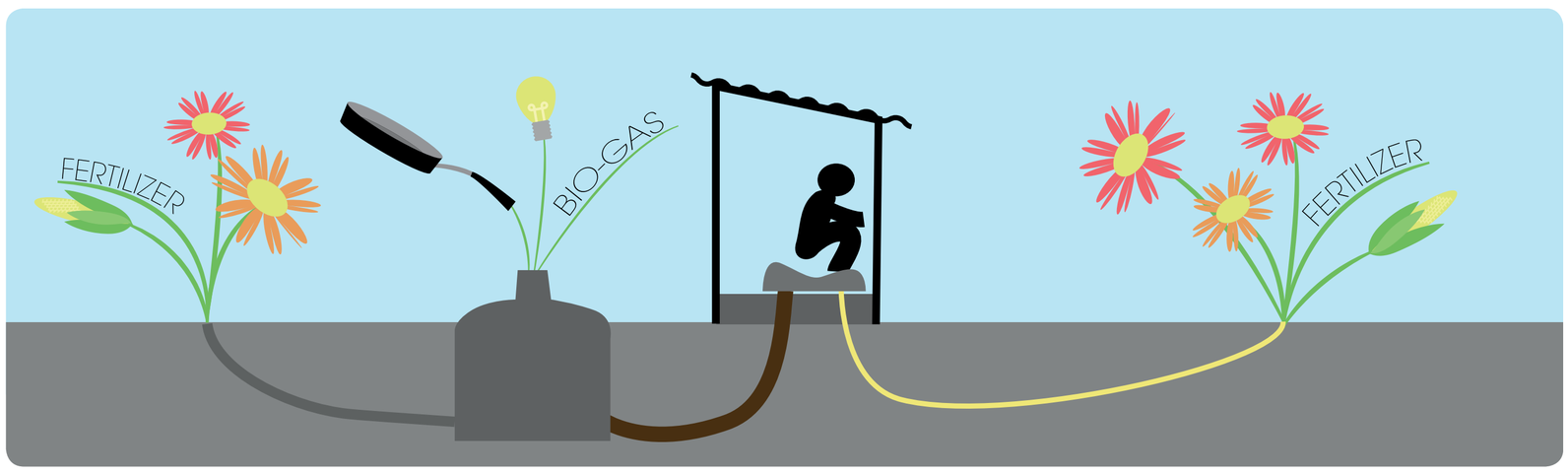
### INTRODUCTION

- *"626 million Indians live without access to toilets or proper sanitation services, electricity, sewage system or even potable water."*[1]

The EcoPan, a product and idea that came together with Roca company, is one attempt to change this situation. Taking into account the culture, the religion and the difficulty of education this project intended to find the best solutions for capturing and processing human waste and transforming it into useful resources.


### REUSING THE WASTE




#### Solid waste: Biogas and fertilizer

The biodigester makes use of the solid waste to produce biogas that can be used to cook or lighting. A biodigester is a natural system that takes advantage of the anaerobic digestion of the bacteria in the dung, to transform this into biogas and fertilizer.

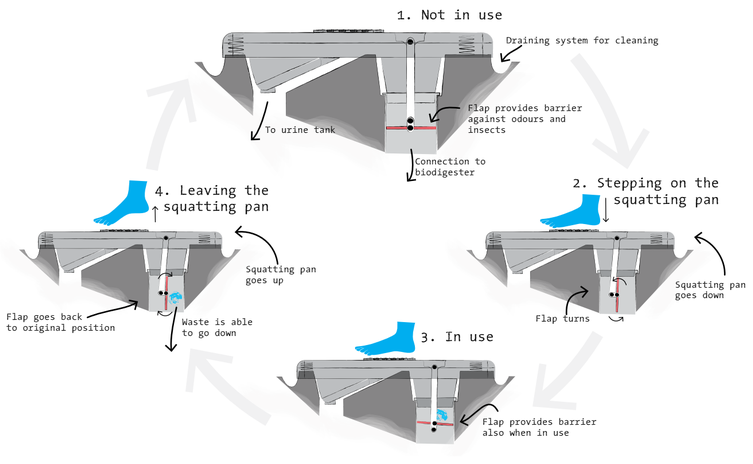
#### Urine: Fertilizer

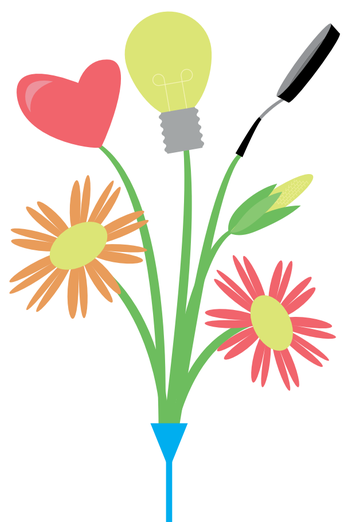
Urine contains most (94%) of the NPK nutrients excreted by the human body and can be considered sterile. This makes the urine an excellent fertilizer for frayed lands of India.

### SQUATTING PAN WITH FLAP SYSTEM

Improvements of existing squatting pans

- Innovative flap system to avoid smell and flies
- Functions automatically by the pressure of the feet
- Drain to facilitate cleaning



### CONCLUSION

The idea EcoPan can become the beginning of a profound change in India. The environment benefits since EcoPan will reduce the damage caused by open defecation. It will provoke a change in hygiene habits of the population, and also make a cultural and social change as well as being an alternative source of funds.

[1] WHO. 2013. "Water Sanitation Health" Accessed June 3rd. http://www.who.int/water_sanitation_health/monitoring/jmp2012/fast_facts/en/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