

# Nano Water Technologies Africa (Pty) Ltd

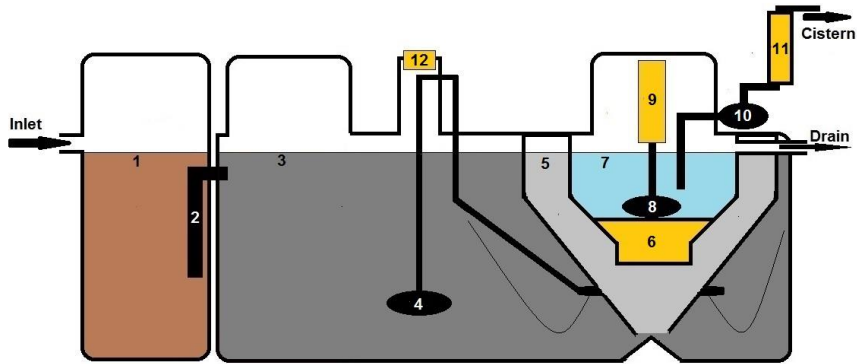
## *Introducing SMARTSAN*

SMARTSAN is a CSIR Agrément certified, **TOTALLY GREEN**, compact, full water-borne sanitation system, developed and manufactured in South Africa

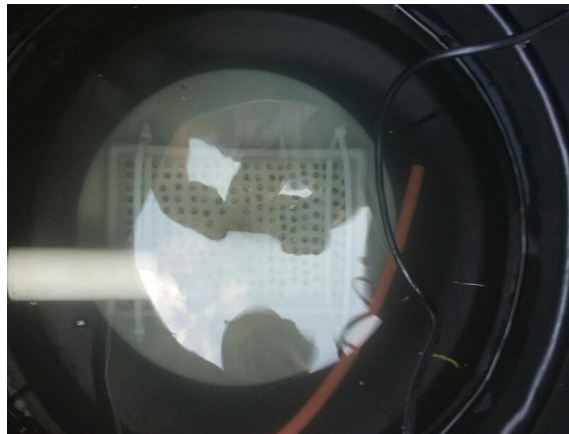
**Our Vision/Your Solution**  
**Dignified Sanitation**  
**Dignity for Humankind and Environment**



# SMARTSAN Flow Pattern



- Sludge Box** : Anaerobic Biological Process
- Chamber 1** : Aerobic Biological Process
- Primary Clarifier** : Anoxic Zone
- Secondary Clarifier** : Filtration Process



# SMARTSAN Benefits

- Provide a full WATER-BORNE sewer reticulation infrastructure

## Where there are:

- No Conventional infrastructure (Water or Sewer)
- No power connection

## Benefit to end user

- Access to safe, full water-borne, sanitation inside or outside his/her house
- No handling of sewage, in any form, by the beneficiaries

## Water Saving

	Conventional water borne toilet:	NWTA SMARTSAN:
• One family :	<b>32 000</b> liters per year	<b>2 400</b> liters per year
• Four Families :	<b>128 000</b> liters per year	<b>2 400</b> liters per year

NB: When kitchen and bath outlet is connected to SMARTSAN unit then the top up amount is reduced to **ZERO litres**.

## Maintenance Programme Required

- Very basic maintenance, that can be executed by trained community members, resulting in job creation.

NB: If no maintenance programme in place, the SMARTSAN will not function as designed



# SMARTSAN Applications

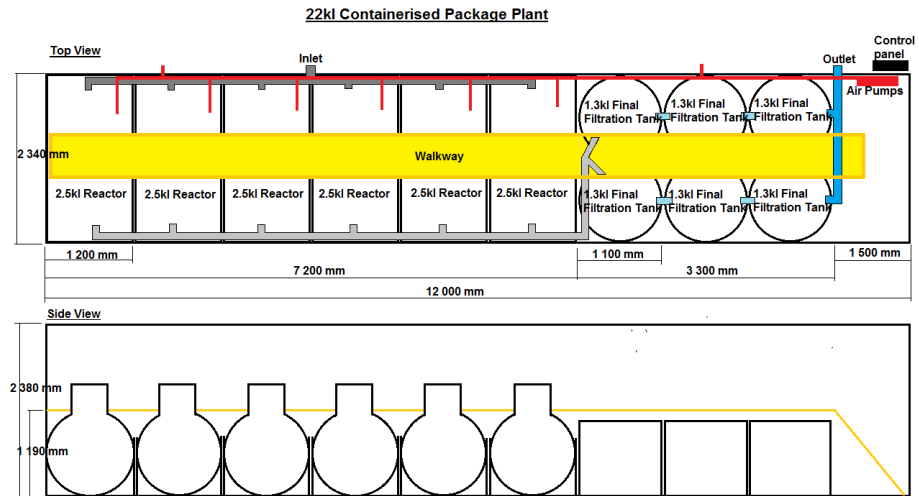
- Government/Private housing projects and GAP housing
- Densely populated informal settlements
- Rural areas, because of the difficulty in installing water-borne sewerage due to topographic factors, or to distances between villages
- Rural schools where no sewer infra-structure available
- Farming communities, for the same reason
- Camp sites, including holiday sites
- Disaster management





# Current *SMARTSAN* Projects

- Private housing development scheme in Namibia
- Containerised package plant for hotel group in Mozambique
- Containerised package plants for schools in Lesotho
- Export to Zambia



# Some *SMARTSAN* Installations





# Some *SMARTSAN* Installations

