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PROJECT

FLOWING THE SMART WAY



In the roadmap to a smart and green urban society, sanitation is an important milestone. Currently, using toilets is neither smart nor green. Every flush of common toilets sends about 13 - 16 litres of fresh water to wastewater treatment centres. These processes require 3 - 15 kWh for treating just one cubic meter of wastewater. Another problem is the mixing of urine and faeces from the source, necessitating wastewater treatment. Due to common technical water supply problems such as pipe blockage and leakage in the pipe system, current toilet systems are not functional. However, many of these problems can be solved using smarter designs.

Features

- E-Loo uses less water thereby reducing water consumption
- Integrated with sensors such as gas sensor for bad odour detection, water level sensors and water flow meters along with load cells for monitoring effective water supply as well as water leakage
- Improved flushing systems using Solenoid valves
- Special light and handy toilet seats for sanitation
- The seat cover and the toilet surface are sterilised by adding a sterilising agent. The toilet surface is kept viscous in order to avoid surface contamination
- When sensors detect a need for a human assistance to keep the toilet clean, an alert is sent to the janitors directly
- An app is available to collect feedback from the users