

Knowledge Sharing for Water And Sanitation (WATSAN)

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WATSAN

- * Water Demand (Water Resources)
- * Water Treatment System
- * Tube well (Water Quantity)
- * Water Usage
 - (100 % Ground Tank)
 - (50 % Overhead Tank)
- * MNBC – 2025 (5D)
 - (Pipe installation for water and wastewater)
 - (Pressure pipe - 13.5)

WATSAN

Water Treatment System

Hazardous Parameters –

1. Bacteria (E-coli & Total Coliform)
2. Iron (Fe)
3. Manganese (Mn)
4. Lead (Pb)
5. Arsenic

WATSAN

* Wastewater Disposal

- * Grey Water (Grease Trap , Solid Trap)
- * Black Water
- * Wastewater Treatment Process & System

MNBC – 2025 (5D) Effluent Wastewater Standard (Quality Control)

- BOD (20 - 50mg/l)
- COD (50 - 100mg/l)
- TSS (40 - 70mg/l)etc.

WATSAN

Wastewater Treatment Process & System

- * ASP (Activated Sludge process)
- * MBBR (Moving Bed Bio-Reactor Process)
- * MBR (Membrane Bio-Reactor Process)
- * DEWAT (Decentralized)
- * Upflow Filter Media System
- * Jel Process

WATSAN (Sanitary)

- * Population
- * Capacity Cover Control
- * MNBC – 2025 (5D)
- * Environment Impact & Public Health
- * Adulted person & Disable Person
- * Sustainable Development Goal (Environmental Impact)

WATSAN (Drainage)

- * Layout Plan (Floor Area)
- * Map (Level Control)
- * Rain Fall Intensity
- * Site Drain to Main Drain to Disposal Point
- * Flooding Space to environments

WATSAN

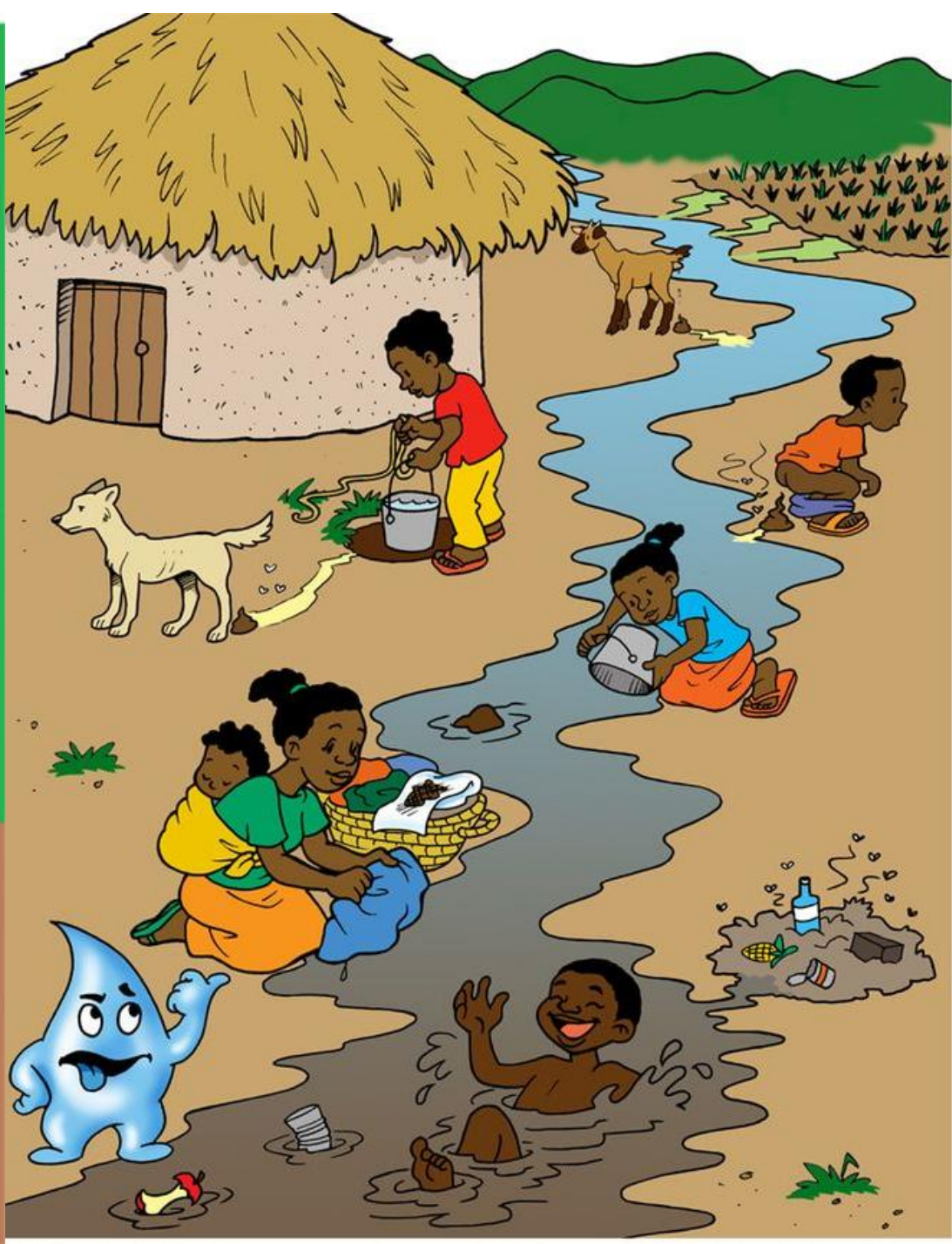
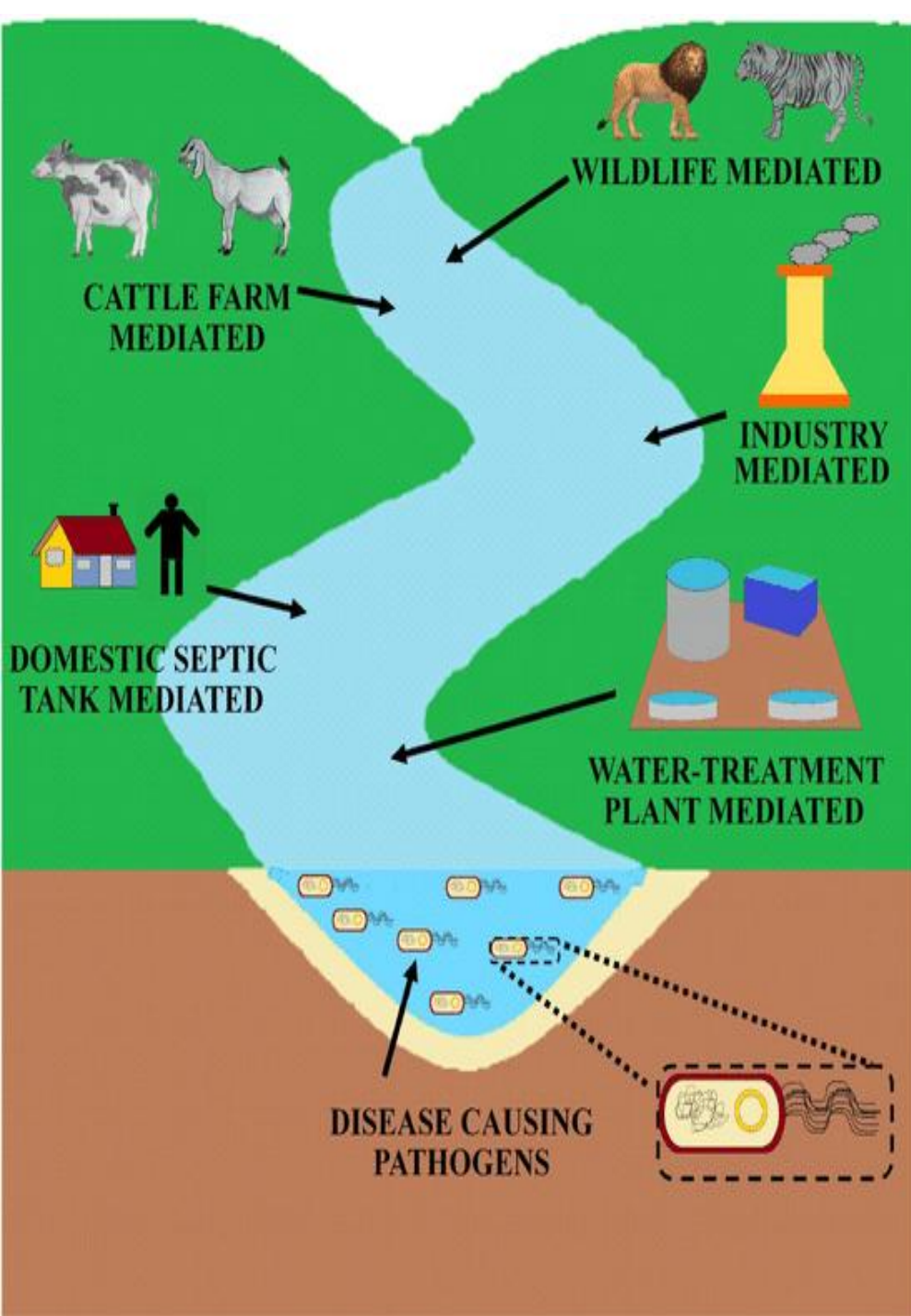
- * Protection of Water Pollution, Soil Pollutions, Air Pollutions.
- * Disposal of Effluent Quality Standard
(eg : Pepticide Pollution)
- * For Agricultural Farm
- * Treatment
 - Filter (Rapid Sand , Slow Sand)
 - One Night Sedimentation
 - Boiled Water

WATSAN

- * Project (Proposal Condition, Complete Certificate)
- * Inspection of WATSAN (Many Times)
- * Environmental Impact of WATSAN
- * Easy to open , To operate , To Maintain
- * Good Professional Engineer

WATSAN

- * Drain (Prevent for flood control)
- * Y.C.D.C(Engineering Department (Drainage Management))
- * Supervision of Main Drain in this Department
- * Prevent for flood in Y.C.D.C Area
- * New / Extension / renovation of Main Drain
according to population density



Conclusion

- * WATSAN (Essential)
- * Hazardous waste for Public Health
- * Importance for Environmental Impact



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