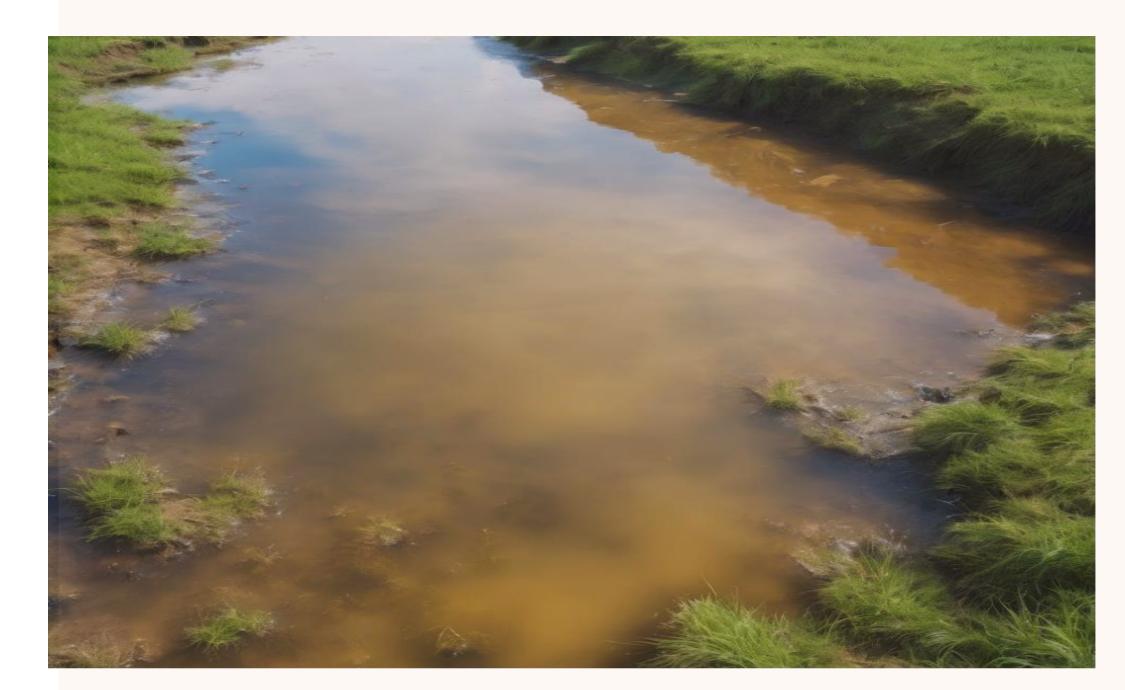
Frontiers in water circularity in context of WASH

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Issues

- Water Pollution due to small scale industries
- Water Quality issues plaguing communities
- Lack of Sewerage in small towns, villages and slums





Polluted Water entering drinking water streams

Courtesy-Author

Context Untreated Wastewater generated from

- Domestic sources
- Small Scale sources
- Agriculture and allied activities

Risks due to untreated wastewater

- Health risk
- Destrioys Water bodies
- Water Insecurity

Indigenous Low Cost
Innovation which is
currently not being used
for treating animal waste
generated sludge

Dirty sludge Primary Treatment to remove Settling and chemical

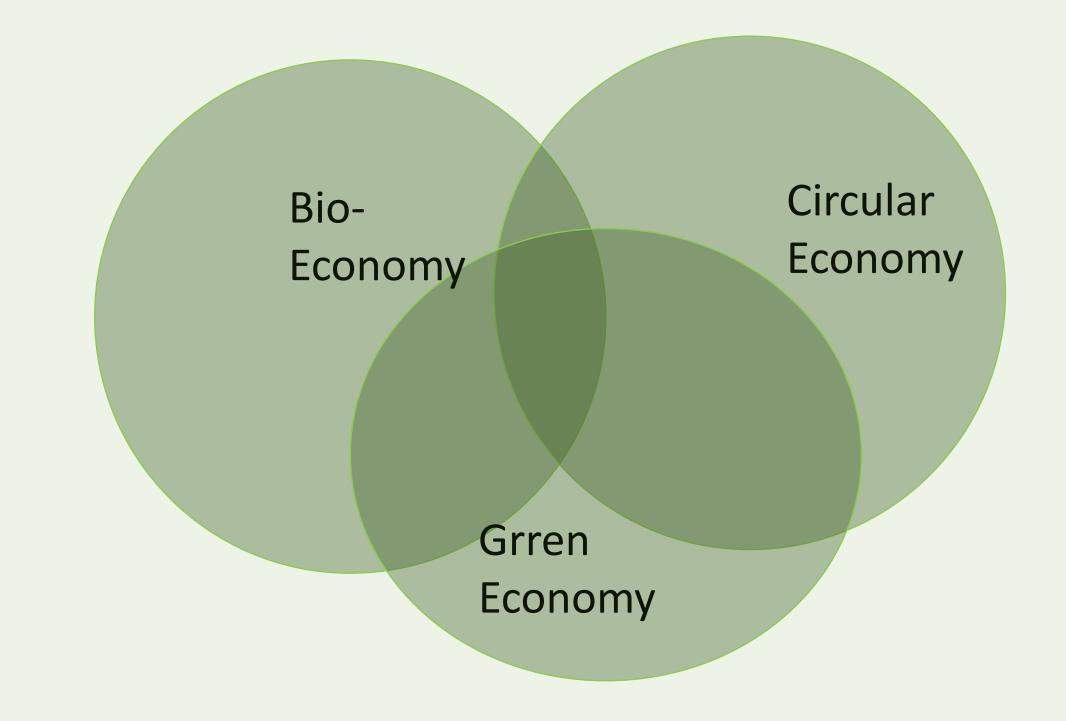
Advantages

treatment

Cost Effective

solids

- Independent of government infrastructure
- Water security due to circularity of wastewater
- It incorporates elements of green economy, bio-economy and circular economy



Mobile Sludge Dewatering
Unit(consisting of filter press)

Liquid separated and reused or recirculated

Sludge can be reused as manure or incinerated to produce biofuel or produce biogas

Solid-Sludge

separated

Approx cost is only INR 300 for treating 6000-7000 litres



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