

# AquaLoop

AI powered industrial water reuse  
market place

Truning industrial waste-water into a smart tradable resource

## Team -Absurd

- 1.Vaishnavi pal
- 2.Roli Rathour
- 3.Gaurav Prajapati
- 4.Anuj Pratap Singh



## Real world

### The problem Statement

30% of India's freshwater consumed by Industries

**Chennai,India(2019-DayZero):**

Industries shut down due to water scarcity while treated wastewater was discharged unused

**Pune & Bengaluru industrial Belts:**  
seasonal Shortages borewells drying  
tanker prices rise 3-4X

**Global Issue:**

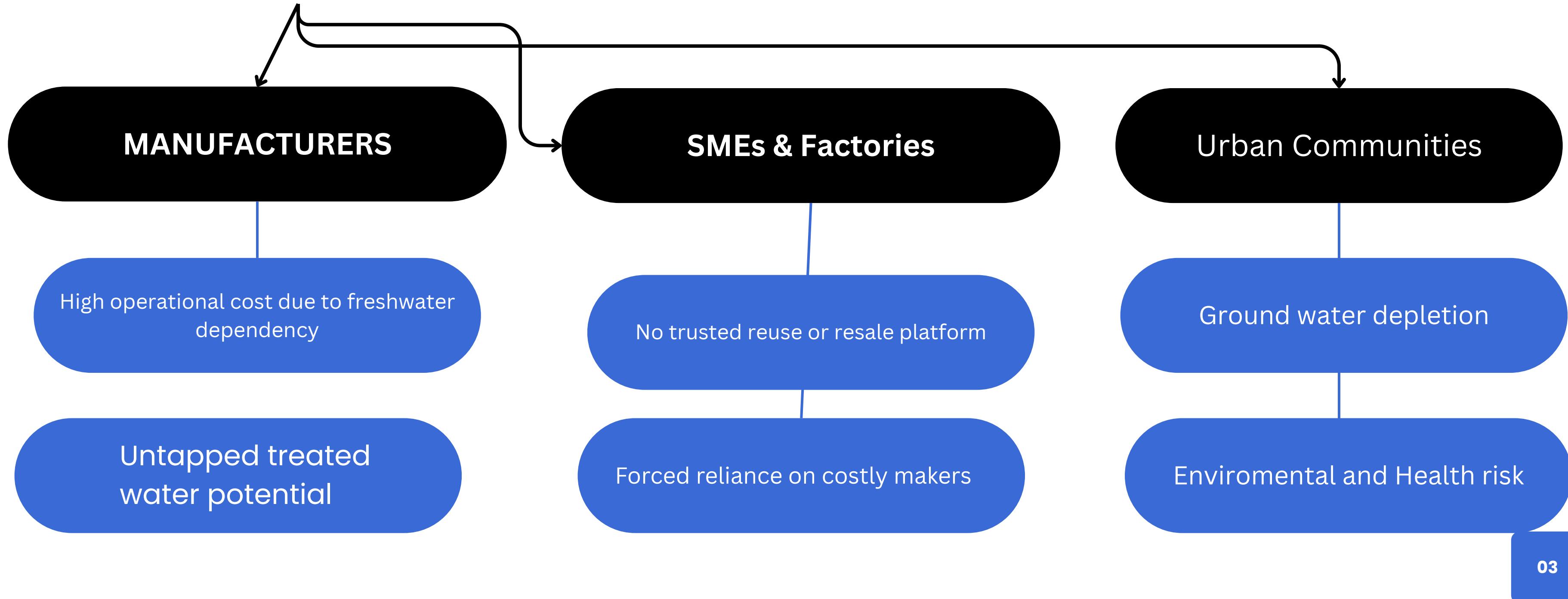
industries treat water but lack intelligence trust, and visibility to reuse or trade it

**Core Problem:**

Water exists but there is no intelligent system to reuse, price, and distribute it efficiently

# Who Suffers & Why it matters Who Pays the

**Price**



# **Our Solution:**

## **AquaLoop->Closing the water loop**

***ONE Platform end-to-end intelligence***

### **ML water Classifications:**

- Grades water as A,B,C,or Unsafe

### **ML water Classifications:**

- AI estimates key parameters (PH,TSS,Turbidity,etc.)before

### **Ai Advisor(Gemini):**

- Actionable insights reuse suggestion, and compliance guidance

### **Verified MarketPlace:**

- Industries list treated water, buyers purchase with full transparency

AI-Driven dynamic pricing

Using Google Gemini + spatial Data,  
AquaLoop predicts water  
price based on:

**water quality guide**

**Distance b/w buyer  
and seller**

**Local water  
availability(5km  
radius)**

**Result: Fair pricing, reduced exploitation,  
real marketplace intelligence**



## Smart Pricing & Marketplace intelligence

# Google Technology Stack Built Entirely on Google Technologies

## Google Gemini API

Ai Advisor,analytics & price prediction

## Google Maps Api

Location mapping & logistics

## Google Earth Engine

Satelite-based water availability analysis

## Firebase(Auth+Firestore+ Functions)

Secure login,real-time data, cloud deployment

## Custom ML Models

Water grading & treatment impact visualisation

# **Impact and Scalability impact today.Scale tomorrow**

## **Impact**

Reduced freshwater extraction

Circular water economy

## **Scalability**

industry->city->State->national->Global

Sector-agnostic:  
textile,pharma,automotive,  
food

AquaLoop transform industrial wastewater into a scalable ,intelligent water economy

# Thank You

Team Absurd

