

# AquaLoop

AI powered industrial water reuse  
market place

Truning industrial waste-water into a smart tradable resource

## **Team -Absurd**

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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

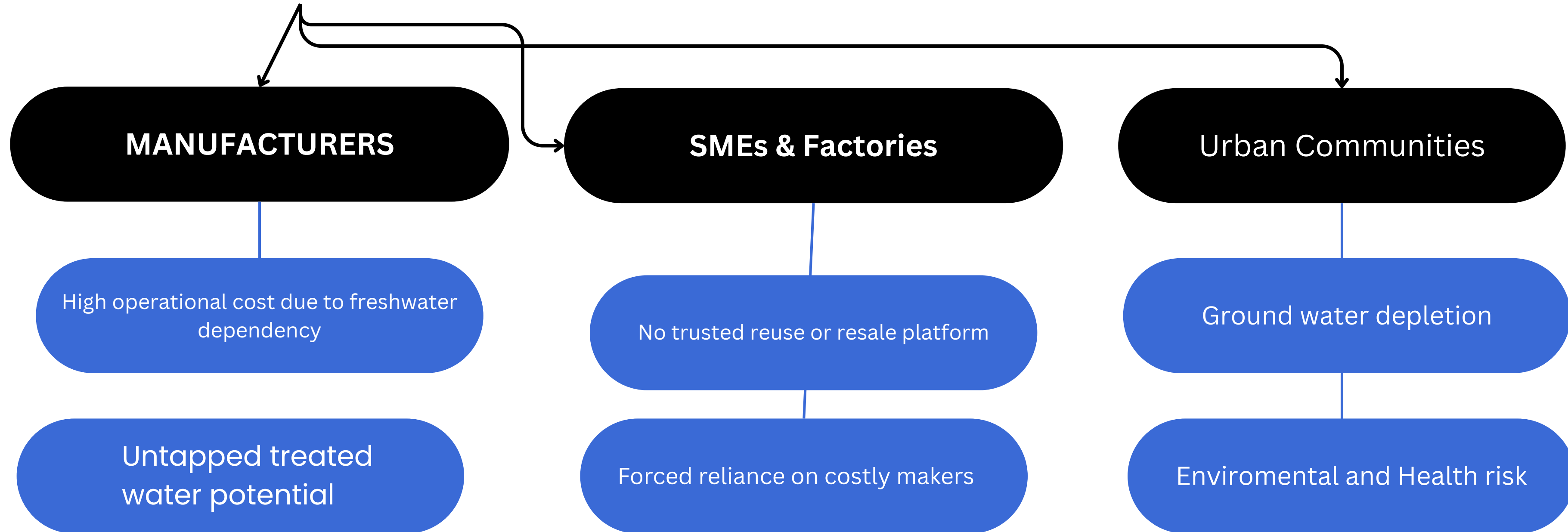
### Global Issue:

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 Earth Engine

Satellite-based water availability analysis

### Firebase (Auth+Firestore+Functions)

Secure login, real-time data, cloud deployment

### Google Maps Api

Location mapping & logistics

### 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

