

Define CS, fit into CC

**1. CUSTOMER SEGMENT(S):**

CS

Creating a River water quality measure that enhances the contaminated river water to alert the end user

Providing Repeated monitoring of system for accurate results prediction

**6. CUSTOMER CONSTRAINTS:**

Maintaining the cost factor that support for efficient device

Service and maintenance for the device is high

**5. AVAILABLE SOLUTIONS:**

Detect the device that manages the river water quality

Detected values are edge computed and results to the target user.

Results are then alerted and transferred to further officials

Explore AS, differentiate

**2. JOBS-TO-BE-DONE / PROBLEMS**

J&P

Measurement and reading of values must be difficult

Edge computing must be provided with high cost computing

**9. PROBLEM ROOT CAUSE**

Natural Factors such as toxic smells and contaminated gases

Human made effects such as land pollution, resupply of unwanted waste liquids and solids into river bodies

**7. BEHAVIOUR**

Customers will further be able identify the regions that have contaminated regions , and take measure for immediate actions

Focus on J&P, tap into BE, understand

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### 3. TRIGGERS

TR

Process the results of edge computed devices , Alert the End user for Preventing contaminated regions

### 4. EMOTIONS: BEFORE / AFTER

EM

No worry Regarding the Pollutant water being used

Less manual efforts for computation

### 10. YOUR SOLUTION

SL

Creating an IOT model that computes the water for pH, Salinity, COD, BOD, temperature and compute the analyzed results

Edge Computed Results passed for cloud drive

Cloud tabulates the results and results for indication for violation of water criteria will be alerted to the end officials

If no response for next 1hr the alert is passed on to next higher officials with location of the river bodies

### 8. CHANNELS of BEHAVIOUR

8.1 ONLINE

Alert Notifications are filed in database for further reference and analyze using a machine learning model which regions causes maximum effect of contamination.

The contaminated regions micro particles are further classified and it is notified monthly report for the every users.