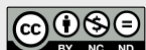# Problem Solution Fit

Date	28 September 2022
Team ID	**PNT2022TMID17403**
Project Name	Project - IOT Based Real-time River Water Quality Monitoring and Control System
Maximum Marks	2 Marks

Problem-Solution Fit canvas

Purpose / Vision

Version:

1. CUSTOMER SEGMENT(S) `CS`

Local Authorities and Common people

6. CUSTOMER LIMITATIONS EG. BUDGET, DEVICES `CL`

Costly, do not know if accurate, not available for all localities.

5. AVAILABLE SOLUTIONS PLUSES & MINUSES `AS`

Accurate measuring of water quality using various sensors, make it available in all remote places

Define CS, fit into CL

Explore AS, differentiate

2. PROBLEMS / PAINS + ITS FREQUENCY `PR`

Consuming contaminated water leads to various problems for all living organisms.

9. PROBLEM ROOT / CAUSE `RC`

The water may be contaminated by means of nutrient pollution (Industry), Eutrophication, Algal blooms and so on.

7. BEHAVIOR + ITS INTENSITY `BE`

If there is even a small change in water's parameter, then there is said to be some sort of contamination in water, so the sensors should be capable to analyse that small change and should predict it accurately.

Focus on PR, tap into BE, understand RC

Focus on PR, tap into BE, understand RC

3. TRIGGERS TO ACT `TR`

Here the motive is to predict the contamination of river water and create awareness among people for the same.

10. YOUR SOLUTION `SL`

The water should be monitored by using sensors and gather its temperature, Ph value, Turbidity value should be measured so that the user(Who consumes the water) be aware of the water he/she consumes and prevents consuming when the water is contaminated.

8. CHANNELS of BEHAVIOR `CH`

ONLINE

Customer uses web application to analyse various parameters of water.

OFFLINE

The customer receive message in mobile phone if there is any change(Contamination) in water.

4. EMOTIONS BEFORE / AFTER `EM`

The output is predicted accurately regarding the contamination of water, so as to avoid consumption of contaminated water by the people

Identify strong TR & EM

Extract online & offline CH of BE

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WHO IS YOUR CUSTOMER?	EXPLORE LIMITATIONS TO BUY / USE YOUR PRODUCT OR SERVICE	HOW ARE YOU GOING TO BE DIFFERENT THAN COMPETITION?
FOCUS ON FREQUENT, COSTLY OR URGENT PROBLEM TO SOLVE	UNDERSTAND THE CAUSE OF THE PROBLEM	TAP INTO, RESEMBLE OR SUPPORT EXISTING BEHAVIOR
DESIGN TRIGGERS THAT FIT REAL LIFE, SPARK ASSOCIATIONS, MAKE IT FAMILIAR / ADD EMOTIONS FOR STRONGER MESSAGE	YOUR "DOWN TO EARTH" SOLUTION GUESS	BE WHERE YOUR CUSTOMERS ARE

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