

## Problem Solution Fit

Team ID	PNT2022TMID13087
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:

Define CS, fit into CL	<b>1. CUSTOMER SEGMENT(S)</b> <span>CS</span>  Local Authorities and Common people	<b>6. CUSTOMER LIMITATIONS</b> <span>CL</span> <small>EG. BUDGET, DEVICES</small>  Costly, do not know if accurate, not available for all localities.	<b>5. AVAILABLE SOLUTIONS</b> <span>AS</span> <small>PLUSES &amp; MINUSES</small>  Accurate measuring of water quality using various sensors, make it available in all remote places	Explore AS, differentiate
	<b>2. PROBLEMS / PAINS</b> <span>PR</span> <small>+ ITS FREQUENCY</small>  Consuming contaminated water leads to various problems for all living organisms.	<b>9. PROBLEM ROOT / CAUSE</b> <span>RC</span>  The water may be contaminated by means of nutrient pollution (Industry), Eutrophication, Algal blooms and so on.	<b>7. BEHAVIOR</b> <span>BE</span> <small>+ ITS INTENSITY</small>  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.	
Identify strong TR & EM	<b>3. TRIGGERS TO ACT</b> <span>TR</span>  Here the motive is to predict the contamination of river water and create awareness among people for the same.	<b>10. YOUR SOLUTION</b> <span>SL</span>  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.	<b>8. CHANNELS of BEHAVIOR</b> <span>CH</span>  <b>ONLINE</b> Customer uses web application to analyse various parameters of water.	Extract online & offline CH of BE
	<b>4. EMOTIONS</b> <span>EM</span> <small>BEFORE / AFTER</small>  The output is predicted accurately regarding the contamination of water, so as to avoid consumption of contaminated water by the people		<b>OFFLINE</b> The customer receive message in mobile phone if there is any change(Contamination) in water.	

## 0. Vision

**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**

