

Project Title: Real-Time River Water Quality Monitoring and Control System

Project Design Phase-I - Solution Fit

Team ID: PNT2022TMID45388

Define CS, fit into	<div>1. CUSTOMER SEGMENT(S) Government sector</div> <div>CS</div>	<div>6. CUSTOMER CONSTRAINTS</div> <div>Spending power, budget, no cash, network connection, available devices.</div> <div>CC</div>	<div>5. AVAILABLE SOLUTIONS</div> <div>Which solutions are available to the customers when they face the problem Wireless communication developments are creating new sensor capabilities. The current developments in the field of sensor networks are critical for environmental applications. Internet of Things (IoT) allows connections</div> <div>AS</div>	Explore AS, differ
	<div>2. JOBS-TO-BE-DONE / PROBLEMS To identify the temperature and turbidity of the river water. Controlling and monitoring system.</div>	<div>9. PROBLEM ROOT CAUSE</div> <div>What is the real reason that this problem exists? What is the back story behind the need to do this job? The main reason for this project is to identify and control the temperature, turbidity and pH value.</div> <div>RC</div>	<div>7. BEHAVIOUR</div> <div>What does your customer do to address the problem and get the job done? The Behavior of water quality monitoring is to obtain quantitative information on the physical, chemical, and biological characteristics of water via statistical sampling</div> <div>BE</div>	

<div>3. TRIGGERS</div> <div>Energy consumption, Water distribution system, Genetic algorithm, Operating cost.</div> <div>TR</div>	<div>10. YOUR SOLUTION</div> <div>Using real-time monitoring, instant data allows pre-cursors to potential issues (such as corrosion) to be flagged up and immediately be addressed before major issues occur. The ability to make real-time decisions during critical moments can be vital in preventing expensive repairs and breakdown.</div> <div>SL</div>	<div>8. CHANNELS of BEHAVIOUR</div> <div>8.1 ONLINE What kind of actions do customers take online? The temperature and turbidity of the water can be measured by the customers in online. 8.2 OFFLINE What kind of actions do customers take offline? The level of the water can be intimated through the offline mode.</div> <div>CH</div>
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