1. CUSTOMER SEGMENTS:

- Thermal industries
- All types of Small-Scale Industries
- Industries that is associated with flammable substances

6. CUSTOMER LIMITATIONS:

- Requires analytical expertise for analyzing the Sensor data.
- Requires manpower with strong technical expertise for handling the associated software.
- Industry level MIME sensors for accurate sensing is required

5. AVAILABLE SOLUTIONS:

- Various sensors are employed for monitoring the environment.
- Blynk Application and ThingSpeak tool have been used for alerting purpose.
- Some works have employed GSM and GPS modules for notifying the concerned authorities, by using image processing for monitoring.

2.PROBLEMS/PAINS:

- The fire accident if not controlled at the right time can lead to heavy financial and human loss.
- Prompt appropriate action for the particular situation needs to be taken at the right time.

9. PROBLEM ROOT/CAUSE:

- In industries employing chemicals there are high chances of building up of harmful flammable gases.
- There are chances of manual errors while operating the machineries.

7. BEHAVIOUR:

- Gain knowledge on the existing solutions and try to learn more on the products available in this domain.
- Visit the industries to gain knowledge about the working and operation of the machineries.

a3. TRIGGERS TO ACT:

- Real time water sprinklers for controlling the fire
- Exhaust fans for providing ventilation if the concentration of the gases goes high

10. YOUR SOLUTIONS:

- The smart fire management system includes a Gas sensor, Flame sensor and temperature sensors to detect any changes in the environment.
- Based on the temperature readings and if any Gases are present the exhaust fans are powered ON. If any flame is detected the sprinklers will be switched on automatically.
- Emergency alerts are notified to the authorities and Fire station

8. CHANNELS OF BEHAVIOUR:

Online:

Gather information from websites and journals about the existing models

Offline:

Visit industries to acquire adequate knowledge about the operation and working principle of the machineries.

4.EMOTIONS: BEFORE/ AFTER:

Before: Tragic, Unprepared, Helpless After: Stress free, Fearless, Tranquil

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