**PROJECT TITLE**: Hazardous area monitoring for industrial plant powered by IoT

**Explore AS, differentiate**

**Focus on J&P, tap into BE, understand RC**

**Deﬁne CS, ﬁt into CC**

**Focus on J&P, tap into BE, understand RC**

TEAM ID: PNT2022TMID09994

**AS**

**5. AVAILABLE SOLUTIONS**

**CC**

**6. CUSTOMER CONSTRAINTS**

**CS**

**1. CUSTOMER SEGMENT(S)**

An area covered by smart beacons

Beacon network accessibility

Watching beacon for connectivity

Professionals who keep an eye on dangerous areas in industrial plants

Sensors for smart space monitoring

Wi-Fi compatibility with sensors

Pros: Successful area surveillance

Cons: Sensor network coverage is not possible

**BE**

**7. BEHAVIOUR**

**RC**

**9. PROBLEM ROOT CAUSE**

**J&P**

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

To ensure that everyone is alerted when potentially hazardous things are discovered

The staff members have a worn watch that allows them to view the necessary or specified facts and act safely as a result.

The safety of the employees comes first. Risky work is done in dangerous areas. This will aid employees in understanding the surroundings.

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| **Identify strong TR & EM** | **3. TRIGGERS TR**  If our approach is implemented successfully, other industries will also adopt it. | **10. YOUR SOLUTION SL**  Using the appropriate sensors in the beacons, we'll keep an eye on the area. Our wearable will be connected to the beacons.  We will use the beacon to update the cloud online. We will be able to obtain the reading from the cloud, and we will use that to show them on a web page and a mobile application. We'll have a text message alert system for unusual readings. | 1. **CHANNELS of BEHAVIOUR CH**     1. **ONLINE**   The cloud will keep all of the information. so that the staff can access the mobile app or cloud storage to refer to the location’s specifics   * 1. **OFFLINE**   Employees formerly wore watches that recorded environmental data. | **Extract online & ofﬂine CH of BE** |
| **4. EMOTIONS: BEFORE / AFTER EM**  Employees will have no trouble recognizing or understanding their workplace. |