Project Title: Smart Solution for Railways

Team ID: PNT2022TMID48351

Project Design Phase-I - Solution Fit Template

1. CUSTOMER SEGMENT(S)

Working peoples, College students, School students, Common peoples and childrents.



6. CUSTOMER CONSTRAINTS

Budget network connection Sensors and GPS tracker. Accuracy and reduce man power.



To maintain the tracks, repairs and services to avoid accident and safeguard of things in smart railway system.

Explore

2. JOBS-TO-BE-DONE/PROBLEMS

A train suddenly breaks down on the track can ruin the day of its passengers, lead to delays across the network, and essentially throw the entire system off-gear.

9. PROBLEM ROOT CAUSE

A train suddenly breaks down on the track can ruin the day of its passengers, lead to delays across the network, and essentially throw the entire system off-gear.

7. BEHAVIOUR

RC

IOT based rail track fault detection to reduce sudden accidents. Delivering food and medicine using drones.

Automatic sanitization of train before and after the passenger entry and leave. Safety sensors can be added to critical components of the trains such as breaks and wheels to help alert operators of any issues.

3. TRIGGERS

Railway announced Various helpline numbers/Contact Information to help passengers in order to guide them and instruct them in train related issues at the time of needs, and to provide safety and security to the passengers especially Women and



10. YOUR SOLUTION

Product and services sales to Railways user booking and scheduling service in business

To reduce the sudden accidents, check whether the train is in right time and location travel in low cost safety and reliability.

By using IR sensors to detect objects in the surroundings, GPS tracker used to track the fault in track, Using Ultrasonic sensor to detect the trach in rail track with measuring the distance from the track to sensor to reduce the accidents.

Both passenger and railways must continually improve innovate and enhance the traveler.

8. CHANNELS of BEHAVIOUR

QR Code scanner for emergency ticket booking at ticket counter.

We can Visualize the 360degree view of the train and surroundings around it through our mobile.

Notification message that intimate starting point of train in all stations. When the passenger reach the destination feedback link is send as notification for further improvements to overcome the user side defects.





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4. EMOTIONS: BEFORE / AFTER	Traveler and customer experience to drive revenue, maximize the availability of assets and infrastructure and improve operational efficiency. To maintain the tracks, repairs and services to avoid accident, safeguard of things, track	In case of any breakdown in train the de menu will be send via SMS or Mail notification to the passenger.
The passenger feels before emotions in, in secured, loss of things.	the running status of the train in smart railway system.	
the passenger feels after emotion in greater reliability and safety.		