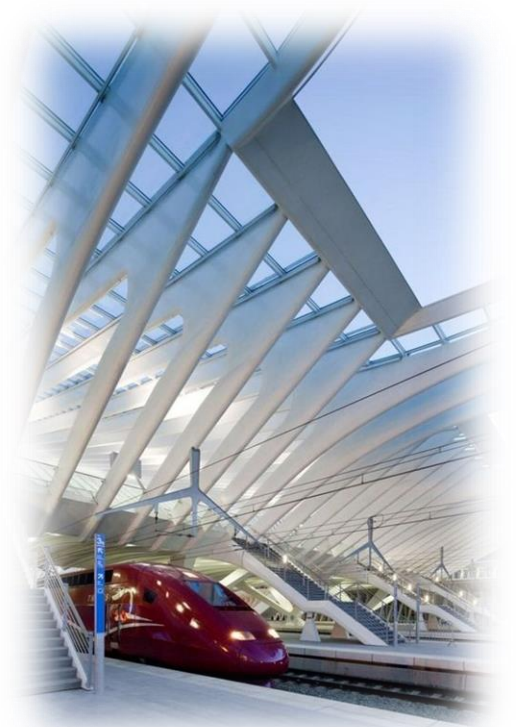# Smart Transport Vehicle

Smart Train Solution Ideas

Smart G4-ecom

Smart Transportation Concept

Smart Transportation happens when the solution designed in full responsive way putting the passenger as the target and fulfilling all passenger basic needs at his finger tips with speed, accuracy and comfort. This includes people meeting and greeting the passenger as well to help reduce stress and jamming of stations, reducing ques and time wastage. Linking Multi transport hubs together under one application that manages moving from point A to point Z including all route needs and ETA, class of reservation and other regardless if it is Train, Bus, Airplane, Ferry or other
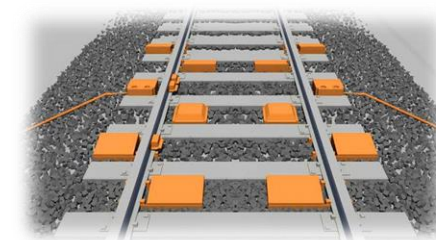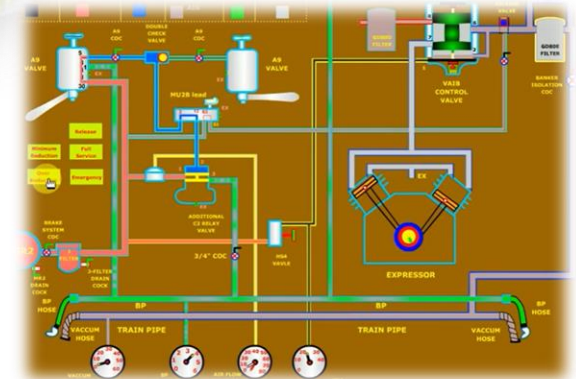
Smart G4 and V-ecom Smartsoft made sure to provide state of the art fully integrated and affordable solution with latest topology and technological handling.

In the Next Slides are some of the Initial Ideas for the solution we are offering to Transportation Ministry for Smart Train as (First Part of the Assignment)

We are offering our following Solutions:

- Ticket /Seat reservation
- Integral Queuing System
- Train Scheduling
- Live Location tracking and ETA
- Inside car Info and announcements
- Sleepers and VIP car Automation controls and Service requesters
- Satisfaction level Survey Evaluators
- Car seat loading indicator displays
- Technical control of the locomotive (power, breaking systems)
- Transmission from the signaling systems giving clearance for entering block sections
- Transmission from track side detectors warning about irregularities that can have impact on the train, like cars on level crossings

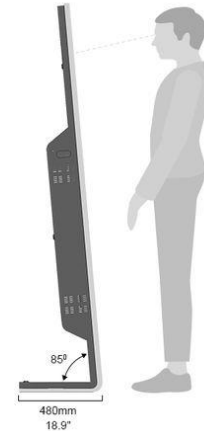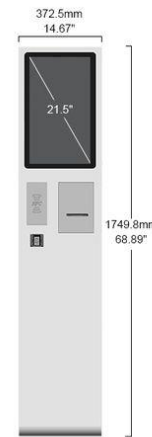# Ticket /Seat Reservation & Queuing

We offer Full Reservation System both online and via ticketing office. The system can consist of both RFID and 2D-Barcode generation. Other Customized solution steps can also be implemented as per need.

Online Steps:

1- Create Profile on app (First Time) Secure

2- Verification & approval

3- Plan Trip and Reserve

4- Buy Ticket and Pay

5- Receive Soft Ticket Then at Station Scan& Print

Walk In / at Station Steps:

A- Check Route and availability on Kiosks/Displays

B- Take Que Number and wait your turn (Integral Solution)

C- Approach window with ID and que token

D- Pay and receive ticket

Train Scheduling TIDS and APP

We offer 2 solutions for train scheduling

A- TIDS (Train Information Display System)

These are large LED Screens, or Multiple Smaller screens that display

all scheduled Trains arrival and Departure, terminals, ETA, Delays++

B- Train TIDS Scheduling on App

All our LED Displays can come with special Advertisment push and scheduling, Dimming and more for revenue generation program.

Train Live Location Tracking

Our Smart G4-ecom Solution for Live tracking provides information to both passengers inside train car as well as to the welcoming and waiting people at station. The displays can transmit live location dynamic mimicking with rolling ETA updates.

We can provide Displays at Terminals, Inside Car and interactive dynamic app update as per client needs.

** All our LED Displays can come with special Advertisment push and scheduling, Dimming and more for revenue generation program.

Inside Car Information Announcement

Our Zone Audio Smart Prompts can Announce in different Languages based on location, time and logic triggers and or manually any of the client needed announcements like:

1- Security announcements

2- Next Station Name Announcement and ETA display

3- Safety Announcements

4- Delay announcements and New ETA Display

5-Station Arrival Announcement

6- Weather announcements and Display of weather at next stations

7- Immigration procedure announcements

8- And more information and targeted advertisement display

Cabin Automation controls

Smart G4-ecom Provides many train cabin controls for both economy cars, and VIP cars and sleepers. Some of these solutions include:

- Cabin Lights control, Dimming control, Skylight and star formation and Color mood controls

- In Cabin Climate control for temperature and air quality

- Entertainment on the go by means of Public displays or privatized touch displays

- Shading and tenting for cabin glass to add comfort to passengers or to create night environment emulation

- Outside live Cameras Displays (Driver Eye, Back and side attracts)

- Inside train Attracts Live camera display of restaurant cabin, bar..etc.

- VIP Service requesters

- Satisfaction Evaluators survey terminals

Car seat loading indicator displays

Smart G4e-com has an innovative car loading information display

The system can display vacant cars vs. overloaded cars

The display indicate number of vacant seats and easy color tags

 ** All our LED Displays can come with special Advertisment push and scheduling, Dimming and more for revenue generation program.

Trains and Locomotive Engine Control Systems

Based on the train type, we can provide different modules and attachments to display and to assist in controls, alerts, and central information sharing. Some of these include:
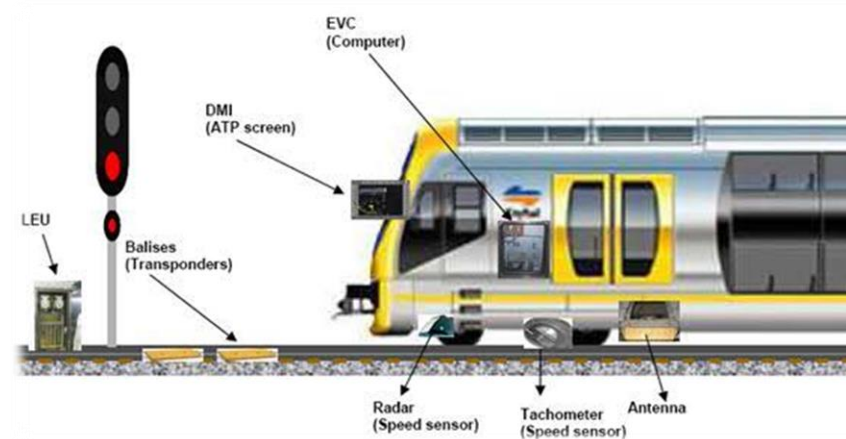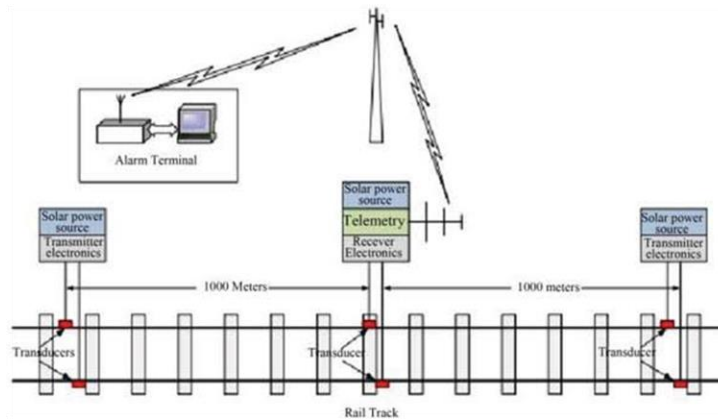
- Fuel tanks, water tanks, level status
- Engine temperature, vibration level, speed, and other
- Locomotive power and breaking systems mimics
- Cabin temperature and lighting controls
- Engine oil pressure, and hydraulic system mimic
- Battery and electrical system status
- Overloading alerts, Trailer status alerts,
- And many more as to be needed

Transmission and Signaling

Signaling to and from Tracks, Locomotive, and Main station is another state of art technology that can be integrated to our wide range solution. Some of but not limited to the following:

- Transmission from track side detectors warning about irregularities that can have impact on the train, like cars on level crossings

- Transmission from the signaling systems giving clearance for entering block sections

- strike zone to detect passing trains and trigger breaks and early collision alerts

To upgrade to Smart Transport System

Kindly Contact

G4 Agent in your country

Thank you for your business