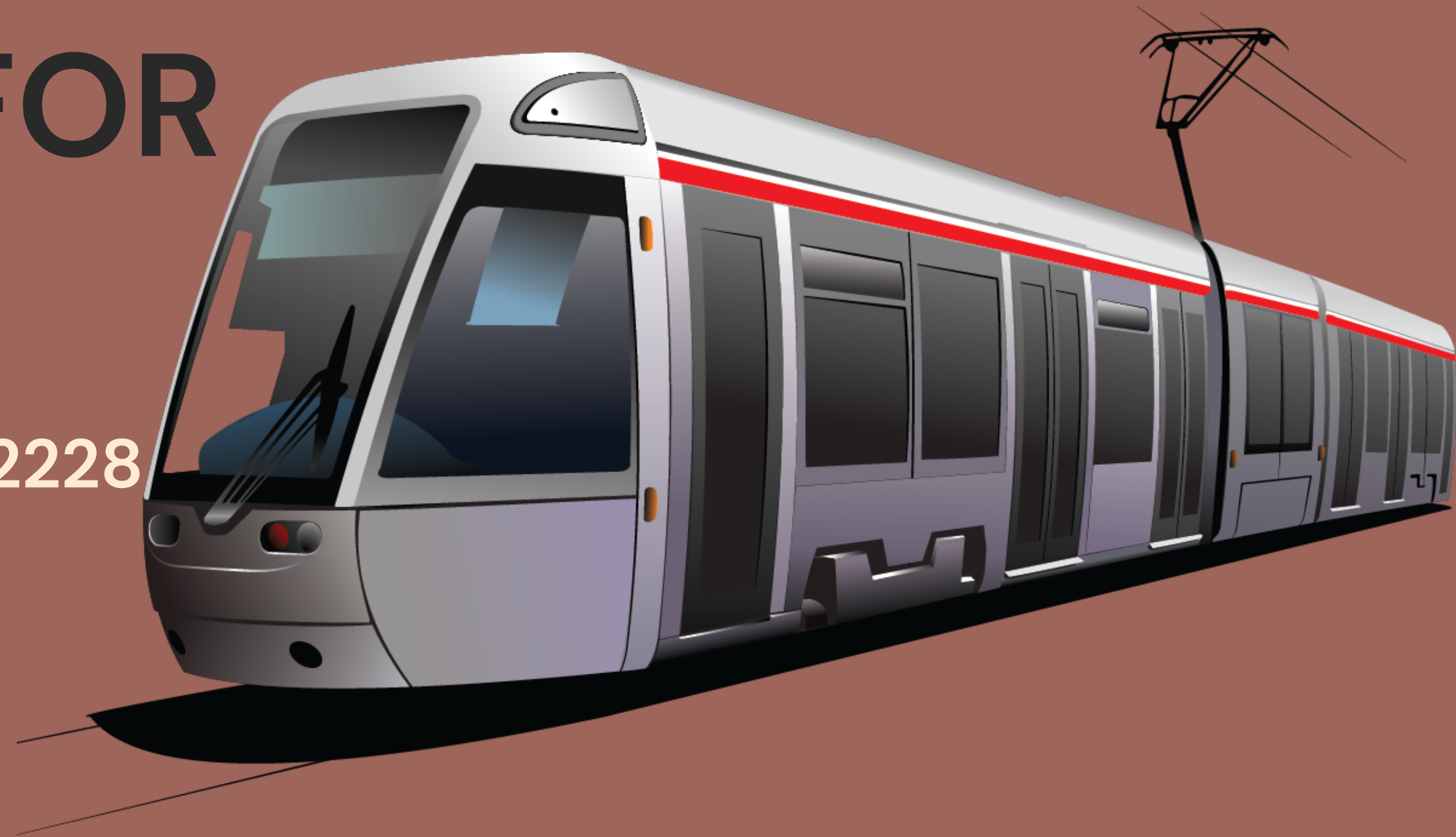


# SMART SOLUTION FOR RAILWAYS

Team ID: PNT2022TMID32228

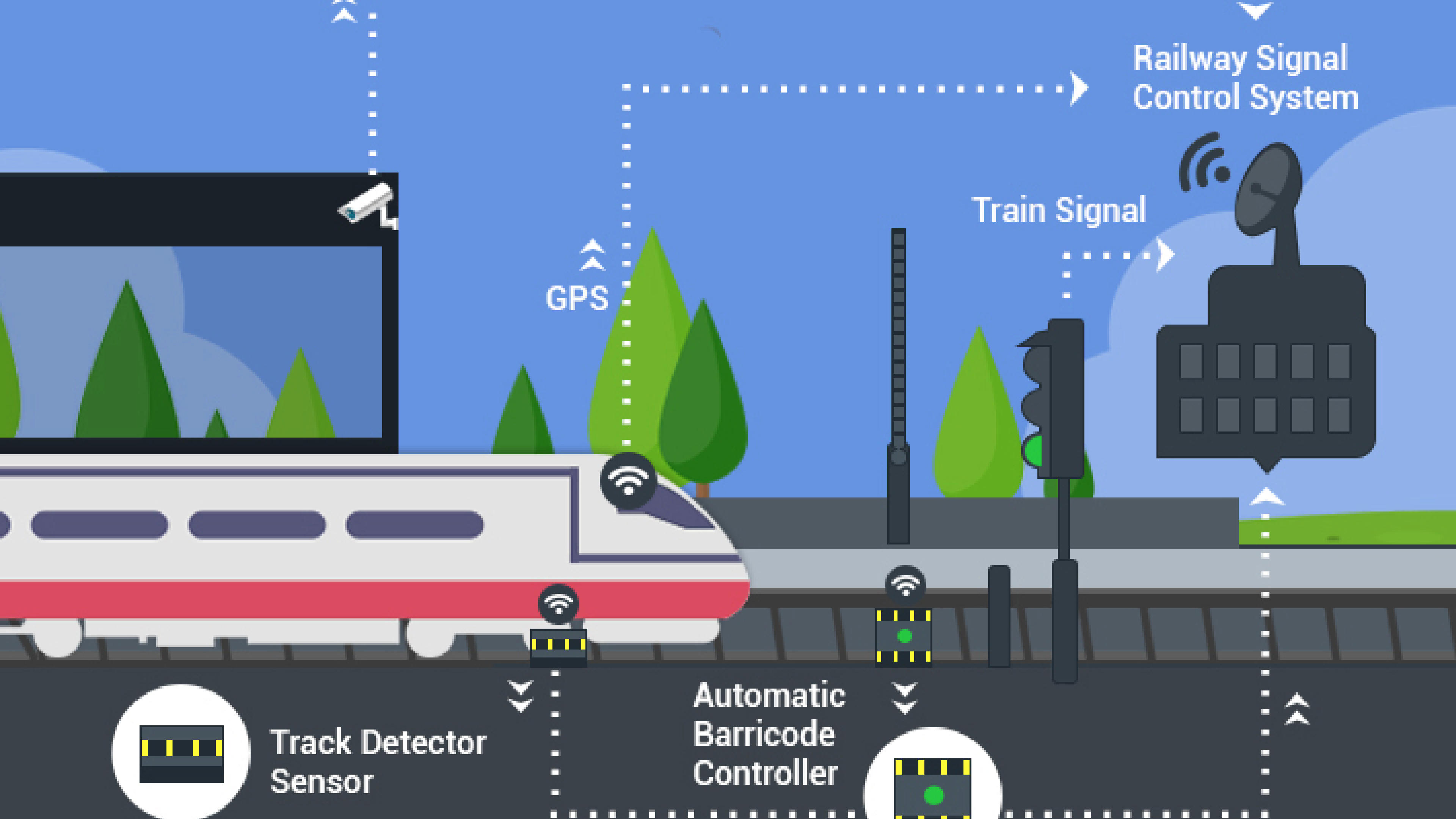
PROJECT DESIGN PHASE-II



# Customer Journey

- 01 Awareness
- 02 Consideration
- 03 Conversion
- 04 Preparation
- 05 Actvation





Railway Signal  
Control System

Train Signal

GPS

Automatic  
Barricade  
Controller

Track Detector  
Sensor

# Awareness

Smart railway is a technologically advanced approach to efficiently manage railway operations through sharing of rail data across rail infrastructure components.

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The project is focussed mainly on digital signalling technology, which aims to enhance safety

# Consideration

Reduced the pre-demonstrated  
maintanance cost and adopting the  
latest technology

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Supervision systems, such as CCTVs  
or emergency telephones, also  
contribute to safety and enhanced  
comfort.

# Application

Computers are used to make reservations, maintaining– timetables, crew schedules

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Use GNSS to track the movement of locomotives, rail cars, maintenance vehicles, and wayside equipment in real time.

# Preparation

IoT technologies as well as IoT applications in different areas which could be extended to the railway industry and improve sustainability of railway operations.

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To give a better passenger experience by improve ticket booking service through the online and automation of notification by SMS



# Activation

The automation of the railway industry goes beyond autonomous train operations (ATO).

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In modern railway mobile communications systems, enhanced with 5G technologies, allow for low-latency communications and high performance, as well as the reliability of railway infrastructure.

**Thank you**