



# TRX R6

## AI Powered Passenger Operations

### Executive Summary

SNCF is leveraging its existing vision infrastructure of CCTV and AI running on the TRX R6 - underpinned by Keel - to provide accurate, real-time information on passenger numbers. With the TRX connected transport system, develop and push new AI applications from the cloud to the edge for improved operations and passenger safety.

### Project Overview

Railway networks are increasingly adopting AI-powered solutions to improve efficiency and enhance passenger experiences. SNCF is currently developing a new passenger counting system that utilizes existing CCTV infrastructure and AI to provide accurate, real-time data.

This setup accurately tracks passengers across multiple camera feeds, minimizing the risk of double-counting as passengers move between different camera views.

Klas' TRX R6 supports SNCF's AI-powered passenger counting system with reliable compute, on top of its routing and SD-WAN functions. The KlasOS Keel operating system enables a hypervisor to run a virtual machine and process passenger counting data.

Data privacy is a key consideration for SNCF's solution. The system anonymizes data from the point of capture, adhering to all relevant data protection regulations. This approach ensures that no personally identifiable information is processed or stored, thereby protecting passenger privacy while enabling valuable operational insights.

Looking forward, AI technology will enable additional features such as tracking persons with reduced mobility, bicycles, and detecting forgotten luggage. These features are expected to enhance resource management and improve the overall passenger experience.

### Benefits

- **Real-Time Accuracy:** Accurate passenger counts, reducing the likelihood of duplicate and misleading data
- **Seamless Integration:** Integrates with existing CCTV systems, avoiding the need for extensive additional hardware
- **Operational Efficiency:** Real-time data to optimise scheduling, resource allocation, with potential cost savings
- **Passenger Experience:** Improved data accuracy for enhanced crowd management and safety



# KLAS

For more information about Klas visit:  
<https://www.klasgroup.com/transportation/>