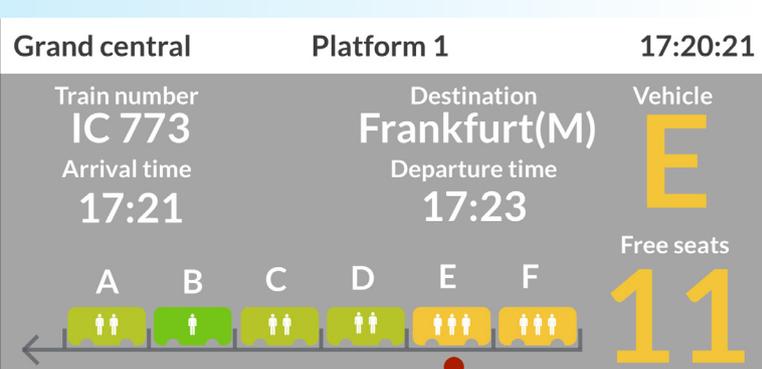# Automated Passenger Counting for a Quick Boarding Process

Queue Management System

Would you like to improve passenger's travel comfort and experience while reducing the time of exchanging passengers on station platforms? Or receive valuable data and adapt timetables to the actual demand?

Trains and station **platforms are often unequally occupied** resulting in a difficult and time-wasting passenger exchange and poor travel conditions for passengers, especially during rush hour. With the possibilities provided by **modern technology**, Simpleway experts developed a unique system that eliminates such sources of inefficiency. Our Automated Passenger Counting solution monitors the **real-time train occupancy** through a system of vehicle (doors) sensors and **provides the necessary data** to the connected systems – mainly platform or onboard displays, voice announcements, or external third party users.

Grand central	Platform 1	17:20:21
Train number	**Destination**	**Vehicle**
IC 773	**Frankfurt(M)**	**E**
Arrival time	Departure time	
17:21	**17:23**	
A B C D E F		**Free seats** **11**

Welcome to Grand Central station. You are standing in a platform section E.

Key benefits

- Boarding process acceleration and optimization
- Various possibilities of passenger data usage
- Easy integration with third party systems
- Vehicle seat reservation management
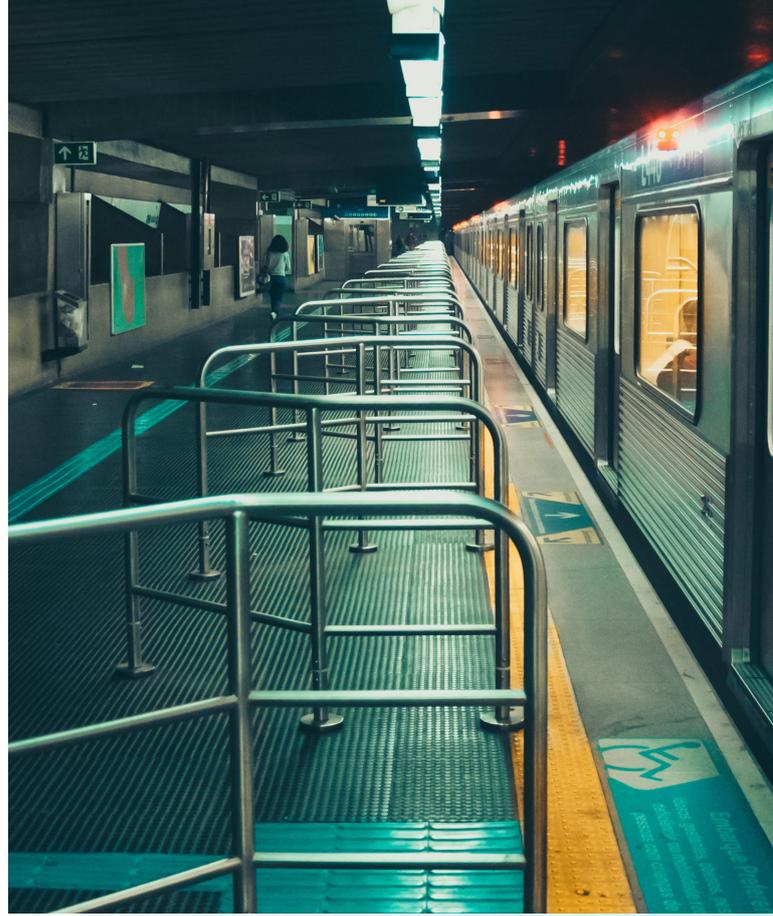- Travel comfort increase

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Why is the Automated Passenger Counting solution so critical? Simply because it influences passengers' behaviour, encouraging them to **line up for fewer occupied parts** of the approaching train, resulting in **huge savings**.

We help passengers to prepare for quicker boarding once the train stops, saving both time and costs.

Besides a significantly accelerated and **optimized boarding process**, the travel comfort is increased as well. Take the benefit of **seat reservations included** in this unified management solution. Or utilize the collected passenger data in future improvements. Our Queue Management solution increases the efficiency of the time allocation for every train occupying the platform as well as **better comfort for passengers**. These features are possible thanks to special sensors, that are located on every door of the train.

The information received by the sensors are then presented on the main platform display and optionally can be distributed to other displays dedicated for every single part of the platform segment – display colour codes representing the **passenger occupancy levels** in each part of the approaching train in advance.

Besides that, for transport authorities organizing and **planning public transportation**, it is essential to have thorough knowledge of passenger movements in order to provide **excellent service**.

Currently, operators are not able to re-schedule timetables to **real demands**. Therefore, Simpleway came with a solution, which can **track passengers' load** through the whole route in a specific time, helping operators to monitor and adapt to actual demands.

As a consequence, important **key performance indicators** for governments and transport authorities like passenger load and passenger-km could be determined. As a result of our solution, **the on-board comfort is enhanced, passenger exchange time is shortened, and operational reliabilities are improved.**

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