

# References

A number of business relations have already opted for DRIS, including:

## TramPlus Rotterdam

### **DRIS TramPlus**

TramPlus is an advanced tram connection in Rotterdam. Strukton Systems is responsible for designing, creating, operating and maintaining the dynamic passenger information system on different TramPlus routes.



## RandstadRail

### **Vehicle tracking system and system integration**

RandstadRail is the light-rail connection between Rotterdam and The Hague. Strukton Systems took care of designing and creating the vehicle tracking system. The various passenger information systems were also linked up successfully based on the VDV standard.

## Zuidtangent

### **Zuidtangent bus route**

The Zuidtangent bus route links Amsterdam, Schiphol Airport and Haarlem. Strukton Systems delivered the dynamic passenger information system and carries out maintenance and operation activities. The software recently underwent standardisation and 7&8 Trans Model Interfaces (TMIs) were implemented.

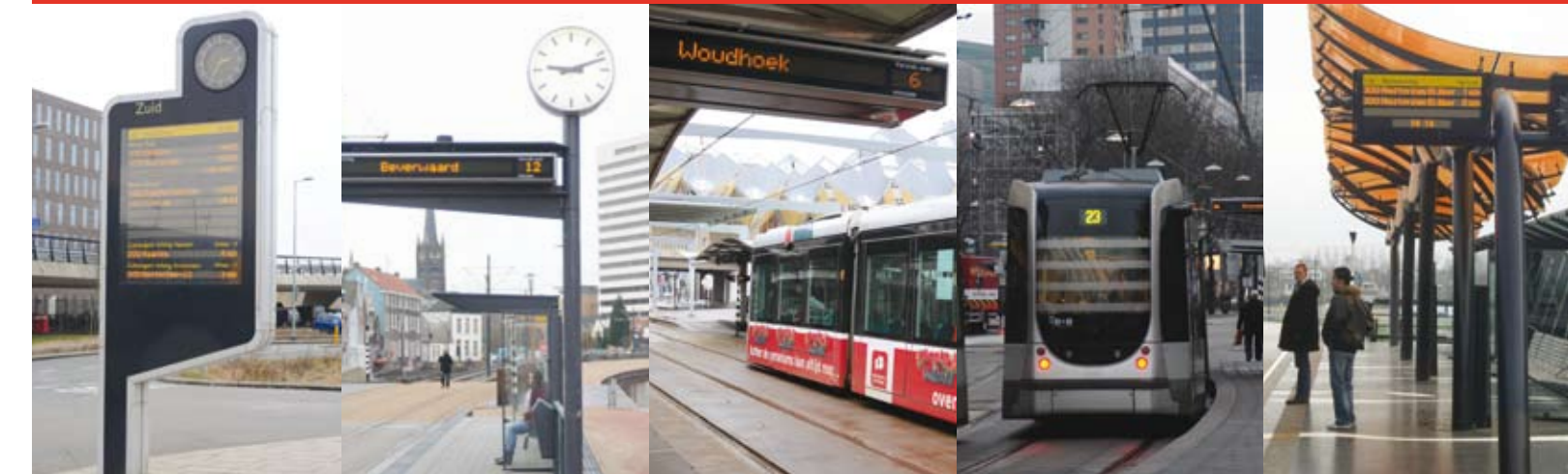


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“DRIS, knowing  
when you will leave”

Dynamic Passenger Information System



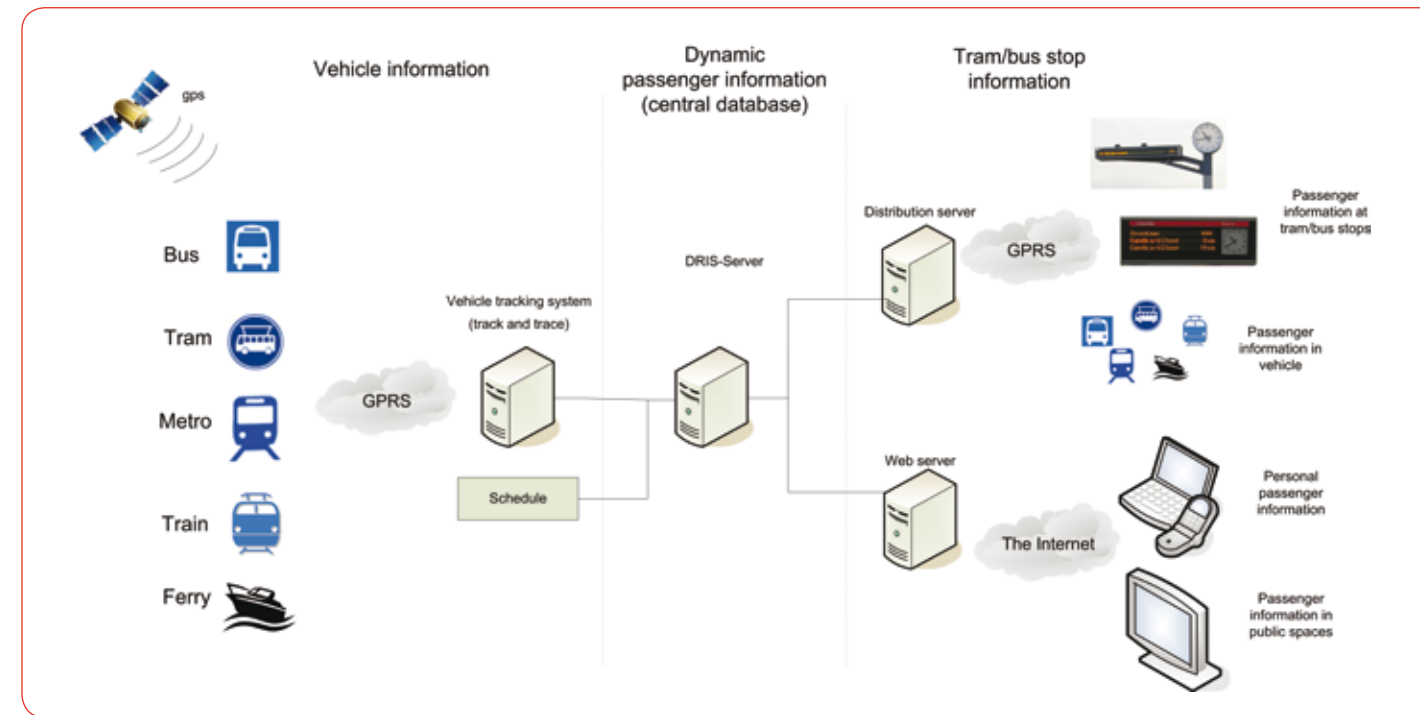
# DRIS

## Dynamic Passenger Information System

**Clarity. Security. Knowing when you will leave.**

The dynamic passenger information system (DRIS system) produced by Strukton Systems provides clarity; passengers know exactly when the next bus or tram will leave. Counting the minutes to departure provides a realistic and more tangible waiting experience.

To a large extent, increased certainty serves to enhance the perception of public transport quality. The illuminated news trailer functionality also informs the passenger about things like events, diversions or other special circumstances.



# The benefits of dynamic passenger information

In addition to offering obvious benefits to passengers, DRIS represents a giant step forward for transport companies and concession holders as well.

### Standardisation

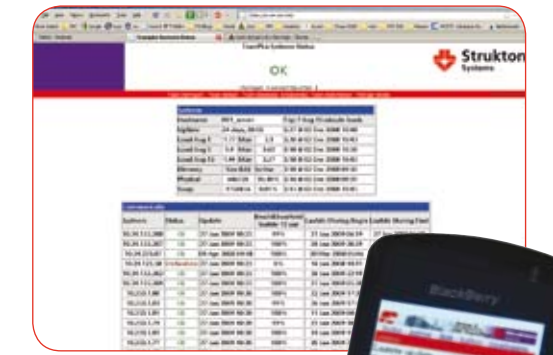
Strukton Systems develops the software for the different system components in house, while Strukton uses standardised interfaces (VDV, TMI) for the system setup. Other transport companies or new concession holders can then easily be linked up to the central system. What's more, standardisation offers opportunities for linking up various passenger information systems and for future innovations.

### Complete financing

Strukton Systems offers a comprehensive operating model, including complete project financing. This rules out heavy one-off purchasing costs that could place budgets under pressure, enabling settlement of a fixed monthly price for each tram/bus stop pole, spread across a number of years. If required, Strukton Systems can provide advice about narrow casting; advertising and offering all kinds of information to passengers.

### Maintenance and operation

State-of-the-art tools, such as real-time system monitoring, make it possible to resolve problems before they lead to discomfort to passengers.



# Integral package

Strukton Systems delivers a complete dynamic passenger information system, consisting of the following modules:

### Vehicle information

A small registration unit featuring a GPS antenna installed on board is used to locate the vehicle. Possibly combined with measurement figures from the odometer, this information is transmitted via GPRS to the central vehicle tracking system.

### Dynamic passenger information (central database)

Based on the actual position of the vehicles and in combination with the schedule, the central system calculates the expected departure times. A central server provides all the displays at the tram/bus stops with updated passenger information.

### Tram/bus stop information

Displays inform passengers at the tram/bus stops and in the vehicle about the actual departure times. Suitable displays can be chosen for all locations. Strukton offers a wide range of options including LED and LCD alternatives. Take the CO<sub>2</sub> neutral tram/bus stop pole featuring a 12" LCD display and solar collector, for example. This self-sufficient tram/bus stop pole can be placed almost anywhere. Additionally, passengers are informed via SMS and the Internet and on large displays in public areas (hospitals, libraries, town halls, etc.).

### Management information

The dynamic passenger information system is an ideal tool for analysing punctuality performance information. Various routes requiring more travelling time than planned or with vastly differing characters can be optimised based on further studies.



# Strukton Systems

## Experienced specialist

Strukton Systems is an experienced player in the market for dynamic passenger information systems. Over the past ten years, the company has earned its spurs in successfully completing challenging projects. Strukton Systems removes customers' concerns, providing an excellent product complete with hassle-free aftercare. This generates a high degree of customer satisfaction amongst existing business relations.



In more and more cities, local authorities are opting for a dynamic passenger information system.