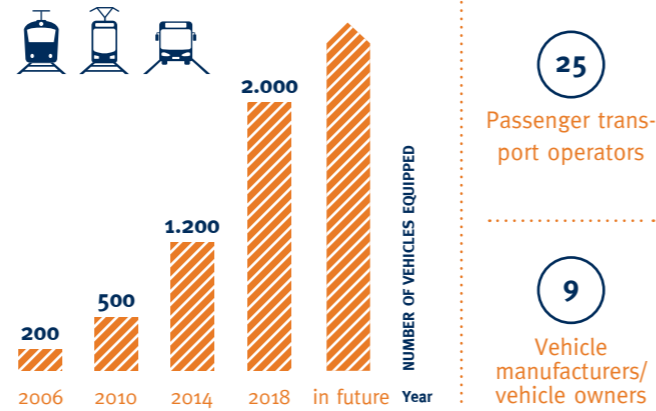**INTERAUTOMATION**

AS A SYSTEM PROVIDER AND INTEGRATOR FOR SOFTWARE AND HARDWARE PRODUCTS in passenger transport, we have been successful for almost 20 years. As one of the few providers, **INTERAUTOMATION** provides you from competent consultation in general over consultation and realization of the development of your own hardware and software, system engineering and project management, to commissioning and subsequent service, **ALL SERVICES FROM A SINGLE SOURCE.**

VERSATILE INTERFACES:

- Import: Planning and operational data -RailML V 2.x, VDV 452
- Import: Leidis – external distributor DB Netze
- Export/Import: EFZ Schedule from/to European Timetable Center
- Connection VDV 453 and 454 (passenger information) and DB RIS
- Export Service to asset management ZEDAS
- Vehicle link: Bombardier, Siemens, Stadler, ALSTOM, PESA

FUNCTIONAL VERSATILE:

- Fleet monitoring, punctuality analysis
- Dispatching measures and recording of disturbances
- Integration/Communication Train staff
- Passenger information and infotainment
- Passenger counting and online occupancy detection
- Evaluation, analysis, statistics

4. Juni 1982
Company foundation

Year 2000
Entry into the passenger transport market

Year	2006	2010	2014	2018	in future
NUMBER OF VEHICLES EQUIPPED	200	500	1.200	2.000	

25 Passenger transport operators

9 Vehicle manufacturers/ vehicle owners

OUR PERFORMANCE CAPABILITY – EXCERPT „LARGEST CUSTOMER PROJECTS"

HARDWARE PROJECTS:

6 model series | **86** trains | more than **3.350** components

1 model series | **51** trains | more than **3.150** components

SOFTWARE PROJECTS INLINEWEB AND INLINE-MOBILE:

6 transportation networks | more than **165** trains | more than **1.100** staff

5 transportation networks | more than **135** trains | more than **800** staff

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INTERAUTOMATION

ALL APPLICATIONS – ONE SYSTEM

OUR PRODUCTS MAKE PASSENGER TRANSPORT EVEN MORE ATTRACTIVE!

HOW?

WITH INLINEWEB FOR YOUR CONTROL CENTER!

WITH ONBOARD SOLUTIONS FOR YOUR VEHICLE!

WITH INLINE-MOBILE FOR YOUR STAFF!

WWW.INTERAUTOMATION.DE

Online with InLine

INLINEWEB | MONITORING, DISPATCHING, INFORMATION – EVERYTHING IN REAL TIME WITH INLINEWEB.

InLineWeb **RBL/ITCS** is the central data management software for every railway transport company. The modular structure enables you to meet your individual requirements, starting from punctuality analysis up to a complete connection to data hubs of passenger transport authorities, the EFZ[1] or LeiDis[2].

Multiple interfaces to upstream planning systems, to downstream reporting systems or to third-party vehicle systems make InLineWeb the central application for real time data in your transport company.

[1] European Timetable Center
[2] „Control system for network dispatching" of DB Netz AG

WE COUNT EVERYBODY – EVERYBODY IS COUNTED

APC | HIGHLY ACCURATE AND ALWAYS AVAILABLE – AUTOMATIC PASSENGER COUNTING AND OBJECT RECOGNITION FOR ONLINE PROCESSING OR STATISTICAL EVALUATIONS.

We are setting new benchmarks, both in classical automatic passenger counting (APC) and in real-time processing, such as online occupancy detection. Vehicle-side systems detect entering and exiting passengers as well as the occupation and send these datasets in real time to the shore-side background system InLineWeb. There they are processed and, for example, forwarded to authorities or displayed in customer apps and on the platform in real time.

Whether adults, children or bicycles, systems from INTERAUTOMATION can be applied in multiple ways.

- ┈▸ 99% Counting accuracy according to VDV 457 v2.1
- ┈▸ Categorization (Bicycles, baby carriages and more)
- ┈▸ Highly accurate online occupation
- ┈▸ Occupation forecasting
- ┈▸ Comparison counting based on videos

WE RECOGNIZE PASSENGER TRANSPORT

VIDEOANALYTICS | ARE YOU STILL ESTIMATING OR DO YOU ALREADY KNOW? – WITH REAL TIME VIDEO ANALYSIS, YOU CAN FINALLY ACT INSTEAD OF REACTING.

Our video algorithms enable you to analyze capacity utilization and passenger flows in real time. We determine the capacity utilization and distribution in real time at platforms or passenger transport stops as well as in (rail) vehicles.

With our Deep Learning Unit (DLU) for rolling stock, we have a powerful processor for AI applications at our disposal to „upgrade" your onboard systems.

- ┈▸ Occupancy determination and distribution
- ┈▸ Passenger flow analysis and prognosis
- ┈▸ Routing
- ┈▸ Operational optimization

EXACTLY THE INFORMATION YOU WANT

RTPI & INFOTAINMENT | YOUR PASSENGERS KNOW WHERE THEY WANT TO GO – WITH US THEY KNOW HOW. REAL TIME PASSENGER INFORMATION AND INFOTAINMENT TO INTERACT WITH YOUR CUSTOMERS.

Inform your passengers about the timetable, the route and possible connecting traffic. To provide specific information of the journey, the vehicle or the route to the passengers we are using screens in the vehicle or Wi-Fi to make them directly available on passengers mobile devices. Punctuality information, platform numbers and information on connections are updated and displayed in real time.

In addition, the Infotainment extension function allows you to provide your passengers with additional information, for example on events or future construction activities.

- ┈▸ Journey progress and punctuality
- ┈▸ Connection information in real time (incl. platform numbers)
- ┈▸ Infotainment for important information and advertisement
- ┈▸ For installed screens or integrated solutions via Wi-Fi

JUST KEEP YOUR TEAM EASILY INFORMED

INLINEMOBILE | INFORMATION IN FLOW – TRANSPARENT AND EFFICIENT. WITH INTERAUTOMATION'S MOBILE APPLICATIONS, BOTH ARE POSSIBLE.

A good passenger transport relies on communication and information. Our InLineMobile applications for train drivers and train attendents support you every day. With the „TA-App" for train attendents, your staff will be equipped with a mobile control center and can thus provide your passengers with the best possible information. With the „TD-App" (app for train drivers), train drivers benefit from the display of their own punctuality situation and can inform the control center about the reasons directly from the app in case of an emergency. By extending the „TD-App"(Driver-App) to the „DAS-App" with the function „Driver Assistance System", additional driving recommendations for a punctual and energy-saving driving style can be displayed.

- ┈▸ Passenger information with real time data
- ┈▸ Digital connection requests to the control center
- ┈▸ Error reports and documentation
- ┈▸ Travel time and punctuality analysis
- ┈▸ Recording of meter counts in the vehicle
- ┈▸ Increasing punctuality
- ┈▸ Up to 10% energy savings