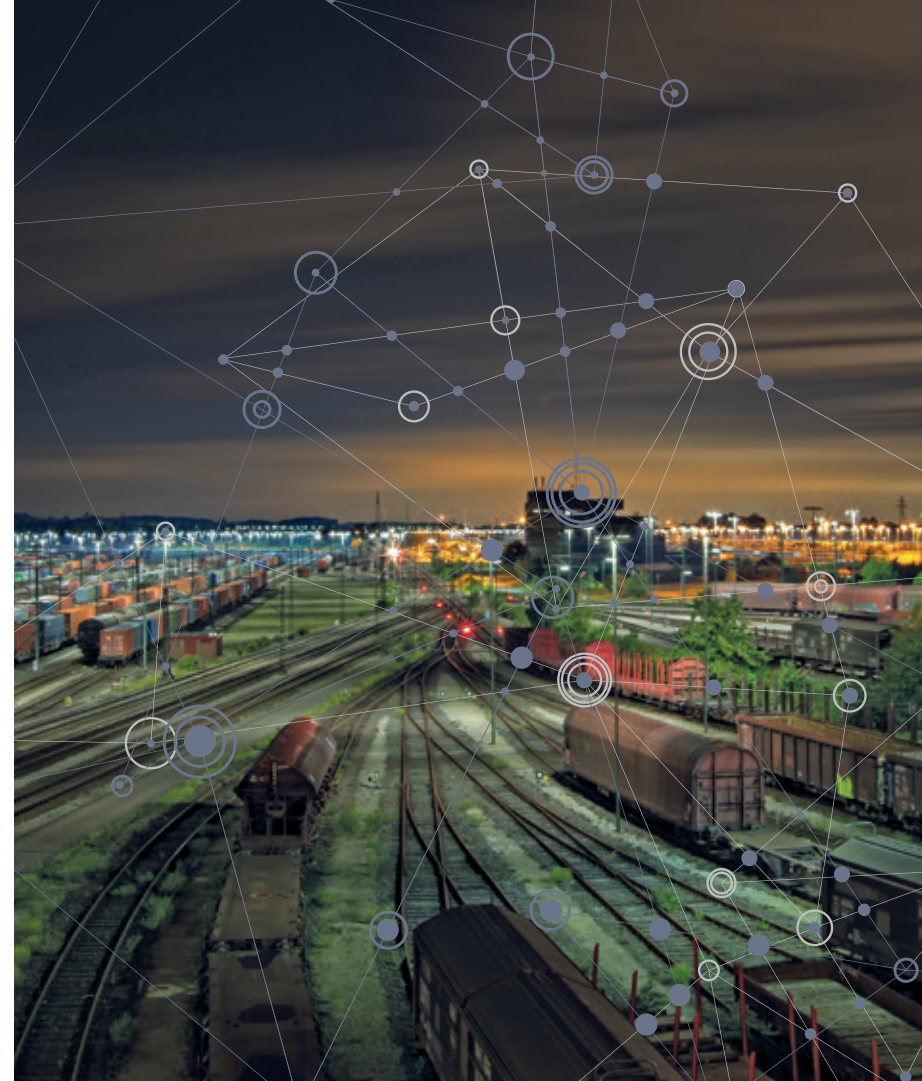


Railway traffic Digitization

trenpex` aim is to digitize rail freight logistics. By providing precise information processes can be improved, the efficiency of logistics increased and significant cost savings realized along the entire value chain.

trenpex is a system that collects data autonomously at the sites, evaluates it centrally and makes the insights globally available to the user and for further use in downstream systems.



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trenpex
digital railway services

Capture, detection and documentation

- The traffic on the monitored track is recorded completely and without gaps and documented with high-resolution images from different views
- Vehicle numbers, container numbers, hazardous goods labels etc. are recognized via a proprietary AI-controlled OCR engine. Damaged EVNs are corrected in a downstream process
- Thanks to the high-resolution images, even detailed damage is documented and can be located in terms of time and assigned to the originator of the damage
- The hardware on site works completely autonomously and without an operator. The provision of additional hardware or equipment by the customer is not necessary
- The slim system at the track has a minimal physical footprint and can also be installed between adjacent tracks

Processes automation

By linking the information to planning data and by integrating data from existing systems, processes can be automated:

- By integrating weighing data, inbound and outbound traffic is completely weighed. The need for train announcements and the creation of weighing orders is eliminated
- Identification and positioning of wagons and containers at train entry forms the basis for automated unloading processes
- The comparison of incoming and outgoing traffic allows for the automatic determination of standing times

Central data processing and provision of information

- All data is processed centrally and made available to the user via a web portal for direct access. The data is available on any web-enabled device, regardless of location
- The trenpex platform offers numerous reporting functions: Inbound/outbound lists for vehicles and containers, event logs, weighing logs by vehicle type, damage reports according to AVV etc. All reports can be shared paperless even with users without trenpex access
- All information is available at a REST-API for import and further processing in downstream systems
- Data management eliminates the need for users to back up and archive data, system updates and scale storage space and processing power
- The integration of data from all measuring points enables further evaluations: Movement profiles, statistics, history of vehicles and containers across measuring points etc.
- The extension of additional measuring points takes place without integration effort and risk

