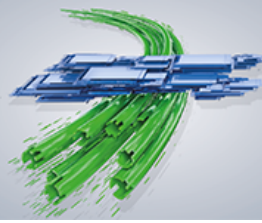




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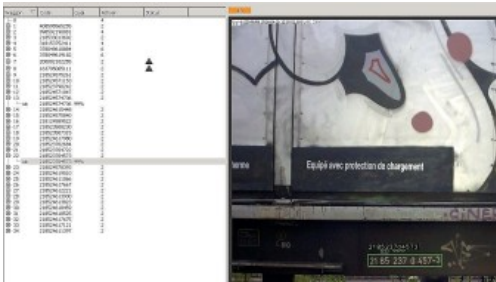


**INNOVATIONS
AND TRENDS**

NUMBERCheck digitizes transport data



NUMBERCheck sensor pillar



NUMBERCheck database

ASE GmbH has developed an OCR gate in which trains and trucks are scanned with high-resolution video cameras as they pass through. Wagon, container and hazardous goods numbers, and much more are recorded fully automatically, processed in real time using an intelligent OCR algorithm and integrated into the end customers' operating systems via interfaces. Railway operators thus optimise their logistical processes. Wheel sensors in the track trigger the system and count the axes. An integrated microcontroller calculates the wagon separations and thus the number of wagons. Further, optical data are converted into alphanumeric characters, while plausibility checks ensure high recognition accuracy. All recorded characteristics are available in a database. NUMBERCheck is another milestone in the digitization of the logistics chain and a secure TAF TSI system.

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Subject to further change