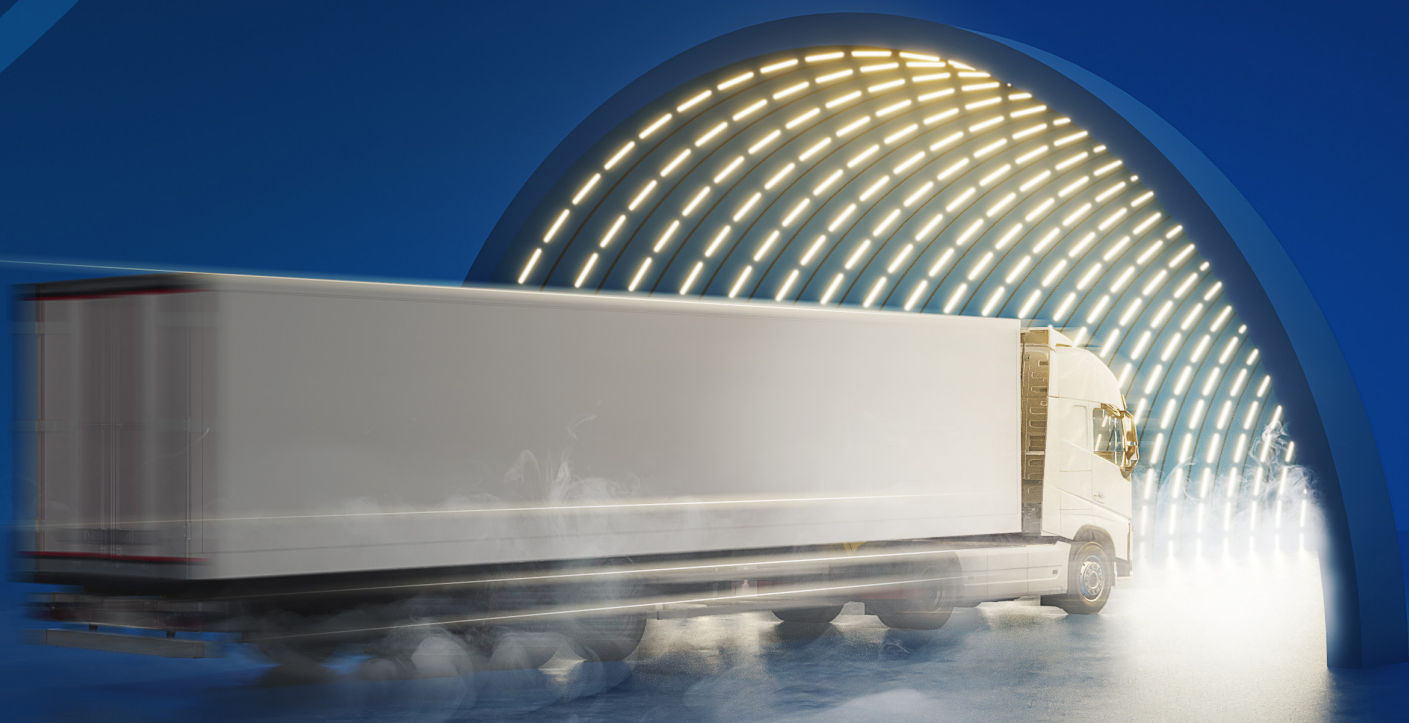


POWERING TOWARDS **A DIGITAL FUTURE**

Goodyear joins forces with ZF to provide
one-stop tyre and fleet management support.



[GOODYEAR.EU/TRUCK](https://www.goodyear.eu/truck)

GOODYEAR

ROAD TRANSPORT FLEETS ARE FIGHTING ON ALL FRONTS

Fleet managers and owners are now under greater pressure than ever, facing a number of different challenges.

Operational inefficiencies: wasted time locating assets, non-optimised loads and routing, unplanned downtime and maintenance, inefficient driving behaviours, administrative work

Safety issues: road incidents and accidents, infrastructure and vehicle damage, injuries and casualties

Reduced margins: high total cost of ownership (vehicles, fuel, maintenance), breakdown costs, late delivery penalties, cost of meeting customer requirements and legal standards.

Constantly evolving regulations: CO² emissions reduction and compliance with the EU Global Safety Regulation.

Increased competition: constant need to differentiate from competitors.

Operational complexity: multiple suppliers, multiple management systems and platforms.

THE ANSWER IS IN THE DATA

Throughout the business world, companies and customers are all talking about digital transformation as an answer to our most pressing problems. By harnessing data and digital technology, fleets can become:

LEANER

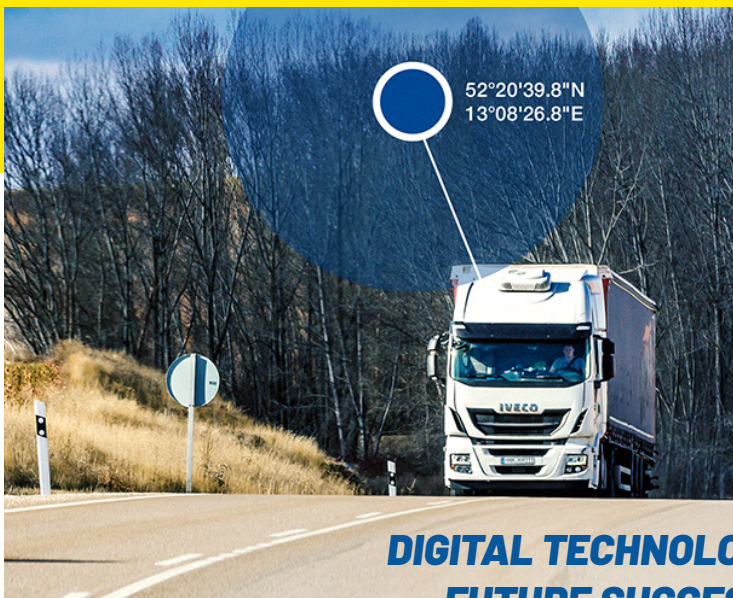
Using data and technology to reduce costs, improve customer service, reduce late delivery penalties.

GREENER

Using data to prove sustainability to customers and show compliance with evolving legislation.

SAFER

Using data and technology to reduce incidents and downtime and to improve driver well-being. Leading to more efficient operations and the ability to recruit and maintain the best people who will drive us to even more success.



**DIGITAL TECHNOLOGY HOLDS THE KEY TO
FUTURE SUCCESS. WE ALL KNOW IT IS
WAITING FOR US, BUT HOW DO WE GET THERE?**





**GET THERE FASTER
WITH GOODYEAR
AND ZF**

ZF and Goodyear have a long and proud history in truck fleet management. And now we're joining forces to ensure there is an exciting, efficient and positive future ahead.

By pooling our expertise and investment in data-driven technology, Goodyear and ZF are offering transportation companies a custom, one-stop solution for more efficient and sustainable operations - combining Goodyear's tyres, services and TPMS technology with ZF's industry-leading Transics brand.

As two of the industry's leading brands, we are not only bringing you a comprehensive, integrated solution, with reduced hardware investment, to simplify operations today, but we are also providing a smooth, coherent path to an efficient, data-driven future.



THE PRODUCTS BEHIND THE REVOLUTION

WHAT DOES THE DIGITAL FUTURE LOOK LIKE?

Together, Goodyear and ZF's Transics technology make up a complete, one-stop-shop solution, comprising:

PREMIUM TYRES AND MARKET-LEADING TYRE MANAGEMENT SERVICES

PREDICTIVE TYRE PRESSURE AND TEMPERATURE MONITORING SOLUTIONS

BACK-OFFICE PLATFORM FOR FLEET MANAGEMENT

BACK-OFFICE PLATFORM FOR TRAILER HEALTH MONITORING

By connecting multiple data streams through common telematics hardware and bringing best of breed products and services together in a single vision, we provide a clear way forward.



PREMIUM TYRES AND MARKET-LEADING TYRE MANAGEMENT SERVICES

Whether your fleet uses highways or regional roads, in good weather or bad, Goodyear has tyres that meet your needs. Supported by a pan-European service network, which offers a variety of tyre-related services from roadside recovery to retreading and regrooving, our tyres deliver the best possible combination of fuel efficiency, mileage and all-weather grip to meet your needs.



PREDICTIVE TYRE PRESSURE AND TEMPERATURE MONITORING SOLUTIONS



WHAT DOES IT DO?

Monitors tyre pressure and temperature



HOW DOES IT HELP?

By ensuring correct inflation, it optimises fuel efficiency and tyre wear. Under-inflation by just 1 bar can increase annual costs by 900€ per vehicle*.

1. DATA RETRIEVAL

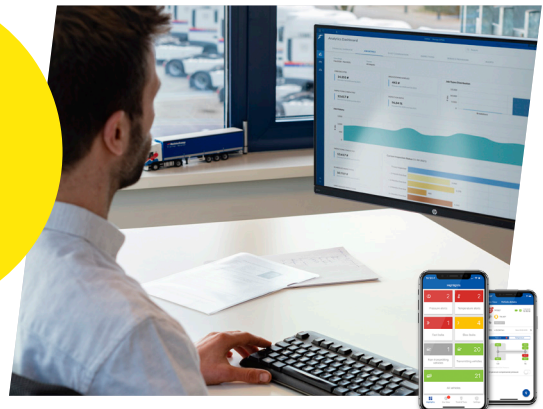
On-rim sensors constantly measure the pressure and the temperature inside of the tyres and transfer the data to the Goodyear cloud via ZF's **Transics TX-TRAILERPULSE** telematics device.



G-PREDICT TECHNOLOGY

2. DATA ANALYSIS

The raw data is analysed by Goodyear's powerful **G-Predict technology**, a suite of predictive algorithms that will transform it into actionable and prescriptive data.



3. ALERTS AND UP-TO-THE MINUTE INFORMATION

Fleet managers receive alerts and reports via easy-to-use mobile and web applications that they can directly act upon before an incident happens.

* based on following assumptions: 150.000 km/year; 35l/100km average fuel consumption; 1 bar less inflation pressure = 5% increased rolling resistance = 1,5% higher fuel consumption; Diesel costs 1,15€/l



COMPREHENSIVE FLEET BACK-OFFICE SOLUTION

WHAT DOES IT DO?

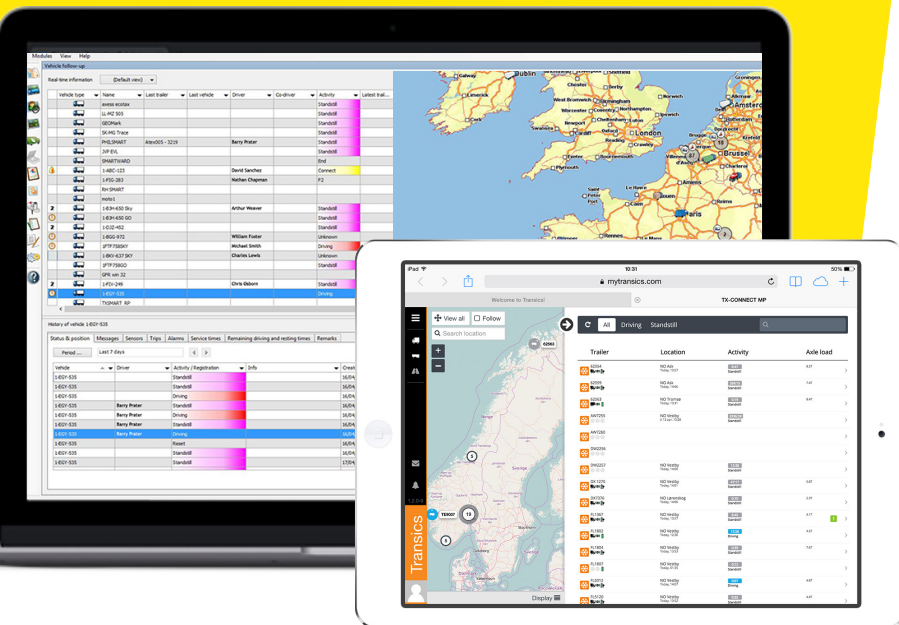


Manages and displays real-time information from trucks, drivers, trailers and business partners to fleet managers and dispatchers.

HOW DOES IT HELP?



Enables more efficient route planning, better driver safety, and better customer services.



Vehicle track & tracing



Visualise historical routes



Circular & polygon GeoFencing



Activity management



Operational EBS overview



Follow-up cargo temperature reefer status and performance



Door status and control



Anomaly-based management



Reporting tool



Data integration services

- Back-office software **application**
- **Follow-up & manage** trucks, trailers, LCVs, drivers, cargo and order
- **Used daily** by dispatchers and fleet managers
- **ZF'S TRANSICS TX-CONNECT MP** as mobile spin-off version

ZF's TRANSICS TX-TRAILERFIT

BACK-OFFICE PLATFORM FOR TRAILER HEALTH MONITORING



Diagnostics read-outs with error codes/alerts



Trailer health score



Location (satellite view)



Locate closest service partner



General technical information



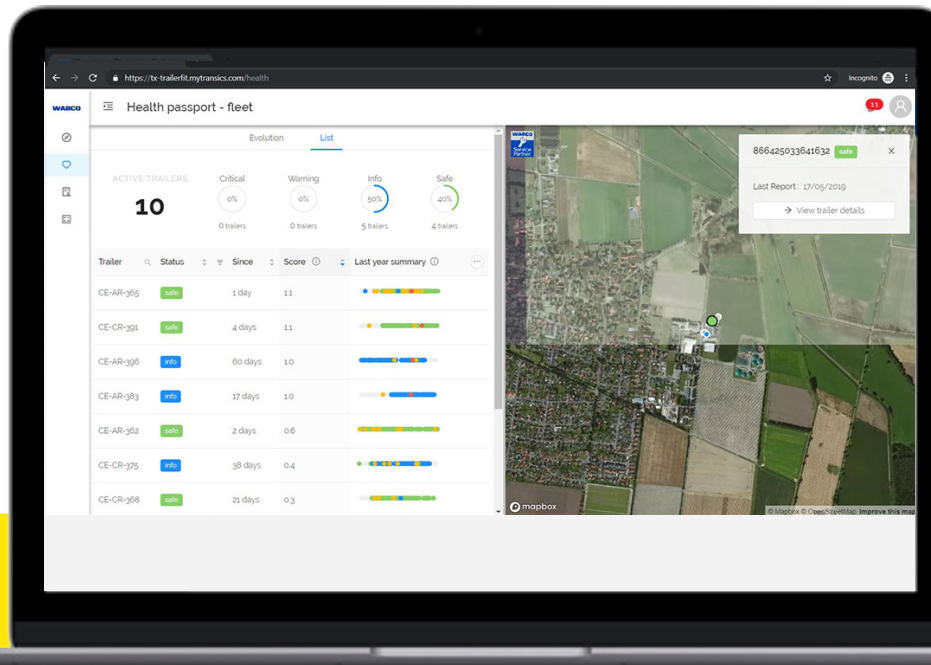
Detailed ODR-dashboard



Share screens with other parties



Import files from non-connected trailers



WHAT DOES IT DO?

Records data from trailer EBS system to provide insights into the technical performance and health of trailers



HOW DOES IT HELP?

Minimises vehicle downtime, optimises maintenance, makes regulatory compliance easier



- Web-based software **application**
- **Remote** technical health follow-up & assessment
- **Used** by vehicle maintenance departments
- Improve trailer **performance, maintenance & uptime** management



MULTIPLE SOLUTIONS. ONE TELEMATICS DEVICE. ONE ROADMAP TO A DIGITAL FUTURE

The great advantage of the collaboration between Goodyear and ZF is that you don't need to worry about multiple suppliers or incompatible technologies. At the heart of all our solutions is the ZF's Transics TX-TRAILERPULSE: it is a single, central telematics device that controls, channels and processes all data – reducing your hardware investment and simplifying installation.



By building a comprehensive digital solution around a common architecture, Goodyear and ZF are providing truck fleet customers with a coherent, future-proofed solution. With components that are fully interoperable, easy to install, and supported by an extensive, established European service network, you have peace of mind that **you are on a fast track to a leaner, greener, safer digital future.**

ABOUT GOODYEAR AND ZF

GOODYEAR

Goodyear is one of the world's leading tyre companies, with operations in most regions of the world. Together with its subsidiaries and joint ventures, Goodyear develops, markets and sells tyres for most applications.

Goodyear employs approximately 63,000 people.

Goodyear has 2 innovation centers: one based in Akron (USA) and one based in Europe with offices in Colmar-Berg (Luxembourg) and Hanau (Germany). Goodyear also operates 4 test tracks worldwide.

Innovation lies at the very core of what Goodyear does. It has been an integral part of Goodyear's day-to-day business for over one hundred and twenty years. Goodyear is committed to delivering innovative products and solutions that help change the world of transport and drive a sustainable future for the automotive industry.

ZF

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility.

ZF, which acquired WABCO Holdings Inc. on May 29th, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2020, ZF's Commercial Vehicle Business accounted for 15% of its overall sales and employed 30,000 employees in 61 sites and 28 countries.

ZF's leading aftermarket and fleet solutions portfolio is built on its strong brands: Lemförder, Sachs, TRW, WABCO and Transics. A broad product and service offering, advanced connectivity solutions for digital mobility management and a global service network, support and enhance the performance and efficiency of all vehicle types throughout their life cycle.



LET'S TALK ABOUT **THE FUTURE**

The journey towards digital transformation is an exciting one and we want to share it with you, not only by providing products and services, but also by listening to your needs and learning what matters most to you.



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GOODYEAR