



## Goodyear Proactive Solutions

### Fact Sheet

Goodyear Proactive Solutions is a full suite of data-based solutions, featuring advanced telematics and patented predictive analytics technology, able to provide commercial fleets with precise, real-time monitoring of tyres.

Goodyear Proactive Solutions features G-Predict technology, a series of intelligent predictive algorithms, developed by a team of Goodyear engineers to flag any potential issues. Combined with a wealth of data derived from Goodyear's extensive commercial tyre and service business, and clear, accurate reporting, these can help fleet operators to precisely identify and resolve tyre-related issues before they happen.

The main benefits of Goodyear Proactive Solutions are minimised downtime, increased tyre mileage and retreadability, safety monitoring and improved fuel savings. Thanks to targeted maintenance reports, proactive maintenance can be planned, saving time and cost. Maintaining correct tyre inflation pressures and tread depths are vital for road safety. Goodyear Proactive Solutions can contribute to quickly identifying any issues related to these. This enables measures to be taken to avoid breakdowns or other incidents.

Goodyear Proactive Solutions is part of Goodyear's pan-European offer available to commercial fleets. In combination with premium tyres and dedicated tyre-related services, Goodyear Proactive Solutions help fleets further reduce their total cost of ownership and increase efficiency and performance of their vehicles.

Currently Goodyear Proactive Solutions comprises the following for commercial fleets:

- Goodyear TPMS (Tyre Pressure Monitoring System) – for trucks, coaches and buses
- Goodyear TPMS Heavy Duty – for off-the-road vehicles
- Goodyear Drive-Over-Reader – for trucks, coaches and buses

### Goodyear TPMS (Tyre Pressure Monitoring System)

Goodyear TPMS provides constant real-time monitoring of tyre pressures and temperatures in order to reduce breakdowns and optimise tyre life, fuel economy and operational costs.

This critical data enables immediate action to be taken to avoid downtime and damage. TPMS sensors are mounted on the wheel rims and constantly monitor tyre pressures and temperatures and transmit this information via on-board telematics to a Goodyear cloud. Here the data is analysed and operators are notified of potential issues before they become critical. Thanks to



Goodyear G-Predict Technology, the data allows tyre life to be predicted and maintenance proactively planned with minimal impact on operations.

A further benefit of Goodyear TPMS is Track & Trace. This is a built-in GPS function allowing fleet managers to locate their vehicles in real time as well as to prevent unauthorised movement or theft and to know when deliveries are made.

### **Benefits of Goodyear TPMS**

Goodyear TPMS can help fleets maintain correct tyre inflation pressures and temperatures and consequently give them access to the following benefits:

- Reduced vehicle downtime (up to 85% fewer tyre-related incidents<sup>1</sup>)
- Reduced breakdown costs and increased rate of on-time deliveries
- Reduced fuel consumption and CO2 emissions due to avoiding under inflated tyres
- Extended tyre life
- Enhanced safety monitoring
- Optimised tyre maintenance costs
- Geolocation of vehicles throughout Europe using GPS technology and allowing stolen vehicles to be traced and recovered
- Monitoring of vehicle movements and delivery times
- Organization of proactive maintenance remotely using local Goodyear service providers.

### **How Goodyear TPMS works**

- After measuring the relevant tyre data, Goodyear TPMS continuously transmits this information to the Goodyear cloud via the mobile network. This data is then analysed using Goodyear algorithms featuring G-Predict technology and translated into daily reports emailed to the fleet manager.
- In the event of irregularities, alerts are emailed from the server to the fleet manager and/or via an app in real time using a graphic showing which tyre is affected and the degree of urgency. A dedicated app is also available for drivers to inform them of irregularities on their vehicle in real time.

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<sup>1</sup> Benefit verified through all Goodyear Proactive Solutions customers base in real road conditions in the period from January 1, 2017 to December 31, 2017. Benefit can only be achieved by consistently following up on pressure and temperature alerts and reports. Actual results may vary depending on conditions of utilisation of the tyres, how often the tyres are replaced, driving and road conditions and proper tyre maintenance. Find out more at [proactive.goodyear.com](http://proactive.goodyear.com).



## **Goodyear TPMS Heavy Duty**

Goodyear TPMS Heavy Duty is specially developed to withstand the tough operating conditions off-the-road machines endure. Special TPMS sensors are attached to the tyre and transmit pressure- and temperature-related information to a Goodyear server via on-board telematics. Goodyear TPMS Heavy Duty includes the Track & Trace function; a built-in GPS function allowing fleet managers to locate their vehicles in real time as well as to prevent unauthorised movement or theft.

### **Benefits of Goodyear TPMS Heavy Duty**

Goodyear TPMS Heavy Duty can help fleets maintain correct tyre inflation pressures and temperatures and consequently give them access to the following benefits:

- Reduced machine downtime (up to 85% fewer tyre-related incidents<sup>2</sup>)
- Reduced breakdown costs and increased working hours
- Extended tyre life
- Reduced fuel consumption and CO2 emissions due to avoiding underinflated tyres
- Enhanced safety monitoring
- Optimised tyre maintenance costs
- Geolocation of vehicles using GPS technology
- Organisation of proactive maintenance remotely using local service providers.

### **How Goodyear TPMS Heavy Duty works**

After measuring the relevant tyre data, Goodyear TPMS Heavy Duty continuously transmits this information to the Goodyear cloud via the mobile network. This data is then analysed using Goodyear algorithms featuring G-Predict technology, and translated into daily reports that are emailed to the fleet manager.

In the event of irregularities, alerts are sent from the server to the fleet manager via email and/or via an app in real time using a graphic showing which tyre is affected and the degree of urgency. A dedicated app is available for drivers to inform them of any irregularities in real time.

### **Goodyear Drive-Over-Reader**

The Goodyear Drive-Over-Reader automatically measures tyre tread depth, pressure and axle load in just a few seconds whenever a vehicle drives over it. This state-of-the art tyre monitoring

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<sup>2</sup> Benefit verified through a real-condition test conducted in 2017. Benefit can only be achieved by consistently following up on pressure and temperature alerts and reports. Actual results may vary depending on utilisation conditions of the tyres, how often the tyres are replaced, driving conditions and proper tyre maintenance. Find out more at [proactive.goodyear.com](http://proactive.goodyear.com).



technology helps fleet managers optimise the efficiency of their vehicles by real-time tyre management and allows them to proactively plan tyre maintenance.

The Goodyear Drive-Over-Reader is the result of over 10 years' experience and know-how from the German company VENTECH Systems, a leader in automated tyre inspection technology, which was recently acquired by Goodyear to offer further technologically advanced solutions.

### **Benefits of Goodyear Drive-Over-Reader**

The Goodyear Drive-Over-Reader measures tyre pressures, tread depths and axle loads which can provide the following benefits:

- Vehicle recognition (license plate reading)
- Reduced tyre-related breakdowns and incidents and reduced tyre-related downtime
- Enhanced safety monitoring
- Reduced fuel consumption due to avoiding under-inflated tires
- Monitoring of vehicle overloading
- Extended tyre life and improved tyre and vehicle performance
- Automatic collection of tyre tread depths and pressures to better manage tyre maintenance.

### **How Goodyear Drive-Over-Reader works**

The Goodyear Drive-Over-Reader consists of a hi-tech ground-based plate equipped with special sensors. The vehicle is driven over the Drive-Over-Reader and the sensors measure tread depth and tyre pressure for each tyre as well as the load of each axle. It can also identify variations of tread depth that can shorten tyre life. This data is analysed by specialised algorithms and a comprehensive report is generated providing critical input and potential warnings on insufficient tread depth, incorrect tyre pressure or overloading. The report is automatically sent to the responsible person (fleet manager, service technician, driver). This allows maintenance to be programmed (including regrooving, retreading or replacement) to ensure optimised tyre mileage and fuel efficiency as well as correct vehicle loading.

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