**Fact Sheet Goodyear Proactive Solutions**

Goodyear Proactive Solutions is a new, pan-European business for Goodyear comprising a suite of proven Vehicle-To-Fleet operations management solutions, featuring advanced telematics and predictive analytics technology.

It uses telemetry, transmitting information from a vehicle to a central server. An algorithm, specially developed by Goodyear and capable of predicting tire life, analyzes the information. The results are transmitted to the fleet or Goodyear (depending on the level of service required) to enable necessary action to be taken e.g. maintenance.

Currently Goodyear Proactive Solutions comprises two families, each with two options –

**Proactive Tire**

* Tire Pressure Monitoring System (TPMS) – this constantly takes active readings of tire pressures and temperatures in order to reduce breakdowns and optimize uptime and cost of operations
* Drive-over-Reader – this automatically collects tire tread depths and pressures whenever a vehicle accesses or exits a depot to better manage tires and related maintenance

**Proactive Fleet**

* Driver behavior – transmits data on the driver’s performance enabling fleets to take active control on driving style in order to improve fuel economy and increase tire life through driver training programs
* Track and Trace – uses GPS to provide fleets with real time asset location and movement information to improve efficiency and customer services as well as locate stolen vehicles

**Benefits**

**Tire Pressure Monitoring System** (TPMS)

* Reduces the number of tire-related breakdowns and incidents
* Reduces fuel consumption due to under inflated tires
* Reduces time lost due to incident-related fleet immobilization
* Extends tire life
* Can reduce tire-related breakdown repairs by 75%[[1]](#footnote-1)

**Drive-over-Reader** (DoR)

* Provides automatic diagnosis of tire-related problems
* Reduces the number of tire-related breakdowns and incidents
* Reduces fuel consumption due to under-inflated tires
* Reduces time lost due to incident-related fleet immobilization
* Extends tire life
* Automatically collects tire tread depths and pressures to better manage tires and related maintenance and reporting
* Gives the ability to predict tire life and thus implement proactive tire management maintenance planning
* Avoids up to 60% of breakdown repairs thanks to the predictive and alert systems[[2]](#footnote-2)

**Driver Behavior**

* Continuously collects data on 12 driving parameters
* Produces personalized driving reports for each driver
* Allows training for each driver to be personalized to improve performance and safer driving
* Helps fleets take active control on driving style to improve fuel economy and increase tire life through driver training programs
* Save up to €300 in fuel per month / per truck[[3]](#footnote-3)

**Track and Trace**

* Geolocates vehicles throughout Europe using GPS technology
* Allows the management of vehicle flows at all times
* Informs clients in real time of itineraries and delivery times
* Allows the organization of maintenance remotely using available technical services near to a vehicle’s location
* Allows stolen vehicles to be traced and recovered
* Avoids penalties for late delivery

**Tire Pressure Monitoring System (TPMS) function**

TPMS comprises a RFID (Radio Frequency IDentity) sensor fitted to each wheel. These measure the inflation pressures and temperatures of each tire. This data is received by the telematics box from where it is transmitted to the Goodyear server for analysis. Wrongly inflated and/or overheated tires are identified and the necessary preventative actions can be taken almost immediately.

**Drive-over-Reader (DoR) function**

DoR comprises a pad equipped with special sensors that is placed on the ground. The vehicle is driven over the DoR and the sensors measure both tread depth and tire pressure for each tire on the vehicle. This information is transmitted to the Goodyear server where the algorithm produces a comprehensive report. This warns of any immediate issues such as a tire with insufficient tread depth or with low pressure. The algorithm uniquely also calculates the remaining mileage for each tire. This allows maintenance to be programed to ensure maximum tire usage. This includes scheduling regrooving, retreading or replacement.

1. Benefit verified through experiment with 1 fleet of 120 vehicles between 2015 and 2016. Benefits can only be experienced by using proactive maintenance based on alerts and reports. Real results can vary depending on tarmac conditions, how often tires are replaced, driving and road conditions and tire maintenance. [↑](#footnote-ref-1)
2. Benefit verified through experiment with 1 fleet of 120 vehicles between 2015 and 2016. Benefits can only be experienced by using proactive maintenance based on alerts and reports. The vehicle must pass over the system frequently. Results can depend on several conditions such as driving style, vehicle purpose, driving and road conditions, tarmac conditions and proper tire maintenance. [↑](#footnote-ref-2)
3. for a vehicle travelling 6,200 miles per month = 10% less fuel consumption. Based on the following hypotheses: a) Average travel of 6,200 miles per month, b) Average fuel consumption of 30 litres per 62 miles, c) Fuel price of €1 per litre excl. VAT, d) Average fuel consumption savings up to 10%. Results can depend on several conditions such as driving style, vehicle purpose, driving and road conditions, tarmac conditions and proper tire maintenance. [↑](#footnote-ref-3)