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The Role of Public Transport in Solving the Climate Crisis

It is no secret that the transport industry is one of the largest emitters of greenhouse gas emissions. Many of the discussions around reducing the environmental impact of transportation revolve around the electrification of vehicles, which is certainly both a necessity and a priority.

However, to meet climate goals, the approach needs to be two-pronged: we must transition to EVs, while also reducing the number of cars on our roads by incentivising the use of public transport services.

One of the main reasons people cite when explaining why they choose to use their own vehicles over bus services is that they deem the service unreliable. The mentality of "if the bus comes late, next time I'll use my car" has fuelled today's car addiction and is a challenge for operators to overcome.

Thankfully, technology has made immense leaps in recent years, and can now offer transport operators with the visibility and the predictive insights they need to guarantee a reliable service to passengers. With AI-powered predictive maintenance, operators can identify faults before they cause a breakdown, use real-time data on the wear and tear of parts to optimise operational efficiency, and provide a maximised service that removes unplanned downtime from the equation. This would give passengers the certainty that, when they get the bus, the vehicle will reliably transport them to their destination without disruptions.

In terms of EV transition, predictive maintenance can also be leveraged to accelerate the achievement of cost neutrality. EVs are, on average, 50% more expensive than a traditional internal combustion engine bus. This means that transport operators need to keep their electric buses on the road for more time and for longer distances in order to make a return on investment. With predictive maintenance, operators can maximise vehicle availability and keep their vehicles on the road where they should be, serving passengers.

The guaranteed reliability of transport services can create a virtuous cycle: the more people trust public transport, the fewer cars we'll have on our roads, and the better the air quality will be. On top of this cascade of socio-environmental benefits, transport operators who adopt a predictive approach to maintenance will be saving costs and increasing their revenue thanks to boosted ridership numbers – everyone wins.
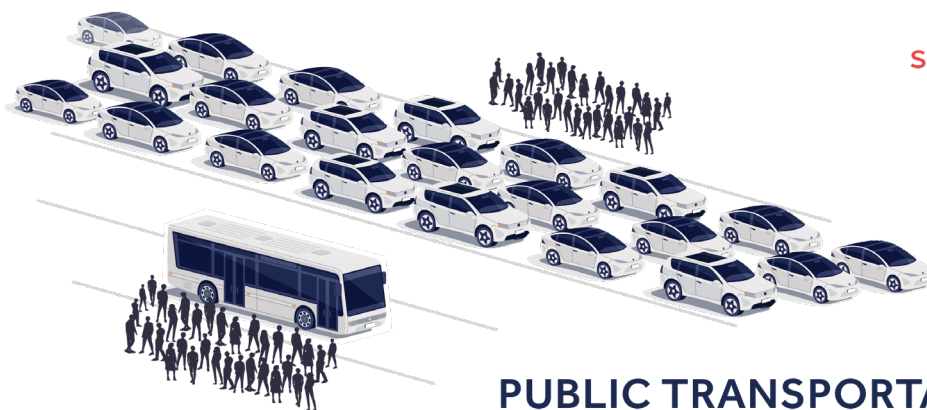
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PUBLIC TRANSPORTATION MAKES THE DIFFERENCE

Stratio Extends Interoperability of Its Predictive Maintenance Solution for Public Transport with ITxPT TiGR Industry Standard Certification

The Stratio Platform for Public Transport is now certified by ITxPT as compliant to the Telediagnostic for Intelligent Garage in Real-time protocol standards (TiGR).
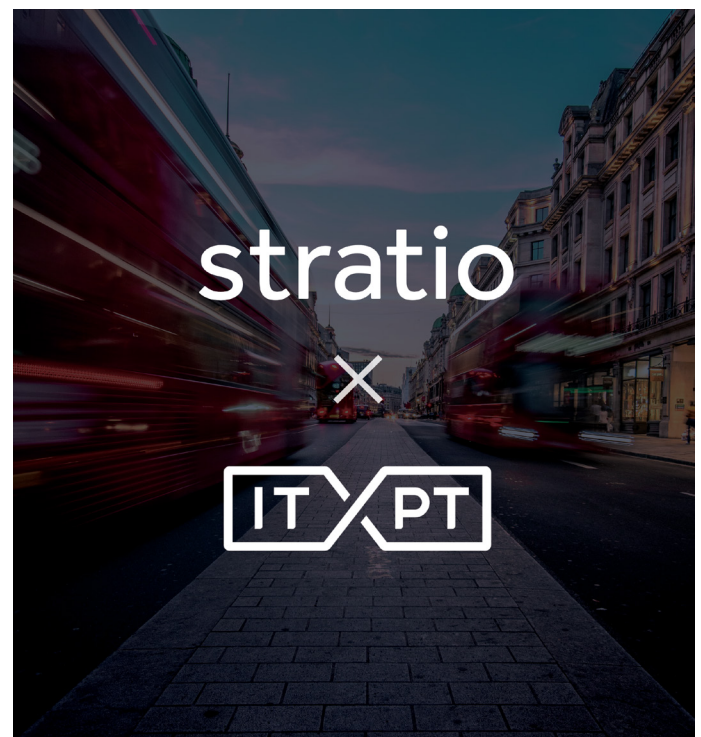
The TiGR standardised protocol allows public transport operators to both import external data into the Stratio Platform, as well as to export Stratio's vehicle technical data and diagnostic insights into other back-office systems. This facilitates the interoperability of the platform, enabling a fully integrated ecosystem that facilitates seamless maintenance operations, stock management and reporting.

"We are excited to be able to offer a TiGR-certified solution," said Ricardo Margalho, Co-founder and CEO of Stratio. *"Stratio's main objective is to simplify the lives of transport operators, optimise operational efficiency and give service teams a unified view of the state of their vehicles. For this reason, a fully interoperable interface is a key added value for our product, which allows us to work closely with operators and partners to extend the amount of data being shared between different systems and tools,"* he explained.

"Our solution allows for real-time visibility and maintenance monitoring across multi-brand fleets, and we already provide access to our information through our extensive API," said Nuno Mendes, Head of Product Management at Stratio. *"The TiGR standardised open interface offers our clients an additional alternative to the traditional 'silo' approach of some legacy systems and tools, enabling quick, successful integrations that meet public transport industry standards,"* he added.

The Keolis Group will be the first Stratio customer to take advantage of the recently certified TiGR protocol, with plans for deployment across the company's electric bus fleet in Blois, France.

DRIVING A ZERO DOWNTIME FUTURE

⚠ Brake Pads **Replace**

⚠ Starter Battery **Replace**

COLLECTING DATA → **PROCESSING DATA** → **GENERATED ALERTS** → **MAINTENANCE** → **BACK TO THE ROAD**

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