

At a glance

We love the railroad. That is why we are rendering freight transport on rail safer. By means of predictive maintenance. The resulting safety protects people and the environment from damage. It is also economical: because it means that vehicles may be used for longer and their operators save on maintenance costs.

We have developed several certified measuring systems that we install along and in tracks. Four square meters of space supplied with electricity, that's all we need for our cabinet, which we call "Pulsar". Built into it: highly sensitive sensors and cameras that scan freight wagons, passenger carriages, motor units and locomotives completely as they pass through. The "Pulsar" detects wear and tear at any speed, unwanted abrasion (so-called: flat spots), locked brakes, cracked springs, hollow profile runs, weight excess and a lot more.

All information gathered is bundled in a cloud within the EU and checked by us for plausibility. Our customers see the data in an internet portal. We comply with the strict European and German data protection laws. However, we do not only deliver status data. We also provide recommendations: our customers learn the optimal times for maintenance and repair. We use "Big Data" to this end. Thus, swarm intelligence is formed for the railways. All customers benefit from this. Of course, everyone only gets the data of their own or rented vehicles. The security and accuracy of the data is our top priority.

Our measuring stations are located along normal railway lines as in the Middle Rhine Valley as well as on the sidings of individual companies and in ports. Our customers are rail transport companies, owners of freight wagons, ports and industry. They also include large medium-sized companies in Germany and Europe. Our product revolutionises rail freight transport for these customers. But we have other supporters in addition to entrepreneurs who want to reduce their costs:

people living near railway lines who demand more safety, and environmentalists who want to shift goods from road to rail.

We show that "Industry 4.0" works in European rail transport. Our team, based in Bonn, Germany, consists of engineers, computer scientists and railway specialists who cooperate closely. Together we have more than 100 years of experience in the railway business. This experience drives us: we know too little about our rolling stock. Maintenance cycles are based on historically grown rules and regulations, damage is not always detected early enough. Or components are replaced too early because the manual prescribes it, rather than wear and tear. We have set out to change that. And this is why we like to talk about a revolution.

We provide more safety, better environmental protection and lower costs.