

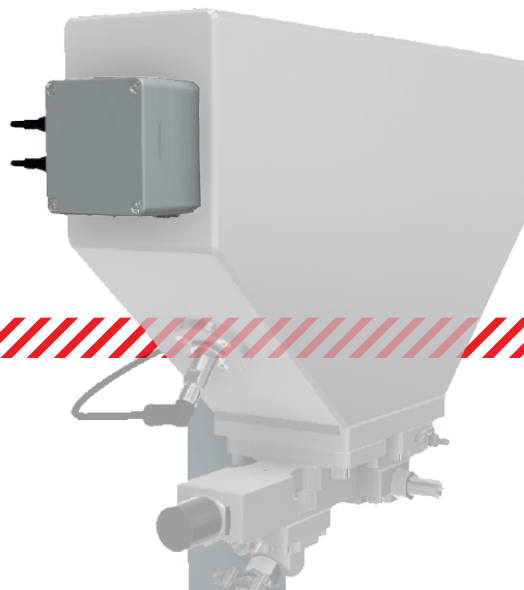


Innovating  
to improve  
performance  
and safety



# SSMS 4.0

Smart Sanding Monitoring System



Take the sanding device  
to the IoT

The module wirelessly transmits status data of the sander over a LPWAN (Low Power Wide Area Network) to a cloud-based database. From this data, specific maintenance suggestions can be derived for the customer. Up to four digital signals can be transmitted several times a day. It is also possible to save the operating times and cycles.



## CUSTOMER BENEFITS:

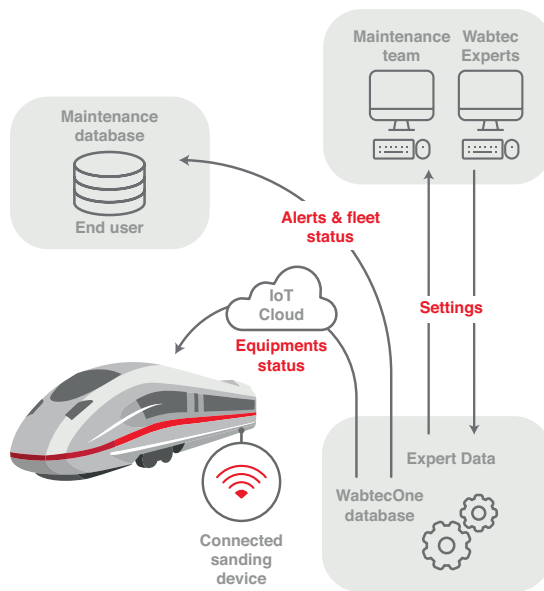
- + Demand-oriented planning of filling intervals
- + Condition based maintenance
- + Complies with EN 50155 (-25...70°C)
- + Fireprotection according to EN45545-HL3
- + Improving of predictive maintenance
- + Easy to install

The European Union has recognized the importance of the railway industry and has been supporting it since 2020 through the Shift2Rail research program with up to 450 million € by 2020.

Initial experience shows that bureaucratic hurdles in the application process must be quickly remedied so that the funds also benefit medium-sized companies. In the coming years, it will also be about extending the program beyond 2020.

An important point of this project is the predictive maintenance:

So far, vehicles are maintained at fixed intervals. Digital technologies today enable continuous predictive maintenance. Digital sensors and cameras on the track check the condition of trains and report wear and tear and repair needs. In the workshop are only vehicles that actually require maintenance.



This makes train traffic more predictable and efficient for operators - and even more reliable and attractive for users.

In this context, we have thought about how we can improve our core product, the sanding system.

- Field test planned in late 2018 (TBD)

### Product specifications

Battery life	• approx. 8 years
Number of digital inputs	• max. 4 (24 and 110 V DC/-30...+25%)
Safety class	• IP67
Operating temperature	• -25...+70°C acc EN50155 (T3)
EMC	• EN 50121-3-2
Fireprotection	• EN 45545-HL3

To discover everything sanding can do, please contact us at:

**NOWE GmbH**  
 Heilswannenweg 66, 31008 Elze - Germany  
[www.wabtec.com](http://www.wabtec.com)  
 email: info.nowe@wabtec.com

