



**InnoTrans 2018**  
18-21 SEPTEMBER  
BERLIN



**INNOVATIONS  
AND TRENDS**

## Digital twins and Acoustic Infrastructure Monitoring



DB IoT Cloud networks over a digital twin for example locomotives

DB Systel, Deutsche Bahn's digital partner, is showcasing at InnoTrans how objects, such as points, rails or locomotives, can be networked with each other in the internet of things via a digital twin. To this end, DB Systel has developed the DB IoT Cloud, which provides dynamic, digital software representation. The current behavior of the objects is mapped almost in real time in the application using sensors. AIM (Acoustic Infrastructure Monitoring) is a universal predictive maintenance solution from DB Systel that detects early on faults with mechanical equipment, such as escalators or elevators, on the basis of acoustic signals. Using AI, vsion.ai automatically analyzes and assesses images and videos to provide information for decision-making processes, such as detecting snow at stations to dispatch staff automatically, or identifying hazardous situations on the railroad.

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