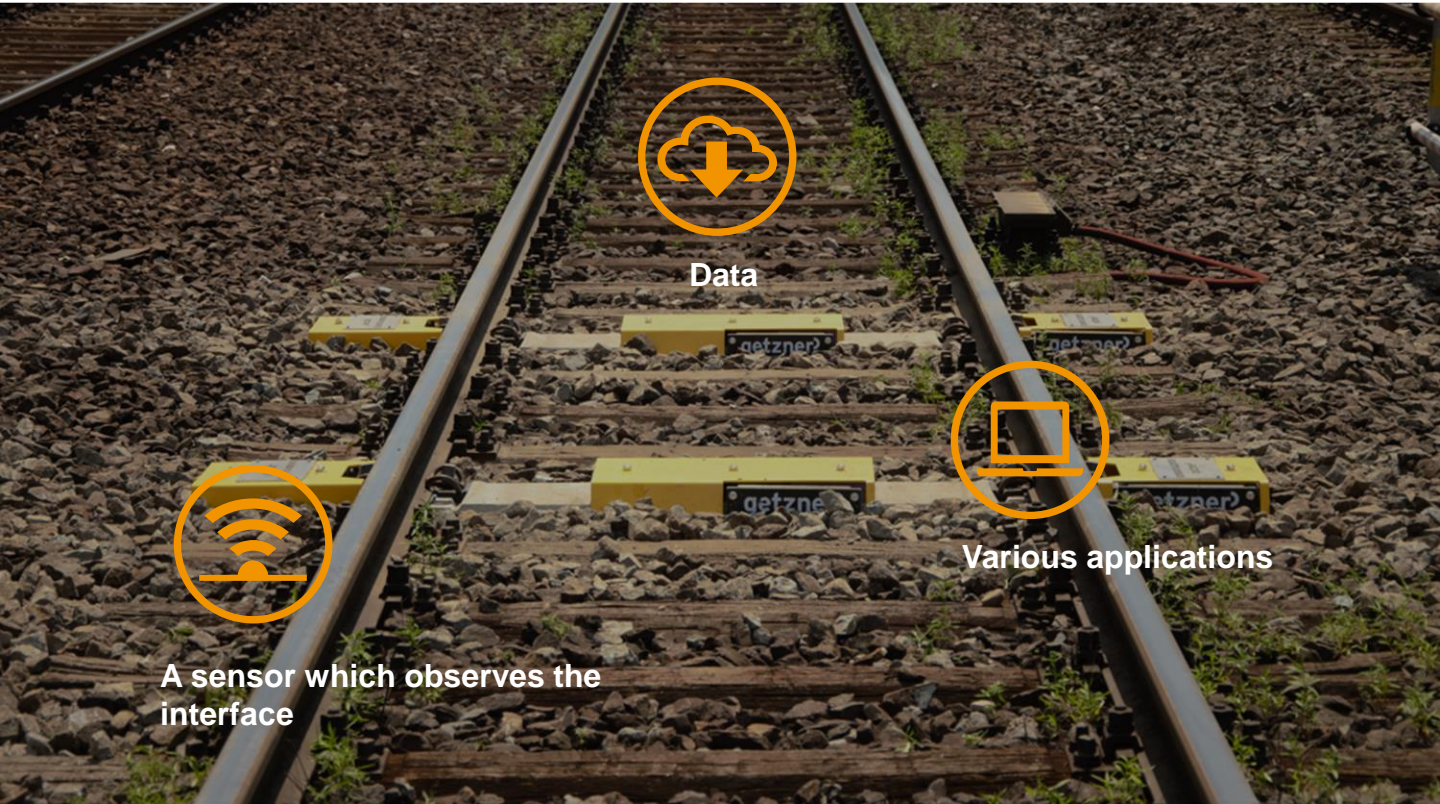





# Sensor Sleeper

Complex questions of rail superstructure suddenly become very simple. A monitoring system capable of observing the ballast sleeper interface.



Sensor	Data	Application
Ballast – Sleeper interface	Data generation	Conditional based monitoring
Pressure map	Cloud storage	Proof your rail superstructure
Ballast contact areas	Remote access	Safety monitoring
Load distribution	Network view	Track validation R&D
		

We have always wanted to understand the overall system, which is why we are taking the next logical step and merge our core competences of product and measurement technology.

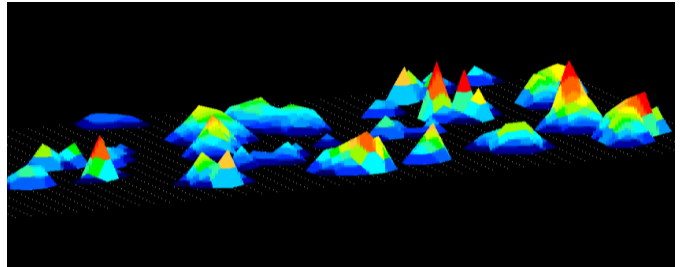
## Prototype

- Tamping same as before
- Normal sleeper installation
- No specific handling tools necessary



## Pressure area map

- Measurement of contact areas
- Measurement Ballast-sleeper contact pressure
- Measurement of dynamic forces



## System understanding

- Load distribution map
- Observation of bearing behaviour or capacity over time
- Input for predictive maintenance

