PANT chealth Keeps Trains on Tracks.







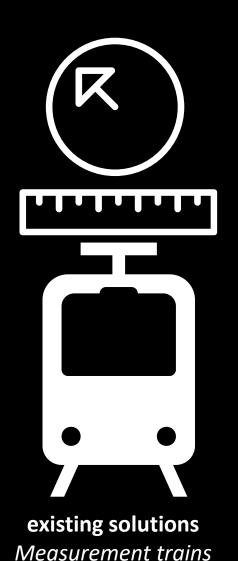
10,000,000 €

Railway Daily Maintenance Cost in Germany

30% delay









Delay in defect detection

No information about the reasons for the defects

Reducing infrastructures' ontime

Unable to validate proper maintenance operations

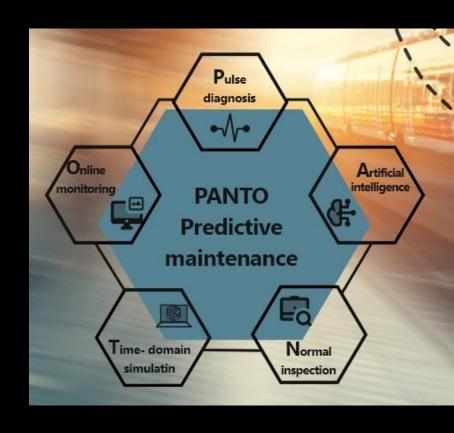


Online monitoring

Intelligent to find the reason of the defect

No interference with trains operations

Effective to evaluate maintenance actions



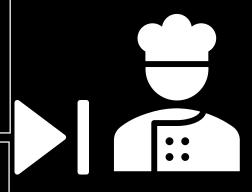
On-board online monitoring and predictive maintenance







Data Farmer
Simulation Software & Digital Twin





Algorithmic analysis and Machine learning



Predictive Maintenance plan

Where? What? When? Should be repaired

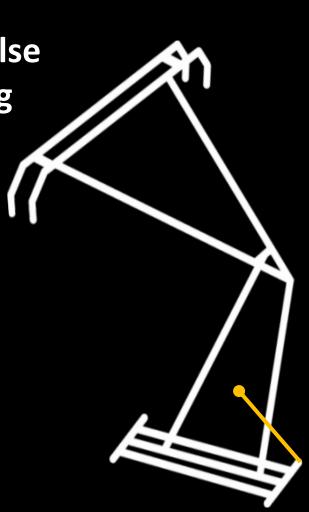




USP

Patented Pulse

Monitoring

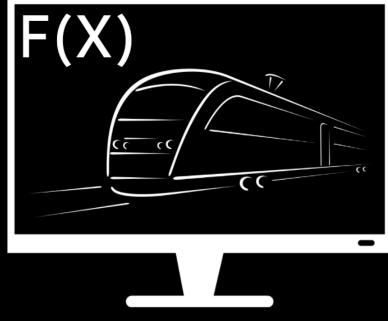






USP Mathematical Model





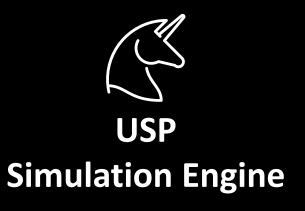


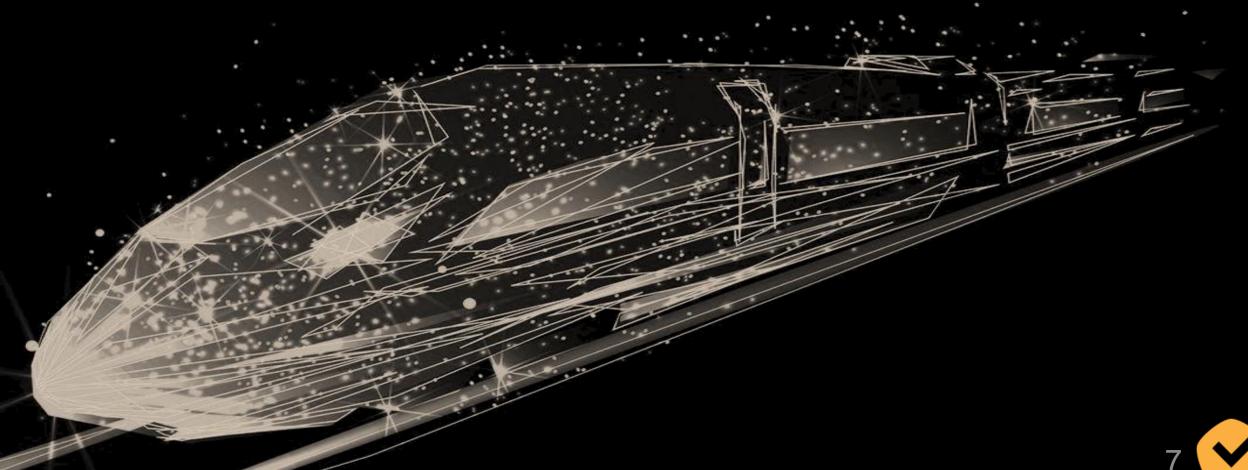
Monitoring Hardware

Mathematical Model

Meaningful Data





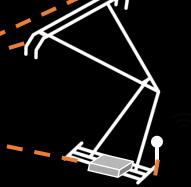




Data hunter



Data hunter collects signals from the pantograph, merges them with recorded video of pantograph and overhead contact line, sends them to the server. Finally, the results are presented on a user-friendly platform.



PANTOtrig



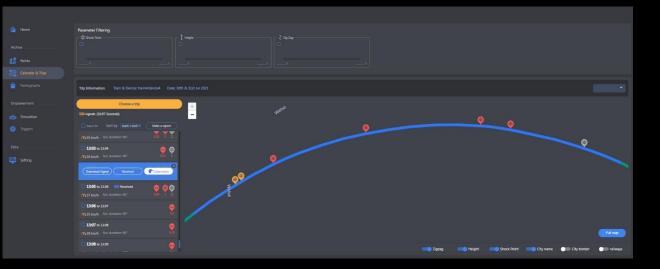


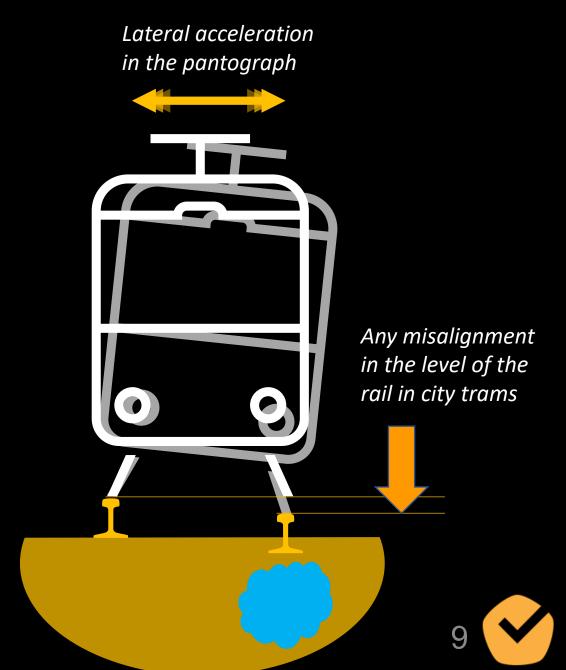
We are delivering the report on user-friendly Monitoring Platform or via API functions.





Not only the catenary, but also the tracks











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Prof. Dr. -Ing. H. Molatefi



Kai Malkwitz



Ralf Holtkamp



Dr. Viola Prifiti





First customer for our Hardware



Mar. 2021



Sep 2021
Top 5 rail Startup
Globally
StartUS



Nov, 2020





Oct 2021

ERCI

EU innovation

award



Feb. 2020





Oct. 2020



Jun. 2021

Accepted in TechFounders accelerator













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