♥ Felsztyńskiego 50, 93-582 Lodz, Poland 565 ADVANCED INSTINCT **Road from Metering** to Business Applicable Knowledge Piotr Majchrzak



### ABOUT US

We are a team of experienced designers, programmers, analysts and Big Data specialists





Authors and suppliers of advanced eco-driving software designed for railway carriers

Providing support in improving key indicators affecting the quality and efficiency of services







#### EM3000

innovative, comprehensive solution enabling the measurement of traction electrical energy in DC 1.5kV and 3kV as well as AC 15kV 16 2/3 Hz and 25kV 50Hz power systems





## INNOVATION

- full autonomy resulting from the direct powering of the HVU measurement part from the measured voltage
- connecting several HVU/measurement parts with the DHU communication module
- energy measurements not only in direct current networks but also in alternating current networks

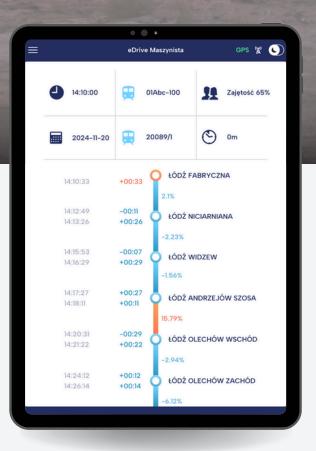


# eDrive

multi-faceted platform for analyzing and improving the energy efficiency for railway operators









passenger comfort







punctuality



environmental impact

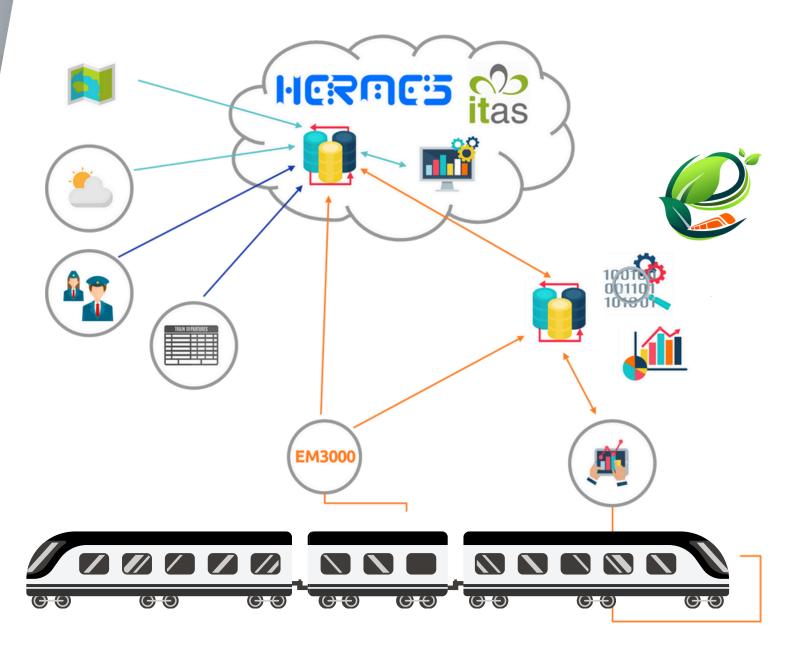
## ARCHITECTURE based on data obtained from





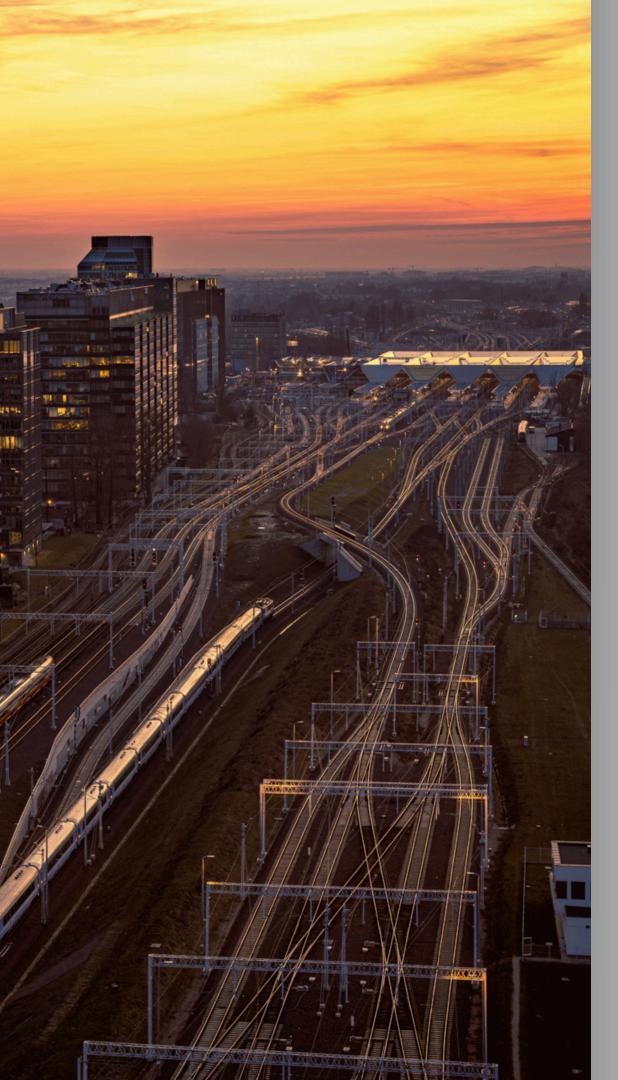








- continuously aggregating and combining the data creating detailed representations of completed journeys
- presenting data in various perspectives to best reveal relationships between them. The data is displayed on a specially designed web portal, requiring no additional software installation or maintenance.



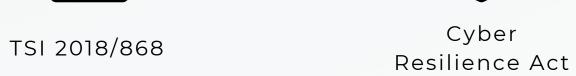
### CHALLENGES

We are constantly improving our services making our systems and devices compliant with the newest norms











### THANK YOU

