

Success story

VIRTURAIL

**ASV: Automated
Service Vehicles**

/ VIRTURAIL

Automated Service Vehicles



Either as a single car use or in a train configuration:

Riding on virtual rails.

The rubber-tired vehicles can supply construction sites without mechanical track guidance whether above or below ground. This offers the following advantages in particular:

- Time saving - immediately ready for use
- 100% on track – space requirements are kept to a minimum
- Cost savings because no rail infrastructure is required
- Emission-free and energy-efficient thanks to electric drive

/ Benefits for the customer: "Expertise meets innovation"

The DNA of VIRTURAIL



Maximum directional stability is a key characteristic of vehicles and train formations that have several driven axles.

To prevent individual cars from "breaking away", drive control of the individual driven axles is required to prevent unwanted slippage. And this on a surface that can be different under every car on the construction site.

Lukas Gorbach, Head of Electrical Engineering at VirtuRail:

The technological functions of the VECTOPOWER inverters enabled us to perfectly limit the unwanted slippage of the drives.

The VEConfig tool for any parameter adjustments was quickly learned and is easy to use.

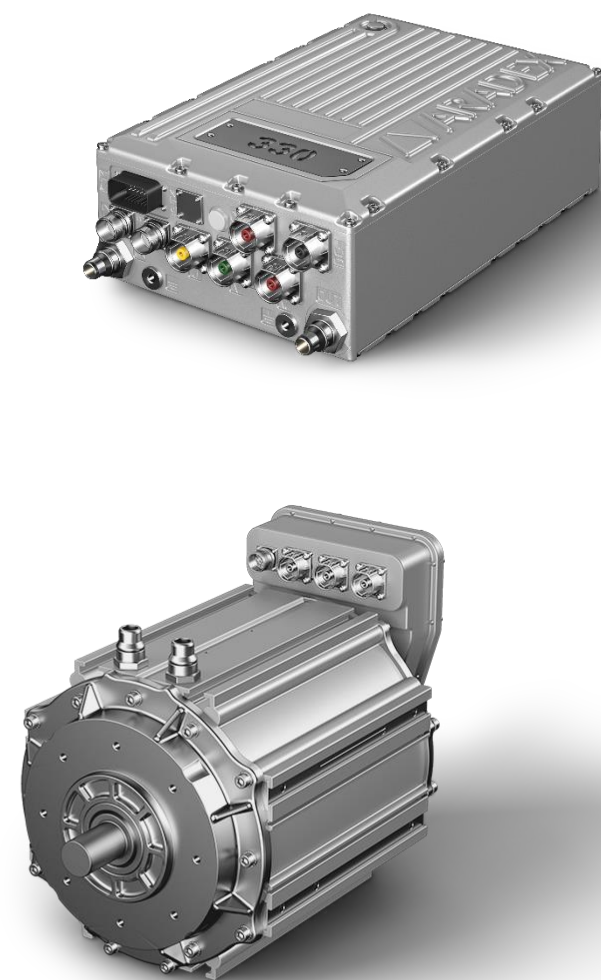
The analyzer as an integrated oscilloscope enabled us to quickly compare the measurement data.

The technological implementation was carried out by the VirtuRail & ARADDEX team

/ ARADEX contribution to this project

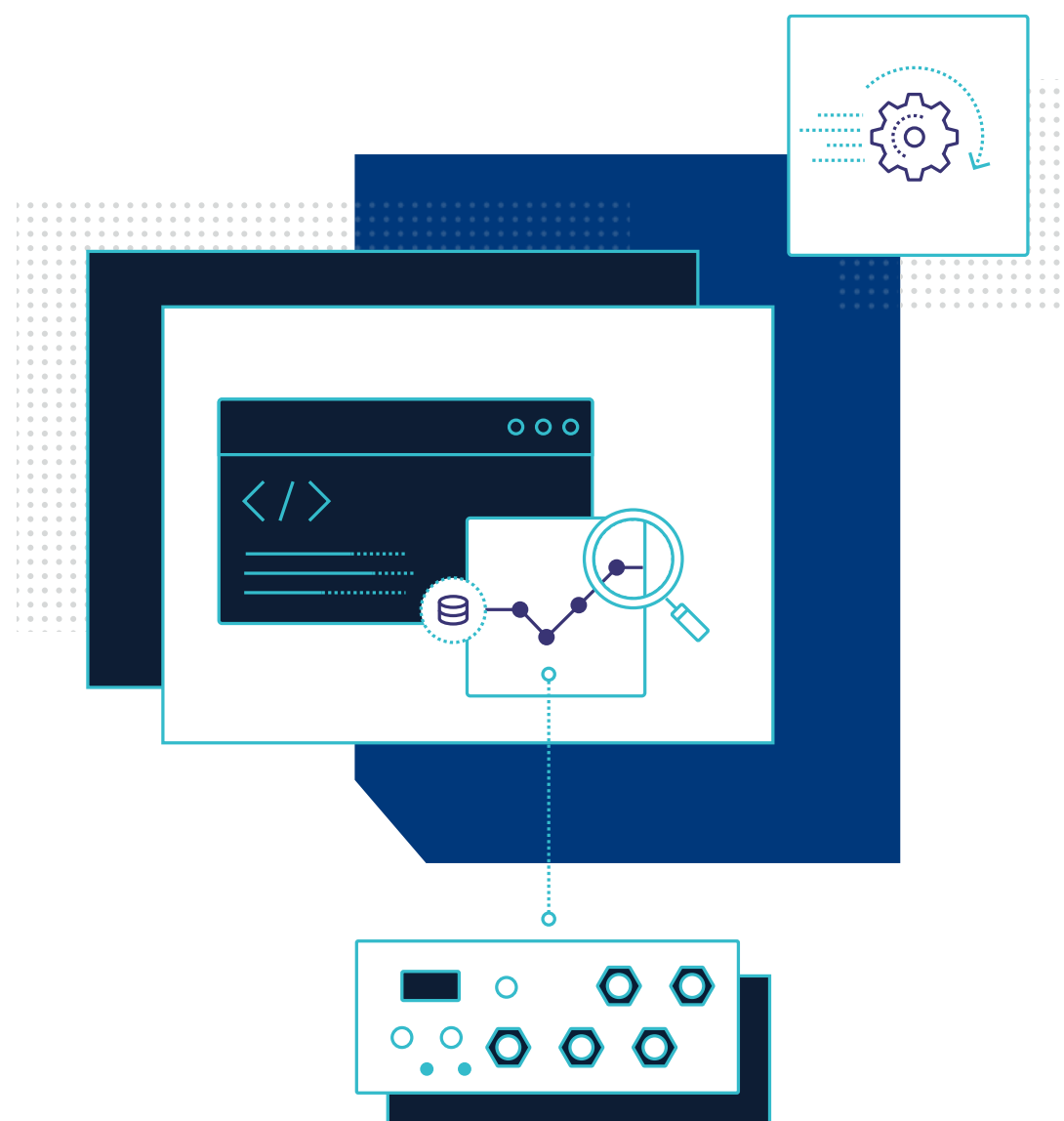
Hardware, software, tools

HARDWARE



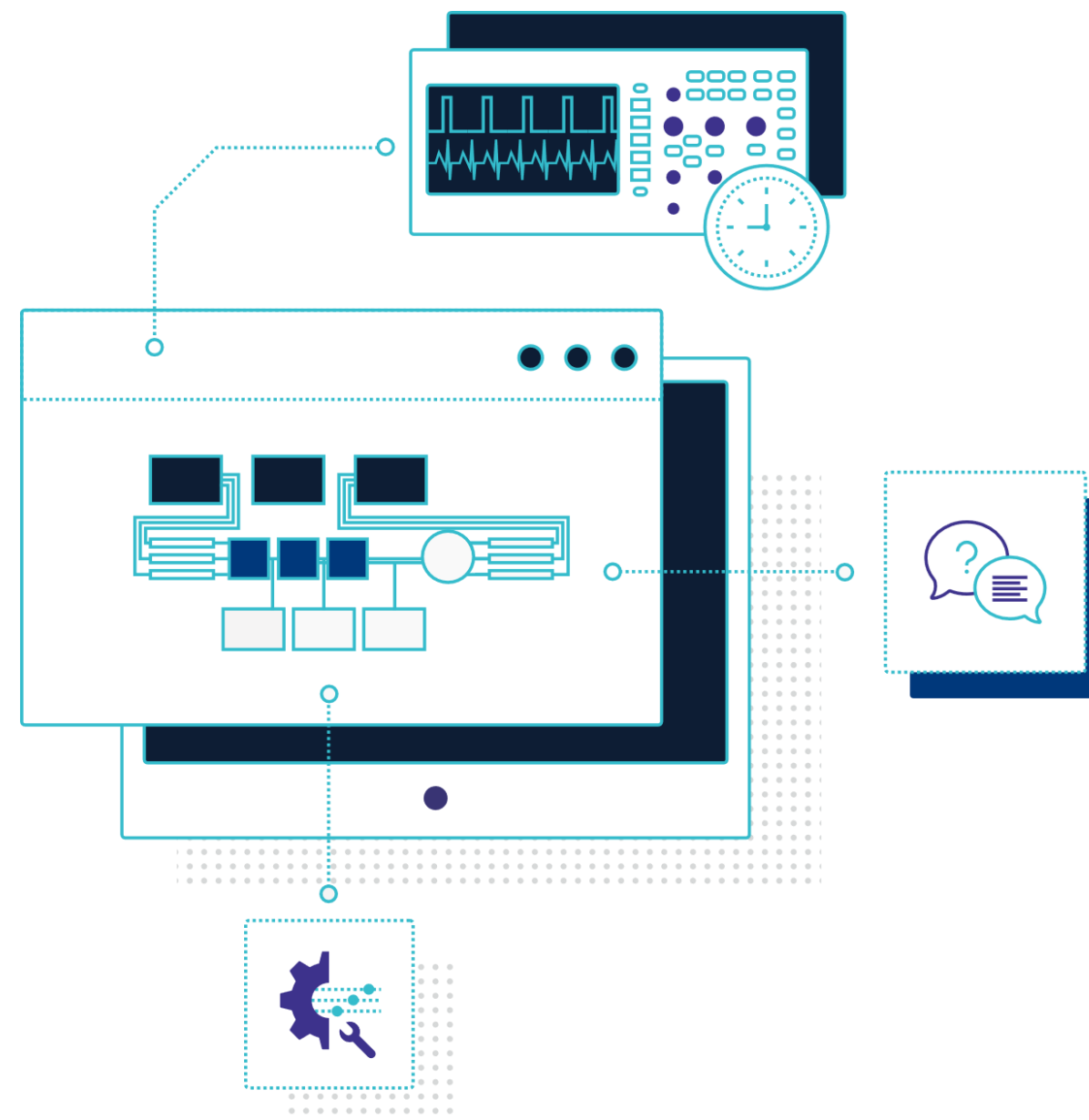
- Inverter
- E-motors
- Accessories

INTEGRATED SPS FUNCTION



- Sophisticated real-time PLC
- For function and diagnostics
- Your know-how, your USP's

TOOLS






- Programming
- Parameterization
- Oscilloscope function



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e-mobility**



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