

## High Frequency Measurements

→ Instrumentation → Metrology → Post-processing

- ❑ Complete **electrical measurements** for EV motors
- ❑ **Benchmark, efficiency characterization**, check tuning application
- ❑ Direct analysis of EV strategy **impact on speed and torque**

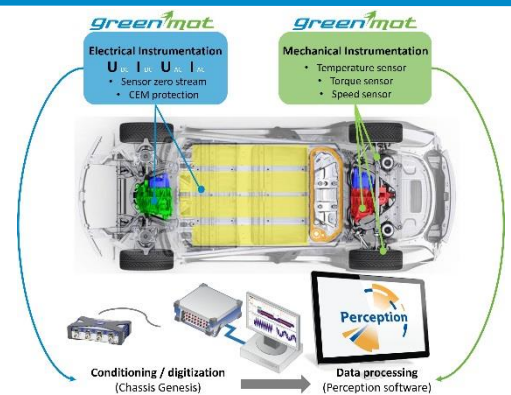


## ELECTRIC TESTING CHALLENGES

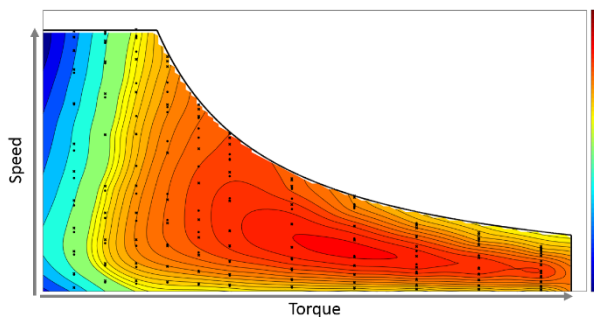
- ✓ Instrumentation with **high voltage and tensions**
- ✓ Frequency up to **25 kHz** and **variable intensity**
- ✓ Keeping all the details of signal with a **severe EMC environment**
- ✓ Combination of physical measurements : torque, speed

## THE GREENMOT SOLUTION

- ✓ Knowledge of **all measurement chain** (electrical, mechanical)
- ✓ **Choice of right sensors** and knowledge of their technology
- ✓ Instrumentation **respecting the electric vehicle architecture**
- ✓ Synchronization and **continuous data acquisition**
- ✓ Data processing provided by **Perception software**



MOTORS AND INVERTERS PERFORMANCE  
MAPPING OF TESLA S



## APPLICATIONS

- ✓ **Power calculation** (voltage and current measurement)
- ✓ **Energetic efficiency** (electrical and mechanical calculation)
- ✓ **Energy optimization** (Identification of energy losses)

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