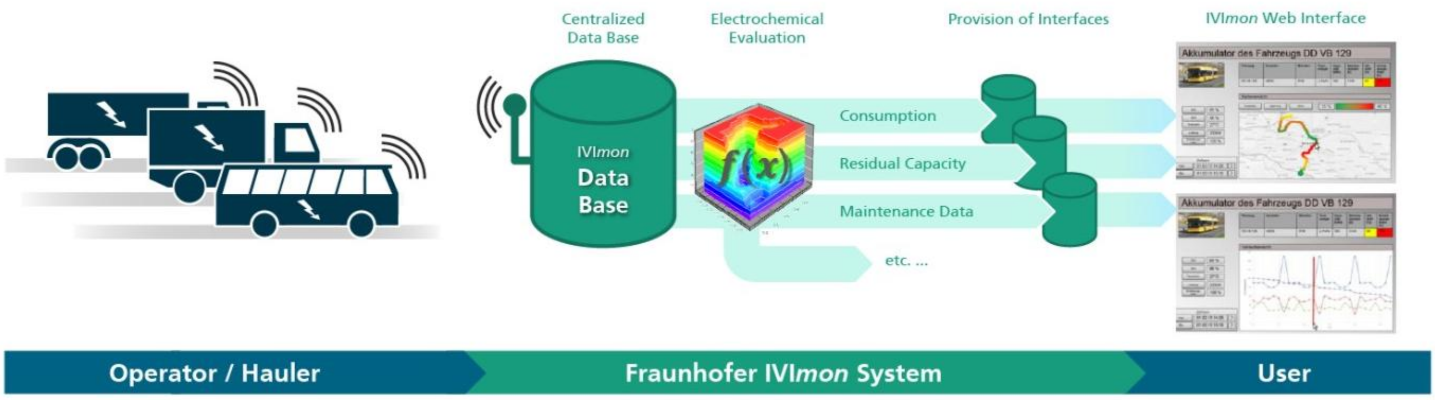
Remote Battery Diagnosis – Monitoring the Battery State with IVImon

Operators in the emerging hybrid and electric vehicle market lack the option of assessing the disposability and state of their vehicles, most importantly that of the batteries. Sometimes, however, disposability is a crucial factor for success. The IVImon system determines relevant state parameters of the battery storage unit, processes them and provides them in a user-friendly way via a conventional or web interface.



System Overview:

- **Remote Diagnosis of Energy Storage Units:** in the field of electromobility, e. g., for public transport, shipping, logistics; of starter batteries in conventional vehicles; of stationary energy storage units such as USV, solar storage systems
- **Data Security:** Secure transmission using certified, commercial telemetry devices and with safe data storage on servers located in Germany
- **Customer Benefits:** User-friendly processing, provision and visualization of the evaluations (remaining capacity, internal resistance, inspection intervals, ageing analysis, ageing trends, individually adjustable) via web interface

With these features, IVImon provides the basis for a number of new business models such as:

- Vehicle operators (public transport provider, communities, logistics operators)
  - Ageing monitoring, storage unit-saving deployment planning, estimation and prognosis of performance
  - Analysis of consumption
  - Monitoring of residual value
- Providers of vehicle and battery systems
  - Predictive maintenance and inspection services
  - »Guaranteed disposability«
  - Warranty monitoring
- Insurance companies and lessors
  - Legally secure, application-appropriate and technology-adapted design of contracts and insurance policies
  - Monitoring of residual values and amortisation

Fraunhofer Battery Alliance: Fraunhofer offers services in the entire value chain of battery technology starting from materials, cell production, components up to systems - processes including simulation, analysis, testing and certification, Technology interventions on a contractual engagement basis.

- 24 Fraunhofer Institutes with competences along the battery value chain
- Broad research and development skills in various battery technologies
- Your development and cooperation partner with extensive experience and technical equipment

Core competences

- Material Research
- Cells and Cell production
- System and Integration
- End-of-Life and Battery Recycling
- Simulation and Modelling
- Testing and Evaluation

Markets and applications

- Energy Storage Devices (Electromobility, Heavy Duty, Rail, Aviation)
- Stationary Energy Storage
- Powertools/ Consumer

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Kindly get in touch with us if you are interested in this technology or require further information.
Thanks and Regards,

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