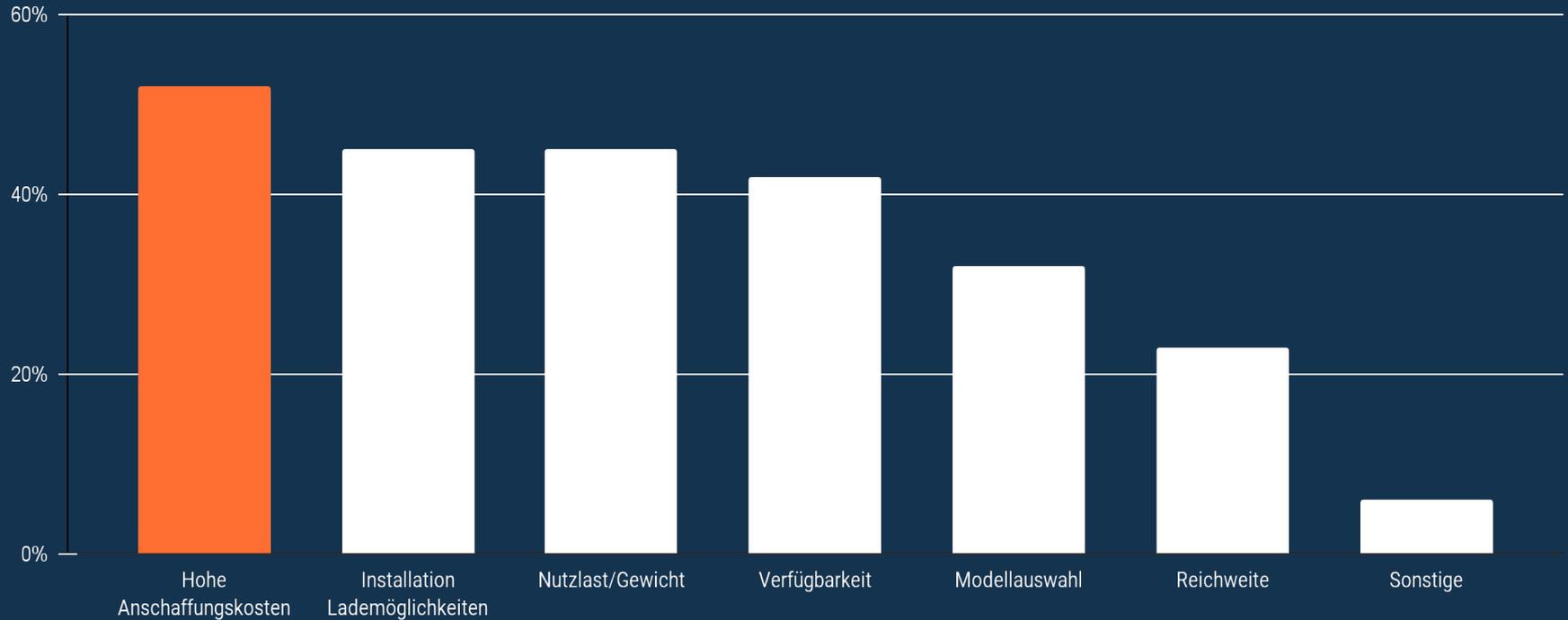




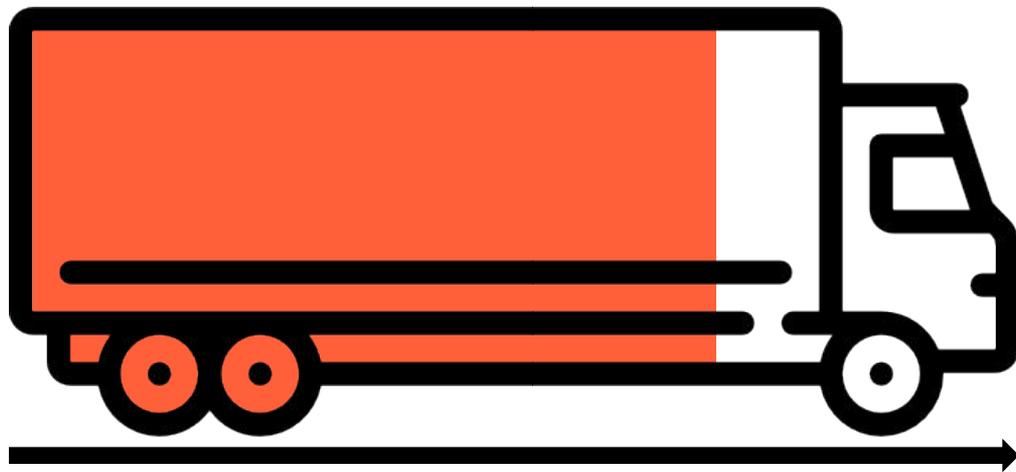
# volytica diagnostics

Use your batteries to true potential

# Hohe Kosten weiterhin eine Hürde



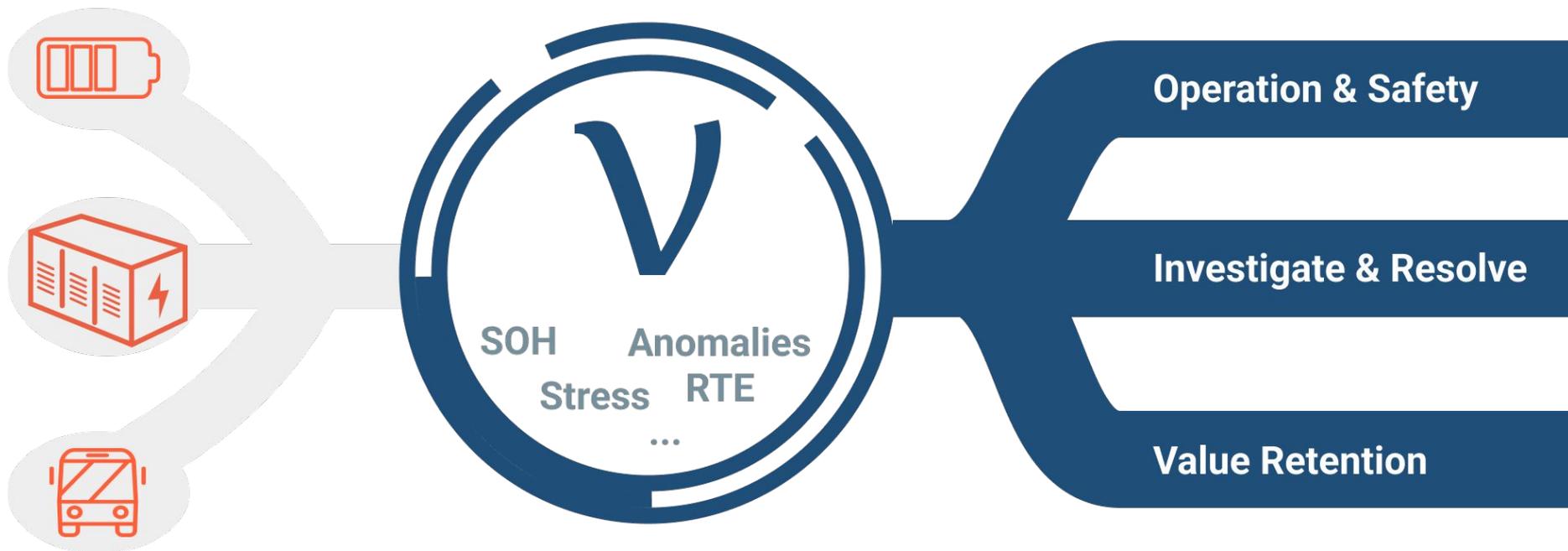
**Batterie kostet ~70% des gesamten Anschaffungspreises**



Purchase Costs €

Unsere Lösung

**Wir knacken eine Fülle von Daten, die andere verwerfen,  
mit unseren proprietären Batterie-Algorithmen**



# Referenz **BRIDGESTONE** **webfleet** Einfach integriert in Bestandsanwendungen



powered by volyca

The screenshot displays the webfleet interface. On the left, a sidebar shows navigation icons. The main area is titled 'VEHICLES (81) ASSETS (0)'. A list of vehicles is visible, with a detailed view for a SEAT vehicle highlighted. This view includes a 'SOH ESTIMATION' graph, 'BATTERY & WARRANTY INFORMATION', and 'CURRENT BATTERY INFORMATION'.

**SOH ESTIMATION**

Current SOH (%)	Uncertainty range
78%	3%
Maximum	Minimum
80%	78%

**BATTERY & WARRANTY INFORMATION**

Total energy throughput	Mileage
400 MWh	450 000 km
Period	Battery manufacturer
7 years	Deutsche ACCUMotive
State of health	Battery chemistry
75 %	Li-Ion

**CURRENT BATTERY INFORMATION**

Total energy throughput	Mileage
120 MWh	104 200 km
Period	
2 years 4 months	

The right side of the interface shows a map of Central Europe with a 'ROUTE PLANNER' overlay. The map includes labels for Germany, Czechia, Slovakia, Hungary, Croatia, Bosnia-Herzegovina, and Serbia. The route planner shows a 'New route' button and 'My routes'.

## Vorteil 1: Besserer Betrieb und Wartung (**vdx sentry**)



**Automatisierte Evaluation** des Gesamtsystems mit Handlungsempfehlungen

**-30% OPEX**

Predictive Analysis  
Breakdown Avoidance  
Root Cause Analysis

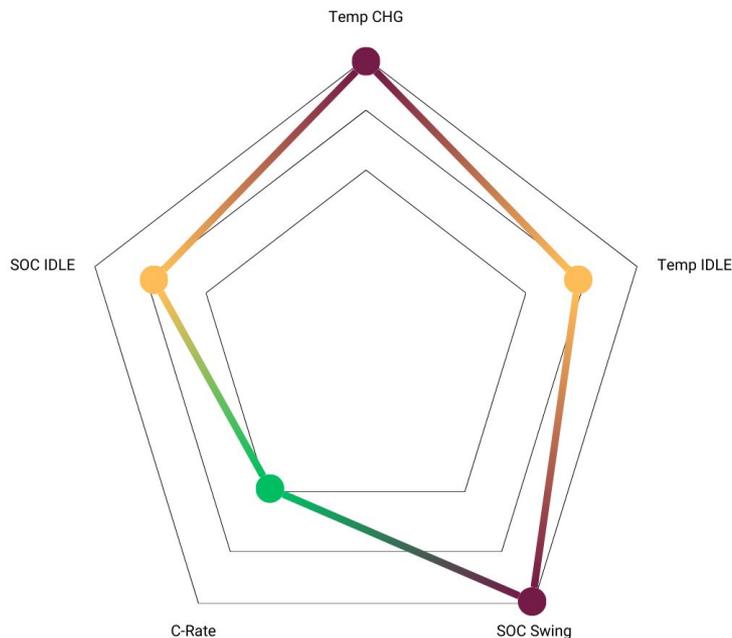
## Vorteil 2: Lebenszeitverlängerung / Werterhaltung



Analyse des Nutzungsprofils und  
Empfehlungen für längere Lebensdauer

**+10% Lebenszeit**

Stress Reduction  
Warranty Monitoring  
Residual Value



Einflussfaktoren Degradation

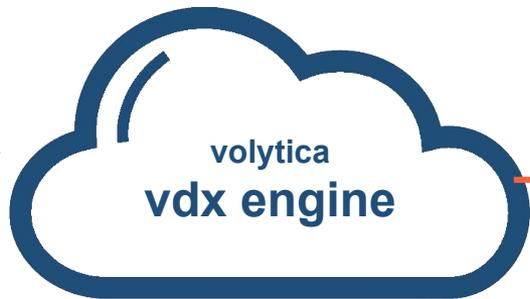
# Unsere Lösung Für Ad-Hoc-Bestimmungen: VDIA



quick  
20 min for  
Battery Report



EV



volytica diagnostics MAHLE

### E-HEALTH Charge battery report

**Vehicle data**

Customer (vehicle owner)	140204asd	Manufacturer	XY
Official identification	AJK-X192E	Model	XY
First registration	09/22/2019	Engine identification	XY
Mileage	11,435 km	FIN	ABC123 ABC 1234

**Implementation Details**

Reviewer	MAHLE	Version loading profile	1
Location	Stuttgart	ODD Availability	Yes

**Test data**

Duration	10:45 min	Max. loaded performance	14.4 kW
Start of SoC	56%	End of SoC	62%

**Indicator of available residual capacity**  
Estimation of the residual capacity released by the manufacturer in relation to the nominal capacity **95%**

**Performance indicator**  
Comparison with a new vehicle of a similar model **✓**

**Manufacturer-SoH**  
Value of the residual capacity estimated and issued by the manufacturer **98%**

0% 60% 70% 80% 90% 100%

## Intelligent Charging

With our patented solution we stimulate the vehicles battery via the DC charging interface to get valuable insights.

## Deep Battery Insights

Benefit from our extensive expertise and trained algorithms, providing comprehensive analysis of battery health derived from diverse battery types.

Residual value & 2<sup>nd</sup> life certification

Über volytica

10+ Jahre Erfahrung, >1GWh Batterien in mehreren Sektoren



2024

## >1 GWh an überwachten Batterien weltweit

- eines der Top 3 Batterieanalyse-Unternehmen in Europa
- Mehr als 30 Expert:innen aus über 10 verschiedenen Nationen mit einem Frauenanteil von 35 %

2019

## Ausgründung aus dem Fraunhofer IVI

2017

## Launch der ersten Batterie-Monitoring-Plattform

2012

## Erster europäischer E-Bus mit Batterie-Überwachung

Get in touch

**Wir sind auf der Suche  
nach Use Cases im  
Logistik-Bereich.**



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