



## **Österreichische Post Case Study: Extending EV lifespan through battery health tracking and fleet optimization**

**Bamomas team**

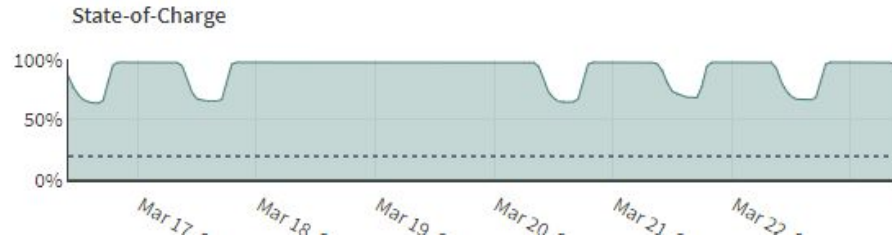
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# Bamomas identified opportunity to prolong the operational life of Post EVs resulting in 90% ROI and significant capital optimization

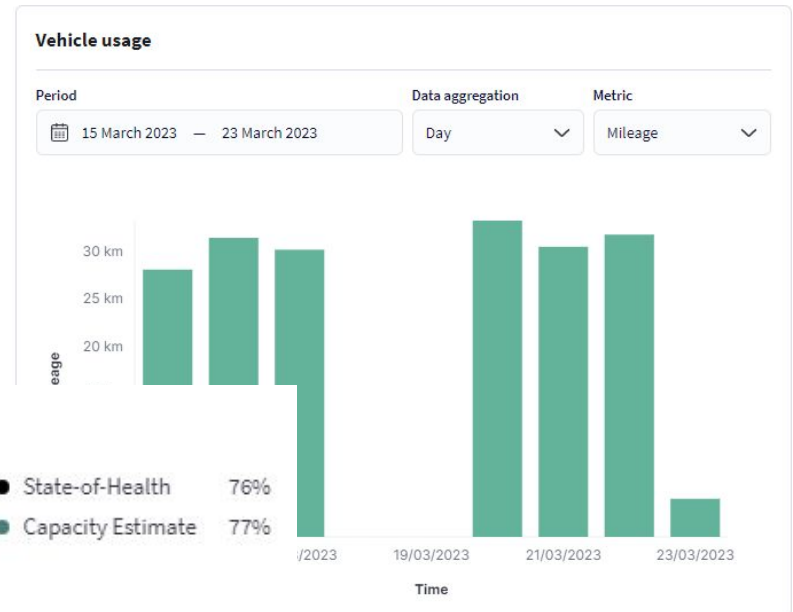
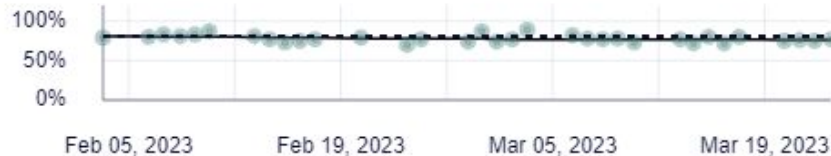
Problem	Goals	Solution	Results
<ul style="list-style-type: none"><li>Managing EV fleet for best total ownership cost (TCO) and sustainability is not possible without knowing battery state of health (SoH):<ul style="list-style-type: none"><li>Missing battery SoH</li><li>Manual estimations of battery SoH is complicated</li><li>Each EV manufacturer has different data &amp; protocols</li><li>Live health data are not part of common software</li></ul></li></ul>	<ul style="list-style-type: none"><li>To get Battery state-of-health for 6 Nissan E-NV200 - the oldest vehicles in fleet.</li><li>To validate fit for the fleet - All vehicles must provide battery data</li><li>Business Case Validation - PoC insights learnings for customer value vs solution cost.</li></ul>	<ul style="list-style-type: none"><li>Using Bamomas battery analytics platform insightful battery SoH was calculated for 6 Nissan E-NV200.</li><li>Pilot learnings about battery usage indicated that already degraded batteries have more than sufficient capacity to fulfill daily delivery routes!</li><li>10 years of operational life can be prolonged as all vehicles in the pilot use ~40% of battery capacity for daily routes. Battery can further degrade without reduced ability to deliver.</li></ul>	<ul style="list-style-type: none"><li>Immediate real-time insights avoid early EV phase-out</li><li>EV lifetime increase by 2 years through rotation of the existing Nissan fleet towards short inner city routes.</li><li>Capex optimization on avoided/postponed investment, which can be utilized e.g. for accelerated EV adoption.</li><li>90% ROI calculated for the project!</li></ul>

# Pilot learnings about battery usage beyond goals

Already degraded batteries (2014) have more than sufficient capacity to fulfill daily delivery routes!

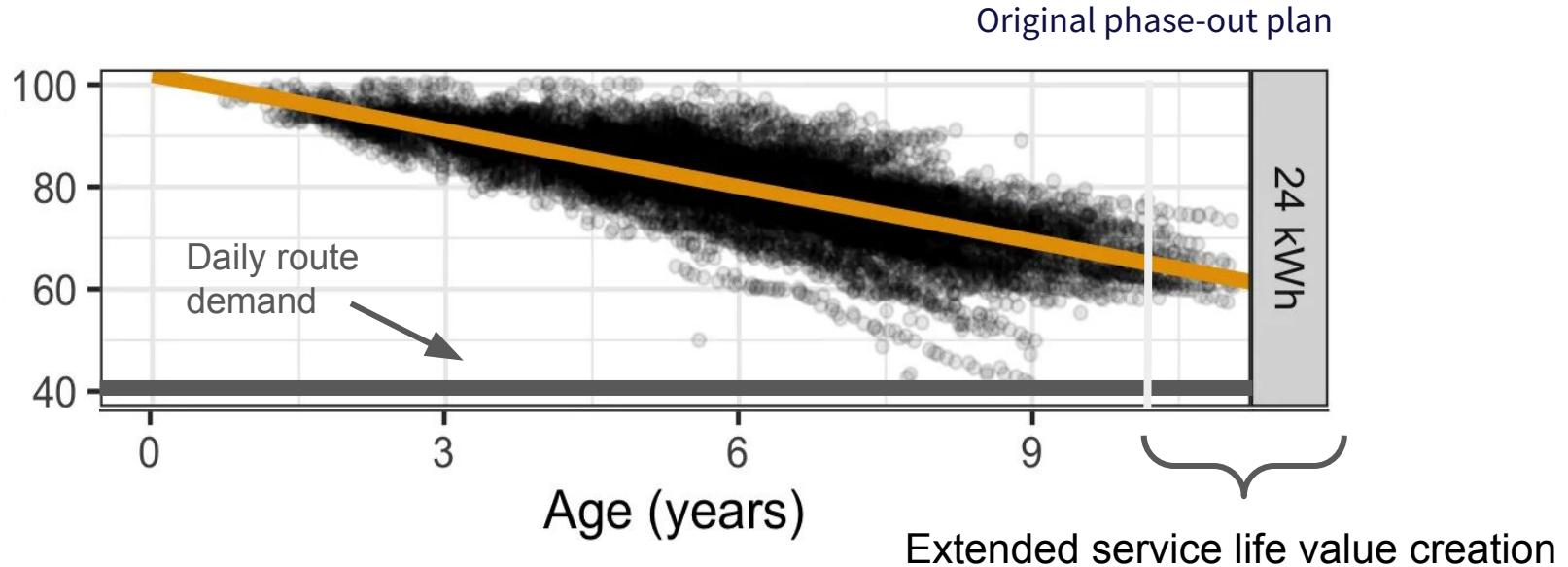


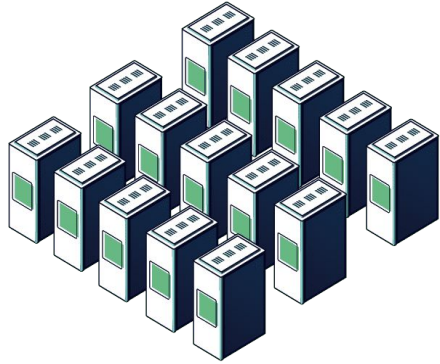
State-of-Health ?



# 10 years of operation can be prolonged!

All 6 vehicles in pilot use about 40% of battery capacity for daily routes. Battery can further degrade without reduced ability to deliver





# Interested in learning more?



## Contact Us

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