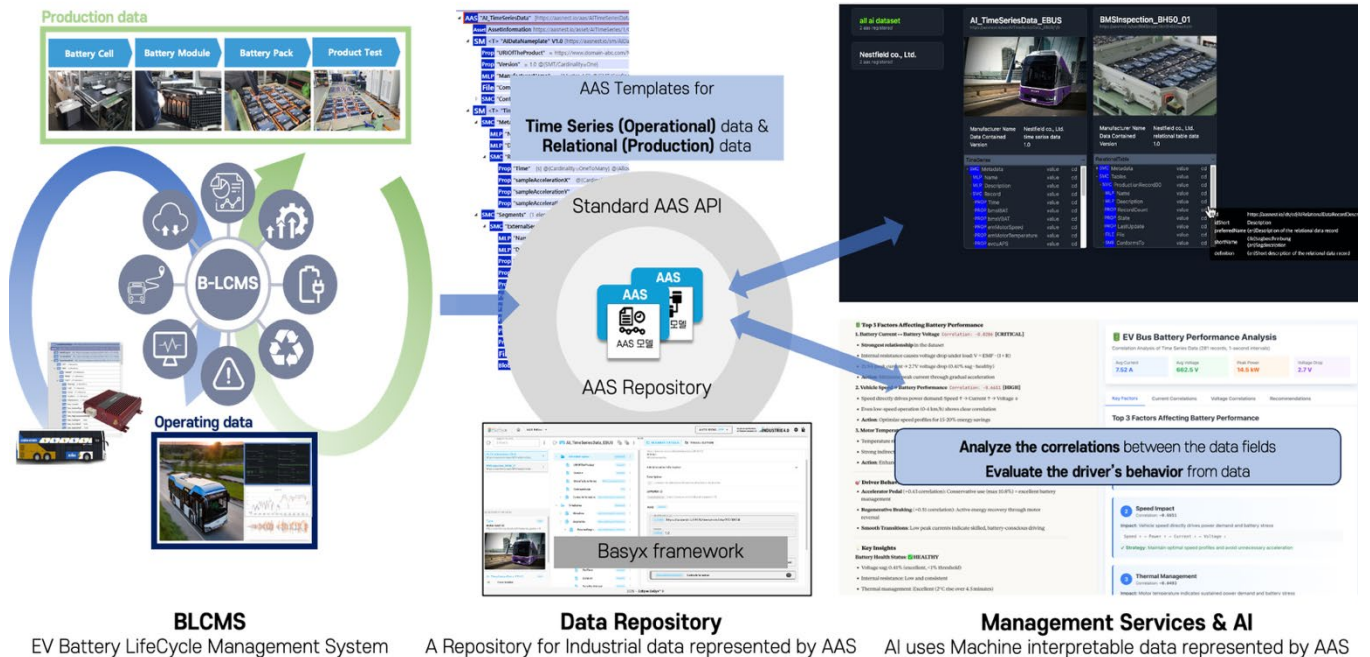


Phone +49 69 6603 1939
Email info@idtwin.org
www.industrialdigitaltwin.org

Connecting commercial AI services with AAS via standard API



In this use case, the AAS was used as a standardized data model to connect industrial data with AI. An AAS repository was adopted to use multiple datasets simultaneously, and the standard AAS interface was used to connect data to external services. The functionality of this framework was validated using data from Nestfield's Battery Pack Lifecycle Management Solution (BLCMS), an integrated solution that combines production and operating data of electric vehicle battery packs using AAS.

For manufacturing companies, standardized data provides a unified way to link their data to AI services. For AI service providers, standardized self-descriptive data containing all necessary information for understanding and identifying can be used without additional data preprocessing.

Even without prior AI or statistics knowledge, the AI service could locate AAS containing electric vehicle battery data and accurately interpret vehicle operation parameters. It provided insights into driving patterns, analyzed correlations, and suggested additional data collection to improve predictions and operational analysis. This was possible because the machine-interpretable semantic information in the AAS gave clear context, highlighting a key advantage of the framework.

This pilot project in Korea, developing AI specialized for manufacturing data, was carried out by a consortium led by Gyeongnam TP, under the support of KICOX and MOTIE.