Success Story

Uniper: Creating a Highly Scalable, Platform-based Data Ecosystem Designed to Enhance Market Responsiveness and Lower Operational Costs by at least 30%

Digiterre worked in close partnership with Uniper's Market Analytics and Data Management teams to develop the new Market Data Analytics Platform (MDAP). The aim was to create a step change in the speed and quality of data analysis and reporting generated by the Market Analytics team, for use by the company's traders and market analysts, and to thereby keep Uniper's energy trading business well ahead of the competition in these ever-changing markets.

The main objective of the initiative was to equip Uniper for the future challenges of responding quickly to constantly changing market developments. The new MDAP system enables Uniper to more effectively support the Market Analytics team, to respond more rapidly and comprehensively to business and market challenges and ultimately to grow the data economy within Uniper.

The MDAP initiative leveraged Digiterre's extensive experience in delivering enterprise-level trading and risk platforms and cloud architectures. MDAP is Azure-based PaaS (Platform as a Service) and uses a Snowflake database to store the market and derived data. The system has been architected to support the anticipated high levels of future growth in data volumes, the increasing number of data sets and the ever-increasing demand for more rapid analysis.

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Digiterre spoke very capably with our business stakeholders, speaking their language, being very helpful and efficient, enabling us to commit minimal business resources on our side. I would have no hesitation in working with Digiterre again. "

Volodymyr Sorokoumov
Big Data Architect & Analytics Solution Delivery Manager

Project Goals

The project goals were to:

- Enhance Uniper's ability to correlate and model ever-larger and more diverse near-realtime data sets.

- Derive greater value from this vast quantity of data, in less time.

- Reduce the operational costs and complexities associated with market data analytics.

Key Benefits

- Over 150 active users

- 700 + reports

- 15+ billion data points

- 15+ TB of data and growing rapidly

- 270, 000 time-series objects

- More than 250, 000 data sources

- 30% reduction in operational costs

- 10x performance improvements

Key Attributes of the Solution

- Greater flexibility in the modelling of very diverse data sets using a wider range of time series methodologies, such as event-based, multivariate and matrix time series.

- Granular control of data usage, encompassing authentication, authorisation and auditing.

- The native Cloud-based architecture reduced operational costs while providing scalability and performance.

- Much greater flexibility and ease of customisation which in turn, facilitates high levels of user adoption.

- User-configurable reporting options, which allow for the scaling-up or down of reporting outputs according to business needs for example, on a daily basis or even near-time.

- The ability for users to leverage powerful analysis tools, such as Tableau, Azure ML, Databricks and via developing a bespoke Excel Add-In.

- APIs to support the future extensibility of MDAP