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How a Quant Fund
Enabled Systematic
Trading with FINBOURNE's
API-First Solution

What the experts are saying

❝ Quant funds are realising that building systems for non-proprietary areas, where no competitive or marginal advantage is derived, is just a distraction. The focus should be on value-adds – algorithms, quant modelling, pricing, and market data treatments. By using FINBOURNE's data and portfolio management capabilities, they can stay focused on what matters most: delivering investor value through emerging technologies and seizing new opportunities for returns. ❞

❝ FINBOURNE's expertise in secure cloud technology and capital markets distinguishes them from other vendors. Their API-first design enables seamless integration with proprietary IP, while their robust security measures ensure that data and the details of how alpha is generated are well protected. ❞

Background

A large quant hedge fund, renowned for leveraging advanced mathematical and statistical techniques to perform high-frequency trades across multiple asset classes and exchanges, was looking to establish a new UK-based fund focused on systematic long-short equity trading with minimal human intervention.

The Challenge

The Fund needed to create a centralised data management platform that would serve as the foundation for their enterprise architecture. This platform had to deliver low-latency capabilities, including native machine-to-machine portfolio management and fund accounting, while also meeting their stringent security standards. Specifically, they required:

- **Automated Portfolio Management**
  A robust, end-to-end system capable of normalising order and fill data from multiple sources, while also monitoring executed orders, positions, P&L, and market risk data. The solution would need to process millions of trades each day and support real-time Publisher/Subscriber services.

- **Data and Technology-first Approach**
  The solution needed to integrate seamlessly via API with their highly technical, algorithm-driven culture while also providing an open and extendable architecture for future development.

The Solution

After an extensive vendor assessment process, the only viable contender to an in-house build was FINBOURNE, who were able to provide:

- **EDM+**
  A cloud-based, API-first Enterprise Data Management platform that masters, orchestrates, and curates data, ensuring that accurate and timely information is fed to the fund's proprietary algorithms.

  FINBOURNE's robust Identity and Access Management safeguards protect against unauthorised access and data leakage, ensuring the security of the fund's intellectual property.

- **PMS**
  Portfolio management capabilities that allow the fund's algorithms to automatically generate orders, perform pre-trade compliance checks, and conduct millisecond-level analysis of data.

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Why FINBOURNE Was Selected

FINBOURNE Team
Built by leading engineers, physicists, and data scientists with in-depth knowledge of quant funds, FINBOURNE's team instilled confidence in the Fund that any technical requirement could be met quickly and efficiently.

API-first Architecture
FINBOURNE's API-first design aligned perfectly with the fund's approach, ensuring seamless integration with its algorithms and technology stack while establishing the technical foundations needed for future advancements.

Data Virtualisation
The fund recognised that FINBOURNE's Luminesce data virtualisation platform, which enables real-time data retrieval and includes native data science and application development features, was a unique capability that competitors could not match.

Identity and Access Management
FINBOURNE's advanced identity and access management capabilities ensured that only the appropriate algorithms and individuals had access to sensitive data. This provided the fund with granular control over how portfolio information was accessed across different strategies.

Front-to-Back Capabilities
The ability to deliver both data management and portfolio management capabilities in a single platform allowed the fund to reduce reliance on multiple vendors.

Outstanding Security
FINBOURNE is fully cloud-based, with data encrypted at rest and in transit, certified by SOC 2 Type II and ISAE 3000.

The Outcome

Partnering with FINBOURNE enabled the Fund to launch their new venture without the need for an in-house build of investment operations infrastructure. This resulted in:

Efficiency and Automation
By automating much of the portfolio management and data management processes, the Fund could focus on developing and executing their investment strategies.

Scalability
FINBOURNE's platform provides the scalability needed to expand operations as the Fund grows, without the burden of fragmented technology solutions.

Cost Efficiency
FINBOURNE's competitive pricing offered more functionality at a lower cost compared to other vendors or developing the technology in-house.

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About

FINBOURNE's solutions deliver an interconnected network of functionality and data that enables the investment community to better serve clients in a constantly evolving market.

Its investment management solutions and cloud-native data management platform ensure that investment and operations teams can increase revenue, reduce costs, and better manage risk across the investment life cycle.

Get in touch

To discover more about FINBOURNE and learn how our solutions can drive growth, increase control and improve data access, contact us below

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