

## A Financial Services Use Case:

# Legacy Application Revitalization

Often, businesses are faced with a big challenge – either rewrite an existing application or significantly invest in new processing infrastructure to keep up with escalating volumes. Learn how this global firm leveraged the Pneuron platform to quickly restore business competitiveness by overcoming the performance, resiliency and accessibility challenges of a key analytical solution.

### The Problem

Possessing great analytics but a poor technology infrastructure, this financial institution's valuable analytical solution was failing under increasing volumes and analytical complexity. Performance was slow, inconsistent, and inefficient in servicing its expanding business customers. Millions had been spent on optimized databases and on-demand, Cloud-based capacity, but was still not providing the results they required to resolve performance, resiliency and availability bottlenecks.

Faced with an expensive and risky offshore application re-write to create a new solution that would incur the same issues in only a few years, and the need to invest in dedicated new hardware, the organization was looking at significant cost and a very long timeline to a successful solution. So they looked at Pneuron instead.

### The Solution

By encapsulating key elements of the analytics application in a “wrapper” Pneuron, the firm was able to convert its existing serial approach to a fully parallel model, making the solution instantly asynchronous and fully resilient – with no rewrite or refactoring, and no additional infrastructure or hardware.

### Summary of Challenges

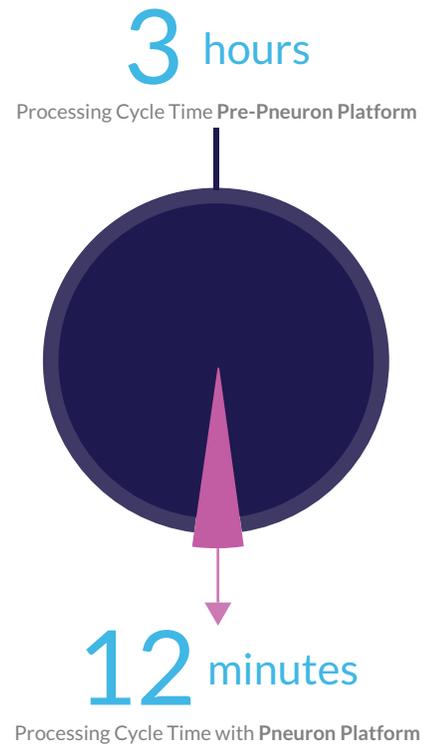
- Strong existing analytics solution, but its infrastructure was **failing under increasing volumes and analytical complexity.**
- **Incremental optimization efforts were costly** and still not resolving performance, resiliency, and availability bottlenecks.
- Traditional means of re-writing the solution came with **significant cost and time investments.**

Powered by the Cortex's dynamic distribution model, the application was able to complete end-to-end processing at full volume in only 12 minutes; a 90%+ reduction from the 3 hour processing times experienced pre-Pneuron. The entire project took just 12 weeks.

**Using the Pneuron platform, this financial services world leader was able to cut processing cycles from 3 hours to 12 minutes.**

## The Results

This application is now vertically and horizontally scalable without rewrite, new hardware or the millions of dollars that had been budgeted for the traditional approach they would have otherwise pursued. More excitingly, the application is now also a fully secure global service that can be linked with other pneurons and functions – making it more than just a great high-performance analytical application, but also an asset that can easily and quickly be an element of a new innovation, experiment, package, customer solution or even entire new operating model.



### The Pneuron Impact

In just 12 weeks, the application was able to complete end-to-end processing at full volume in 90%+ less time than pre-Pneuron.



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