

Modelling Accelerator

High Performance Financial, Risk & Catastrophe Modelling in the Cloud

fourTheorem

Business Challenge

Running financial, risk and catastrophe modelling workloads on-premises presents significant challenges, such as:

- Prolonged execution times
- Complex capacity planning
- A high total cost of ownership (TCO)
- Significant maintenance burden

Migrating to the cloud can be a daunting journey. *But what if you had a compass?*

How We Help

Our **Modelling Accelerator** provides a risk-free environment for workload evaluation against our cloud native modelling engine, providing solid performance metrics and cost insights.

The accelerator is a timeboxed program, suitable for those looking to move modelling workloads to cloud or looking to optimise existing cloud deployments.

How It Works



We begin with a **discovery workshop** to assess the suitability of the proposed workload and determine the scope of work, technical architecture, data security requirements, and KPIs.

During the **evaluation** phase, we migrate and modernise key elements of the workload, ensuring that the required KPIs, cost and scalability metrics are measured.

We produce an **analysis report** with the measured KPIs and a go-forward plan to move the workload fully to production. Post the accelerator, we support full modernisation through hands-on implementation, engine customisation, a flexible licence model and support plans.

Benefits



Unconstrained Parallel Execution

Remove resource contention issues and capacity planning.



Improved Rollup Efficiency, Elastic Scaling On Demand

Compute resource scales in line with business needs.



Reduced TCO

Transparent insights into costs; optimise price/performance and only pay for what you use. No servers to manage.



Dramatically Reduced Code & Infrastructure

Less code, fewer bugs, reduced maintenance overhead



Scale to Zero

Reduced run cost and carbon footprint by moving from always on grids to compute on demand.



Proven Results

Problem:

- Global risk analysis platform
- Legacy on-prem compute grid
- Contention and execution times constraining business growth

Outcomes:

- Significant performance boosts
- Delivered true horizontal scale
- TCO reduction
- Execution times cut by 90%
- Codebase reduction of 70%
- On-demand scaling
- Pay per use
- CO2 emissions cut in half
- Extended time horizon for modelling enabled

Get Started

To learn more about this offering and how to begin, contact

hello@fourtheorem.com



- Advanced Tier Services
- AWS Lambda Delivery
- AWS ECS Delivery
- Migration Services
- Serverless Hero