# Analytics Engines

our data solution connects over

# 20 BILLION DATAPOINTS

coriolis

**A CASE STUDY FOR CORIOLIS TECHNOLOGIES**

# Analytics Engines

DATA SOLUTIONS BEYOND THE ORDINARY.

## 'YOUR WINDOW ON THE TRADING WORLD'

## coriolis®

**Coriolis Technologies takes global trade and trade finance data and aggregates it in one place. Through its 'MultiLateral' platform, the company can extract clear and highly accurate values from raw trade data.**

### ADAPT AND EVOLVE

In February 2019, Analytics Engines was appointed to support the next phase of development for 'MultiLateral'.

The platform is designed to support customers interested in geopolitical risk, trade opportunities and macroeconomic factors. Customers for 'Multilateral' include banking, financial institutions and commodity traders.

But it can also assist small and large businesses – and many organisations that are not necessarily data driven – and help to inform investment decisions.

"We can provide insight and clarity for decisions to be made which maximise opportunities whilst also saving time and money," said Coriolis Technologies CEO, Dr Rebecca Harding.

### DATA VISUALISATION

Coriolis asked Analytics Engines to ingest and keep up-to-date trade data from the United Nations Comtrade Database and apply the proprietary Coriolis algorithms to enable increased accuracy.

"The main problem is that we needed to find a way to visualise various sources of data to ensure that it's consistent and harmonised," she said.

### IN-DEPTH ANALYSIS

Raw Comtrade data contains very large hierarchical datasets totalling many, many hundreds of gigabytes of integers - and it can also be incomplete.

Coriolis asked Analytics Engines to refine the raw historical data, supplement with the capture of new data as it comes in and to present a visualisation capability that enables end-users to isolate the specific data they need for in-depth analysis.

"By working with Analytics Engines, we have been able to meet the ambitions we hold for this product and meet the needs of our specific customer base," said Rebecca.

### TAILORING THE ARCHITECTURE

The engineering team's first task was to build infrastructure to ingest data and keep it suitably prepped for the application of Coriolis' refinement algorithms. The team ensured the process of extracting data, applying the algorithms and structuring the data was addressed effectively and at an early stage. Importantly, this enabled fast progress towards building an intuitive visualisation in collaboration with Coriolis.
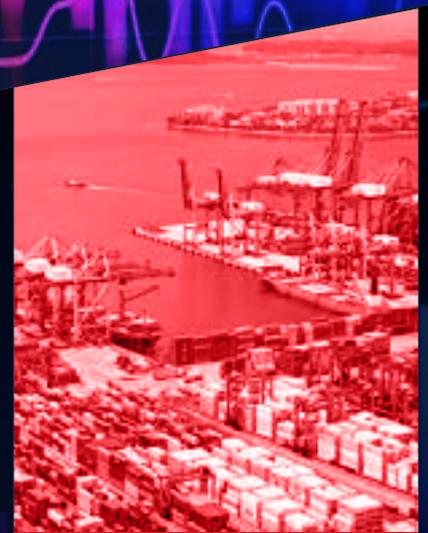
### TESTIMONIAL

"The biggest surprise about working with Analytics Engines is how the team incorporated new ideas and brought new approaches to the table.

"Across the company, people have been excited and enthusiastic, and have taken a personal interest in delivering great outcomes for our business.

"I would recommend Analytics Engines for its intellectual capacity and drive to move a project from the original vision through to new levels of potential.

"The team at Analytics Engines has more than exceeded expectations."

**Dr Rebecca Harding**

**CEO**
**Coriolis Technologies**

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## OPTIMISING PERFORMANCE

Some of the key challenges within the project lay in optimising performance of the refinement algorithm. The engineering team improved the debug cycle in order to faithfully implement the algorithms. The result is that Analytics Engines leveraged considerable performance improvements, not least reducing time taken to refine all of the data from weeks to hours.

The solution allows visualisations to be created in just a few seconds and delivers a rapid response to the user query. This means companies optimise the decision-making process and rapidly create tangible value.

## REDUCING COMPLEXITY

For Rebecca, Analytics Engines "understood the complexity of our problem and were able to break it down into addressable sections without compromising on our vision for the product".

"The team has a very can-do approach and clearly understood the concept of data-as-a-service. The conversations that we've had around the features and functionality of the platform have been both very stimulating and intellectually challenging. This allowed us to be more ambitious with the product and for our clients," she said.

## IMPACTS

The 'MultiLateral' project demonstrates a number of the key strengths of Analytics Engines, including:

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|---|---|
| **EXTRACT, TRANSFORM LOAD** | The team solved the technical challenges surrounding data processing, visualisations and the infrastructure requirements and discovery. |
| **VISUALISATIONS** | The team created a wizard which enables users to create a highly personalised, specific and insightful 'window on the world'. |
| **COLLABORATION** | The team worked very closely in conjunction with Coriolis throughout the R&D process. |
| **UX CAPABILITY** | The team moved beyond the technical features to properly understand the benefits to the end user. |

## ENDLESS POSSIBILITIES

"In effect, Coriolis and Analytics Engines have been operating as a single team. There is a high degree of R&D involved in the work that we're doing which requires a huge amount of exploration and trust. The result is that we're doing things in new ways and are breaking new ground.

"The biggest surprise about working with Analytics Engines is how the team incorporated new ideas and brought new approaches to the table. Across the company, people have been excited and enthusiastic, and have taken a personal interest in delivering great outcomes for our business."

**Dr Rebecca Harding**
**CEO, Coriolis Technologies**

## TALK TO US ABOUT YOUR DATA JOURNEY

At **Analytics Engines** we see data differently.

From your initial contact you will deal directly with the people who will solve your business challenge.

It all starts with a conversation. Talk to us today on:

T. **028 9066 9022** or **datajourneys@analyticsengines.com**

# Analytics Engines

## WHEN IT COMES TO YOUR DATA CAN YOU SEE THE WOOD FOR THE TREES?

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