



# RNA Analytics Technical Consulting Service

Simplifying the complexity of actuarial,  
regulatory and risk-based requirements.





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Delivering best of breed  
financial modelling tools  
which offer exceptional  
connectivity, automation  
and security



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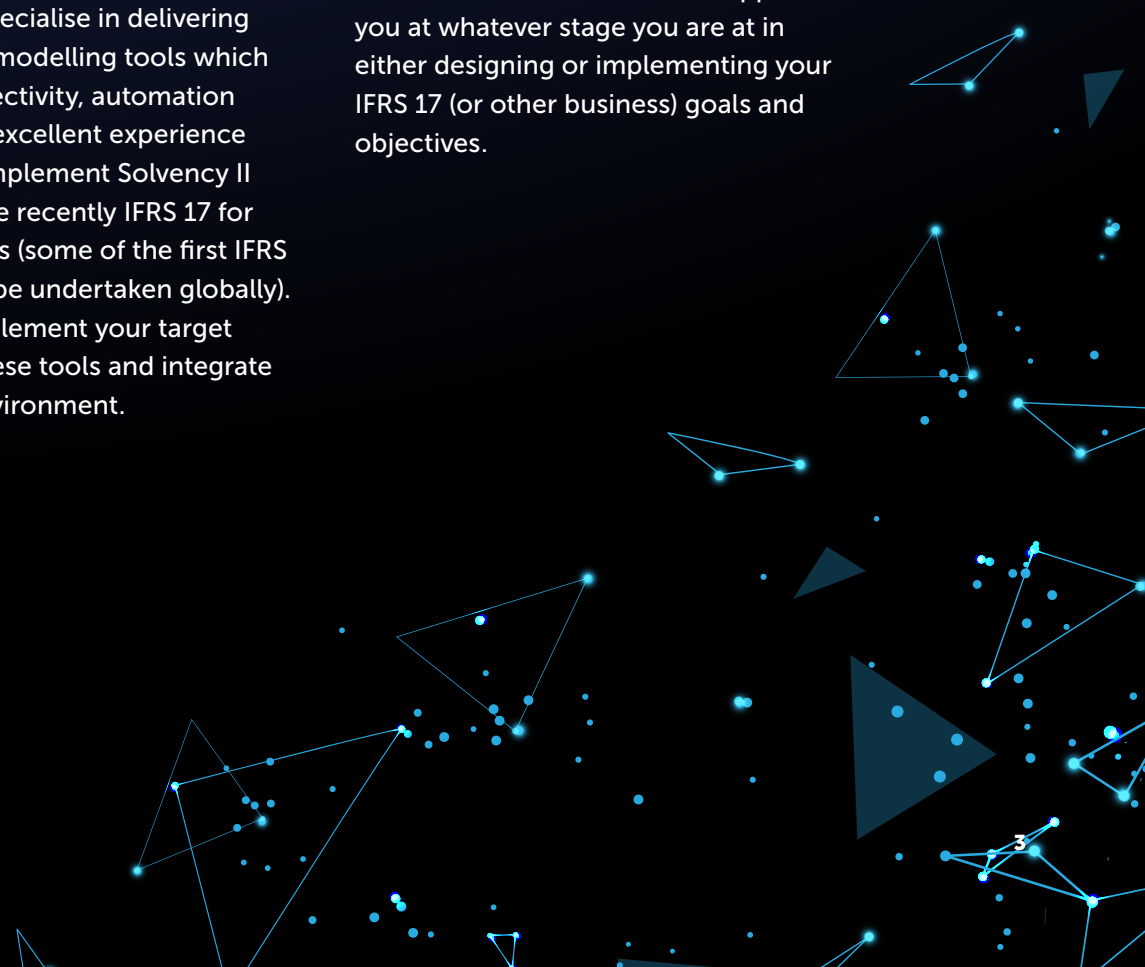
The current regulatory environment driven by the likes of Solvency II and IFRS 17 is creating a substantial impact on the IT infrastructure required to support the complex computations and results generated by these regimes.

For many companies, these changes have necessitated a substantial increase in costs/budgets required to manage the impact of the new regulations.

In addition to the obvious increased demands on infrastructure and hardware, the new regulations include a significant emphasis on strong governance including automation, traceability and security within the risk calculation environment,

At RNA Analytics, we specialise in delivering best of breed financial modelling tools which offer exceptional connectivity, automation and security. We have excellent experience in helping our clients implement Solvency II across Europe and more recently IFRS 17 for some very large insurers (some of the first IFRS 17 implementations to be undertaken globally). We can help you to implement your target operating model for these tools and integrate into your specific IT environment.

Our technical consulting team can take you through the solution design process including assessing the current IT environment and advise on its suitability to support the target solution. We can also offer several value-added services, which are detailed below, to support you at whatever stage you are at in either designing or implementing your IFRS 17 (or other business) goals and objectives.



# What does the RNA Analytics Technical Consulting Service cover?

## Solution Architecture

We can work with you to help design an overall solution around the R<sup>3</sup>S Suite according to your IT policies whilst maintaining compliance. The following diagram displays an architectural overview of RNA Analytics software and services

Designing the solution includes estimating and outlining several critical activities using all or part of our technical service offerings below:



## Compute hardware

The hardware used to run models can have a significant effect on their performance, so scaling the hardware to the model requirements is critical. Our actuarial consulting service will look at your models and inform our technical services to identify the CPU core and RAM requirements to support optimal calculation performance.

This is usually carried out in conjunction with the Model profiling for performance service as it can significantly impact the optimal hardware required by your models.

## Data storage

The volumes of data required to run models and output generated from them is increasing significantly as companies need to understand and analyse their results. The complexity of the data needing to be stored is also increasing with changes in regulations, such as IFRS 17, defining information and results that need to be maintained at more granular levels than previously.

We can work with you to estimate target storage requirements and help architect an optimal data structure strategy, including reviewing your existing storage solution and making recommended changes if required.

## Integration

A diverse range of source data and regulation driven results can necessitate multiple integrations.

RNA Analytics has the expertise to build, or advise on building, new ETL processes as required by solution architectures for a wide variety of source/destination file and database formats. In addition, we can review R<sup>3</sup>S models to potentially optimise external transformations as well as assess the suitability of current in-place processes for a target solution.

## Audit, Control and Security

A crucial aspect of any IT environment supporting the production of regulatory calculations is automation, security and traceability.

We can work with you to eliminate manual intervention in the production process, either using tools such as R<sup>3</sup>S Process Manager, R<sup>3</sup> Toolkit and ETLs or new R<sup>3</sup>S functionality such as Writing to databases. Those tools can also be secured for authorised roles and audited thereof.

## Reporting

Regulations, business analysis and decision making will likely have different requirements to understand model result data.

We can implement or advise on reporting strategies across a range of needs, from interactive analysis driven reports to enterprise wide static report serving, generated either on premise or in the cloud.

## Cloud

TAs part of the solution design process we can look at the viability of utilising cloud services to support some or all aspects of the target operating environment you wish to implement. This can range from utilising temporary “pay for what you use” compute capability and results held in a cloud-based data warehouse to a full cloud solution, consuming on-premise source data to produce cloud-based reporting.

## On-going management/maintenance

We can help you to put processes in place to make your actuarial modelling environment easier to maintain and manage in the future, both practically and from a cost/budget perspective. Built into a solution design can be estimates for current and likely future resource needs such as projected data storage growth and monitoring of system resource usage with a view to improving hardware resource configuration.

Additionally, we can help you to implement processes to manage the impact of new releases/upgrades and model changes, including implementing test environments.

## R<sup>3</sup>S Process Manager

We can assist to you to get the most out of your investment in R<sup>3</sup>S Process Manager. In particular, we can help you to implement a model governance framework within R<sup>3</sup>S Process Manager. Including:

- Designing model governance as part of the overall solution architecture
- Implementing and configuring R<sup>3</sup>S Process Manager
- Administrative user training and enablement
- Review of current R<sup>3</sup>S models to set up for use in R<sup>3</sup>S Process Manager

## Model profiling for performance

This service is aimed at improving the performance of existing models. This can be helpful for example, in ensuring existing cashflow models are fully optimised to support IFRS 17 calculations.

There is no guarantee the model efficiency will end in models with quicker runtimes but previous results from other client commissions have resulted in various degrees of efficiency ranging up to 75% improvements in run times with no changes to reported key values.

# Contact – contact details/ email address

If you would like more information on the services that our Technical Consulting team can provide, please send an email to: [consultingteam@rnaanalytics.com](mailto:consultingteam@rnaanalytics.com) and one of our consultants will get in touch to discuss your requirements.



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