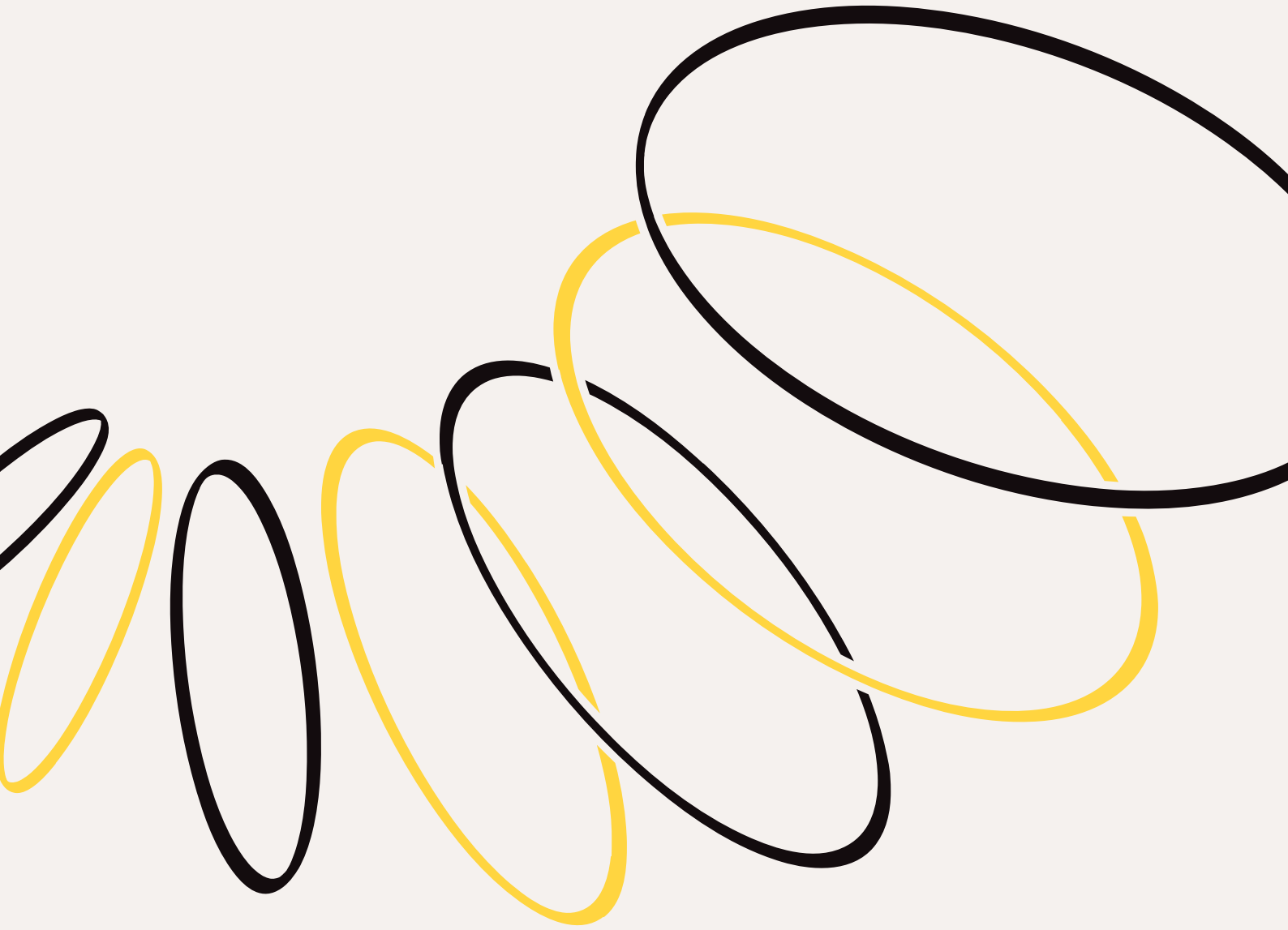


mantle®



# Mantle Actuarial

A powerful way to model

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# About Mantle

We are a pension software development business with a difference. Our solutions range from DB Administration platforms to actuarial and asset liability modelling.

Mantle is a relatively new product, with development starting in 2010. It was conceived to resolve a number of problems that beset how administration and actuarial services are delivered.

Whilst a relatively new entrant to the market we have strong credentials.

- In excess of 1.7m member records hosted.
- 1,200 schemes supported.
- 20,000 valuation runs monthly.
- £1bn of payments administered annually.

## Mantle clients include

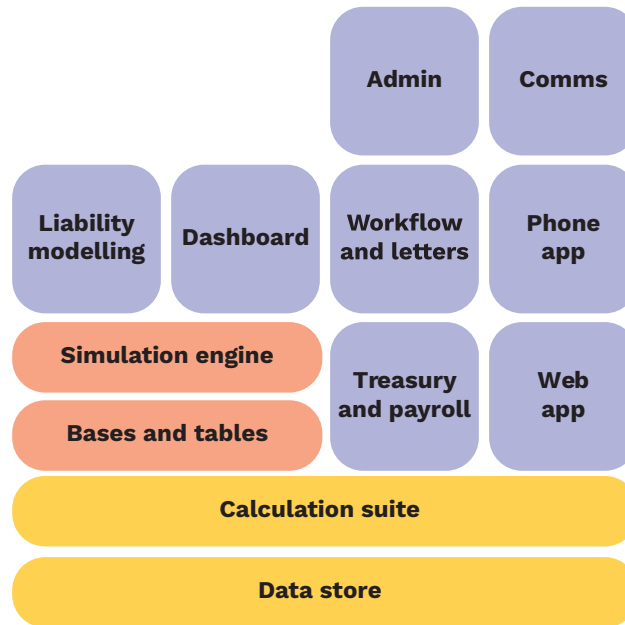
Mantle software is used by leading organisations including The Government Actuaries Department, to model billions of liabilities of the Public Sector Pension schemes.



## Mantle Solutions

Mantle is a cloud hosted solution, meaning it can be accessed from any modern web browser.

Mantle was conceived as an integrated DB administration and actuarial platform, but it can be deployed purely for administration, actuarial or both.



Data is securely hosted both with Amazon and Google using only UK data centres.

Target system availability is 99.9% during office hours.

Powerful computing is available to enable rapid calculations. For one client with 300,000 members a full run can be completed in just two hours.

100% benefit calculation automation is at the heart of mantle. There is no “black box” coding. If a calculation can be expressed it can be entered into Mantle. To illustrate, Mantle supports dual opposite sex records for GMPE and also allows for public sector McCloud calculations.

All calculations are fully visible on the platform enabling transparency and confidence.

[See it in action ▶](#)



# Actuarial

Mantle Actuary is a modern cloud hosted solution designed to help pension schemes and advisers understand the funding position, liabilities and much more.

Our solution derives outcomes from member level data or from cashflows loaded to the system.

## Valuations

Mantle uses a number of live investment feeds meaning it's possible to get a real time view of the scheme's funding position, at any time.

A detailed breakdown of results is available split by age.

Where the system is also used for administration, actuarial calculations flow from live member data.

A historic view of the scheme's position is also available showing liabilities and assets over time.

[See it in action](#) ▶

Mantle allows for adjustment of key metrics such as discount rates, inflation and life expectancy to show the impact on the funding position. This can be particularly useful when using with trustees or a sponsor.

## Employer client accounting

Mantle supports the FRS 102 accounting standard delivering a current and projected year end position. A prior year view is also available. The results are available graphically or in a tabular format.

## Individual member calculations

By setting up the benefit basis on Mantle, it's possible to run individual member calculations for schemes. Once the calculations have been set up in Mantle, it's possible to just refresh the underlying data to run further calculations. The nature of Mantle is such that the most complex calculations can be accommodated. The expression of a calculation is similar to what you would set up in a spreadsheet.

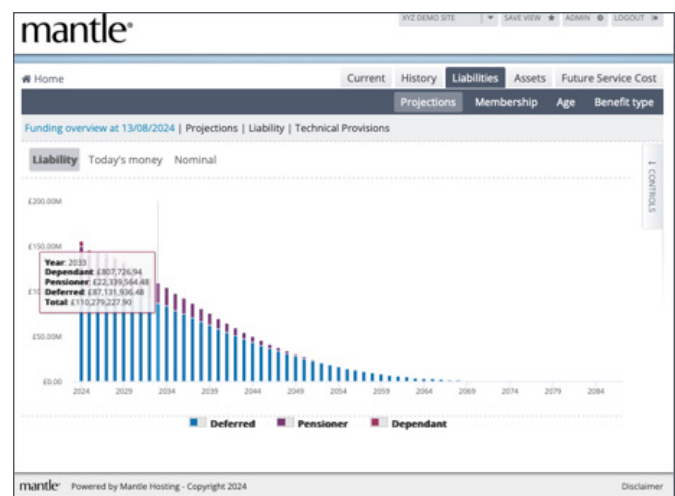
As well as benefit calculations Mantle can also serve up transfer values.

## Cashflow generation

Mantle can generate a range of cashflows including 3D. These are calculated against the benefit basis set up in mantle and the underlying data. They can be exported in a range of formats.

## Tables and factors

Mantle comes pre-loaded with comprehensive tables and indices. It's easy to upload custom tables and to add bespoke inflation factors.



**Asset liability modelling**

Mantle simplifies the portfolio testing process from over 800 trillion possible strategies to a manageable set of optimised strategies that aim to maximise the opportunity to successfully meet the scheme’s funding objectives.

Simple success and failure criteria enable the testing of multiple strategies in a measurable way. This helps to identify the likelihood of any given investment strategy in meeting the scheme’s objectives.

The risk management analysis contextualises the results of all the tested strategies and enables the individual strategies to be easily reviewed in relation to each other.

Value at risk is also available measured on a one year 5% and CVaR basis.

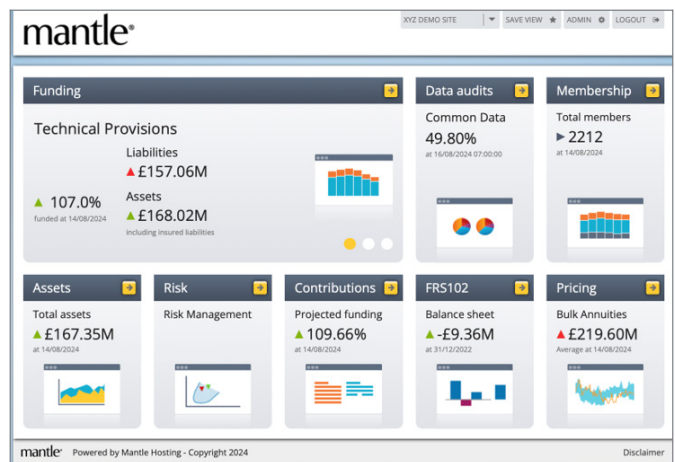
To use the ALM capability a separate licence is required from a suitable economic scenario generator such as Conning’s or Moody’s.

**Actuarial and administration**

Uniquely Mantle can run actuarial and ALM calculations from the live member data.

That’s because Mantle was designed as an integrated administration and actuarial platform. With live asset feeds its possible to get an up to the minute view of the plan’s position.

With this configuration theres no need to take data extracts to load to the actuarial system. Importantly as the underlying member data changes it’s automatically updated in the actuarial system. The added benefit of this unified approach is that only one benefit calculation setup is required whichpowers both the administration and actuarial calculations.



**Secure and reliable**

Mantle is hosted by Amazon Web Services and Google in the cloud. Having two hosting partnersmeans that even if one is impacted there is always a live version available.

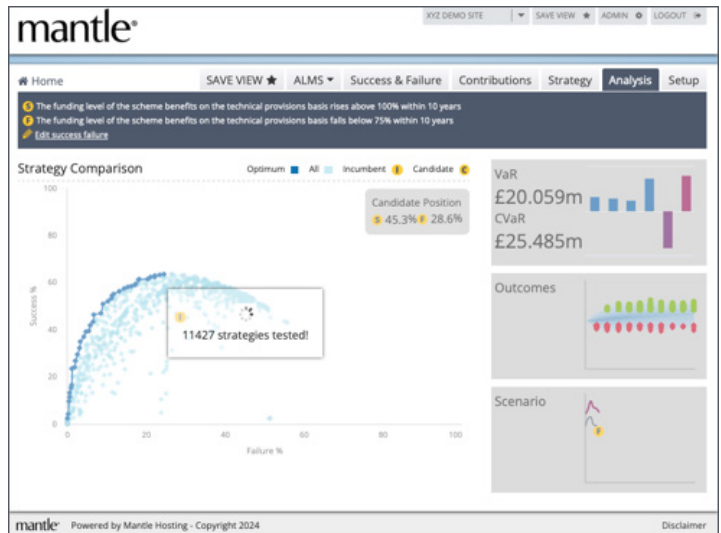
Cloud hosting also enables us to call on additional computing power as demand rises. That means you get your results when you need them.

Target system availability is 99% within office hours and this has been achieved over the last 12 months.



See it in action ▶

[Click here](#) to watch an in depth view of Mantle's capabilities



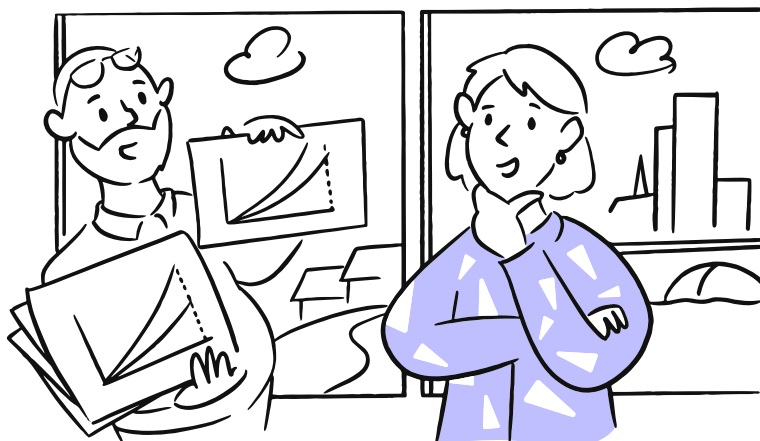
# Pricing

Mantle is priced based on elements deployed and usage subject to a minimum annual licence fee of £50,000.

The actual costs are derived from data storage and usage of the system which are a function of,

- Number of member records hosted.
- Number of calculations run from first principles, from member data.
- Number of calculations run from cashflows.
- ALM run usage.

If the ALM tool is to be used a separate licence for a suitable Economic Scenario Generator will be required.





# Training and support

Comprehensive training and support are available on a time cost basis. From supporting a similar size business to yours recently we delivered 5 days training at a cost of £12,000 plus VAT, excluding travel and accommodation. This got the users to competency and also supported the onboarding of a number of their clients to Mantle as part of the training process.

If you'd like further information on Mantle Actuary, contact us for further information at [enquiries@mantleservices.com](mailto:enquiries@mantleservices.com)





## Get in Touch

Linen Loft  
27-37 Adelaide Street  
Belfast  
BT2 8FE

46 New Broad Street  
London  
EC2M 1JH

[enquiries@mantleservices.com](mailto:enquiries@mantleservices.com)

[www.mantleservices.com](http://www.mantleservices.com)