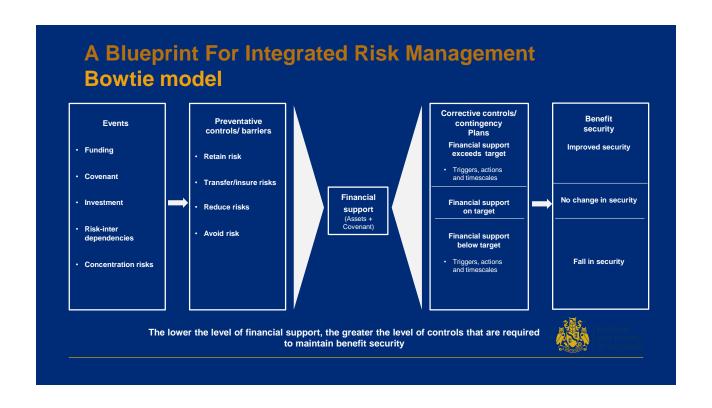


A Blueprint For Integrated Risk Management Introduction

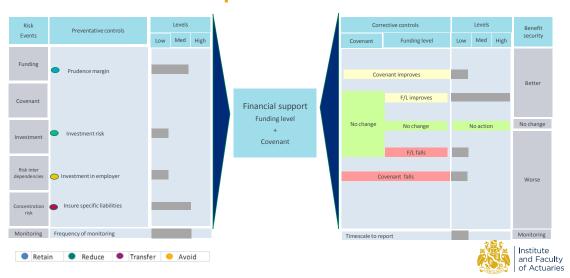
- The guidance on Integrated Risk Management is now over two years old but the profession has struggled to articulate a model to help trustees and employers to fully embrace it.
- The Risk Bowtie is risk management model that is widely used to provide a simple and intuitive way of visualising and managing risks.
- If widely adopted, this model could provide a common framework to be used trustees and employers in the financial management of schemes



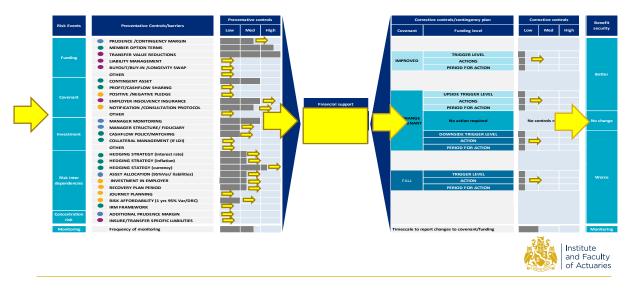
30 May 2018



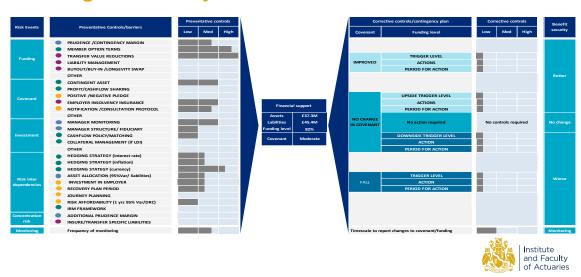
A Blueprint For Integrated Risk Management How would it work in practise



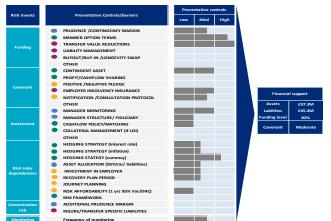
A Blueprint For Integrated Risk Management How would it work in practise



A Blueprint For Integrated Risk Management Funding Case study - 2015



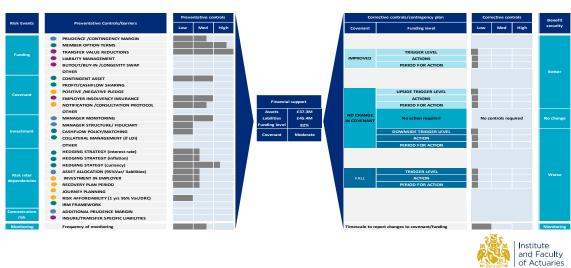
A Blueprint For Integrated Risk Management Funding Case study - 2015



- In this case study the controls are mostly at medium, except transfer value reductions, member options and currency hedging
- A key element in this scheme is the guarantee/contingent asset provided by the parent company which also provides insolvency insurance



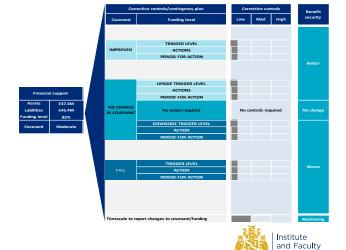
A Blueprint For Integrated Risk Management Funding Case study - 2015



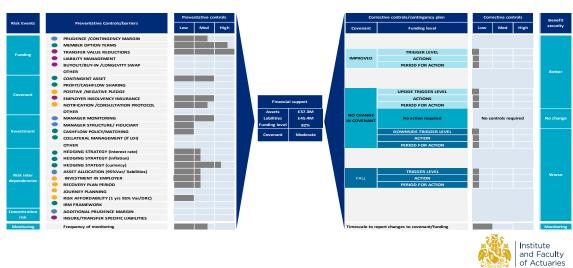
of Actuaries

A Blueprint For Integrated Risk Management Funding Case study - 2015

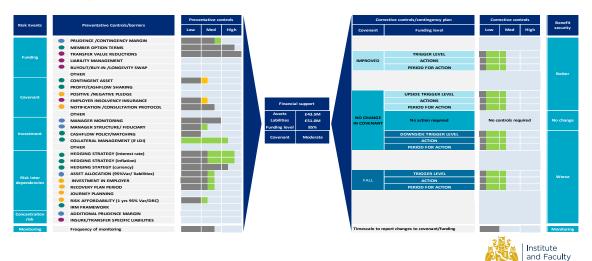
- On the contingency plan side, a much simpler picture!
- In this case there is no formal contingency plan. i.e. Controls are Low.
- This means any actions are agreed as/when required



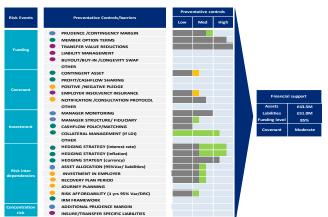
A Blueprint For Integrated Risk Management Funding Case study - 2015



A Blueprint For Integrated Risk Management Funding Case study – three years later 2018



A Blueprint For Integrated Risk Management Funding Case study – three years later 2018



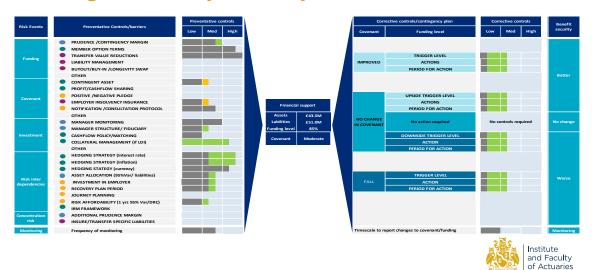
Frequency of monitoring

- Changes to investment strategy increased expected return and reduced var
- · Prudency margin improved
- · Investment risk reduced
- · Risk affordability improved
- Increase in hedging ratio reduced interest and inflation risk
- But new controls around collateral management required
- Increased diversification in manager structure



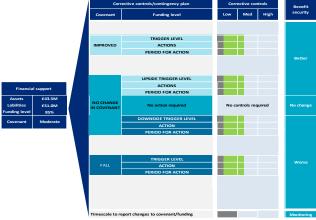
of Actuaries

A Blueprint For Integrated Risk Management Funding Case study – three years later 2018



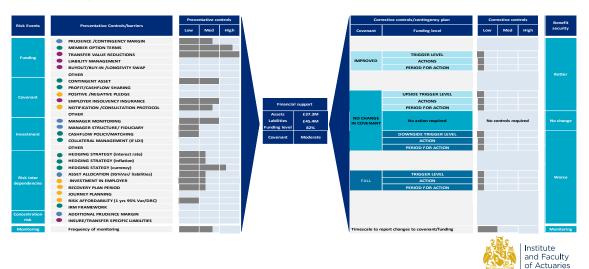
A Blueprint For Integrated Risk Management Funding Case study – three years later 2018

 Improvement on contingency planning to medium – triggers for action agreed but actions to be decided





A Blueprint For Integrated Risk Management Funding Case study – three years later 2018



A Blueprint For Integrated Risk Management Uses of bowtie



As a visual representation of IRM



To identify gaps in controls



As a way of summarising existing controls



As a model scheme to look at the impact of different economic scenarios

A Blueprint for integrated risk Management Why to use bow-tie model to explain IRM

- Visual
- · Simple and the flow from left to right is intuitive
- Summarises key controls on one page
- Stresses importance of security of member's benefits
- Emphasises the need for and balance between Preventative and Corrective controls
- Aligns pension scheme risk management with risk management generally
- If widely adopted this model could provide a common framework to be used trustees and employers in the financial management of schemes



30 May 2018