

### RAID database system specification and features overview

Designed to provide a simple and cost-effective way of centralising risk management and reporting, riskHive quickly and effectively imports, consolidates, and maintains your existing risk registers in a portfolio database allowing you to start generating information and reports straight away by importing current excel risk registers.



riskHive ERM brings together and consolidates RAID data and information from everywhere your business operates, securely incorporating and amalgamating both your organisation and its supply chain, instantly creating your whole risk universe.

### **ERM application System features**

- Manage risks, opportunities, issues, assumptions, benefits and more...
- Hyper-configurable user interfaces with user/project maturity alignment
- Configurable to reflect ISO, AU/NZ and COSO standards
- Project > Programme > Portfolio aggregation system
- Multiple hierarchical data organisation structures
- Simultaneous multiple languages and currencies
- · Qualitative and quantitative assessment and reporting
- NEC3 Trend (emerging risk) management process
- Fast and easy import / export of data and information
- Advanced interactive data graphics; bowties, wordclouds, map-views, radials, heatmaps and risk-radars
- Built-in Monte Carlo Simulation and Analysis for cost (CRA) and schedule (SRA) and combined cost & schedule analysis (JCSRA) – all at the click of a button, removing reliance on SMEs and making analysis accessible to all
- Linkable to BIM data and other third-party management systems



### ERM application Elemental diagram



### **ERM System specification**

- Industrial-strength professional database application
- 2048-bit data encryption and SSL TLS security
- Encryption of data at rest and in-transit
- Single sign-on (SSO) SAML2 multi-level and hybrid IP capability
- Super-secure cloud hosting or on-premises installation
- Browser-based application works with all platforms & browsers
- No client-side downloads, plug-ins or add-ins required
- High resilience, low data bandwidth, auto-archiving of data
- Triple-system deployment: Live, Staging and Training environments
- Supports 25 25,000 system users (<250 concurrent)</li>
- Super-fast deployment: ready for configuration in <48 hours</li>
- Application is 'white-labelled' and can be branded to client specification



### ERM application Features diagram



### Highly Configurable Editors and User Interface

One of the most configurable parts of the system available to Administrators, allowing the ability to create Custom Editors and User Interfaces.

**Custom Editors** – Enable System Administrators to determine what fields they wish to be shown and in what order. Editors can be combined to provide a user with a single editor to make risk updates quicker and easier.

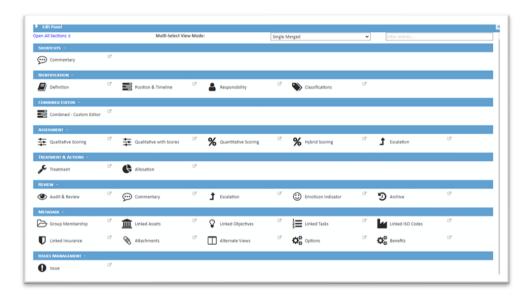
**User Interfaces** – Our out of the box provision of Basic, Standard and Intermediate User Views available, System Administrators can create unique editors that display exactly what the user needs, no more, no less, supporting users where they are at different levels of risk management understanding, or can be used as part of enhanced permission requirements.



A Basic User may only see the Editors below:



An Intermediate User may be given access to many more functions and features.



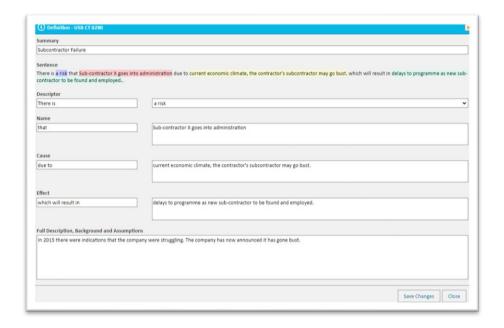
An example of a single editor for a Basic User - providing them with just the fields they need





#### Risk Wizard

Probably the hardest thing to get right is the articulation of the risks. Our risk wizard is designed to help users to build an accurate and informative description of the risk, its causes, and its effects.



### Global Navigator Map View

Displays projects overlaid onto their continental locations.

Click-through on continent to see projects by category and then select project to view in main system grid.





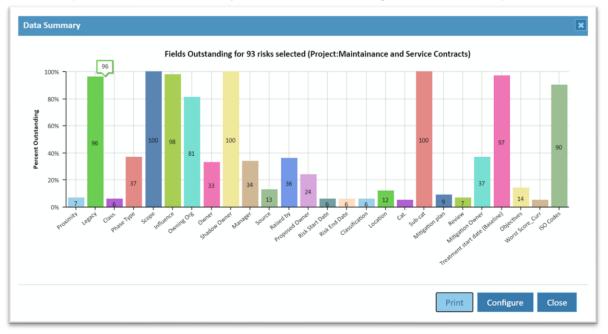
#### User Interface in over 70 National Languages & currencies

Designed to work with Google Translate extension, the application can be viewed in any one of 109 different languages (and counting). Trans-national users can view the same screen at the same time in their own national language and any local currency. Both the application controls and text-entry information are translated in real-time. Central management teams can view the whole portfolio in any currency of choice.



### Data Field Complete/Missing Identification

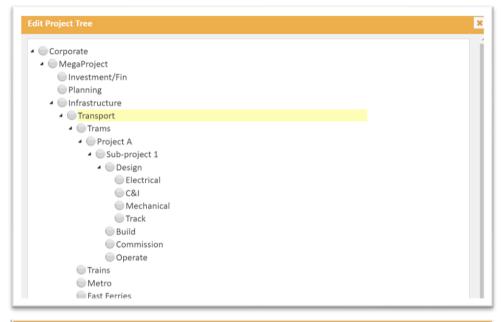
These reports generate histograms displaying mandated field titles and their degree of completeness or, conversely, the extent of missing data across the portfolio.

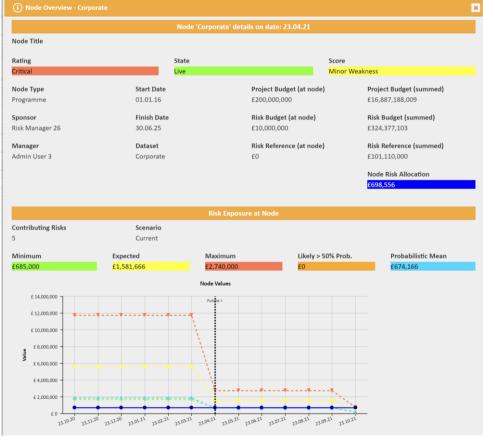




### Instant hierarchical risk portfolio aggralytics

Even with different risk register formats, currencies and scoring mechanisms being used across the organisation, ERM can homogenise and aggregate data and information into an instant portfolio – displaying your whole 'risk universe' at the click of a button. Search, filter and report in a live and agile way like never before and say goodbye to Excel<sup>®</sup>.

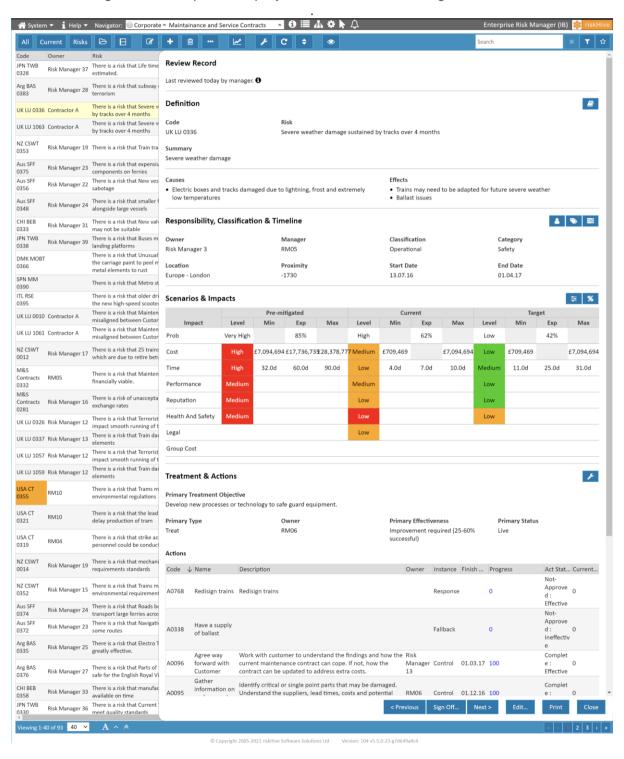






#### Risk Review Mode - made to make risk reviews easy

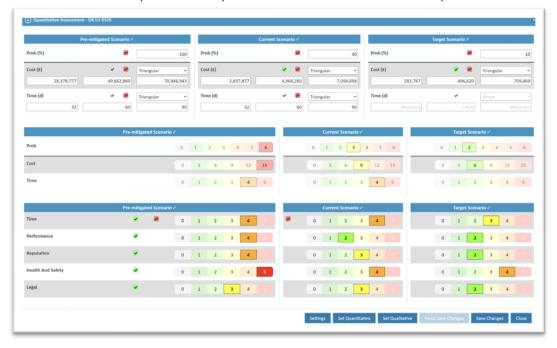
ERM supports workflow for interactive risk reviews. Using a split-screen approach, a list of risks - whether contained in a single project or a subset or superset from the whole portfolio - can be systematically reviewed, amended (with logs) and checked-off one-by-one. A configurable data panel displays detail with click-through to access data fields.





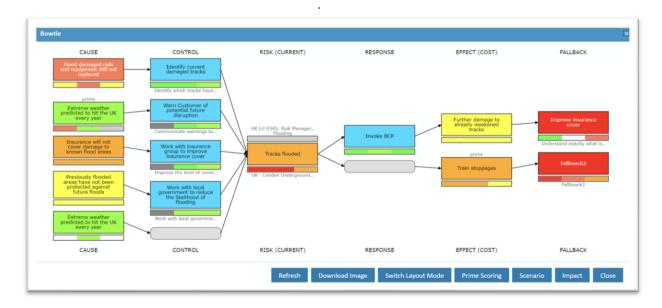
#### Custom Hybrid scoring mode

Facilitates a combination of quantitative and qualitative scoring on one screen. Enforce the use of quantitative data input where appropriate – the system automatically calculates the qualitative equivalent score so all the heatmaps still work.



#### **Bow-Tie Graphical Interface**

The interactive graphics of our Bowtie visualiser allow the user to define the threat-space more effectively by describing not just risk line items but multiple causes and effects, active controls, and fallback actions. The risk information in the database can be edited and added to using the graphical interface with all changes being committed back to the system database. Bowties can also be generated from multiple risks or word-searches.

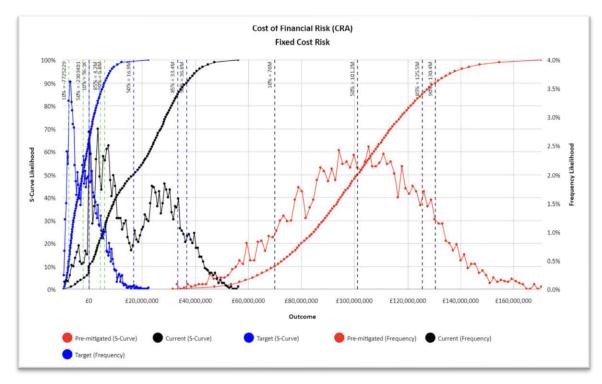


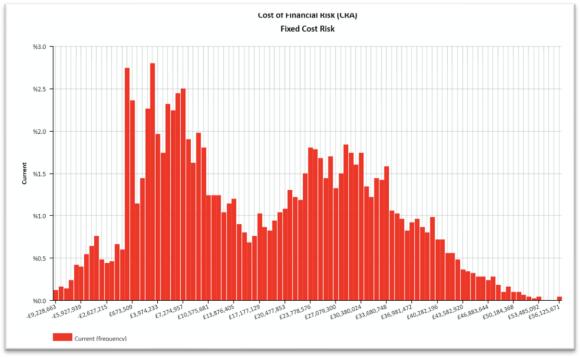


#### True Monte Carlo Simulation for Cost (CRA)

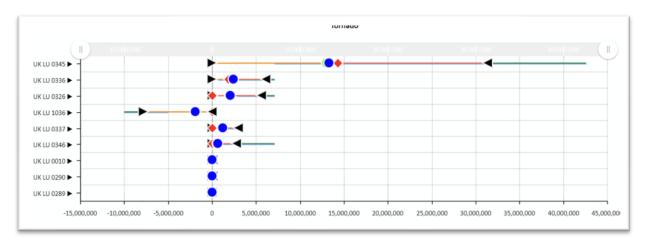
Online risk analysis of cost based on filtered and sorted data is as simple as clicking a mouse. Multiple scenarios such as Pre, Current and Post mitigation can be run simultaneously and compared side by side on a single graph or chart which is drillable. Standard outputs such as S-curves, histograms and cost-risk tornadoes are all easily produced for no additional effort and all data can be exported to Excel files. Analysis can even be aggregated through the hierarchical tree structure which gives statistically correct views at project, programme and portfolio level.

All simulations and results are archived and can be easily retrieved.



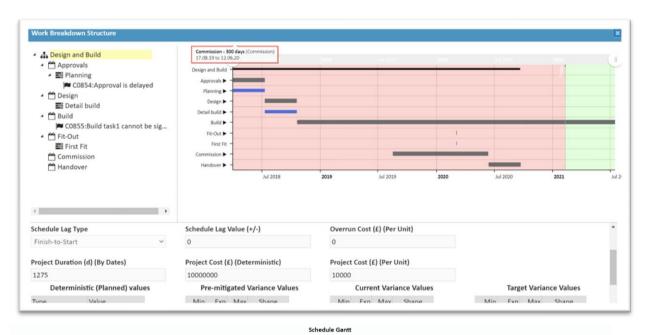


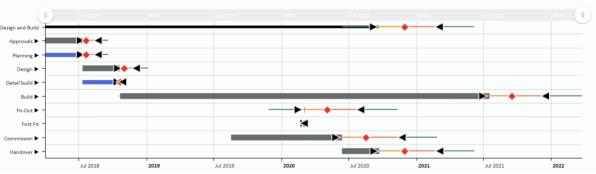




### Schedule Risk Analysis (SRA) including Cost (JCSRA)

Our built-in scheduler can be used to create nested schedules using the simple online interface without the need for external plans from P6 or Project if they do not exist, although they can be imported using simple file translation. Risks can be associated with tasks or phases and monte carlo analysis calculates the combined effect on cost from both cost and schedule extension perspectives, as well as durations and finish dates. S-curves, tornadoes and risk-adjusted Gantt charts advise the risk or project manager.







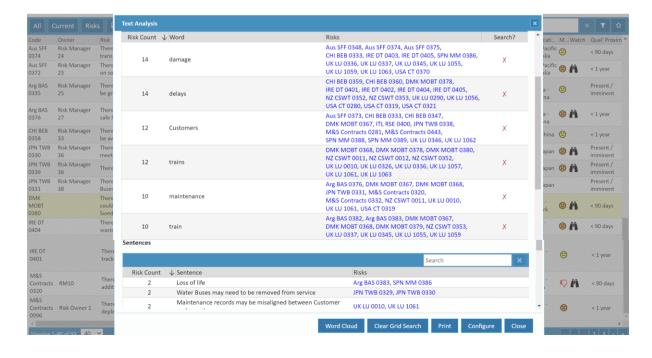
#### **Word Clouds**

Word clouds expose common themes and subjects by displaying the most frequently occurring words in the database. These can be filtered individually and composed of tile, cause, effect, or all description fields.



#### Duplicate / Common Risk / Sentence Finder

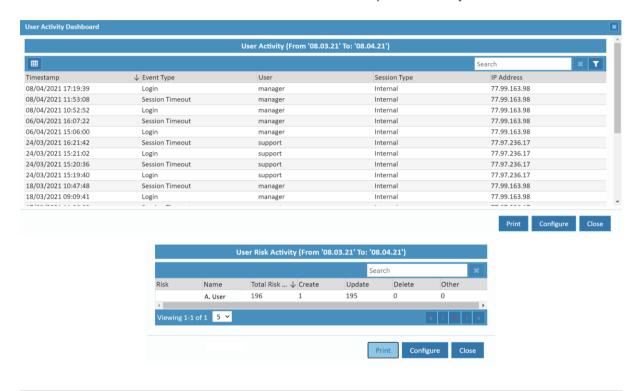
The system features an automated search facility to identify common words or even sentences within the database. All description fields may be interrogated and then applied as a filter to view in the main grid.





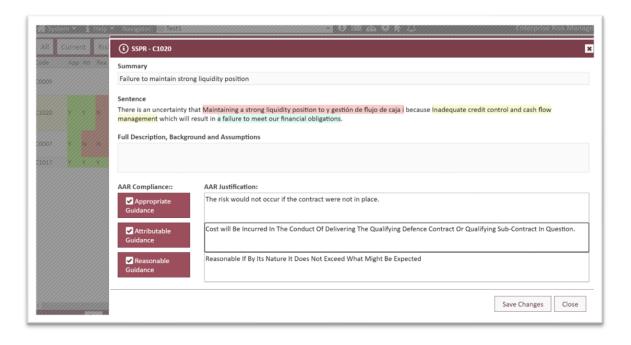
#### **User Access Logging & Activity Reports**

The system keeps track of users logging-in and logging-out and also records what they have done so activity can be viewed over time. This makes it simple to identify users with the most and least data update activity.



#### AAR Compliance (UK Single Source Pricing Regulation)

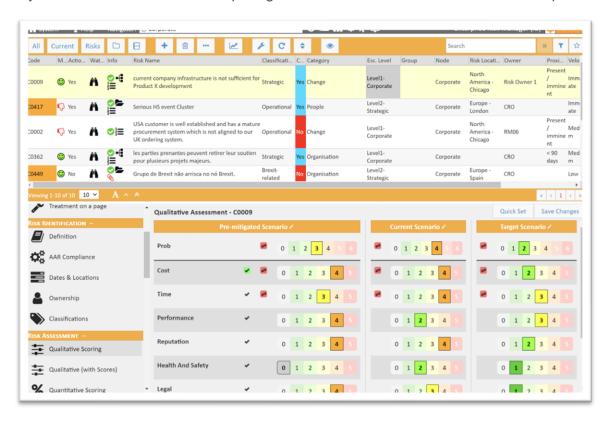
The system provides a facility for capturing AAR justification data for each risk (Appropriate, Attributable and Reasonable) and checkbox compliance status.





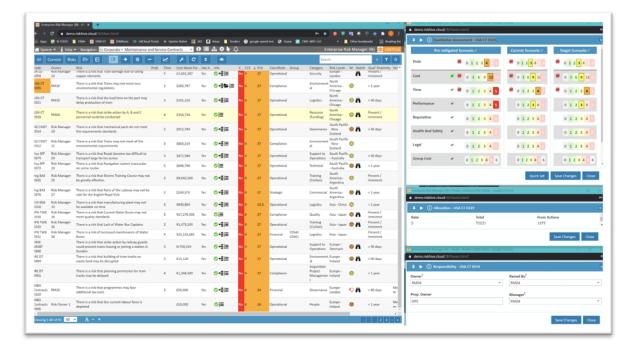
#### Inline risk editor

An inline editor function allows data entry and update of single or multiple risks at once. This interface also facilitates the side-by-side comparison of metadata for up to 5 risks at any one time – useful when comparing similar risks across the breadth of a risk portfolio.



#### Synchronous Multiple edit windows

Synchronised multiple windows allow an array of data entry and update screens to be viewed simultaneously, where you want to see multiple aspects of each risk all at once.





### **ERM Dashboards and reports**

### Risk Exposure Waterfall Chart

A fully user-configurable chart showing quantitative exposure and mitigation spend for all scenarios and levels within the nodal hierarchy, including node aggregation. Rebuild the chart on the fly with live-edit functionality.



#### Risk Summary Dashboard

A graphical view of the profile of risk by status, scoring level and classification with lists of Top 'n' risks by fiscal impact and by closest proximity to being active. Can aggregate from node and descendant nodes.





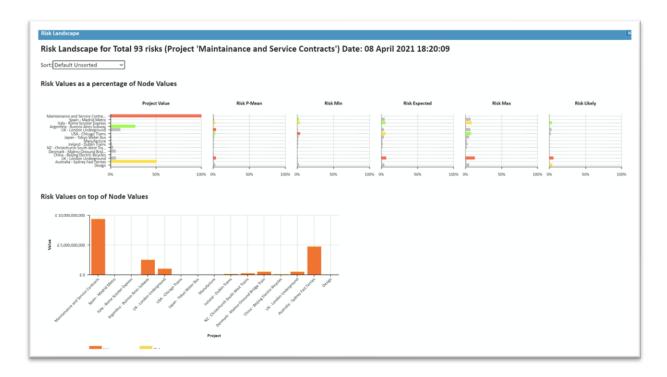
#### Risk Radar Gantt Chart

Risks and their associated actions are displayed in gantt format on a timeline that includes project or business phases and milestones, showing graphically when risk exposure and mitigation planning is active. The chart is interactive and clickable to edit risk or action dates or assessment parameters. Can be built from a whole portfolio.



### Risk Landscape Chart

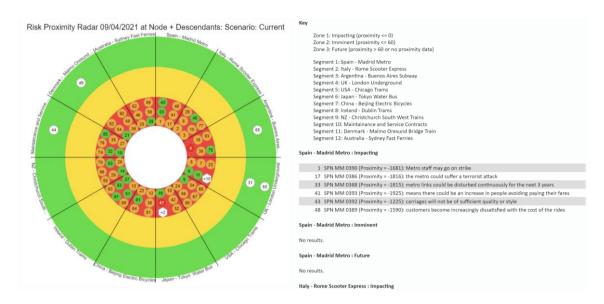
Get a graphical view of your risk landscape that shows you which projects or nodes are risk hotspots and see how peer-level projects compare with each other. Select from up to six different risk measurement parameters.





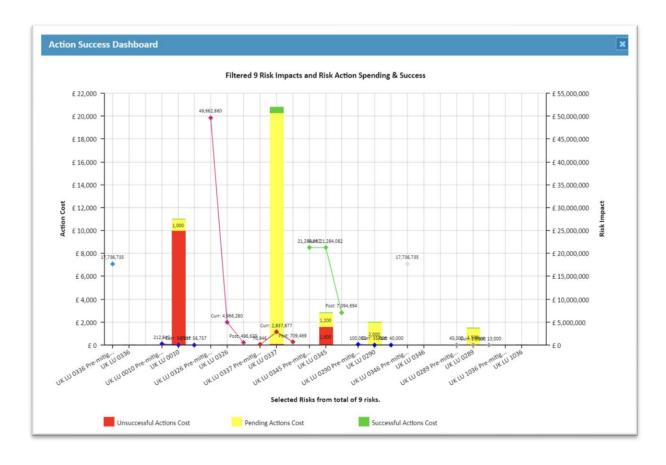
#### Risk Radar Radial Chart

Risks or project nodes displayed on a clickable radial 'bullseye' chart helps focus on the significant risks. Configurable using risk parameter selections.



#### Control Action Effectiveness Chart

Displays how much has been spent on actions that have been either successful or unsuccessful and indicates how much is left to spend on pending actions.





### **Risk Appetite Summary Heatmaps**

Display all PID heatmaps with their independent appetite articulation colours and scoring and drill-down to each individual heatmap to access any perspective and any risk.



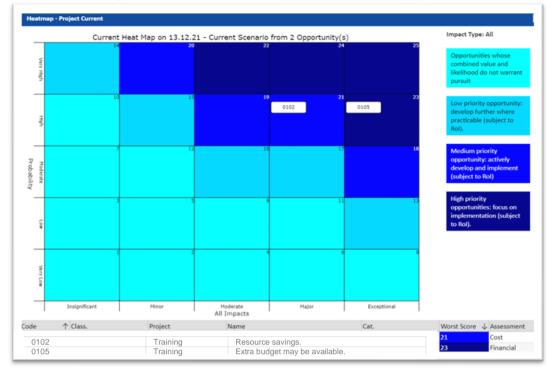
Click-through to generate familiar PID heatmaps for any scored impact type for any mitigation scenario. Another click-through takes you straight to the threat detail.



The heatmap can be configured to show the number of threats in each cell instead of threat references.



A heatmap can be generated for most records. Below is an Opportunities heatmap.

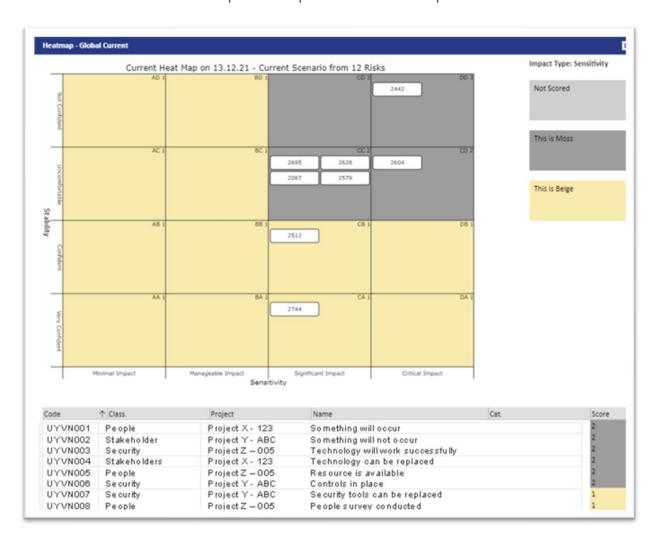


The heatmap colours adapt to relate to a threat, opportunity, issues or assumption. Equally heatmaps can be generated for Issues.





Or heatmaps can be produced for Assumptions.



As with the above, all heatmaps can be configured, in this case to a 4x4 matrix. Cell references, numbering and colours can be configured.



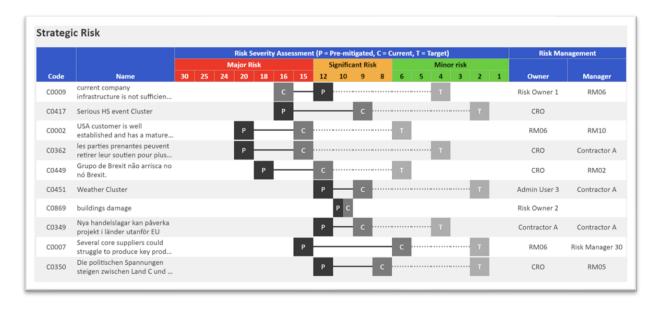
#### Risk Profile Chart

Understand the nature and distribution of risk types that your business is exposed to. This chart provides a summary of risks and a histogram of number of risks in each category plus the quantitative risk exposure for each category.



#### Risk Reliance Chart

Understanding the deltas between scenarios (e.g., Pre, Current and post) can help understand where the focus of effort needs to be applied to achieve target scores. The risks that have the biggest difference between the pre and post scores are the ones that are most reliant on the mitigation actions for effective risk management and those risks with the biggest deltas between current and post are where the most effort is needed.





#### **RIC-ROC Chart**

The UK MoD developed and uses a means of assessing and reporting fiscal risk which relies on the categorisation of risk being either inside or outside planned cost provision. Aside from the ability to improve risk allocation planning capability the balance of RIC (Risk Inside Cost) and ROC (Risk Outside Cost) is a good indicator of the degree of effectiveness of the overall risk management strategy and actions plan.

