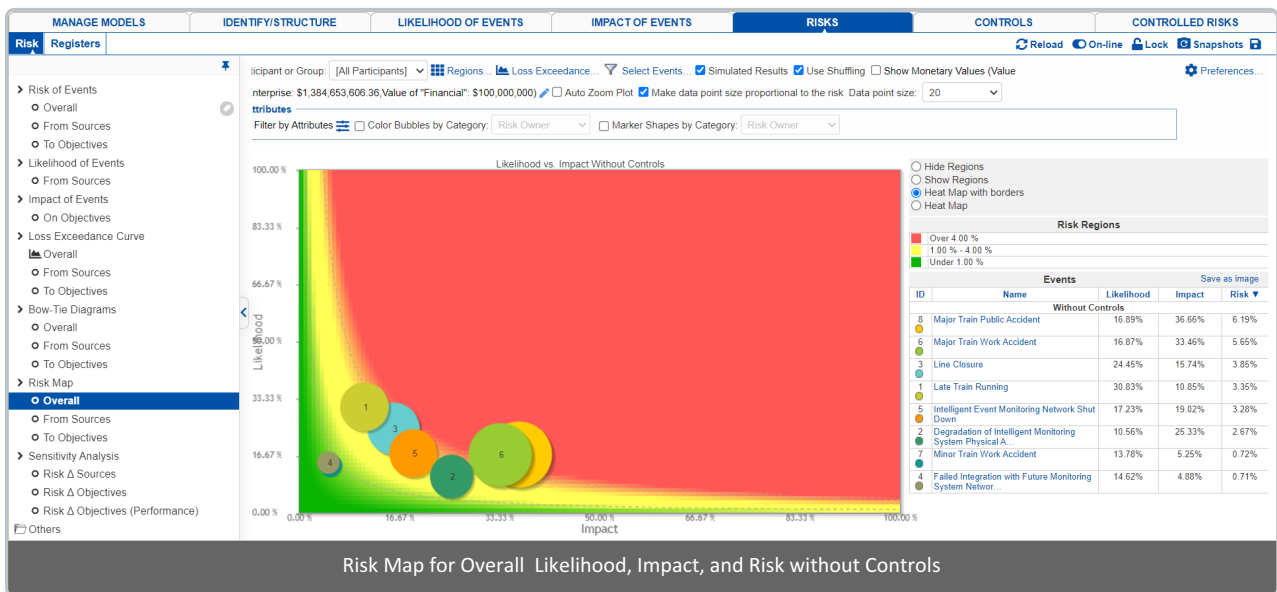# Risk Map Overall

Overview

Risk Map is a graphical visualization of the **events' risks** designed to illustrate the **likelihood of events** on one axis and the **impact of events** on the other.
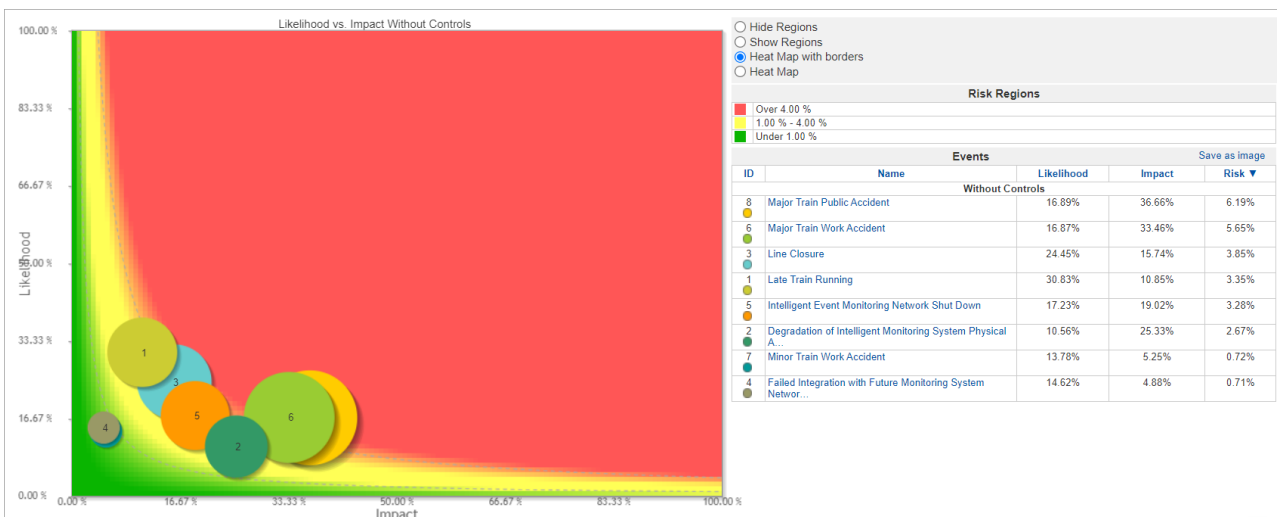
Here we see the Risk Map for **Overall Likelihood, Impact, and Risk without Controls.**

Risk Maps can also be From Sources or To Objectives.

Risk Map for Overall Likelihood, Impact, and Risk without Controls

The risk heat map is on the left, and the legend and grid showing the likelihoods, impacts, and risk are on the right side.

The **X-axis** represents the likelihood of events, and the **Y-axis** represents the impact of events (Note: You can interchange the axes from the Preferences)

The **bubbles** represent the **Events**. By default, the size of the bubble is proportional to the risk of the event. The biggest bubble size represents the largest risk and the smallest bubble size represents the smallest risk. All values in between are

sized proportionally in relation to the highest and lowest risk values. You can make all the bubble size the same by unchecking ☐ Make data point size proportional to the risk

Each event has unique bubble color which doesn't have any meaning. You can choose to color the bubbles based on Event Attributes.

Riskion provides the default risk map color based on the risk region. Red represents high-risk, green represents low-risk, yellow represents in between. You can modify the risk region color.

Hovering over an Event bubble will show the likelihood, impact, and risk of the event on a tooltip -- Additionally, it will highlight the corresponding risk region and the likelihood, impact, and risk of the hovered event on the grid at the right.
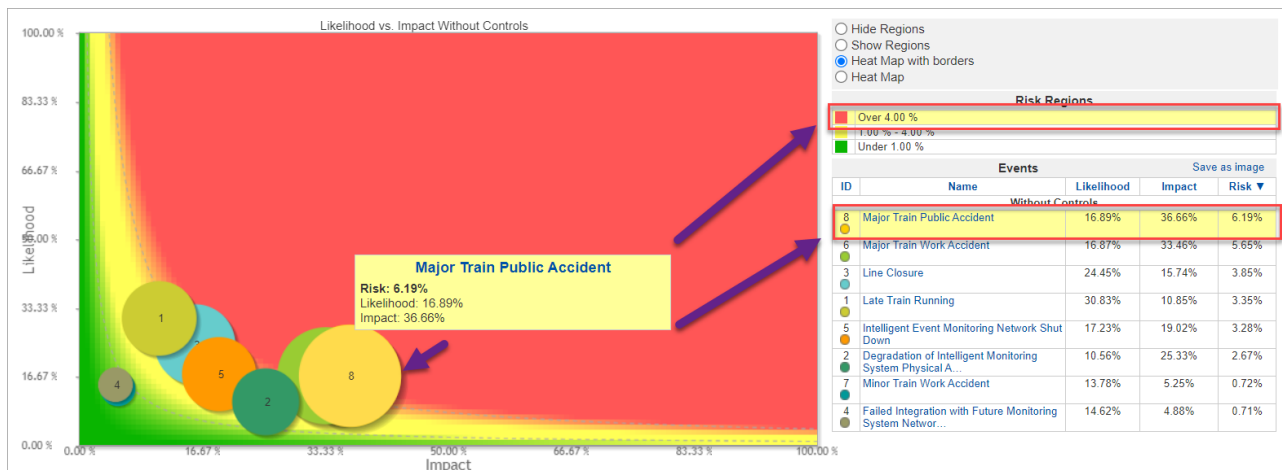
For the event "**Major Train Public Accident**" -- its likelihood, impact, and risk are 16.89%, 36.66%, 6.19% respectively -- the bubble is in the red or high-risk region.

Select Participant and Group

The results for the "All Participants" group are displayed by default as shown above.

By selecting from the participants and groups menu, you can also see the risk map for an individual participant or a group.

Participant or Group: [All Participants] ⌄ ⊞

[All Participants]

[C-Level Executives]

[Engineering]

_____

Denis Risman

Brian Quigley

Chief Risk Officer

Chief Engineering Officer

IT Supervisor

Chief Executive Officer

Devin Nagy

Michael Mankowski

John Doe

Project Manager

Control Expert

Risk Map Region

Default colors are already provided for the risk map region.

You can change this by clicking ⊞ Regions…

Here you can specify the limits: Rh (risk high) and Rl (risk low) both for percentage or monetary.

Given the limits, you can specify the 3 regions/colors:

- High Risk
- Mid (in-between) Risk
- Low Risk

The color specified here is used on the Event's color on the bow-tie diagram.

Risk Map with Event Attributes

When Event Attributes are defined in the model, additional options are available on the toolbar.

Here you can filter, color, and use shapes other than bubble based on the event attributes.

- **Filter by Attributes** - checking this option will filter the events on the risk map based on the conditions specified. You need to click to define the conditional statement for the attributes.

- **Color Bubbles by Category** - checking this allows you to select an event attribute in the dropdown. Selecting a category will have the event of the same attribute to have the same color.
- **Marker Shapes by Category** - similar to Color bubbles by category, but this option will have the events of the same attribute to have the same shape (instead of a bubble).

Show Monetary Values

Simulated vs Computed Event Likelihoods, Impacts, and Risks (Flaw of Averages)

Preferences