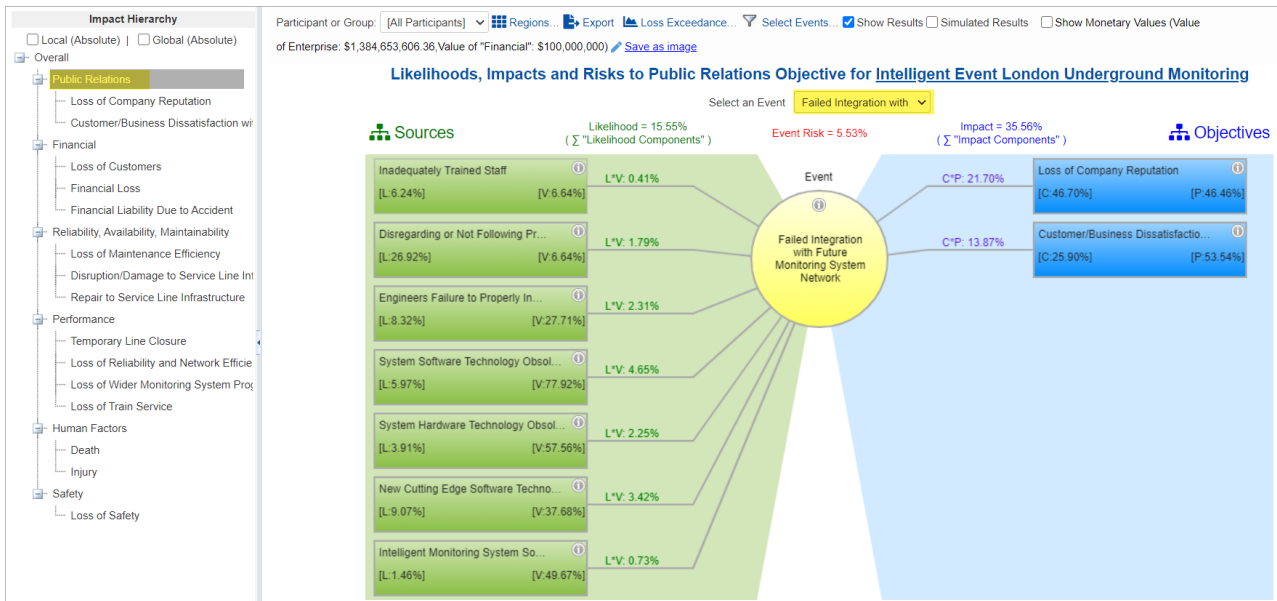


# Bow-Tie Diagram To Objectives

## Overview

This page displays the **Bow-tie diagram To specific Objectives**.

The bow-tie diagram of the Event "**Failed Integration with Failure Monitoring System Network**" to the objective "**Public Relations**" is displayed below.



The selected **Event** is displayed at the center of the diagram (circle). Its background color varies based on the event's %risk.

The **Sources** of the selected event are on the left side of the diagram (green boxes).

The **Objectives** of the selected Event are on the right (blue boxes).

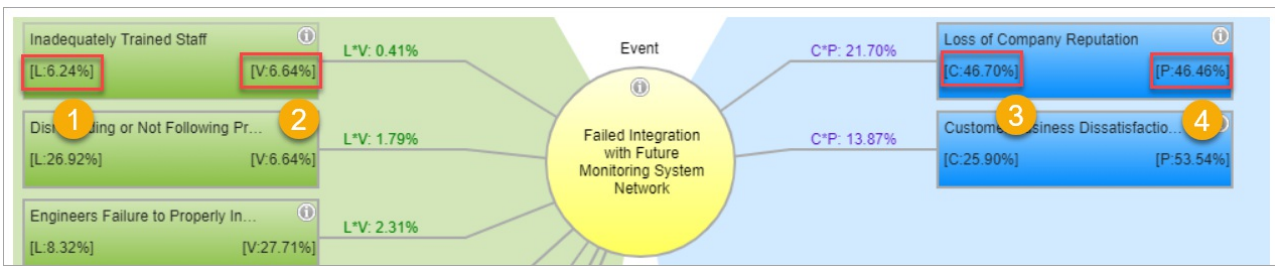
The Objective ("**Public Relations**") to which the event is being analyzed is selected from the **Impact Hierarchy** at the left.

You can also define and analyze controls in a [bow-tie diagram with controls](#).

You can view and analyze the following information:

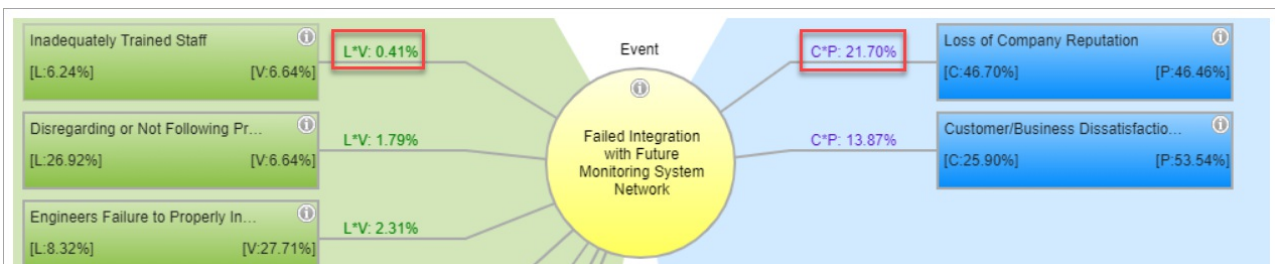
- L - Likelihood of Sources
- V - Vulnerabilities of events to sources
- C - Consequences of Events on Objectives
- P - Priority of Events on Objectives

Focusing on the first source and objective on the diagram:



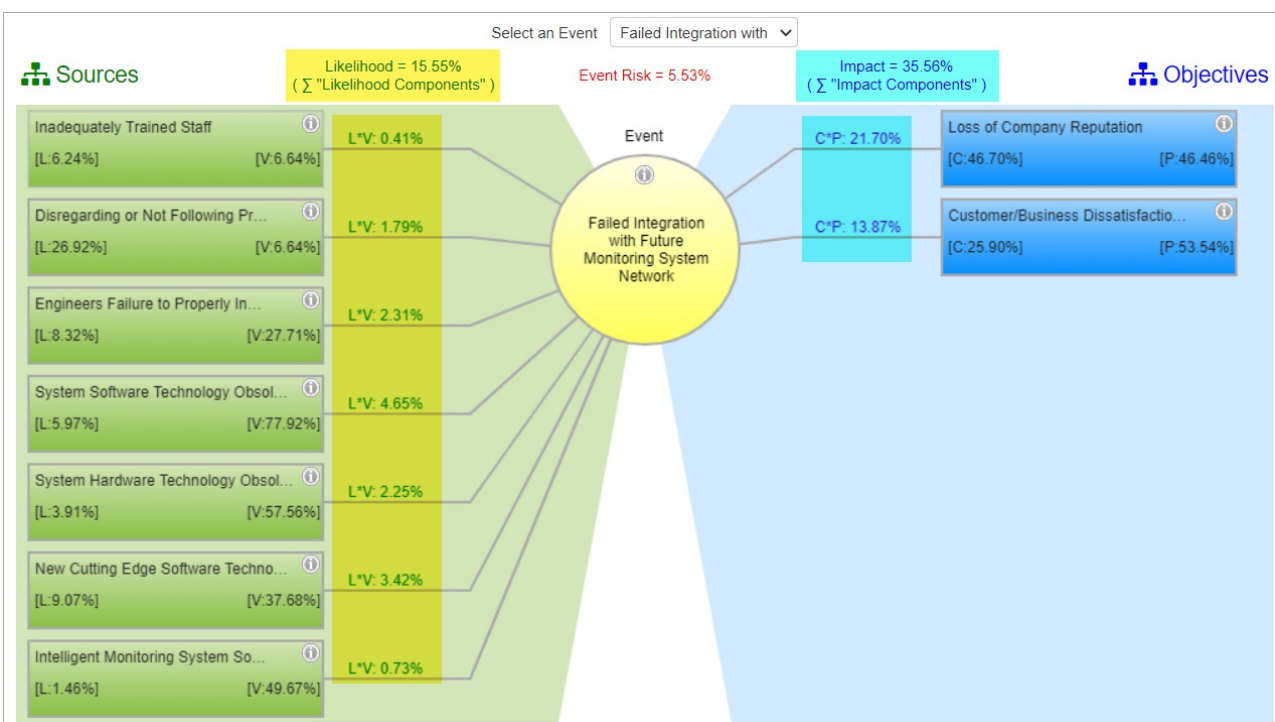
1. The Likelihood (L) of the Source "Inadequate Trained Staff" is **6.24%**
2. The Vulnerability (V) of the Event "Failed Integration with Future Monitoring System Network" from source "Inadequately Trained Staff" is **6.64%**
3. The Consequence (C) of the Event "Failed Integration with Future Monitoring System Network" on the Objective "Loss of Company Reputation" is **46.70%**
4. The Priority (P) of Objective "Loss of Company Reputation" wrt the objective "Public Relations" is **46.46%**

The Likelihood of the event to a given source (L\*V), and the Impact of the event (C\*P) on a given objective are shown on the connecting lines to the source/objective boxes:



- The Likelihood of the Event "Failed Integration with Future Monitoring System Network" to the source "Inadequately Trained Staff" is **0.41%**
- The Impact of the Event "Failed Integration with Future Monitoring System Network" on the Objective "Loss of Company Reputation" wrt "Public Relations" is **2.0%**

The summation of ( $\sum$  "L\*V") event's likelihoods from each event is the Likelihood of the Event, and the summation ( $\sum$  "C\*P") event's impact on each objective is the Impact of the Event -- given the selected source.

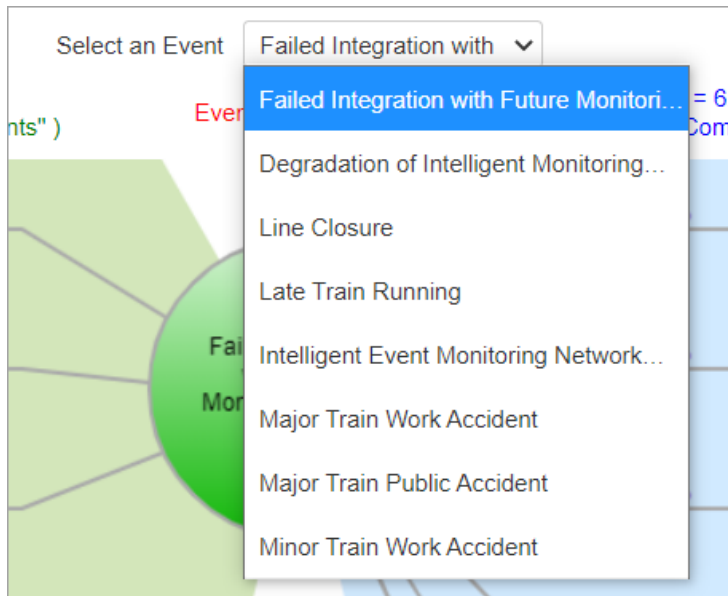


The event "Failed Integration with Future Monitoring System Network" has Likelihood and Impact wrt to objective "Public Relations" **15.55%** and **35.56%** respectively.

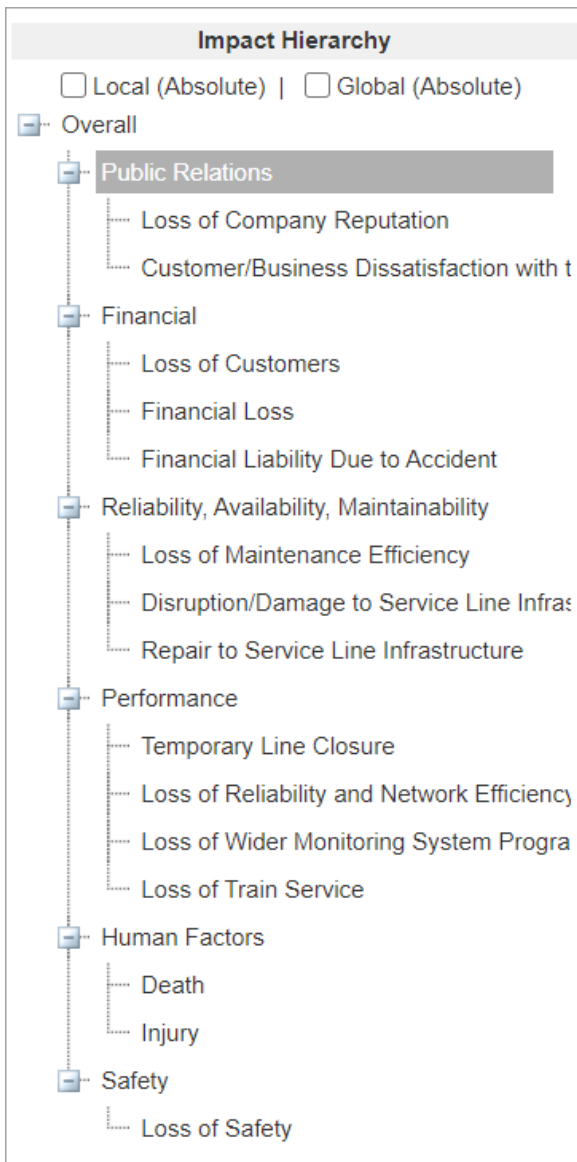
The Event's risk is then computed by Likelihood \* Impact:

$$15.55\% * 35.56\% = \mathbf{5.53\%} \text{ (as shown at the top of the Event)}$$

You can select another Event to analyze from the Events list pulldown at the top:




and you can select the wrt objective by clicking a node from the Impact Hierarchy at the left:




## Select Participant or Group

The bow-tie for the "All Participants" group is displayed by default. By selecting from the "Participants and Groups" dropdown, you can display the bow-tie analysis for another participants or group:

Participant or Group: [All Participants] 

Show Monetary Value: [All Participants]

 Sources

Inadequately Trained [L:6.24%]	Denis Risman
Disregarding or Not [L:26.92%]	Brian Quigley
Engineers Failure to [L:8.32%]	Chief Risk Officer
System Software Te [L:5.97%]	Chief Engineering Officer
System Hardware Te	IT Supervisor
	Chief Executive Officer
	Devin Nagy
	Michael Mankowski
	John Doe

## Define Event Color (Region)

Default colors are already provided for the events on the diagram based on the event's %risk.

You can change this by clicking 

Participant or Group: [All Participants] **Regions...** Export Loss Exceedance... Select Events

Values (Value of Enterprise: \$1,384,653,606.56, Value of "Financial": \$100,000,000) [Save as image](#)

**Regions Editor**

Settings:

If Risk > Rh  #FF5656

If Risk <= Rh and >= RI  #FFFF56

If Risk < RI  #09B500

Percentage  Monetary Value

Rh (%) =

RI (%) =

Here you can specify the limits: Rh (risk high) and RI (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

## Export Bow-tie to Excel or Image Format

Click [Export](#) to export the bowtie into a .xlsx file.

Click [Save as image](#) link to download the diagram as an image file (.jpeg)

## Show Monetary Values

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

## Preferences

