

Risk of Events To Objectives with Controls

Overview

This page displays a similar grid as with the **Risk of Events To Objectives** (without controls), but with added columns for results when Controls are in effect.

The Likelihoods, Impacts, and Risks of the events To Objective "**Public Relations**" without and with controls are displayed below:

MANAGE MODELS		IDENTIFY/STRUCTURE		LIKELIHOOD OF EVENTS		IMPACT OF EVENTS		RISKS		CONTROLS		CONTROLLED RISKS	
Likelihood, Impact, and Risk to Objective (With Controls) for Intelligent Event London Underground Monitoring Selected controls: 13 Cost Of Selected Controls: \$98,200 (unfunded: \$51,604,000) Total Cost Of All Controls: \$51,702,200 How Selected: Optimized with budget of \$100,000													
Objective Name: Public Relations													
I. ↑	Color	Event Name	All Participants										
			W.O. Controls			With Controls							
			Likelihood	Impact	Risk	Likelihood	Impact	Risk					
1	●	Late Train Running	35.48%	36.14%	12.82%	8.81%	36.14%	3.18%					
3	●	Line Closure	27.22%	55.05%	14.99%	6.44%	55.05%	3.55%					
4	●	Failed Integration with Future Monitoring System Network	15.55%	35.56%	5.53%	10.11%	35.56%	3.59%					
5	●	Intelligent Event Monitoring Network Shut Down	18.55%	16.73%	3.10%	4.05%	16.73%	0.68%					
6	●	Major Train Work Accident	17.64%	25.83%	4.56%	1.41%	6.46%	0.09%					
7	●	Minor Train Work Accident	14.67%	0.00%	0.00%	1.35%	0.00%	0.00%					
8	●	Major Train Public Accident	17.69%	61.87%	10.94%	1.44%	1.44%	0.02%					
Total Risk:			51.94%			11.11%							

The combined results for "**All Participants**" are displayed by default. The W.O. (without) Controls and With Controls are displayed below the "All Participants" column heading.

I. ↑	Color	Event Name	All Participants					
			W.O. Controls			With Controls		
			Likelihood	Impact	Risk	Likelihood	Impact	Risk
1	●	Late Train Running	35.48%	36.14%	12.82%	8.81%	36.14%	3.18%
3	●	Line Closure	27.22%	55.05%	14.99%	6.44%	55.05%	3.55%
4	●	Failed Integration with Future Monitoring System Network	15.55%	35.56%	5.53%	10.11%	35.56%	3.59%
5	●	Intelligent Event Monitoring Network Shut Down	18.55%	16.73%	3.10%	4.05%	16.73%	0.68%
6	●	Major Train Work Accident	17.64%	25.83%	4.56%	1.41%	6.46%	0.09%
7	●	Minor Train Work Accident	14.67%	0.00%	0.00%	1.35%	0.00%	0.00%
8	●	Major Train Public Accident	17.69%	61.87%	10.94%	1.44%	1.44%	0.02%
Total Risk:			51.94%			11.11%		

An Objective is selected from the Objectives Hierarchy at the left.


Objective Name	↑	Co...	Event Name	All Participants					
				W.O. Controls			With Controls		
				Likelihood	Impact	Risk	Likelihood	Impact	Risk
Public Relations	1	●	Late Train Running	35.48%	36.14%	12.82%	8.81%	36.14%	3.18%
Loss of Company Reputation	3	●	Line Closure	27.22%	55.05%	14.99%	6.44%	55.05%	3.55%
Customer/Business Dissatisfaction w Financial	4	●	Failed Integration with Future Monitoring System Network	15.55%	35.56%	5.53%	10.11%	35.56%	3.59%
Loss of Customers	5	●	Intelligent Event Monitoring Network Shut Down	18.55%	16.73%	3.10%	4.05%	16.73%	0.68%
Financial Loss	6	●	Major Train Work Accident	17.64%	25.83%	4.56%	1.41%	6.46%	0.09%
Financial Liability Due to Accident	7	●	Minor Train Work Accident	14.67%	0.00%	0.00%	1.35%	0.00%	0.00%
Reliability, Availability, Maintainability	8	●	Major Train Public Accident	17.69%	61.87%	10.94%	1.44%	1.44%	0.02%

You can also select the top node "Objectives" which will show the same results as with the Overall Risk Results page.

The Events on the grid may vary depending on the contributions of the events given the selected objective.

Select Participants and Groups

By default, the results shown are for the "All Participants" group.

By selecting from the  "Participants and Groups" icon, you can display the results for other participants or groups.

Participants and Groups

Search:

Participant Name	Email Address	Has data?	Group name	Has data?	Select all users with data	
<input type="checkbox"/>	Brian Quigley	quigleybf@gwu.edu	<input checked="" type="checkbox"/>	All Participants	Yes	<input type="checkbox"/>
<input type="checkbox"/>	Chief Engineering Officer	ceo@gwu.edu	<input type="checkbox"/>	C-Level Executives	Yes	<input type="checkbox"/>
<input type="checkbox"/>	Chief Executive Officer	che@gwu.edu	<input type="checkbox"/>	Engineering	Yes	<input type="checkbox"/>
<input type="checkbox"/>	Chief Risk Officer	cro@gwu.edu				
<input type="checkbox"/>	Denis Risman	denisrisman@gwu.edu				
<input type="checkbox"/>	Devin Nagy	devinnagy@gwu.edu				
<input type="checkbox"/>	Grace	grace@eci.com				
<input type="checkbox"/>	IT Supervisor	its@gwu.edu				
<input type="checkbox"/>	James	james@eci.com				
<input type="checkbox"/>	John Doe	j.doe@eci.com				
<input type="checkbox"/>	Michael Mankowski	mmankowski@gwu.edu				

Select all | Deselect all

After selecting participants and groups to display, click OK.

Objective Name	I.	↑	Color	Event Name	All Participants						Chief Engineering Officer					
					W.O. Controls			With Controls			W.O. Controls			With Controls		
					Likelihood	Impact	Risk	Likelihood	Impact	Risk	Likelihood	Impact	Risk	Likelihood	Impact	Risk
Public Relations	1	●	Late Train Running	35.48%	36.14%	12.82%	8.81%	36.14%	3.18%	12.40%	41.38%	5.13%	4.19%	41.38%	1.73%	
Loss of Company Reputation	3	●	Line Closure	27.22%	55.05%	14.99%	6.44%	55.05%	3.55%	9.14%	51.15%	4.68%	3.16%	51.15%	1.61%	
Customer/Business Dissatisfaction w Financial	4	●	Failed Integration with Future Monitoring System Network	15.55%	35.56%	5.53%	10.11%	35.56%	3.59%	11.10%	36.30%	4.03%	8.76%	36.30%	3.18%	
Loss of Customers	5	●	Intelligent Event Monitoring Network Shut Down	18.55%	16.73%	3.10%	4.05%	16.73%	0.68%	3.93%	18.00%	0.71%	2.82%	18.00%	0.51%	
Financial Loss	6	●	Major Train Work Accident	17.64%	25.83%	4.56%	1.41%	6.46%	0.09%	7.74%	27.00%	2.15%	0.84%	6.95%	0.06%	
Financial Liability Due to Accident	7	●	Minor Train Work Accident	14.67%	0.00%	0.00%	1.35%	0.00%	0.00%	1.29%	0.00%	0.00%	0.32%	0.00%	0.00%	
Reliability, Availability, Maintainability	8	●	Major Train Public Accident	17.69%	61.87%	10.94%	1.44%	1.44%	0.02%	8.26%	56.05%	4.63%	1.37%	1.34%	0.02%	
Loss of Maintenance Efficiency																
Disruption/Damage to Service Line Infrastructure																
				Total Risk:		51.94%		11.11%		21.32%		7.11%				

Open Bow-tie diagram from Grid

Clicking the Event Name will open a modal that displays the bow-tie diagram for the selected event.

From the Bow-tie diagram, you analyze the **likelihoods** (left) and **impacts** (right) of the selected **event** (center) To **Objectives with controls**. Click "[Bow-tie Diagram From Objectives](#)" for more details.

The screenshot shows the Riskion interface with the following details:

- Workgroup:** Riskion Help
- Risk model:** Intelligent Event London Underground Monitoring
- User:** John Doe
- Navigation:** MANAGE MODELS, IDENTIFY/STRUCTURE, LIKELIHOOD OF EVENTS, IMPACT OF EVENTS, RISKS, CONTROLS, CONTROLLED RISKS
- Selected controls:** 13
- Cost Of Selected Controls:** \$98,200 (unfunded: \$51,604,000)
- Total Cost Of All Controls:** \$51,702,200
- How Selected:** Optimized with budget of \$100,000

Objective Name	I. ↑	Color	Event Name	All Participants					
				W.O. Controls			With Controls		
				Likelihood	Impact	Risk	Likelihood	Impact	Risk
Public Relations	1	●	Late Train Running	35.48%	36.14%	12.82%	8.81%	36.14%	3.18%
Loss of Company Reputation	3	●	Line Closure	27.22%	55.05%	14.99%	6.44%	55.05%	3.55%
Customer/Business Dissatisfi	4	●	Failed Integration with Future Monitoring System Network	18.55%	35.56%	5.53%	10.11%	35.56%	3.59%
Financial	5	●	Intelligent Event Monitoring Network Shut Down	18.55%	16.73%	3.10%	4.05%	16.73%	0.68%
Loss of Customers	6	●	Major Train Work Accident	17.64%	25.83%	4.55%	1.41%	6.46%	0.09%
Financial Loss	7	●	Minor Train Work Accident	14.67%	0.00%	0.00%	1.35%	0.00%	0.00%
Financial Liability Due to Acci	8	●	Major Train Public Accident	17.69%	61.87%	10.94%	1.44%	1.44%	0.02%
Reliability, Availability, Maintains									
Loss of Maintenance Efficiency									
Disruption/Damage to Service									
Repair to Service Line Infrastr									
Performance									
Temporary Line Closure									
Loss of Reliability and Netwo									
Loss of Major Marketing Cap									
Total Risk:						51.94%			11.11%

Export Grid into excel or image format

The image shows a close-up of the grid's top right corner. A red box highlights two icons: a camera icon (for image export) and an Excel icon (for .xlsx export). The text "here to group by that column" is visible above the icons, and "Search..." is to the right.

You can export the grid into a .xlsx file by clicking



You can also export the results page into an image file (.png) by clicking

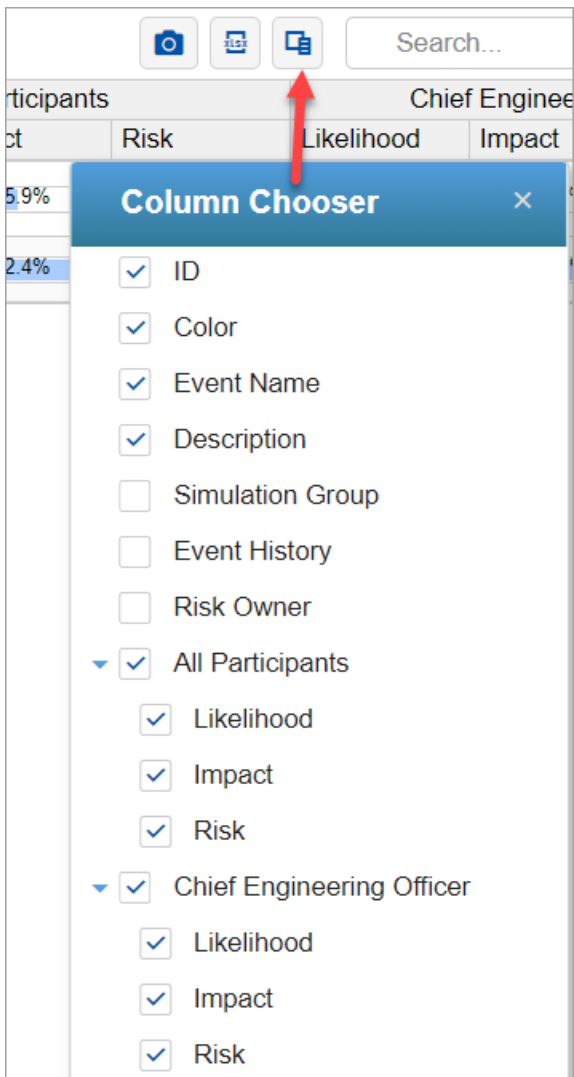


Show or Hide columns

You can show/hide columns both for:

- the main results grid at the right, and
- the hierarchy tree at the left

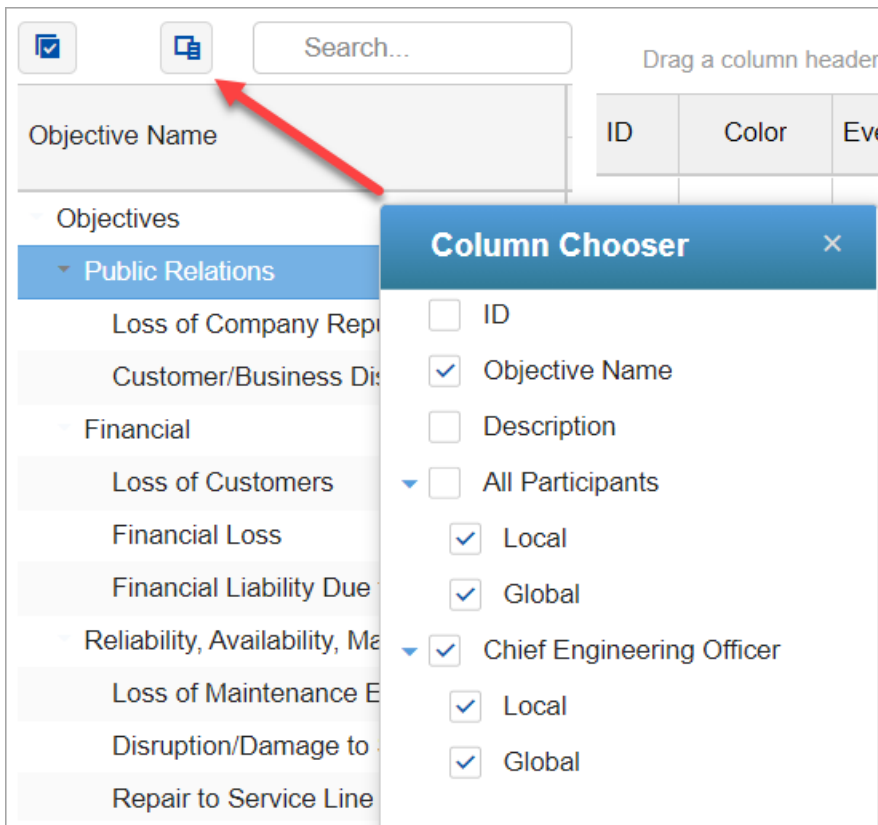
For the main results grid, click the column chooser at the top of the grid:



Simply check/uncheck the column(s) you want to show/hide.

The events attributes can also be displayed on the grid, from above the "Event History" and "Risk Owner" are events attributes.

For the Sources Hierarchy, click also the column choose on its top:



Here you can select:

- ID - Source ID
- Objective Name
- Description - source's description or information document
- Local and Global - local or global likelihoods of the sources based on the selected participant/group judgments

Sort by Column

Clicking the column header can sort the grid in ascending or descending order by that header.

ID	Color	Event Name	Description	All Participants		
				Likelihood	Impact	Risk
[01]	●	Late Train Running	Train is late when its time on the track between the two points is different than the time scheduled in the operational plan.	35.5%	15.9%	5.6%
[02]	●	Degradation of Intelligent Monitoring System Physical Assets	This is degradation of signals, cables, and sensors.	11.2%	32.4%	3.6%
[05]	●	Line Closure	No train traffic allowed	27.2%	22.5%	6.1%
[06]	●	Failed Integration with Future Monitoring System Network		15.6%	6.2%	1.0%
[07]	●	Intelligent Event Monitoring Network Shut Down		18.6%	26.9%	5.0%
[08]	●	Major Train Work Accident	Death occurs	17.6%	43.6%	7.7%
[09]	●	Minor Train Work Accident	Injury occurs	14.7%	6.8%	1.0%
[10]	●	Major Train Public Accident	Death occurs	17.7%	49.7%	8.8%

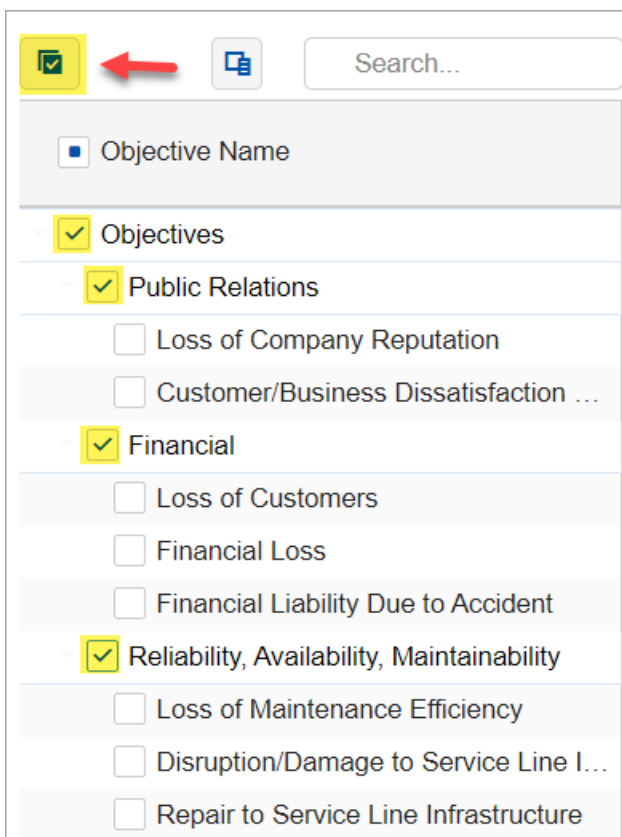
Total Risk: 38.8%

You can reset the sorting by pressing the Ctrl key on your keyboard and clicking again the column header where the sorting is currently active.

Select Multiple Source Nodes

Instead of showing results only from one WRT Objective, you can also select multiple source nodes at once.

To enable multi-select, click the multi-select icon at the top of the Objectives Hierarchy. By doing so, you will see checkboxes to the right of the objective names where you can select the WRT objective nodes you want to see the results.



A new column, WRT Objective, will be displayed on the main results grid to indicate the WRT nodes for each event.

ID	Color	Event Name	Description	All Participants			WRT Objective
				Likelihood	Impact	Risk	
[01]	●	Late Train Running	Train is late when its time on the track between the two points is different than the time scheduled in the operational plan.	35.48%	15.87%	5.63%	Objectives
[02]	●	Degradation of Intelligent Monitoring System Physical Assets	This is degradation of signals, cables, and sensors.	11.17%	32.43%	3.62%	Objectives
[05]	●	Line Closure	No train traffic allowed	27.22%	22.54%	6.13%	Objectives
[06]	●	Failed Integration with Future Monitoring System Network		15.55%	6.25%	0.97%	Objectives
[07]	●	Intelligent Event Monitoring Network Shut Down		18.55%	26.94%	5.00%	Objectives
[08]	●	Major Train Work Accident	Death occurs	17.64%	43.63%	7.69%	Objectives
[09]	●	Minor Train Work Accident	Injury occurs	14.67%	6.77%	0.99%	Objectives
[10]	●	Major Train Public Accident	Death occurs	17.69%	49.70%	8.79%	Objectives
[01]	●	Late Train Running	Train is late when its time on the track between the two points is different than the time scheduled in the operational plan.	35.48%	25.64%	9.10%	Financial
[02]	●	Degradation of Intelligent Monitoring System Physical Assets	This is degradation of signals, cables, and sensors.	11.17%	5.64%	0.63%	Financial

From above, we can see the likelihoods, impacts, and risks of the events WRT the Overall Sources (top-node), Human Factor, and Environmental.

You can also group the grid by WRT source for better display, this is done by dragging the WRT column header to the top left of the grid:

Objective Name	ID	Color	Event Name	All Participants			WRT Objective
				Likelihood	Impact	Risk	
<input checked="" type="checkbox"/> Objectives	[01]	●	Late Train Running	35.48%	15.87%	5.63%	Objectives
<input checked="" type="checkbox"/> Public Relations	[02]	●	Degradation of Intelligent Monitoring System Physical Assets	11.17%	32.43%	3.62%	Objectives
<input type="checkbox"/> Loss of Company Reputation	[05]	●	Line Closure	27.22%	22.54%	6.13%	Objectives
<input type="checkbox"/> Customer/Business Dissatisfaction ...	[06]	●	Failed Integration with Future Monitoring System Network	15.55%	6.25%	0.97%	Objectives
<input checked="" type="checkbox"/> Financial	[07]	●	Intelligent Event Monitoring Network Shut Down	18.55%	26.94%	5.00%	Objectives
<input type="checkbox"/> Loss of Customers	[08]	●	Major Train Work Accident	17.64%	43.63%	7.69%	Objectives
<input type="checkbox"/> Financial Loss	[09]	●	Minor Train Work Accident	14.67%	6.77%	0.99%	Objectives
<input type="checkbox"/> Financial Liability Due to Accident	[10]	●	Major Train Public Accident	17.69%	49.70%	8.79%	Objectives
<input checked="" type="checkbox"/> Reliability, Availability, Maintainability	[01]	●	Late Train Running	35.48%	36.14%	12.82%	Public Relations
<input type="checkbox"/> Loss of Maintenance Efficiency	[05]	●	Line Closure	27.22%	55.05%	14.99%	Public Relations
<input type="checkbox"/> Disruption/Damage to Service Line I...	[06]	●	Failed Integration with Future Monitoring System Network	15.55%	35.56%	5.53%	Public Relations
<input type="checkbox"/> Repair to Service Line Infrastructure	[07]	●	Intelligent Event Monitoring Network Shut Down	18.55%	16.73%	3.10%	Public Relations
<input type="checkbox"/> Performance	[08]	●	Major Train Work Accident	17.64%	25.83%	4.56%	Public Relations
<input type="checkbox"/> Temporary Line Closure	[09]	●	Minor Train Work Accident	14.67%	0.00%	0.00%	Public Relations
<input type="checkbox"/> Loss of Reliability and Network Effici...	[10]	●	Major Train Public Accident	17.69%	61.87%	10.94%	Public Relations
<input type="checkbox"/> Loss of Wider Monitoring System Pr...	[01]	●	Late Train Running	35.48%	25.64%	9.10%	Financial
<input type="checkbox"/> Loss of Train Service	[02]	●	Degradation of Intelligent Monitoring System Physical Assets	11.17%	5.64%	0.63%	Financial

Show Monetary Values

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

Preferences