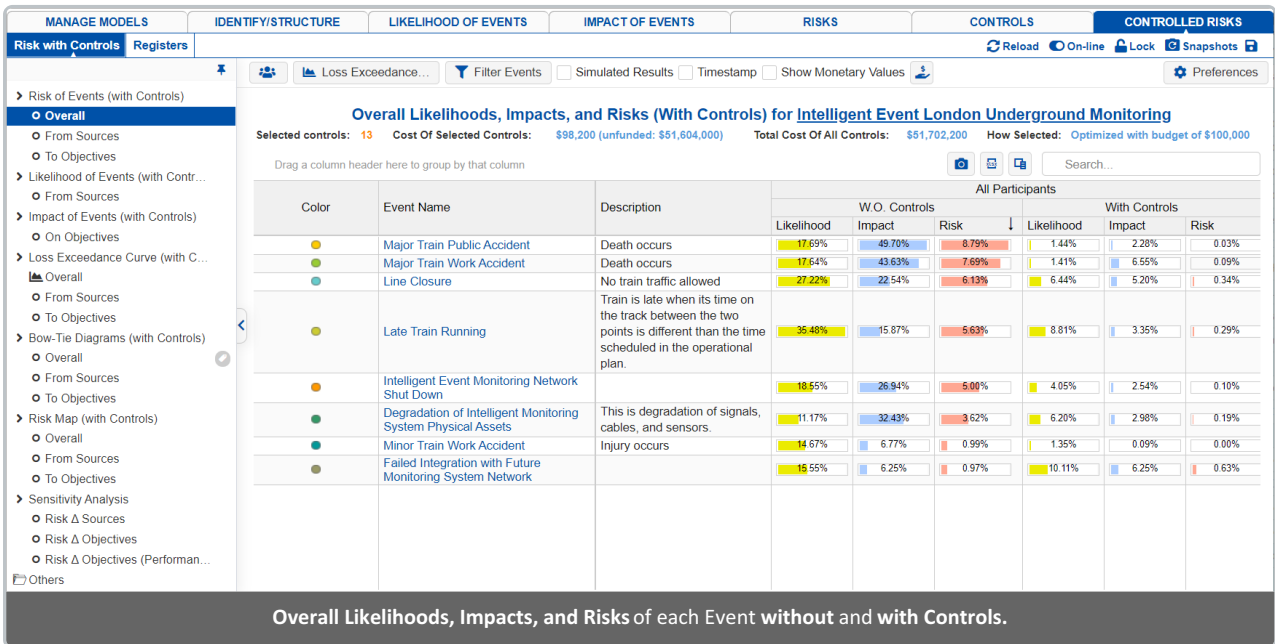


# Overall Risks with Controls

## Overview

This page displays a similar grid as with the **Overall Risk Results** (without controls), with additional columns for results when Controls are in effect.



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.

All Participants					
W.O. Controls			With Controls		
Likelihood	Impact	Risk	Likelihood	Impact	Risk
17.69%	49.70%	8.79%	1.44%	2.28%	0.03%
17.64%	43.63%	7.69%	1.41%	6.55%	0.09%
27.22%	22.54%	6.13%	6.44%	5.20%	0.34%
35.48%	15.87%	5.63%	8.81%	3.35%	0.29%
18.55%	26.94%	5.00%	4.05%	2.54%	0.10%
11.17%	32.43%	3.62%	6.20%	2.98%	0.19%
14.67%	6.77%	0.99%	1.35%	0.09%	0.00%
15.55%	6.25%	0.97%	10.11%	6.25%	0.63%


Notice from the above results that the Likelihoods, Impacts, and Risks decreased when controls are in effect.

The details for the controls in effect are displayed at the top of the grid.

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

In our example, 13 controls are in effect and were selected by Optimizing with a budget of \$100,000.

## Select Participants and Groups

By clicking the  "Participants and Groups" icon, you can select to display the results for participants or other groups.

### Participants and Groups

Search:

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

	Group name	Has data?	Select all users with data
<input checked="" type="checkbox"/>	All Participants	Yes	<input type="checkbox"/>
<input type="checkbox"/>	C-Level Executives	Yes	<input type="checkbox"/>
<input type="checkbox"/>	Engineering	Yes	<input type="checkbox"/>

Select all | Deselect all

After selecting participants and groups to display, click OK. New columns for the results will be displayed with the participant or group name as the column heading.

Overall Likelihoods, Impacts, and Risks (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								
Drag a column header here to group by that column														
ID	Co...	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
[01]		Late Train Running	35.5%	15.9%	5.6%	8.8%	3.3%	0.3%	12.4%	14.3%	1.8%	4.2%	3.9%	0.2%
[02]		Degradation of Intelligent Monitoring System Physical Assets	11.2%	32.4%	3.6%	6.2%	3.0%	0.2%	4.7%	33.3%	1.5%	3.7%	1.6%	0.1%
[05]		Line Closure	27.2%	22.5%	6.1%	6.4%	5.2%	0.3%	9.1%	21.6%	2.0%	3.2%	4.9%	0.2%
[06]		Failed Integration with Future Monitoring System Network	15.6%	6.2%	1.0%	10.1%	6.2%	0.6%	11.1%	6.4%	0.7%	8.8%	6.4%	0.6%
[07]		Intelligent Event Monitoring Network Shut Down	18.6%	28.9%	5.0%	4.0%	2.5%	0.1%	3.9%	12.8%	0.5%	2.8%	2.7%	0.1%
[08]		Major Train Work Accident	17.6%	43.6%	7.7%	1.4%	6.6%	0.1%	7.7%	31.1%	2.4%	0.8%	3.9%	0.0%
[09]		Minor Train Work Accident	14.7%	6.8%	1.0%	1.3%	0.1%	0.0%	1.3%	8.5%	0.1%	0.3%	0.1%	0.0%
[10]		Major Train Public Accident	17.7%	49.7%	8.8%	1.4%	2.3%	0.0%	8.3%	32.9%	2.7%	1.4%	2.5%	0.0%

## 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) with **controls**. Click "Overall Bow-tie Diagram" for more details.

Expert Choice **riskion** Workgroup: Riskion Help Risk model: Intelligent Event London Underground Monitoring

MANAGE MODELS IDENTIFY/STRUCTURE LIKELIHOOD OF EVENTS IMPACT OF EVENTS RISKS CONTROLS CONTROLLED RISKS

Risk with Controls Registers Reload On-line Snapshots

Loss Exceedance... Filter Events Simulated Results Timestamp Show Monetary Values Preferences

**Overall Likelihoods, Impacts, and Risks (With Controls) for Intelligent Event London Underground Monitoring**

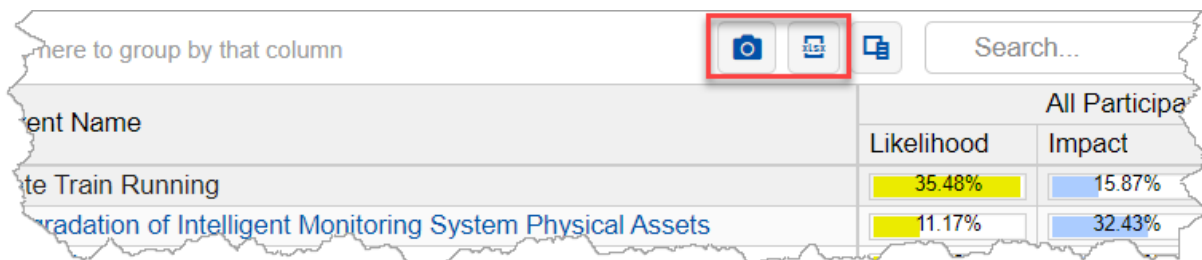
Selected controls: 13 Cost Of Selected Controls: \$98,200 (unfunded: \$51,604,000) Total Cost Of All Controls: \$51,702,200 How Selected: Optimized with budget of \$100,000


Drag a column header here to group by that column


ID ↑	Co...	Event Name	Description	All Participants					
				W.O. Controls			With Controls		
				Likelihood	Impact	Risk	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%	8.8%	3.3%	0.3%
[02]	●	Degradation of Intelligent Monitoring System Physical Assets	This is degradation of signals, cables, and sensors.	11.2%	32.4%	3.6%	6.2%	3.0%	0.2%
[05]	●	Line Closure	No train traffic allowed	27.2%	22.5%	6.1%	6.4%	5.2%	0.3%
[06]	●	Failed Integration with Future Monitoring System Network		15.6%	6.2%	1.0%	10.1%	6.2%	0.6%
[07]	●	Intelligent Event Monitoring Network Shut Down		18.6%	26.9%	5.0%	4.0%	2.5%	0.1%
[08]	●	Major Train Work Accident	Death occurs	17.6%	43.6%	7.7%	1.4%	6.6%	0.1%
[09]	●	Minor Train Work Accident	Injury occurs	14.7%	6.8%	1.0%	1.3%	0.1%	0.0%
[10]	●	Major Train Public Accident	Death occurs	17.7%	49.7%	8.8%	1.4%	2.3%	0.0%

Shortcuts Advanced mode is OFF Version: 6.2.001.42282 © 2007-2021 Expert Choice, Inc. All Rights Reserved

## Export Grid into excel or image format

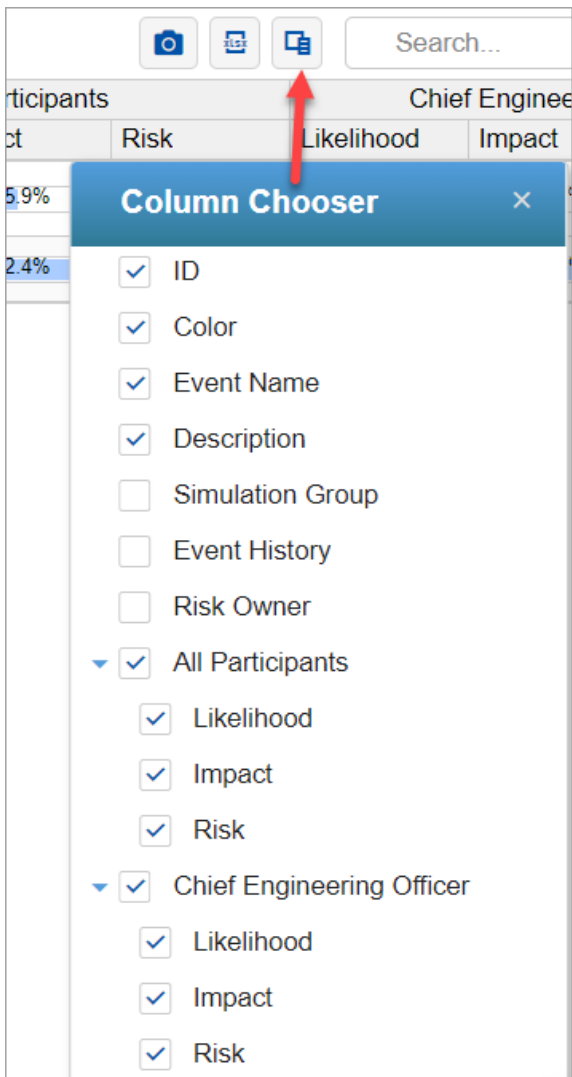


You can export the grid into a .xlsx file by clicking 

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

## Show or Hide columns

You can select to show/hide columns using the column chooser:



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

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 + clicking again the column header where the sorting is currently active.

## Show Monetary Values

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

## Preferences

