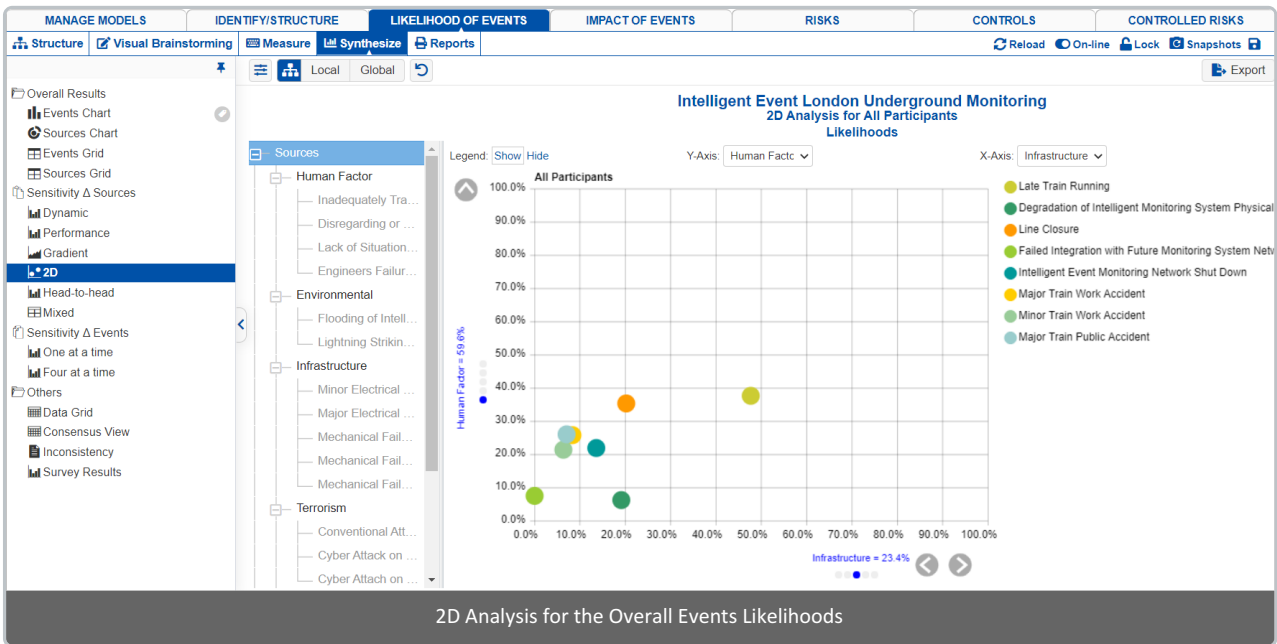# Likelihood: 2D Analysis

Overview

The Two Dimensional sensitivity for Likelihood shows how well the events perform given any two threats.

In Riskion, we refer to **threats**, **causes**, **hazards**, and **sources** interchangeably. While they may have slightly different nuances depending on the context in which they are used, they serve the same purpose -- they are all threats/sources of risk (for Risk Events) or sources of opportunity (for Opportunity Events).

In our sample model, we are using the terminology "Source(s)".

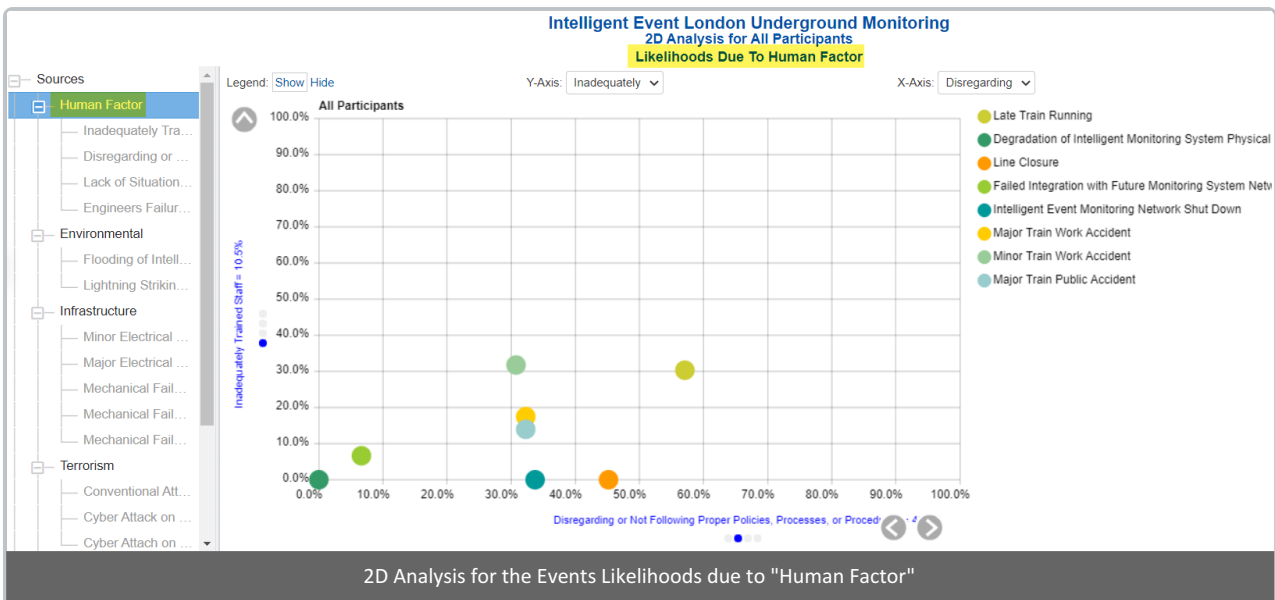

2D Analysis for the Overall Events Likelihoods

One source is represented on the X-Axis and another on the Y-Axis. The circles represent the events.

You can change the sources being displayed on the x and y axes by selecting them in the pull-down menus:

or by clicking the (x-axis), or (y-axis)

By selecting an element in the hierarchy other than the top node, you can see the results due to this element rather than the overall results due to the "Sources" node.

2D Analysis for the Events Likelihoods due to "Human Factor"

You can show the local and global source's likelihoods on the Sources Hierarchy at the right using the Local-Global buttons:

| Sources | All Participants | |
	Local	Global
Sources		
Human Factor	59.58%	59.58%
Inadequately T…	10.47%	6.24%
Disregarding o…	45.18%	26.92%
Lack of Situati…	15.42%	9.19%
Engineers Fail…	13.97%	8.32%
Environmental	19.94%	19.94%
Flooding of Int…	2.03%	0.4%
Lightning Striki…	1.08%	0.22%
Infrastructure	23.38%	23.38%
Minor Electrica…	19.22%	4.49%
Major Electrica…	7.91%	1.85%

You can hide the Sources Hierarchy at the left using

Click to show/hide the toolbar options:

Select Participants and Groups

You can select to display results for **one** participant or group using

Clicking the button will open a window where you can select a participant or a group.

You can use the prev and the next buttons to cycle through each participant or group.
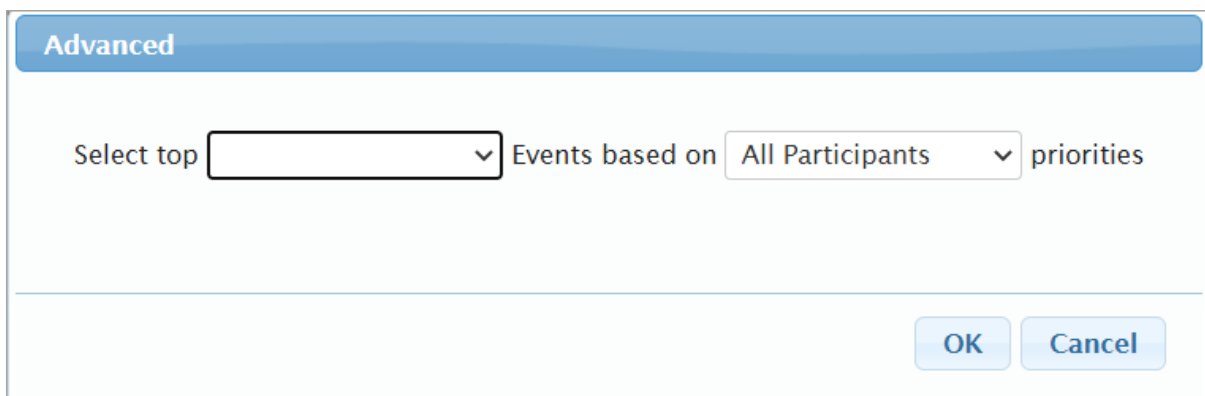
Filter Events

By default, all events are displayed.

You can select to display the top or bottom 5, 10, or 25 events based on the "All Participants" group likelihoods.

The Advanced filter, allows you to select a specific number for the top N, and base it on another group or participant.

The select /deselection option, allows you to check/uncheck the events.

The filter by events attributes, filter the events base on the attributes specified on the Events page.

The show risks only / Show opportunities only are applicable for the Mixed model where events can be Risk or Opportunity.

Advanced Mode Options