Efficient Frontier From Threats

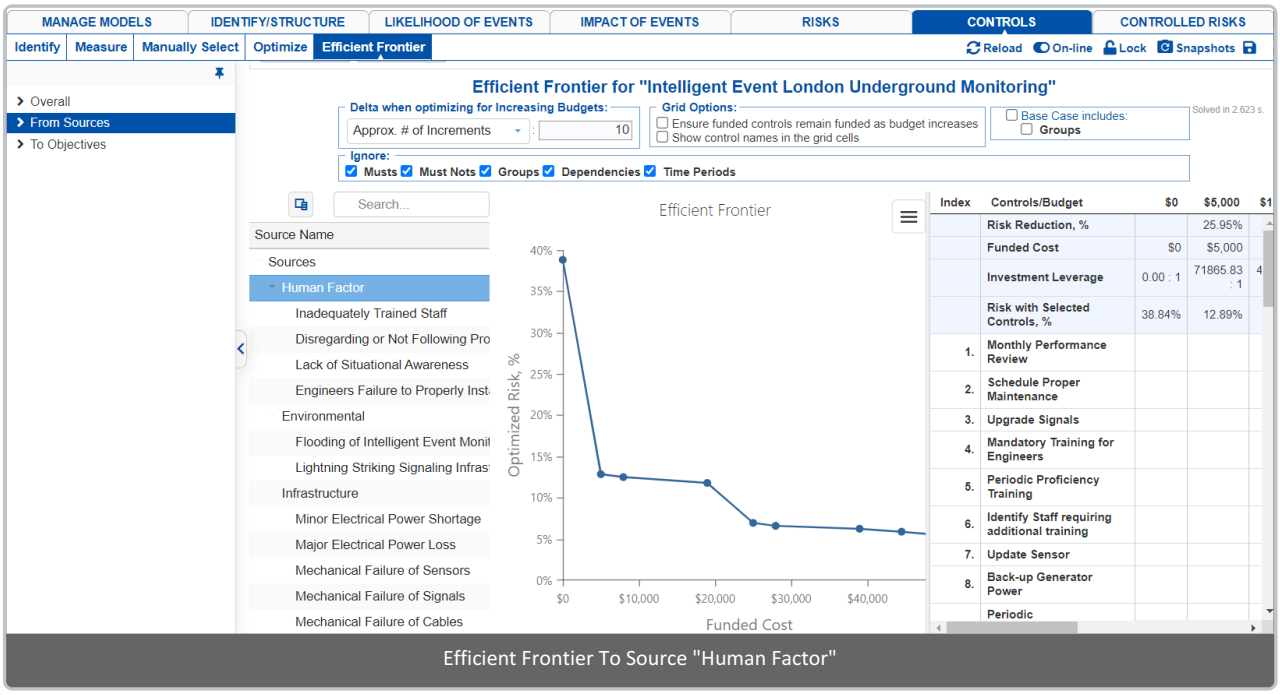
The Efficient Frontier results make it easy to compare several scenarios and see the effects of lower or higher budgets.

This page displays the **Efficient Frontier to specific 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)".

Click 

to display results:



Efficient Frontier To Source "Human Factor"

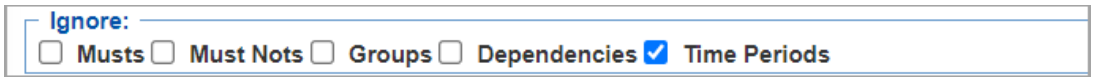
This page is similar to Overall Efficient Frontier, except that we can select a specific source to calculate the results.

From the above, the Efficient Frontier solved is due to the source " **Human Factor**". You can select another source from the Sources Hierarchy at the left.



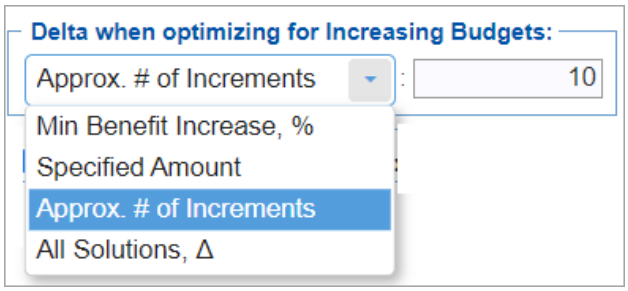
Once solved, the Efficient Frontier page displays a curve(s) at the left and a grid at the right.

You can ignore constraints:

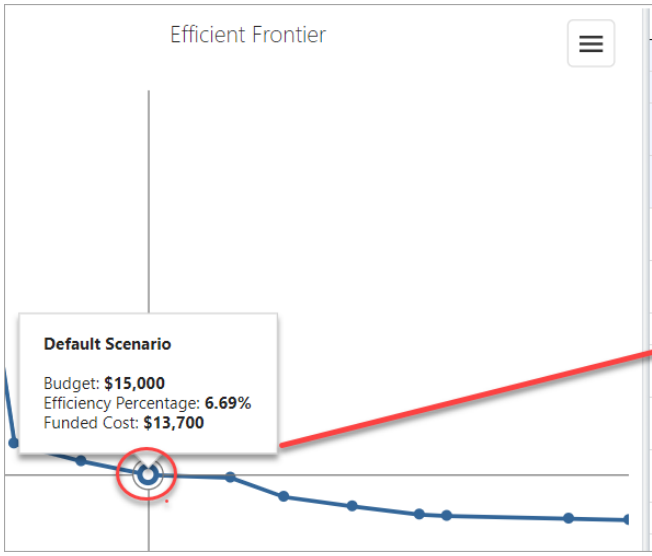


Constraints that are defined have a **bold** font.

You can select the delta when optimizing:



Hovering over a plot in the Chart will show a tooltip with its details and will highlight the corresponding column in the Grid.

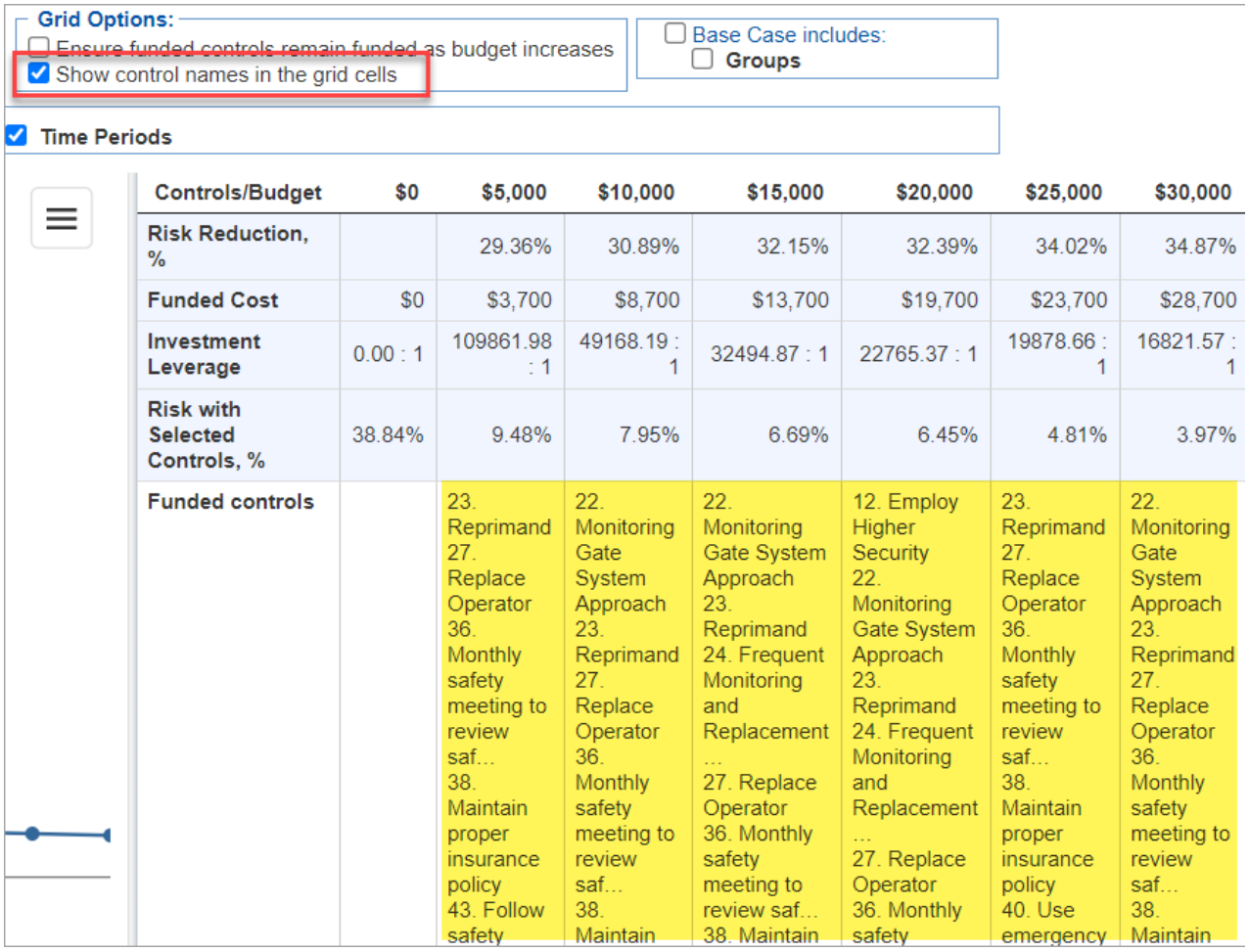


Index	Controls/Budget	$0	$5,000	$10,000	$15,000
	Risk Reduction, %		29.36%	30.89%	32.15%
	Funded Cost	$0	$3,700	$8,700	$13,700
	Investment Leverage	0.00 : 1	109861.98 : 1	49168.19 : 1	32494.87 : 1
	Risk with Selected Controls, %	38.84%	9.48%	7.95%	6.69%
1.	Monthly Performance Review				
2.	Schedule Proper Maintenance				
3.	Upgrade Signals				
4.	Mandatory Training for Engineers				
5.	Periodic Proficiency Training				
6.	Identify Staff requiring additional training				
7.	Update Sensor				
	Back-up Generator				

You can see the controls that are funded on the grid. There will be FUNDED on the cell intersecting the control (row) given the budget (column).

Index	Controls/Budget	$0	$5,000	$10,000	$15,000	$20,000	$25,000	$30,000
	Risk Reduction, %		29.36%	30.89%	32.15%	32.39%	34.02%	34.87%
	Funded Cost	$0	$3,700	$8,700	$13,700	$19,700	$23,700	$28,700
	Investment Leverage	0.00 : 1	109861.98 : 1	49168.19 : 1	32494.87 : 1	22765.37 : 1	19878.66 : 1	16821.57 : 1
	Risk with Selected Controls, %	38.84%	9.48%	7.95%	6.69%	6.45%	4.81%	3.97%
1.	Monthly Performance Review							
2.	Schedule Proper Maintenance							
3.	Upgrade Signals							
4.	Mandatory Training for Engineers							
5.	Periodic Proficiency Training							
6.	Identify Staff requiring additional training							
7.	Update Sensor							
8.	Back-up Generator Power							
	Periodic							

Alternatively, you can turn on the show control names option to list the funded controls in the cell.



Controls/Budget	$0	$5,000	$10,000	$15,000	$20,000	$25,000	$30,000
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Risk with Selected Controls, %	38.84%	9.48%	7.95%	6.69%	6.45%	4.81%	3.97%
Funded controls		23. Reprimand 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain proper insurance policy 43. Follow safety	22. Monitoring Gate System Approach 23. Reprimand 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain	22. Monitoring Gate System Approach 23. Reprimand 24. Frequent Monitoring and Replacement ... 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain	12. Employ Higher Security 22. Monitoring Gate System Approach 23. Reprimand 24. Frequent Monitoring and Replacement ... 27. Replace Operator 36. Monthly safety	23. Reprimand 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain proper insurance policy 40. Use emergency	22. Monitoring Gate System Approach 23. Reprimand 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain