

Efficient Frontier To Objectives

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 Objectives**.

Click  to display results:



This page is just similar to [Overall Efficient Frontier](#), except that we can select a specific objective to calculate the results.

From the above the Efficient Frontier solved is with respect to the objective " **Public Relations**". You can select another objective from the Objectives Hierarchy at the left.

Objective Name
Objectives
Public Relations
Loss of Company Reputation
Customer/Business Dissatisfactio
Financial
Loss of Customers
Financial Loss
Financial Liability Due to Accident
Reliability, Availability, Maintainability
Loss of Maintenance Efficiency
Disruption/Damage to Service Lin
Repair to Service Line Infrastruct.
Performance
Temporary Line Closure
Loss of Reliability and Network Ef

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

You can ignore constraints:

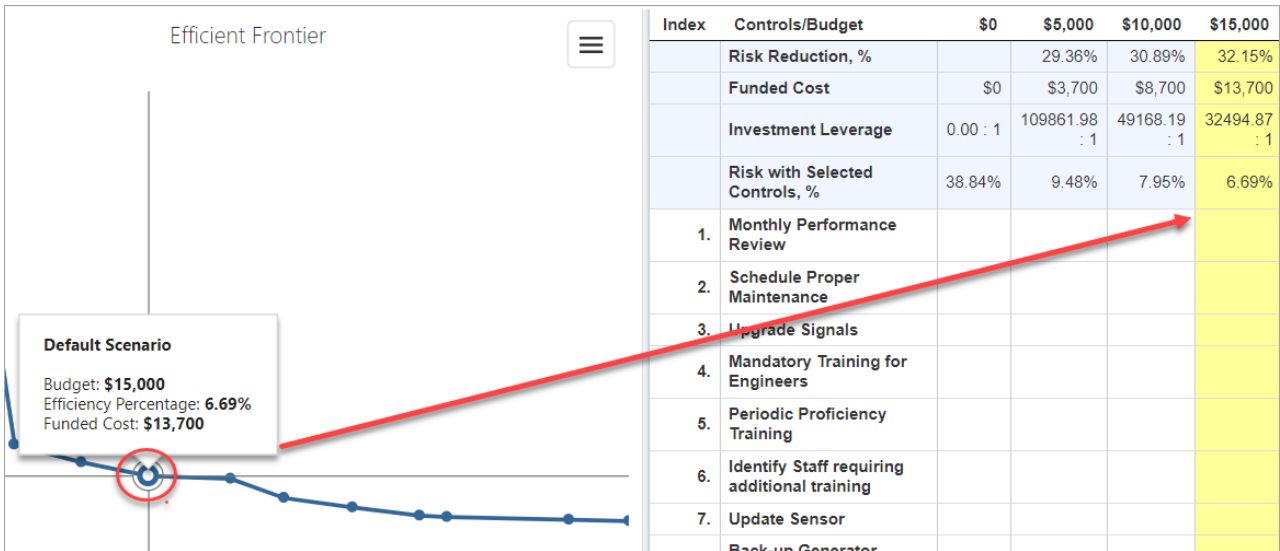
Ignore:
<input type="checkbox"/> Musts <input type="checkbox"/> Must Nots <input type="checkbox"/> Groups <input type="checkbox"/> Dependencies <input checked="" type="checkbox"/> Time Periods

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

You can select the delta when optimizing:

Delta when optimizing for Increasing Budgets:
Approx. # of Increments <input type="text" value="10"/>
<input type="text" value="Min Benefit Increase, %"/>
<input type="text" value="Specified Amount"/>
<input checked="" type="text" value="Approx. # of Increments"/>
<input type="text" value="All Solutions, Δ"/>

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



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.

Grid Options:

- Ensure funded controls remain funded as budget increases
- Show control names in the grid cells

- Base Case includes:
- Groups

Time Periods

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Funded controls		23. Reprimand Operator 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 Operator 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain	22. Monitoring Gate System Approach 23. Reprimand Operator 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 Operator 24. Frequent Monitoring and Replacement ... 27. Replace Operator 36. Monthly safety	23. Reprimand Operator 36. Monthly safety meeting to review saf... 38. Maintain proper insurance policy 40. Use emergency	22. Monitoring Gate System Approach 23. Reprimand Operator 27. Replace Operator 36. Monthly safety meeting to review saf... 38. Maintain