

## EXPECT BETTER RISK MANAGEMENT with Faster Implementation and Benefits



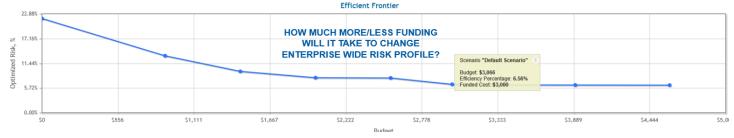
### ARM SENIOR LEADERSHIP WITH DATA ANALYTICS THAT SHOW HOW RISK REDUCTION STRATEGIES AND TACTICS DELIVER AGAINST STRATEGIC OBJECTIVES.

- > Multi-faceted views of risk at all levels of the enterprise.
- > Turn your list based security tools into plans of action.
- > Get reliable measures for risk likelihoods and impacts.
- > Know which control sets best reduce risk at a given budget.
- > Optimize risk strategies and controls for calendar, resource, and other constraints.

#### EFFICIENT FRONTIER

#### SEE HOW MUCH YOU CAN REDUCE RISK AT VARIOUS BUDGET LEVELS

Index	Controls/Budget	\$0	\$1,022	\$1,533	\$2,044	\$2,555	\$3,066	\$3,577	\$4,088	\$4,599
	Risk with Selected Controls, %	21.79%	13.16%	9.56%	8.09%	8.03%	6.56%	6.43%	6.40%	6.37%
	Funded Cost	\$0	\$900	\$1,450	\$2,000	\$2,550	\$3,000	\$3,300	\$3,900	\$4,590
1.	IA-2(5) (5) IDENTIFICATION AND AUTHENTICATION   GROUP AUTHENTICATION		FUNDED							
2.	IA-2 (6) IDENTIFICATION AND AUTHENTICATION   NETWORK ACCESS TO PRIVILEGED ACCOUNTS - SEPARATE DEVICE							FUNDED	FUNDED	FUNDED
3.	IA-2 (7) IDENTIFICATION AND AUTHENTICATION   NETWORK ACCESS TO NON-PRIVILEGED ACCOUNTS - SEPARATE DEVICE		FUNDED							
4.	IA-2 (10) IDENTIFICATION AND AUTHENTICATION   NO SINGLE SIGN-ON							FUNDED	FUNDED	FUNDED
5.	IA-2 (13) IDENTIFICATION AND AUTHENTICATION   OUT-OF-BAND AUTHENTICATION				FUNDED	FUNDED	FUNDED	FUNDED	FUNDED	FUNDED
6.	AC-1 ACCESS CONTROL POLICY AND PROCEDURES			FUNDED	FUNDED		FUNDED	FUNDED	FUNDED	FUNDED
7.	AC-4 INFORMATION FLOW ENFORCEMENT				FUNDED		FUNDED	FUNDED	FUNDED	FUNDED
8.	IR-3 (1) INCIDENT RESPONSE TESTING AUTOMATED								FUNDED	FUNDED
9.	AC-2 ACCOUNT MANAGEMENT									
10.	AC-3 ACCESS ENFORCEMENT									
11.	AC-5 SEPARATION OF DUTIES						FUNDED		FUNDED	

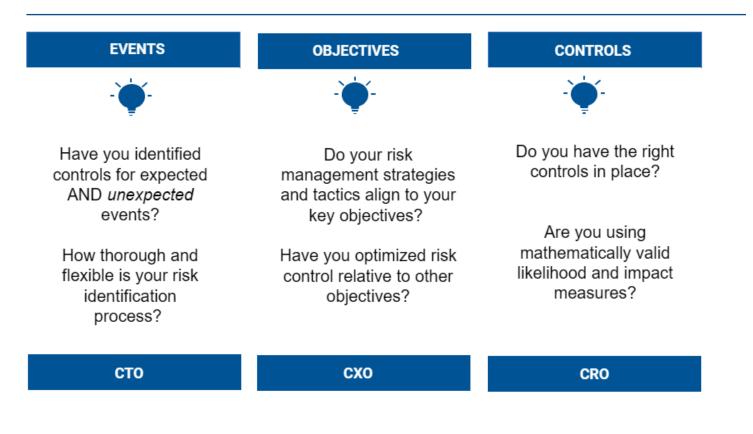


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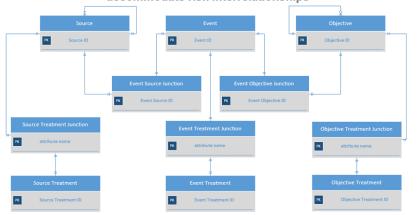
COMPLIANCE IS IMPORTANT, BUT YOUR RISK FRAMEWORK SHOULD ALSO DELIVER A RISK ROAD MAP THAT SHOWS HOW TO MEASURABLY REDUCE RISK TIED TO YOUR STRATEGIC OBJECTIVES.



#### ROI EFFECTIVENESS OF ENTERPRISE RISK MANAGEMENT

Risk Impacts	Risk w/o Controls	Risk w/ Controls	$\Delta$ (Risk reduction)	Control Cost
Risk Profile				
Total Risk (Average Loss) with 9 Selected Controls	\$232.02	\$77.79	\$154.23	
VAR 5% Probability that worst case st loss >	\$611.24	\$260.68	\$350.55	\$19.60
VAR Probablity of st loss is >- <mark>\$500M</mark>	5%	2%	3%	

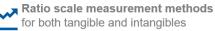
Comprehensive analytics and visuals able to accommodate risk interrelationships



Comprehensive and correct relative measures



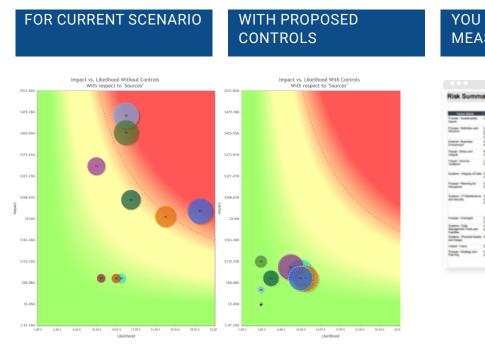
Scientifically valid quantitative measures of risk aligned to strategic, operational, and budgetary planning processes



for both tangible and intangibles

The ability to optimize mitigation constraints such as resource limitations choices subject to a variety of and acceptable levels of accepted risk

#### VISUALIZE RELATIVE RISK AND REDUCTION POTENTIONAL WITH RISKION HEAT MAPS. STOP USING MISLEADING, LIST-BASED GRC HEAT MAPS THAT DO NOT MEASURE RISK.



#### YOU CAN'T MANAGE RISK W/O **MEASURING RISK**





National Institute of Standards and Technology U.S. Department of Commerce









## **RISK DATA ANALYTICS - DATA SYNTHESIS YOU CAN RELY ON**

Riskion helps you to structure your risk assessment to ensure you collect meaningful data on the 7 key elements of risk--including impact on objectives, while letting you retain your existing risk terminology.



## JUMP START YOUR OBJECTIVE DRIVEN RISK ANALYSIS WITH AI

Use Expert Choice AI Wizard along with any custom or formal risk assessment framework to jump start your Enterprise Risk Analysis. Use your existing risk framework alone, or pair it with EC's AI wizard capability to let your team structure a comprehensive risk model.



You can use generative AI to help compose your model.

To start, please open

Al Wizard

#### A CUSTOMIZED OBJECTIVES HIERARCHY

(i)	- A Enhance financial stability
(i)	Increase dollar amount of revenues
U	
i	<ul> <li>Reduce management and general expenses</li> </ul>
<b>(i)</b>	<ul> <li>Decrease variance in budgeting</li> </ul>
(i)	Balance revenue and program expense
<b>(i)</b>	<ul> <li>Add value to reputation</li> </ul>
<b>(i)</b>	<ul> <li>Increase donor count</li> </ul>
<b>(i)</b>	<ul> <li>Improve public charity rating</li> </ul>
i	Add additional mission-driven programs
(i)	Ease transition for management
(i)	<ul> <li>Identify other employment opportunities for jobs that become automated</li> </ul>
(i)	<ul> <li>Develop a backup plan if technology fails</li> </ul>
(j)	Gather input from all parties involved

#### FOR CURRENT SCENARIO

B- (1) Sources
🖶 🕕 Human Factor
Inadequately Trained Staff
O Disregarding or Not Following Proper Policies, Processes, or Procedures
Lack of Situational Awareness
Engineers Failure to Properly Install Equipment
B () Environmental
• Isoding of Intelligent Event Monitoring Infrastructure
Lightning Striking Signalling Infrastructure
B () Infrastructure
Minor Electrical Power Shortage
Major Electrical Power Loss
Mechanical Failure of Sensors
Mechanical Failure of Signals
Mechanical Failure of Cables
🖶 🕕 Terrorism
Onventional Attack on the Signalling Infrastructure
Oper Attack on the Intelligent Event Monitoring Network Itself
Oyber Attach on the Telephony and Broadband Infrastructure of the Service Provider
🖻 🕕 Technology
••• System Software Technology Obsolescence
••• System Hardware Technology Obsolescence
One we cutting Edge Software Technology Available
Intelligent Monitoring System Software Failure

# ACCURATE & MEANINGFUL RISK ASSESSMENT FOR COMMAND AND CONTROL

Riskion's structured risk register, hiearchy, and bow-tie visuals give measurable insight into measures of EVERY ELEMENT of your risk management framework. From event likelihoods and impacts, to how treatments can be applied to reduce risk for sources, events and consequences. Riskion lets you see how priorities are derived across your organization, by stakeholder group, or individual. Transparency into objectives and their priorities drives compromise and communication.

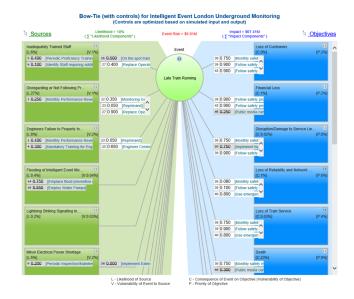
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## RISK EVENT IMPACTS ON OBJECTIVE COMPONENTS

Operational efficiency	15.93%	Redainibuled budget and resource
Good publicity/customer relations	9.05%	Loss of identity and/or reputation
Eliminale redundancies	9.63%	Redistributed/ reassigned staff
High employee motale	7.83%	Insufficient IT infrastructure
Cost Synergies	14.01%	Overpaid for resource
Revenue Synergies	13.10%	Loss of operating efficiency while
Expand business in NASA and Military space	18.42%	Adverse customer reaction
Increase market share	8.63%	Contuned distributors delayed in p
Establish new distributor relationships	2.97%	Increased cost due to retraining st
-		Prolonged and difficult team integr

Las	x of identity and/or reputation
Rec	intribuled/ numigred staff
Insi	ifficient IT infrastructure
0#	espaid for resource
Los	s of operating efficiency while in transition
Adv	eres customer reaction
Car	nued distributors delayed in providing services
Inc	eased cost due to retraining staff
Pro	longed and difficult team integration
Pro	longed and difficult document integration
S-av	ings and financials gains underperformed
Nev	r compliance officer hired
Pin	avail around SRM
Ner	n discriminalory regulations
Ent	ployees resigned
En	ployee marate declined
i in	ited collaboration or access

#### NIST OBJECTIVES SHOWN WITH CUSTOM FOR CONTROL IMPACT ANALYSIS



## **RISKION BENEFITS:**

- > Structured, easy-to-use process and visual reporting
- > Seamless collection & tracking of team risk inputs via web-interface, by roles
- > Transparently shows risk reduction recommendations by team, group, or individuals
- > Improve identification of objectives and distinguish between potential risk treatments
- > Increase collaboration, risk identification and treatment ideation across constituencies
- > Improved stakeholder and partner buy-in even when they disagree with outcome
- > Ease compromise between individuals or groups, as the process naturally deters political bias
- > Handle dependencies
- > Use with Expert Choice Comparion for improved optimization and allocation of risk resources

## **RISK ASSESSMENT BY TEAM**

	memgent	Event Lond	ion onderg		intoring			
Likelihood Computed	Impact, \$	Risk, \$	Likelihood Computed	CXO Impact, \$ Computed	Risk, \$ Computed	Likelihood Computed	IT Impact, \$ Computed	Risk, \$ Computed
	977,228,508	339,335,216	20.53%	1,003,938,552	206,105,491	0.79%	498,617,678	3,956,494
17.16%	1,968,377,277	337,792,985	1 <mark>3.89%</mark>	2,052,516,685	285,159,095	3.48%	879,222,775	30,619,025
<b>17.</b> 11%	1,727,861,602	295,715,993	14.10%	1,764,840,708	248,829,763	3.48%	736,006,883	25,631,517
26.51%	892,514,862	236,589,759	18.88%	849,077,987	160,335,245	6.81%	131,635,675	8,967,136
•••• 18.11%	1,067,005,666	193,238,076	14.06%	1,086,280,008	152,779,589	1.49%	601,285,587	8,975,728
11.04%	1,284,148,791	141,832,157	4.10%	1,387,498,338	56,899,006	0.79%	484,866,957	3,817,611
12.33%	325,832,621	40,182,525	10.10%	368,856,447	37,261,983	4.63%	44,747,372	2,073,119
14.24%	268,208,077	38,190,339	10.94%	255,800,715	27,992,602	4.63%	2,533,454	117,373
•••• <u>15</u> .40%	247,379,012	38,096,094	2.33%	344,368,882	8,036,266	6.79%	0	0
							Total Risk	Computed \$84,158,006
	Computed 34.72% 17.16% 17.11% 26.51% 18.11% 11.04% 32.33% 14.24%	Likelihood Impact, \$ Computed Computed 34.72% 977,228.508 17,16% 1.568,377.277 17,11% 1.727,861,602 26,51% 892,514,862 18,11% 1.067,005,666 111,04% 1.284,148,791 1,233% 325,832,621 14,24% 268,208,077 14,24% 247,379,012	Computed         Computed         Computed         Computed         V           an.         34 72%         977,228,508         339,335,216           17,16%         1.968,377,277         337,792,985           17,11%         1.727,661,602         295,715,993           26,51%         892,514,862         236,589,759           18,11%         1.067,005,666         193,238,076           11,10%         1.284,148,791         1.41,832,157           12,23%         325,832,621         40,182,525           14,24%         268,208,077         38,190,339	Likelihood Computed         Impact; \$ Computed         Risk, \$ Computed         Likelihood Computed           34,72%         977,228.508         339,335.216         20.55%           17,16%         1968,377,277         337,792.965         13.89%           17,11%         1,727,861.602         295,715,993         14.10%           26,51%         892,514.862         236,589,759         18.89%           18,01%         1,067,005.666         193,238,076         14.06%           111.04%         1,284,148,791         141,832,157         4.10%           22.33%         325,832,621         40,182,525         10.10%           14.24%         268,208,077         38,190,339         10.94%            15,40%         247,379.012         38,066,094         2.33%           Computed         Computed         Computed         Computed	Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         Impact, \$ Computed           34,72%         977,228,508         339,335,216         20.53%         1003,938,652           17,16%         1968,377,277         337,792,965         13.89%         2.052,516,685           17,11%         1.727,861,602         295,715,993         14.10%         1.764,840,708           26,51%         892,514,862         236,589,759         18.89%         649,077,987           18,01%         1.067,005,666         193,238,076         14.06%         1.068,280,008           111.04%         1.284,148,791         141,832,157         4.10%         1.387,499,338           22.33%         325,832,621         40,182,525         10.10%         368,856,447           14.24%         268,208,077         38,190,339         10.94%         255,800,715           15,40%         2.47,379,012         38,066,094         2.33%         344,388,882           Computed         Computed         Computed         Computed	Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed           34,72%         977,226,506         339,335,216         20.55%         1.003,938,552         206,105,491           117,16%         1968,377,277         337,792,985         13.99%         2.052,516,665         226,5159,095           117,11%         1.727,661,602         295,715,999         14.10%         1.764,840,708         248,829,763           12,11%         1.727,661,602         295,715,999         14.10%         1.86%         849,077,967         1600,35,245           18,01%         0.067,005,666         193,230,076         14.06%         1.086,200,008         152,779,599           111,04%         1.264,148,791         141,921,157         4.10%         1.367,498,338         56,999,006           12,23%         325,832,621         4.01,82,525         10.10%         368,856,447         37,261,983           14,42%         266,208,007         38,190,339         10.94%         265,800,715         27,992,602           15,40%         247,379,012         38,096,094         2.33%         344,368,882         8,095,266           Computed         Computed         Computed         Computed <td>Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         D 079%         D 080,250,008         Likelihood         Likelihood         Likelihood         Likelihood         Likelihood         Likelihood         Likelihood         Likelihood         D 079%         D 080,250,008         D 080,254.54         D 079%         D 079%         D 080,256.54         D 079%         D 080,256.54         D 079%         D 080,256.54         D 079%         D 080,256.54         D 079%         D 079%         D 080,256.54         <thd 079%<="" th=""></thd></td> <td>Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood Computed         Impact, \$ Computed         Risk, \$ Computed         Likelihood 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## Want to see how Riskion works? Call for a demo or sign-up for our On Demand Webinar.

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