

Demonstrating Value Through Learning Analytics



The Standard in Learning Analytics



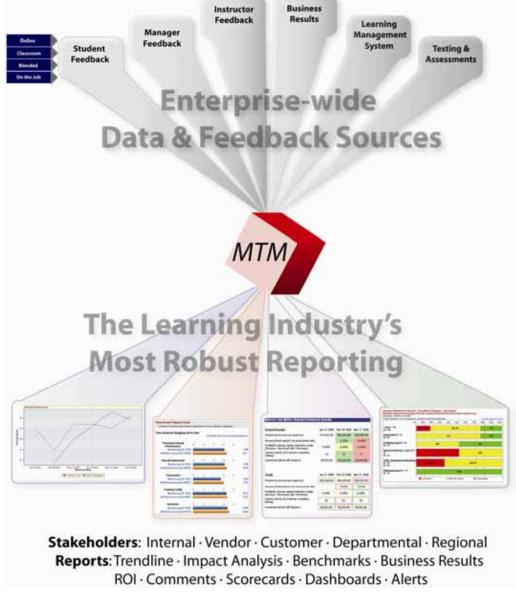
Visit our website at www.knowledgeadvisors.com

We help organizations measure and improve the results of their learning programs.



Business Instructor Feedback Results Manager Feedback Student Feedback MTM

Metrics that Matter® Enterprise Scalability





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KnowledgeAdvisors Sample Clients





Accountants and Business Advisors





































We never forget who we're working for"











Marriott

















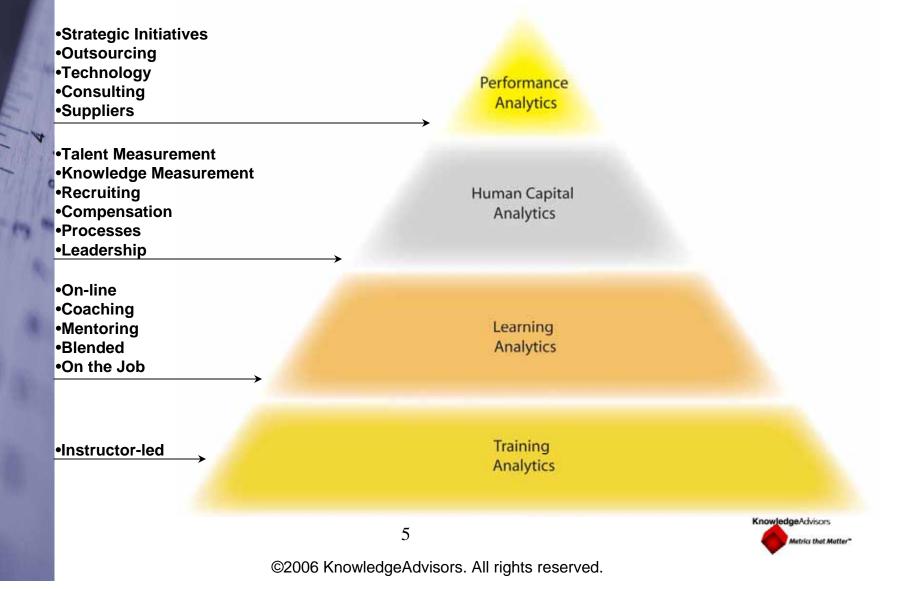


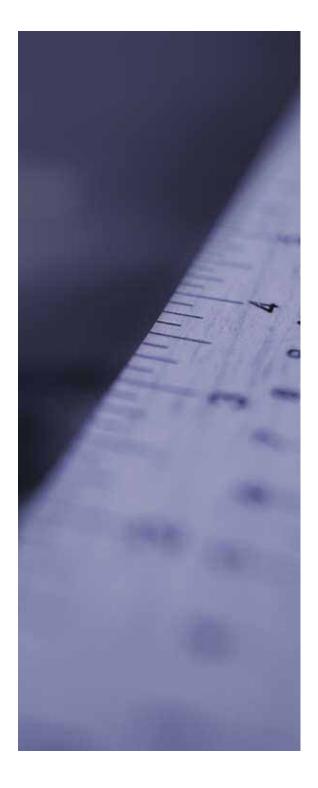




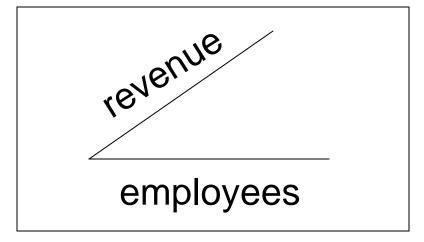


Analytics Past, Present and Future

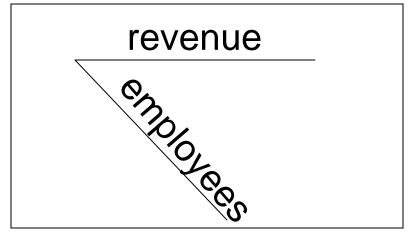




What Matters to the CEO



OR





What is Happening with Measurement?

"Proving Value / ROI of Training."
#1 Challenge of L&D Organizations

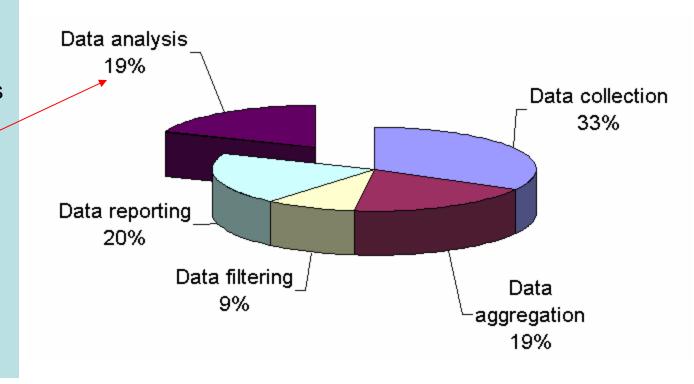
[T&D Magazine, Pulse Check January 2006]

"Communicating and Measuring Results"
#1 Challenge in current position as CLO
[T&D Magazine, The CLO Path,
February 2006]



Learning Measurement Resource Allocation

81% of resources for measurement today are tied up in administrative activities (collection, aggregation, filtering, reporting) leaving less than 20% for analysis and decision-making. Technology reverses that ratio – 80% on analysis and 20% on administration.



Source: KnowledgeAdvisors Learning Analytics Best Practices Research Study, 2004.

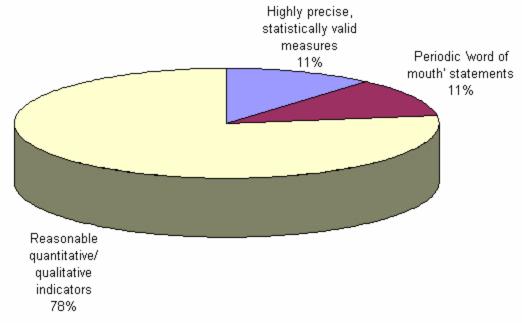


Measurement 'Reasonable Indicators'

Independent studies have shown that there is an enormously high cost to data accuracy versus obtaining a reasonable indicator.

Organizations should balance when to take the extra time and money to yield highly statistical results. Given how executives make decisions, often times reasonable data provided in a more timely manner outweighs data with more precision delivered in a less timely manner.

In your organization, what best describes the level of accuracy that analytics must have in order to be perceived as useful for information decision-making purposes of senior management?

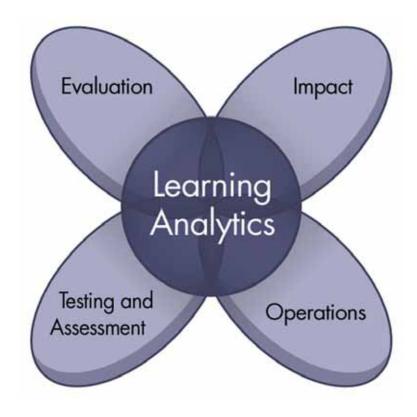


Source: KnowledgeAdvisors Learning Analytics Best Practices Research Study, 2004.



Enter Learning Analytics

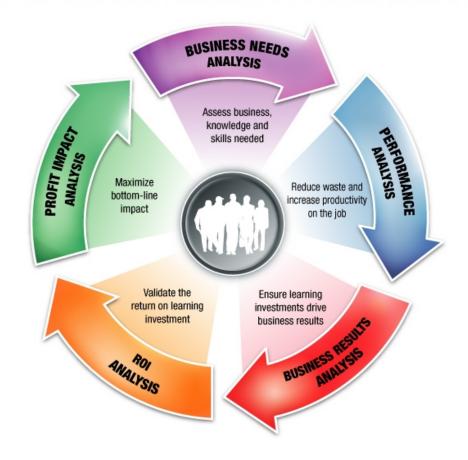
Learning Analytics technology helps organizations understand how to better train & develop employees, partners and customers.



Analytics Model

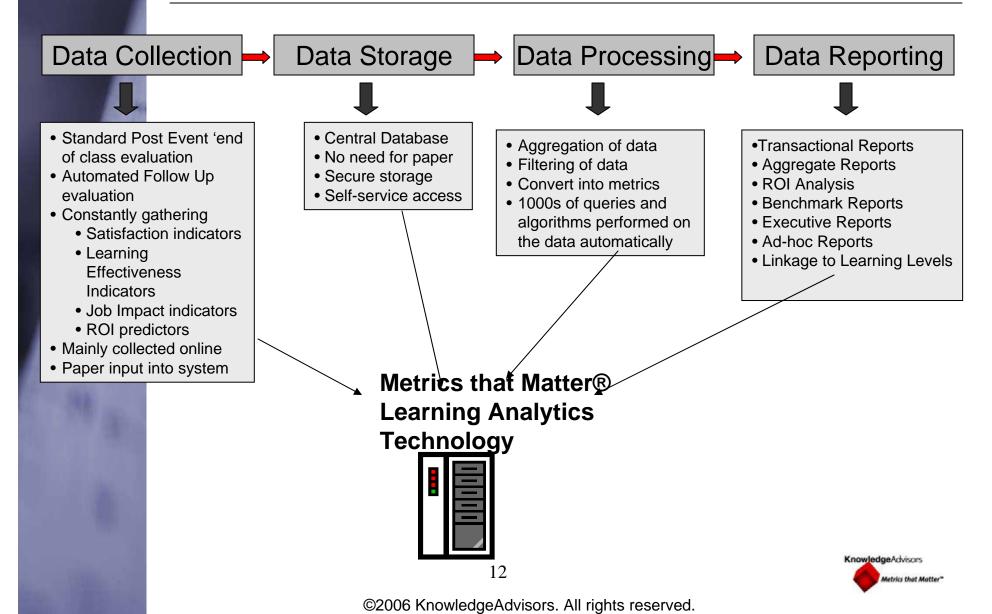
HUMAN CAPITAL CONTRIBUTION MODEL™

A process and toolset enabling learning organizations to measure and improve business results and bottom-line impact.

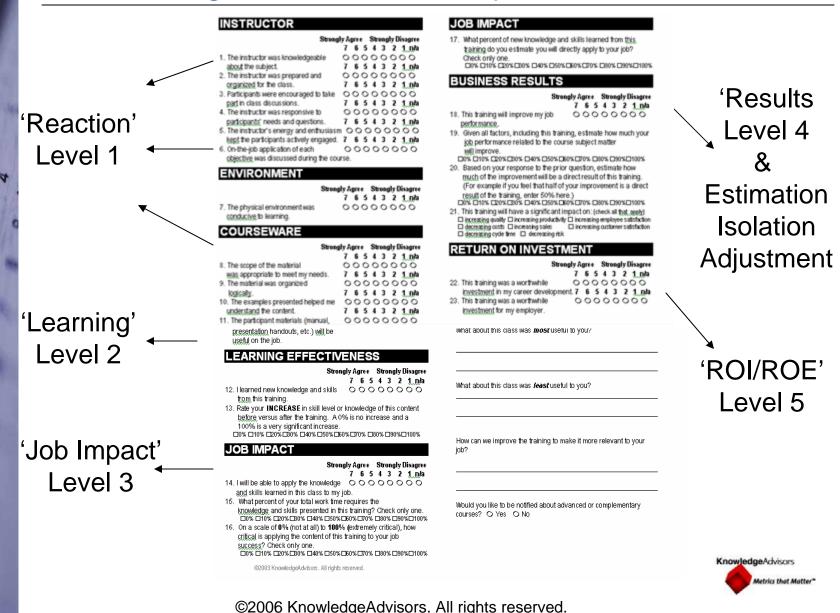




Analytics Process



KnowledgeAdvisors Analytics Standards



KnowledgeAdvisors Analytics Templates

A tool enabling the learning team to conduct more comprehensive business impact and ROI analysis. The tool allows you to store actual business results tied to multiple programs and show trainings impact and ROI.

Save Edit				
Sales Training Worksheet - Analyst Re	esults Report	summary of comprehensive b	usiness impact and	ROI analysis
Business Result: Increased Sales				
Defined as: Closed Sales per Year				
Change in Metric				
Change in weard	Group Trained		Control Group	
	Metric	Monetary Value	Metric	Monetary Value
Metric BEFORE Training	45	\$90,000	45	\$90,000
Metric AFTER Training	70	\$140,000	48	\$96,000
Percent Change	56%	\$50,000	7%	\$6,000
Root Cause of Change				
	Group Trained		Control Group	
	Metric	Monetary Value	Metric	Monetary Value
Personal	15%	\$7,500	12%	\$720
Technology	0%	\$0	0%	\$0
External Factors	15%	\$7,500	30%	\$1,800
Procedure/Policy	5%	\$2,500	5%	\$300
Incentives	10%	\$5,000	15%	\$900
Training	55%	\$27,500	0%	\$0
Other	0%	\$0	38%	\$2,280
Total	100%	\$50,000	100%	\$6,000
Adjustment in estimations	65%			
Business impact from training	20%	\$17,875		
Cost of training		\$6,000		
ROI of training		\$11,875		
Benefit to Cost Ratio		3		
Payback Period in Months		4		
ROI Percentage		197.9%		

^{*}Sample numbers for demonstration only.



KnowledgeAdvisors Analytics Dashboards

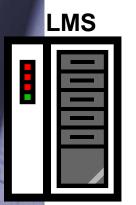
A tool enabling the learning team to conduct more comprehensive actual results tracking and analysis. The tool allows you to store actual results (revenue, cost per student day, test scores) and trend them against goals and prior performance.

Metrics That Matter Standard Business Results					
Actual Results	Jan 31 2006	Feb 28 2006			
Productivity (revenue per employee)	170,454.55	200,000.00			
Revenue Growth (period over period growth rate)		0.33%			
Profitability (human capital contribution margin (Revenue - Payroll and L&D / Revenue))	0.46%	0.48%			
Learning Activity (# of learners completing training)	10	22			
Investment (Actual L&D Expense)	25,000.00	100,000.00			
Goals	Jan 31 2006	Feb 28 2006			
Productivity (revenue per employee)	200,000.00	200,000.00			
RevenueGrowth (period over period growth rate)		0.00%			
Profitability (human capital contribution margin (Revenue - Payroll and L&D / Revenue))	0.49%	0.49%			
Learning Activity (# of learners completing training)	20	20			
Investment (Actual L&D Expense)	50,000.00	50,000.00			
Custom Business Results					
Actual Results	Jan 31 2006	Feb 28 2006			
Error Rates (Transaction Errors)	12.00%	9.00%			
Test Results (Level 2 Test Pass Rates)	70.00%	85.00%			



^{*}Sample numbers for demonstration only.

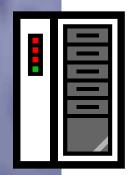
Data Integrations



The passing of learner course completion information from LMS triggers MTM to send a post-event survey to learner via email. The

Upon completion of a learning intervention, LMS sends course, class, learner, manager etc. information to MTM via XML.

Metrics that Matter™



results go back to the MTM 'Post Event' instrument database.

MTM recognizes that it has been 60 days since learner completed a course and emails a follow up survey automatically to that learner. The results go back to the MTM database.

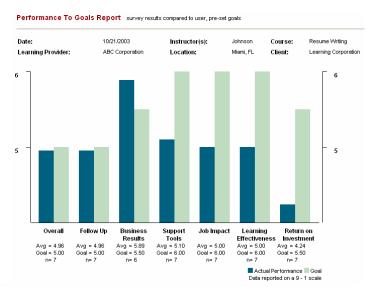
At the same 60 day point, MTM also sends a follow up survey to the learner's manager. The results go back to the MTM database.



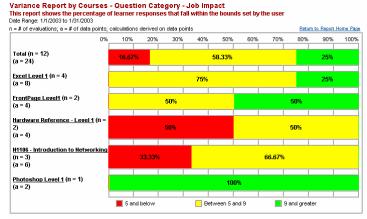


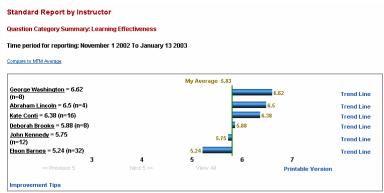
'Follow Up' instrument

Analytics Reports









*Sample numbers for demonstration only.



Benchmarking / Goal Setting



Benchmark across the key performance indicators on your evaluation forms that link back to the 5 levels of learning measurement. Compare the actual performance to goals and to internal or external benchmarks so you properly monitor using a balanced scorecard approach.

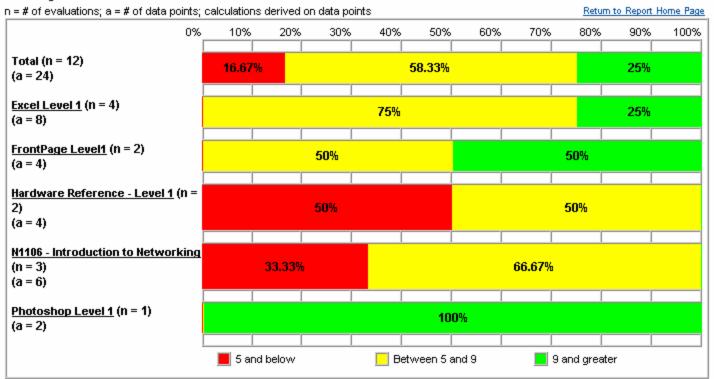


Measure Impact Easily

Variance Report by Courses - Question Category - Job Impact

This report shows the percentage of learner responses that fall within the bounds set by the user

Date Range: 1/1/2003 to 1/31/2003



The job impact by course indicators clearly show which courses are having the biggest affect on the job. This report stratifies the responses by the percent that fall above or below ranges of performance. Percentages in red are indicators of little or no job impact versus percentages in green represent significant job impact.



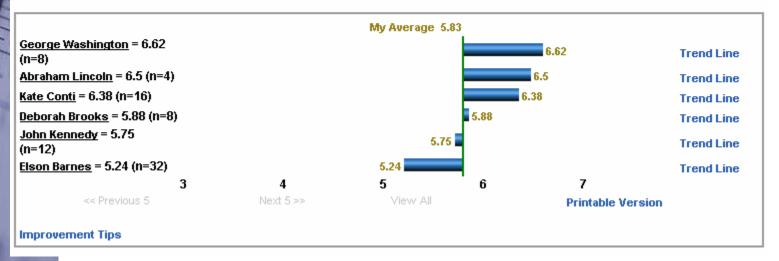
Who are my top instructors?

Standard Report by Instructor

Question Category Summary: Learning Effectiveness

Time period for reporting: November 1 2002 To January 13 2003

Compare to MTM Average



Monitor trainers' performance across key indicators such as learning effectiveness. Then compare each trainer to an internal or external average for more proactive monitoring by measurement.



Examples of Macro Learning Constructs

- Operational
 - Activity constructs (how much we train)
- Performance
 - Optimization constructs (how well we train)
- Financial
 - Budget/Fiscal constructs (how much it costs)
- Cultural
 - Supportive Environment (how conducive is it)

Note: these constructs are part of KnowledgeAdvisors Metrics that Matter® standards



Sample Input Tools to Store and Track Data



A template to add, edit, and manage your dashboard metrics. This is an example of the operational dashboard metrics added to a web-based template. Metrics can be added manually or via a feed from other systems (HRIS, LMS, financial)



Sample Dashboards to Analyze Metrics

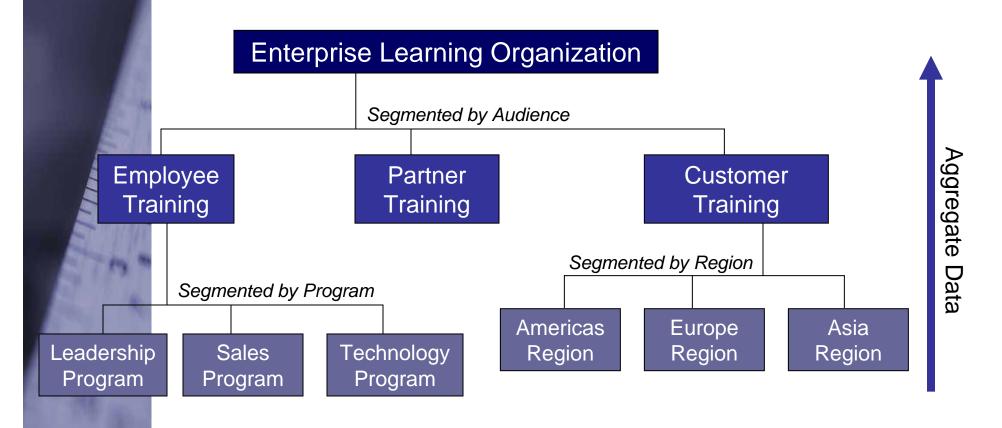
Operational Actual Results	Jan 31 2006	Feb 28 2006	Mar 31 2006				
# of Students Trained (ILT attendees per month)	50	91	120				
E-Learning Utilization Rate (% of e-courses accessed)	25.00%	50.00%	90.00%				
Speed to Market (Days to Respond to Client Training Need)	45	30	5				
Instructor Utilization Rate (Days of Instructor Time)	85	80	70				
Goals	Jan 31 2006	Feb 28 2006	Mar 31 2006				
# of Students Trained (ILT attendees per month)	100	100	100				
E-Learning Utilization Rate (% of e-courses accessed)	75.00%	75.00%	75.00%				
Speed to Market (Days to Respond to Client Training Need)	15	15	15				
Instructor Utilization Rate (Days of Instructor Time)	85	85	85				
Legend - Actual Results							
	>= 10% positive variance from prior result						
0.00 >= 10% positive variance fro	m prior result						
0.00 >= 10% positive variance fro 0.00 Between 10% positive varian	•	re variance from	prior result				

_								
	Performand Actual Resu	e Its	Mar 31 2006	Jun 30 2006	Sep 30 2006			
	Revenue Growth	(Period over Period Sales)	75,000.00	50,000.00	120,000.00			
	Training Impact Percent Linked t	on Sales (Isolated and Adjusted o Training)	2.00%	1.00%	7.00%			
	Productivity Per Employees)	Employee (Revenue /	600.00	500.00	1,300.00			
	Leaming Effecti	veness (Average Test Scores)	75	78	90			
		Time to Job Impact (% of Employees Applying Training in First 60 Days)		37.00%	90.00%			
	Goals		Mar 31 2006	Jun 30 2006	Sep 30 2006			
	Revenue Growth (Period over Period Sales)		100,000.00	100,000.00	100,000.00			
	Training Impact on Sales (Isolated and Adjusted Percent Linked to Training)		5.00%	5.00%	5.00%			
	Productivity Per Employee (Revenue / Employees) Learning Effectiveness (Average Test Scores)		1,000.00	1,000.00	1,000.00			
			85	85	85			
	Time to Job Impact (% of Employees Applying Training in First 60 Days)		70.00%	70.00%	70.00%			
	Legend - Actual Results							
	0.00 >= 10 % positive variance from prior result							
J	0.00 Between 10% positive variance and 10% negative variance from prior result							
	0.00 >= 10% negative variance from prior result							

A report showing actual results over time with a color coded analysis to compare variances against prior periods and goals/benchmarks.



Enterprise Solutions Capabilities



Metrics that Matter can organize and aggregate data to match an enterprise learning organizational structure

Metrics to



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