

Measuring the ROI in Technology-Enabled Learning

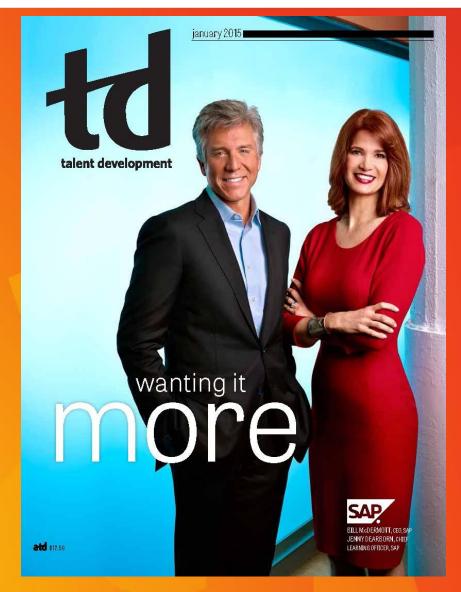
Patti Phillips
President and CEO
ROI Institute





Stephanie Castellano
Writer/Editor
TD magazine





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Patti Phillips, President and CEO ROI Institute

Dr. Patti Phillips is president and CEO of the ROI Institute, Inc., the leading source of ROI competency building, implementation support, networking, and research. A renowned expert in measurement and evaluation, she helps organizations implement the ROI Methodology in over 60 countries. She serves as Principal Research Fellow for The Conference Board's Human Capital Analytics Practice and serves as faculty on the UN System Staff College in Turin, Italy.

She, along with her husband Jack Phillips, contributes to a variety of journals and has authored a number of books on the subject of accountability, analytics, and ROI.



Measuring the ROI in Technology-Enabled Learning

January 20, 2015

Patti Phillips Ph.D. patti@roiinstitute.net

Objectives

- Identify the steps in the ROI Methodology
- Determine which programs to evaluate to ROI
- Identify actions they can take to move forward with ROI



Levels of Evaluation	Measurement Focus	Typical Measures	
0. Inputs and Indicators	The input into the project in terms of scope, volume, efficiencies, costs	Participants, Hours, Costs, Timing	
1. Reaction & Perceived Value	Reaction to the project or program, including the perceived value	Relevance, Importance, Usefulness, Appropriateness, Intent to use, Motivation to take action	
2. Learning & Confidence	Learning to use the content and materials, including the confidence to use what was learned	Skills, Knowledge, Capacity, Competencies, Confidence, Contacts	
3. Application & Implementation	Use of content and materials in the work environment, including progress with actual items and implementation	Extent of use, Task completion, Frequency of use, Actions completed, Success with use, Barriers to use, Enablers to use	
4. Impact and Consequences	The consequences of the use of the content and materials expressed as business impact measures	Productivity, Revenue, Quality, Time, Efficiency, Customer Satisfaction, Employee Engagement	
5. ROI	Comparison of monetary benefits from program to program costs	Benefit-Cost Ratio (BCR), ROI%, Payback Period	

The ROI calculation is simple.

Try it!

$$ROI = \frac{\$750,000 - \$425,000}{\$425,000} \times 100$$

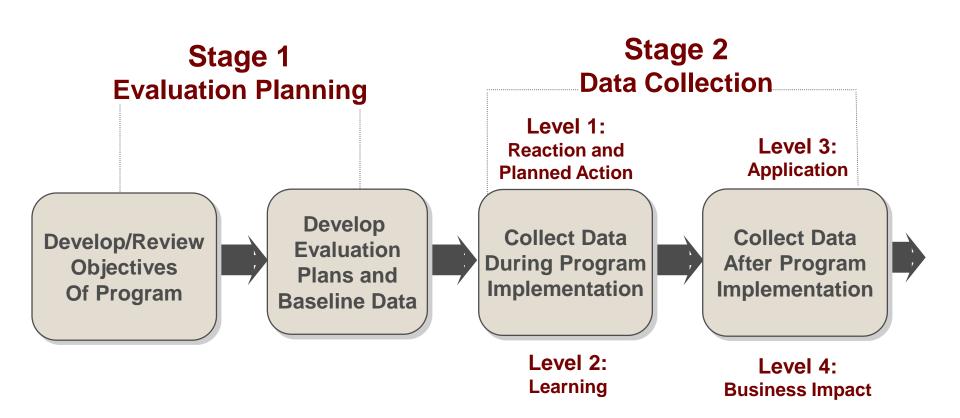
The ROI Calculation

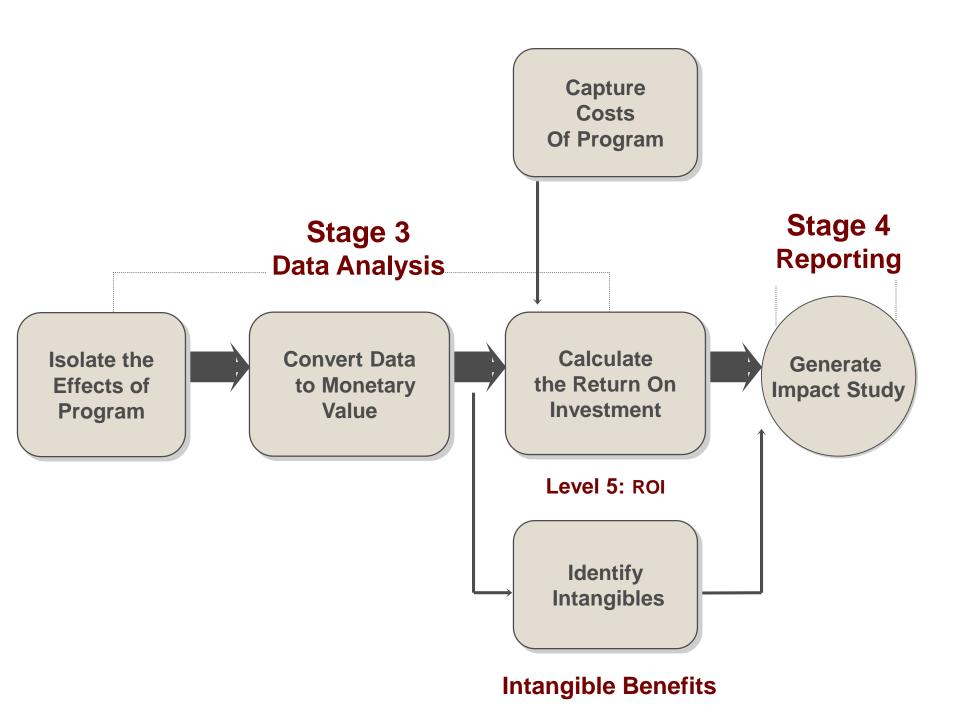
$$ROI = \frac{\$750,000 - \$425,000}{\$425,000} \times 100 = 76\%$$

What Makes a Good ROI?

- 1. Set the value at the same level as other investments 15%
- 2. Set slightly above other investments 25%
- 3. Set at breakeven 0%
- 4. Set at client expectations
- → What value would be appropriate?
 What is an acceptable ROI in your organization?

ROI Methodology

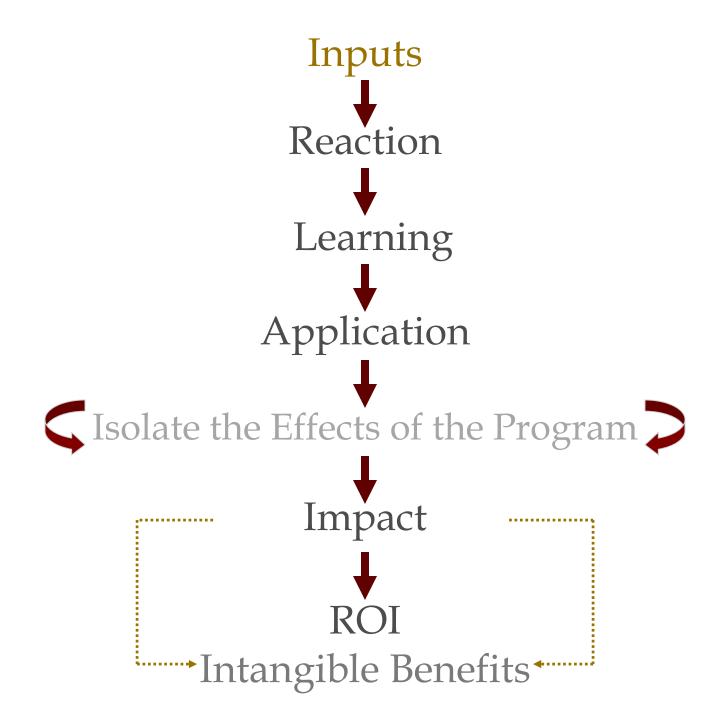




Operating Standards

- 1. Report the complete story
- 2. Conserve resources
- 3. Use the most credible sources
- 4. Choose the most conservative alternatives
- 5. Isolate the effects of the program
- 6. No data no improvement
- Adjust estimates for error
- 8. Throw out the extreme and unsupported
- 9. Use first year benefits for short-term programs
- 10.Include fully-loaded costs
- 11. Report intangible benefits
- 12. Communicate results to all stakeholders



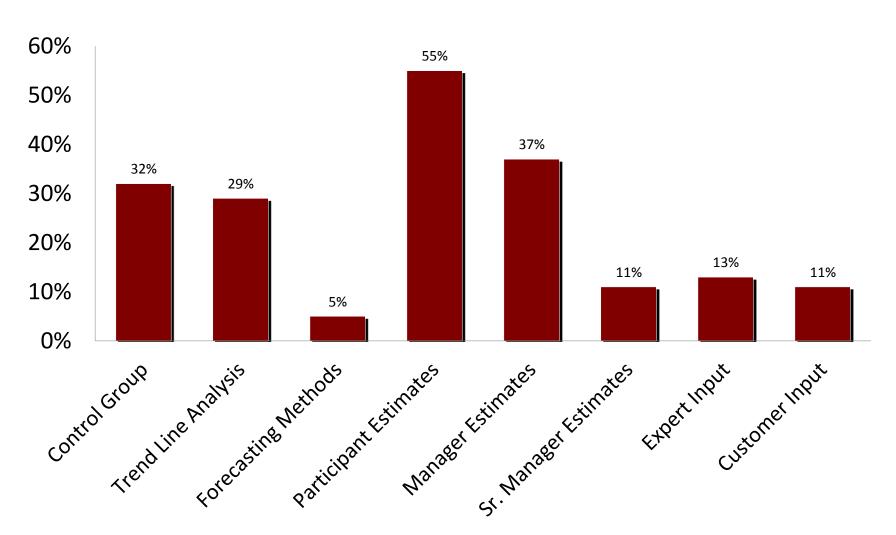


Method	Level 1	Level 2	Level 3	Level 4
Surveys	✓	✓	✓	
Questionnaires	✓	✓	√	√
Observation		✓	√	
Interviews	✓	√	√	
Focus Groups	✓	✓	✓	
Tests/Quizzes		✓		
Demonstrations		✓		
Simulations		✓		
Action Planning/Improvement Plans			√	√
Performance Contracting			√	√
Performance Monitoring				√

Isolating the Effects of the Program

Frequency of Methods Used

* Survey of Users, N = 235



Classic Control Group Design

What is the difference in the change in performance?

Experimental Group

Pre Measure — Program — Post Measure

Control Group

Pre Measure ————————— Post Measure

Post-Program Only Design

What is the difference?

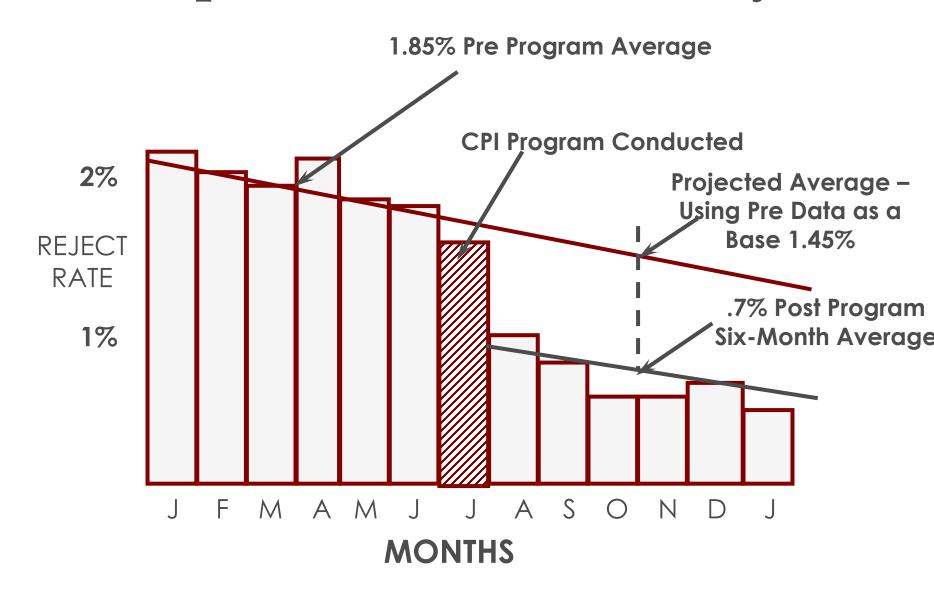
Experimental Group

Program ———— Post Measure

Control Group

Post Measure

Example of Trend Line Analysis





Example of Estimation

Average monthly decrease in safety incidents: 20 (fact)

Contributing Factors	Consensus Impact (%)	Average Confidence (%)
Safety training	32%	83%
Equipment changes	41%	87%
Field mentoring	14%	62%
Performance management	11%	75%
Other	2%	91%
	100%	

Estimations

Influence	Fact	% Contrib.	Est. Impact	Confidence	Adjusted Impact
Safety Training	20	32%	6.4	83%	5.3

Fact: 20 Safety Incidents

7.5

% Contribution: 32%

Est. Impact: 6.4

6.4

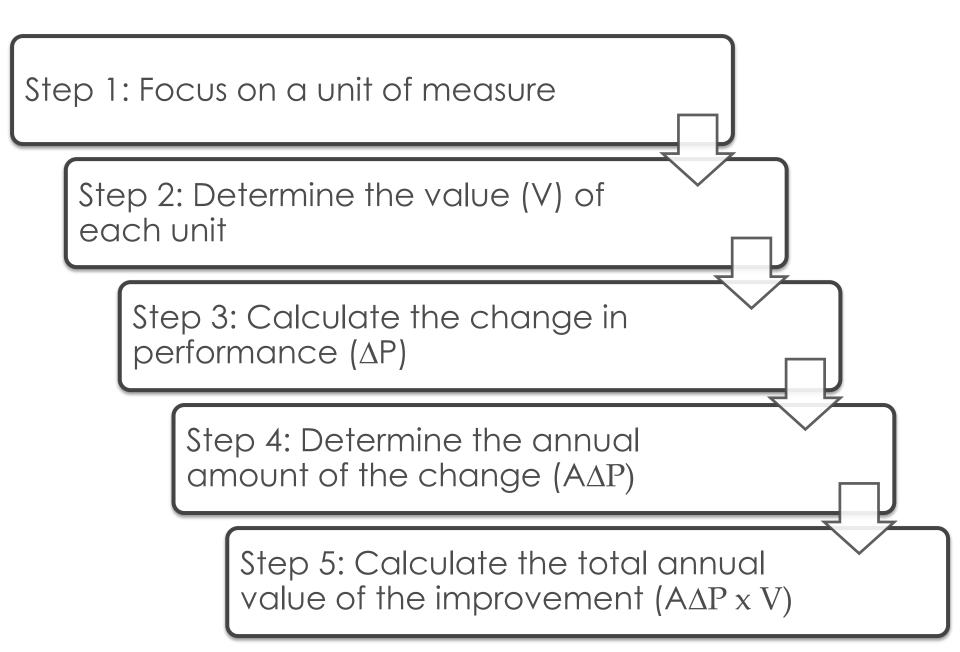
Uncertainty 17%

Margin of Error: +/- 1.09

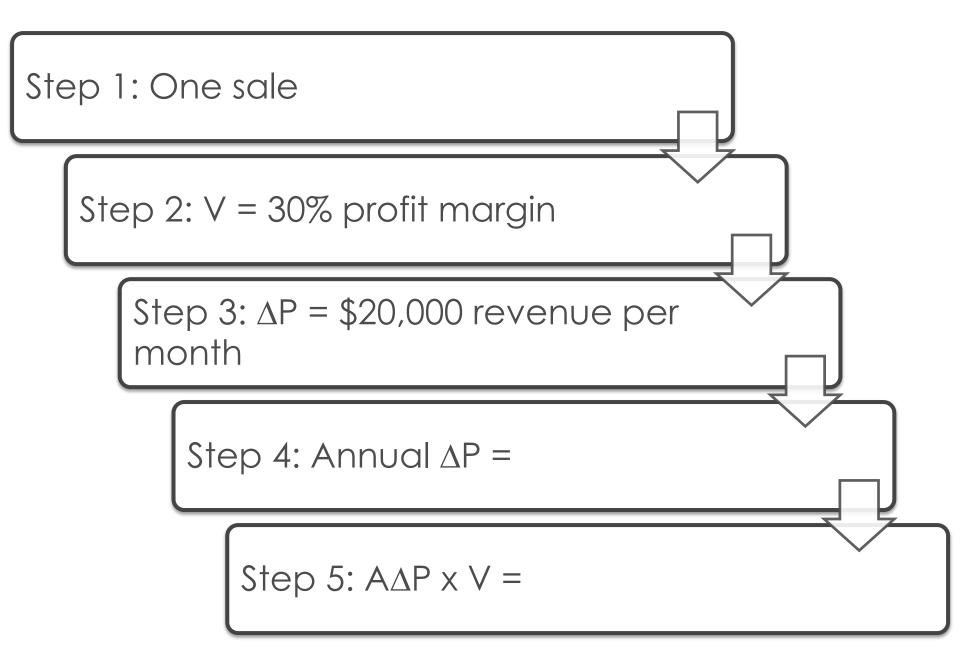
Converting Data to Money

- Converting output to contribution standard value
- Converting the cost of quality standard value
- Converting employee's time standard value
- Using historical costs
- Using internal and external experts
- Using data from external databases
- Linking with other measures
- Using participants' estimates
- Using supervisors' and managers' estimates
- Using staff estimates

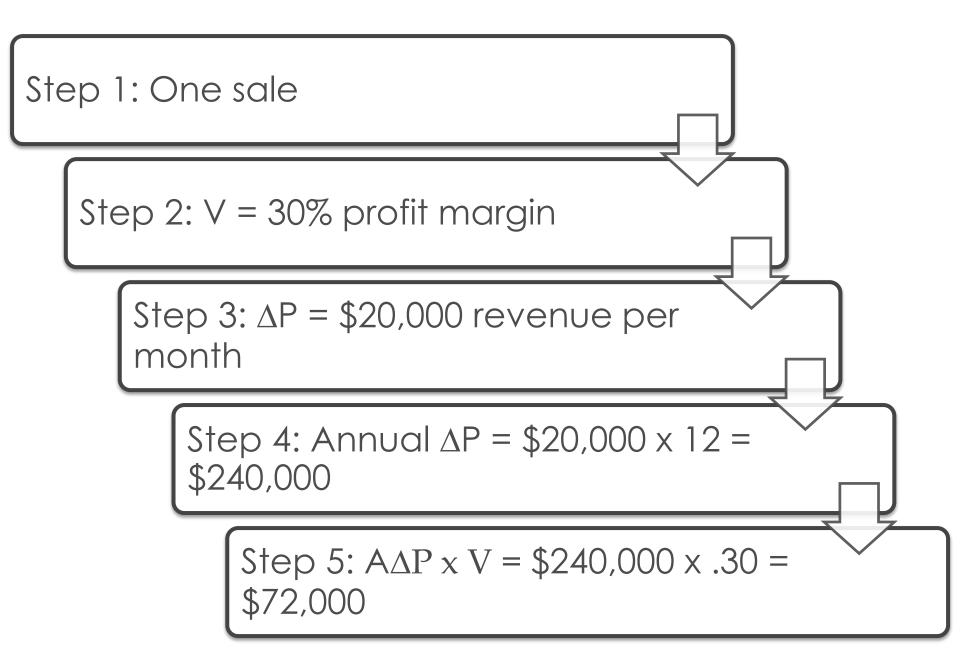
5 Steps to Convert Impact to Money



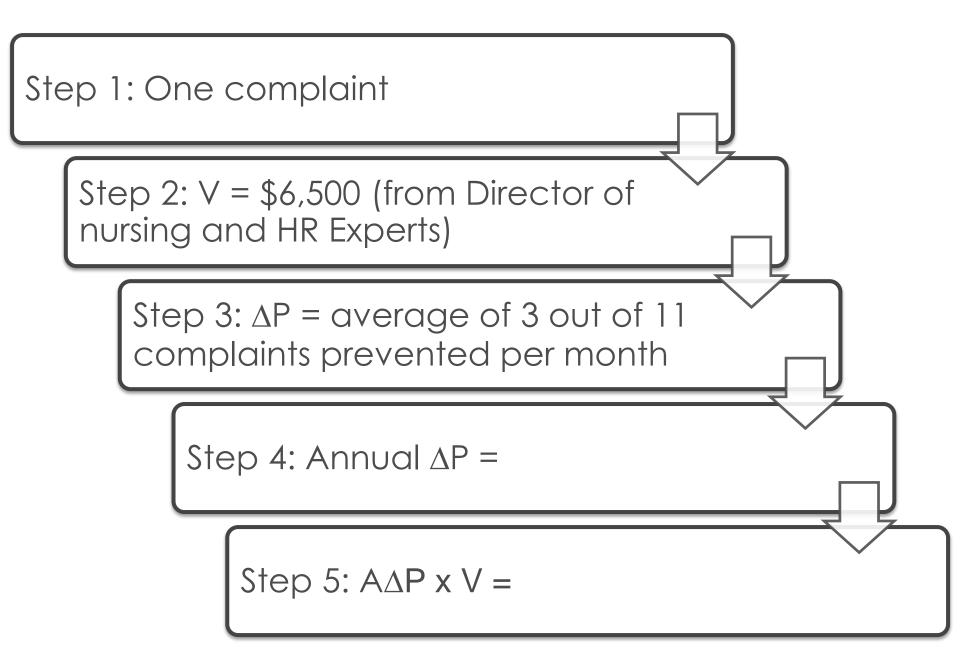
Example Using Standard Values



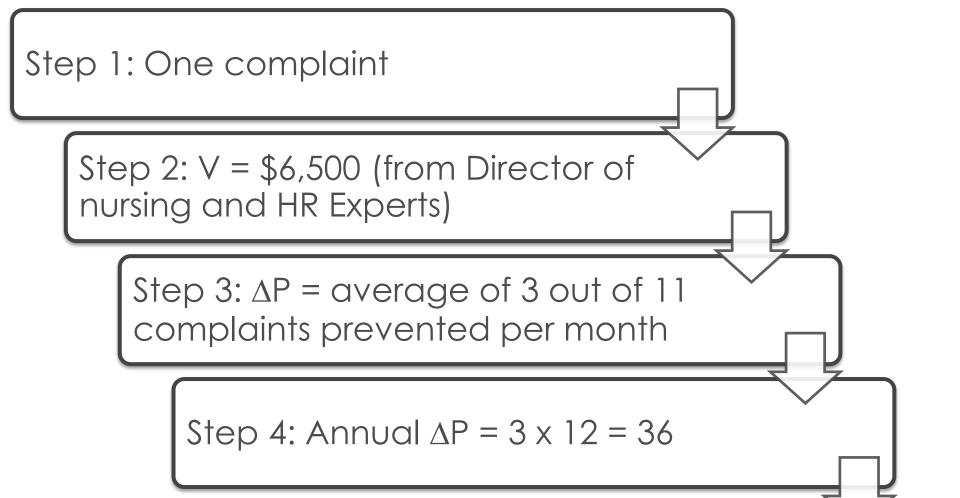
Example Using Standard Values



Example Using Internal Experts



Example Using Internal Experts



Step 5: $A\Delta P \times V = 36 \times \$6,500 = \$234,000$

Fully-Loaded Costs

- ✓ Assessment Costs (prorated)
- ✓ Development Costs (prorated)
- ✓ Acquisition Costs (prorated)
- ✓ Program Materials*
- ✓ Instructor/Facilitator Costs
- √ Facilities Costs*
- √ Hardware/Software
- ✓ Travel/Lodging/Meals*
- ✓ Participants Salaries and Benefits
- ✓ Maintenance and Monitoring
- ✓ Administrative/Overhead Costs
- ✓ Evaluation Costs

Typical Intangible Benefits

- Adaptability
- Awards
- Brand awareness
- Career minded
- Caring
- Collaboration
- Communication
- Conflicts

- Cooperation
- Corporate social responsibility
- Creativity
- Culture
- Customer complaints
- Customer response time
- Customer satisfaction
- Decisiveness

Typical Intangible Benefits

- Employee complaints
- Engagement
- Execution
- Image
- Innovation
- Job satisfaction
- Leadership
- Networking

- Organizational climate
- Organizational commitment
- Partnering
- Reputation
- Resilience
- Stress
- Talent
- Teamwork

Next Steps

Assess your readiness for ROI

Identify stakeholders and their data needs

Determine the purpose of your evaluation practice

Identify programs suitable for ROI

Develop capability in the ROI Methodology

ROI CERTIFICATION - US

FEBRUARY 9-13
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SunTrust

MARCH 9-13 Santa Clara, CA Hosted by Qualcomm

APRIL 6-10 Chicago, IL Hosted by ACCO APRIL 27-MAY 1 San Antonio, TX Hosted by USAA

MAY 4-8
Dallas, TX
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True Solutions

MAY 11-15 San Diego, CA Hosted by Scripps Health Care MAY 18-22 Orlando, FL Hosted by Market Traders Institute

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CASE STUDIES BOOKS BROCHURES APPLICATION GUIDES PROCESS MODELS

CONTACT US AT: info@roiinstitute.net



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Bonus *TD* webcast on leadership development March 24, 2pm EST