The ROI Methodology

in 10 Easy Steps

A step-by-step guide for developing ROI impact studies for programs, projects, and solutions in the following areas:

- Human Resources/Human Capital
- Training/Learning/Development
- Leadership/Coaching/Mentoring
- Knowledge Management
- Organization Consulting/Development
- Policies/Procedures/Processes
- Recognition/Incentives/Engagement
- Change Management
- Technology/Systems/IT
- Green Projects/Sustainability Projects
- Safety and Health Programs

- Talent Management/Retention
- Project Management Solutions
- Quality/Six Sigma/Lean Engineering
- Meetings/Events/Conferences
- Marketing/Advertising
- Communications/Public Relations
- Public Policy/Social Programs
- Risk Management
- Ethics/Compliance
- Healthcare Initiatives
- Wellness and Fitness Programs

The ROI Methodology is a balanced approach to measurement that captures six types of data:

- Reaction and Planned Action Level 1
- Learning Level 2
- Application and Implementation Level 3
- Business Impact Level 4
- Return on Investment Level 5
- Intangibles

The process always includes a technique to isolate the effects of the project, program, solution, meeting, event, system, procedure, or initiative.
Evaluation begins with the objectives of the program, project, or solution. The objectives must go beyond typical learning objectives and include up to five levels of data.

1. Reaction objectives describe desired immediate reaction to the program, highlighting issues that are important to the success of the program and emphasizing planned action, if feasible.

**Examples**: After completing this project, participants should:
- Indicate an intention to implement new procedure(s) within two months
- Rate the program at least 4.5 out of 5.0 on relevance to current job
- Perceive the project to be important for the organization

2. Learning objectives communicate expectations for obtaining new information, skills, and knowledge and describe competent performance that should be connected with learning.

**Examples**: After completing this project, participants should:
- Score 75 or higher on the new product quiz
- Achieve a leadership simulation test score average of 75
- Be able to identify the five elements of the new strategy

3. Application objectives describe intermediate outcomes, including use of skills and knowledge, on-the-job performance changes, and program implementation.

**Examples**: After completing this project, participants should:
- Use counseling skills in 90% of situations where performance is substandard
- Complete all items on action plan in one month
- Use the new software daily as reflected by an 80% score on a user profile in one month

4. Impact objectives describe consequence of applying skills or implementing the project and are expressed as specific measures of output, quality, cost, time, and satisfaction.

**Examples**: As a result of implementing this project, there should be:
- A 10% increase in sales in six months
- A 20% decrease in the time required to complete a project in three months
- A decrease in downtime of at least 30% within six months

5. ROI objectives set the acceptable level of monetary benefits versus costs of the program and may be expressed as an ROI percentage, a benefit-to-cost ratio, or a time for payback.

**Examples**: After comparing the benefits to the costs, the project should:
- Achieve at least a 20% return on investment within the first year
- Achieve a 2:1 benefit-cost ratio
- Realize an investment payback within six months

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**Business Alignment**

Project objectives are developed based on needs. The needs assessment begins with a review of the opportunity to be realized if the proposed project is implemented. Is there an opportunity for a positive payoff? Is this a problem worth solving or an opportunity worth exploring? Next, the business needs are identified. What specific business measures will be influenced with this project? The business needs are met by changing individual performance. What should the participants do or stop doing to change the business measure? Performance needs are met by implementing new knowledge/skills presented to the participants. What specific knowledge, skills, or information do participants need for the new performance? Finally, preference needs focus on how the stakeholders, including the participants, should perceive the project in terms of value and need. The project is developed to achieve the objectives at each level. The project can be evaluated at each level, based on the objectives. The V Model on the next page illustrates this process as it presents the relationship between needs assessment, objectives, and evaluation.
The 10 steps in the ROI Methodology are logical and systematic, often labeled the enhanced logical framework.

The Phillips ROI Methodology Model

- Evaluation Planning
  - Develop Objectives of Project
  - Develop Evaluation Plans and Baseline Data
  - Input/Indicators

- Data Collection
  - Collect Data During Project Implementation
  - Collect Data After Project Implementation
  - 1. Reaction and Planned Action
  - 2. Learning
  - 3. Application and Implementation
  - 4. Impact

- Data Analysis
  - Isolate the Effects of Project
  - Convert Data to Monetary Value

- Reporting
  - Capture Costs of Project
  - Calculating the Return on Investment
  - Identify Intangibles
  - Intangible Benefits
  - Develop Report and Communicate Results

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Planning begins as soon as it is decided that an impact/ROI study should be conducted and typically involves key stakeholders. All important decisions for the study are made early through evaluation planning. This step involves completing three documents: data collection plan, ROI analysis plan, and evaluation project plan.

**DATA COLLECTION PLAN**

Data collection planning answers fundamental questions about data collection: What, How, Who, When, Where, and How Much?

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Measures/Data</th>
<th>Data Collection Method</th>
<th>Data Sources</th>
<th>Timing</th>
<th>Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Level 1 Reaction and Planned Action</strong></td>
<td>• Relevance and importance to the job  • Coach’s effectiveness  • Recommendation to others</td>
<td>• 4 out of 5 on a 1 to 5 rating scale</td>
<td>• Questionnaire</td>
<td>• Executive</td>
<td>• NHLO Staff</td>
</tr>
<tr>
<td><strong>Level 2 Learning</strong></td>
<td>• Uncovering strengths/weaknesses  • Translating feedback into action  • Involving team members  • Communicating effectively</td>
<td>• 4 out of 5 on a 1 to 5 rating scale</td>
<td>• Questionnaire</td>
<td>• Executive  • Coach</td>
<td>• NHLO Staff</td>
</tr>
<tr>
<td><strong>Level 3 Application/Implementation</strong></td>
<td>• Complete and adjust action plan  • Identify barriers and enablers  • Show improvements in skills</td>
<td>• Checklist for action plan  • 4 out of 5 on a 1 to 5 rating scale</td>
<td>• Action Plan  • Questionnaire</td>
<td>• Executive  • Coach</td>
<td>• NHLO Staff</td>
</tr>
<tr>
<td><strong>Level 5 ROI</strong></td>
<td>• 25% ROI</td>
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</tbody>
</table>

**Comments:** Executives are committed to providing data. They fully understand all data collection issues prior to engaging in the coaching assignment.
ROI ANALYSIS PLAN

The ROI Analysis Plan details how improvement in business measures will be isolated to the project and converted to monetary value. Cost categories, intangible benefits, and target audiences for communication are also identified.

**Project:** Coaching for Business Impact  
**Responsibility:**  
**Date:**

<table>
<thead>
<tr>
<th>Data Items (Usually Level 4)</th>
<th>Methods for Isolating the Effects of the Project</th>
<th>Methods of Converting Data to Money</th>
<th>Cost Categories</th>
<th>Intangible Benefits</th>
<th>Communication Targets for Final Report</th>
<th>Other Influences/Issues During Application</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales growth</td>
<td>Estimates from executives (The method is the same for all data items)</td>
<td>Standard values</td>
<td>Initial needs assessment</td>
<td>Increased commitment</td>
<td>Executives</td>
<td>A variety of initiatives will influence the impact measures including our Six Sigma process, service excellence project, and our efforts to become a great place to work.</td>
<td>Securing commitment from executives to provide accurate data in a timely manner is extremely important.</td>
</tr>
<tr>
<td>Productivity/operational efficiency</td>
<td>Expert input</td>
<td>Expert input</td>
<td>Coaching fees</td>
<td>Reduced stress</td>
<td>Coaches</td>
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<tr>
<td>Direct cost reduction</td>
<td>Executive estimates (The three methods are the same for all data items)</td>
<td>Travel costs</td>
<td>Increased job satisfaction</td>
<td>Improved customer service</td>
<td>Senior executives</td>
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<tr>
<td>Retention of key staff members</td>
<td>Executive time</td>
<td>Executive time</td>
<td>Improved teamwork</td>
<td>Improved teamwork</td>
<td>Coaching supplier firm</td>
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<td>Customer satisfaction</td>
<td>Administrative support</td>
<td>Administrative support</td>
<td>Improved communications</td>
<td>Improved communications</td>
<td>NHLO staff</td>
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<td>Telecom expenses</td>
<td>Facilities</td>
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<td>Learning &amp; development council</td>
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<td>Evaluation</td>
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<td>Prospective participants for CBI</td>
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</table>

**EVALUATION PROJECT PLAN**

The project plan details each step of the evaluation.

<table>
<thead>
<tr>
<th>Step</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
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<tbody>
<tr>
<td>Decide to Conduct ROI Study</td>
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<td>Complete Evaluation Planning</td>
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<td>Pilot Test Instruments</td>
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<td>Collect Data from Group A</td>
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<td>Collect Data from Group B</td>
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<tr>
<td>Summarize Data</td>
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<td>Conduct Analysis</td>
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<td>Write and Print Report</td>
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<td>Communicate Results</td>
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<td>Initiate Improvements</td>
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<td>Complete Improvements</td>
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</table>
Two types of data are collected during a project’s implementation: (1) Reaction and (2) Learning.

**REACTION DATA**

The typical methods for capturing reaction data are:

- **Feedback questionnaires**—simple, straight-forward and easy to tabulate
- **Action plans**—measures intent to use with planned actions
- **Interviews**—sometimes used when the project is in its first offering, to help probe for and capture detail
- **Focus groups**—used when it is important for participants to hear the input of others

The typical topics covered for reaction data are:

**Project Design**
- Objectives
- Timing
- Materials
- Duration
- Location

**Project Implementation**
- Delivery method
- Facilitator/coordinator
- Facilities/environment
- Service

**Project Value**
- Necessary
- Motivational
- Useful
- Relevant *
- Practical
- Good Investment
- Important to success *
- Valuable
- New information *
- Recommend to others *
- Overall satisfaction with project
- Planned improvements
- Intent to use *

*Usually correlates with application

**LEARNING DATA**

Learning data are captured through a variety of measurement processes, ranging from formal testing to informal self-assessments. Several methods are used, including:

- **Surveys and questionnaires**—determine the extent to which participants have acquired skills, knowledge, and information
- **Facilitation assessments**—ratings from facilitators or project leaders based on observations during the project
- **Written tests and exercises**—measure changes in knowledge and skills
- **Skill practices**—help assess the degree of applied learning and acquisition of problem-solving skills
- **Performance demonstrations**—provide direct evaluation of the ability to apply knowledge and skills
- **Simulations**—enable assessment of skills and knowledge acquisition
- **Team assessments**—assess the extent of skills and knowledge acquisition
- **Skill/confidence building exercises**—an interactive approach to capturing skill and knowledge levels

The typical topics covered by learning data are:

- Skills
- Knowledge
- Capability
- Perception
- Capacity
- Readiness
- Competency
- Confidence
- Awareness
- Networking
- Information
Two types of data are collected after a project is implemented: (3) Application and (4) Impact.

APPLICATION AND IMPACT DATA

One of the most important challenges is to collect data after the project has been implemented using a variety of follow-up methods. The typical methods are:

<table>
<thead>
<tr>
<th>Method</th>
<th>Level 3</th>
<th>Level 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey</td>
<td>✔</td>
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</tr>
<tr>
<td>Questionnaires</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Observation</td>
<td>✔</td>
<td></td>
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<tr>
<td>Interviews</td>
<td>✔</td>
<td></td>
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<tr>
<td>Focus Groups</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Action Planning</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Performance Contracting</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Performance Monitoring</td>
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<td>✔</td>
</tr>
</tbody>
</table>

- **Surveys**—taken to determine how extensively the participants have used various aspects of the project
- **Questionnaires**—usually more detailed than surveys and can be used to uncover a wide variety of data in open-ended and forced-response options
- **Observation**—captures actual skill application and use. Observations are particularly useful in customer service projects and are effective when the observer is either invisible or transparent
- **Interviews**—conducted to determine how extensively the project is used
- **Focus groups**—conducted to determine the extent to which the project is used
- **Action plans**—developed by participants during the project and are implemented after the project is completed. Follow-up on action plans provides evidence of application and business impact success
- **Performance contracts**—developed by the participant, the participant's supervisor, and the facilitator who all agree on performance outcomes
- **Performance monitoring**—useful where various performance records and operational data are monitored for changes

**Increasing Response Rates**

Improving response rates is a critical issue for post-project collection. When used consistently, the following techniques can achieve 70-80% response rate for questionnaires, surveys, or action plans:

- Provide advance communication about the follow-up data collection
- Review the instrument at the end of the formal session
- Clearly communicate the reason for the evaluation and how the data will be used
- Indicate who will see the results
- Keep the instrument simple and as brief as possible
- Keep responses anonymous—or at least confidential
- Provide options that make responding easy: paper (include a self-addressed, stamped envelope), email, web based
- Use local managers to distribute the instruments, show support, and encourage response
- If appropriate, let the target audience know that they are part of a carefully selected sample
- Use one or two follow-up reminders
- Have the introduction letter signed by a top executive
- Enclose a giveaway item with the instrument (pen, money, etc.)
- Provide an incentive (or a chance of an incentive) for a quick response
- Have a third party collect and analyze the data
- Communicate the time limit for submitting responses
- Send a summary of results to the target audience
- Design the instrument with a professional format to attract attention
- Let participants know what actions will be taken with the data

**TYPICAL IMPACT DATA**

- Output
- Efficiency
- Absenteeism
- Employee Engagement
- Revenue
- Costs
- Employee Turnover
- Cycle Time
- Productivity
- Accidents
- Customer Satisfaction
- Downtime
- Errors/Waste
- Incidents
- Employee Satisfaction
- Project Time
Step 5: Isolate the Effects of the Project

One of the most critical steps in the process is to isolate the effects of the project.

Control groups are used to isolate the project's impact. With this strategy, one group participates in a project, while another similar group (the control group) does not. Their performance is monitored in a parallel time frame.

Trend lines are used to show the values of specific output variables as if the project had not been undertaken. The projected trend is compared to the actual data after the project is conducted, and the difference represents the impact of the project, if certain conditions are met.

The amount attributed to the project is 62 gallons, if the pre-project trend would have continued and no other new influences entered in the post period.

A forecasting model is used when mathematical relationships between other influences and output measures are known.

The credibility of estimates is improved by following these specific steps:

1. Collect estimates from the most credible source
2. Start with facts (actual improvement)
3. Provide helpful information to the estimators
4. Collect the estimate in an unbiased and non-threatening way
5. Remove extreme data items, if applicable
6. Adjust for the error of the estimates
7. Report the data with proper explanation

While isolating the effects of the project with other influences is sometimes difficult, it is necessary for credibility of the study. Without this step, there is no proof that the project is connected to a business measure.
Step 6: Convert Data to Monetary Values

To calculate the ROI, improvement in business measures must be converted to money.

This step develops a monetary benefit for one or more impact measures linked to the project. It usually follows the step to isolate the impact of the project.

To calculate the monetary value:
1. Identify the unit of improvement, e.g. one first aid treatment
2. Determine the value of each unit (V), e.g. $300, a standard value
3. Determine the unit performance change (Δ), e.g. 6 incidents per month (experimental vs. control)
4. Determine the annual performance level change (ΔP), 6x12=72
5. Calculate the annual improvement value (V times ΔP), e.g. $300x72=$21,600

Several techniques are available to determine the value of a measure:

Internal or external experts are used to estimate a value for a unit of measure, based on their
- Position
- Experience
- Neutrality
- Knowledge
- Credentials
- Publications

External databases provide the value or cost of data items. Research, government, and industry databases—usually available through the Internet—can provide important information for these values. For example, the cost of employee turnover is readily available in a variety of databases accessible through the Internet. The value is expressed in a percent of annual pay for a target job group e.g. 1.2 times annual pay.

Soft measures are sometimes linked mathematically to other measures that are easier to convert to money. This approach is used for measures that are very difficult to convert to monetary values, but have links to other measures. For example, customer satisfaction (hard to value) is usually linked to revenue (easy to value):

![Positive Correlation](image)

Participants estimate the value of the unit of data. For this approach to be effective, participants must be capable of providing a value for the improvement and adjustments must be made for the error of the estimate.

Supervisors and managers provide estimates when they are capable of assigning values to the data item.

Participants’ wages plus employee benefits are used to develop the monetary value for time where employee time is saved. This is a standard formula in most organizations. The time saved must be legitimate, where the time savings is used on other productive work.

Historical costs, developed from cost statements and reports, are used to calculate the value for a specific measure. In this case, organizational cost data form the basis of monetary cost savings for a unit of measure. This approach often consumes more resources than can be allocated to the task.

- Finance and Accounting
- Production
- Operations
- Engineering
- IT
- Marketing and Customer Service
- Procurement
- Research and Development
- HR
Step 7: Identify Intangible Benefits

Intangible benefits are project benefits that we choose not to convert to money. They are measures that cannot be converted to money credibly with minimal resources. Intangible data should be collected in some way, even if participants must indicate the degree to which the project has influenced intangible measures. Intangible benefits are usually reported in a table in the complete report.

IDENTIFYING INTANGIBLES

1. During needs assessment, the intangibles are sometimes identified as directly connected to the project, and a decision is made not to convert them to monetary values. They are listed as intangibles, but only if they are connected to the project.

2. In the planning phase of the ROI study, intangible measures are often suggested as outcomes.

3. During data collection, participants and other stakeholders may offer additional intangibles, usually unintended, that are connected to the project.

4. Finally, during data analysis, when measures cannot be converted to monetary values credibly with minimum resources, they are listed as intangibles.

Typical intangibles

- Image
- Job Satisfaction
- Organizational Commitment
- Employee Engagement
- Teamwork
- Customer Service
- Complaints
- Conflicts
- Stress
- Communications
- Networking
- Partnering
- Brand Awareness
- Creativity
- Social Responsibility

Connecting the intangibles to the project

The most credible source (usually the participants) provides input about the influence of the project on the intangibles.

<table>
<thead>
<tr>
<th>Intangible Measure</th>
<th>Not Applicable</th>
<th>No Influence</th>
<th>Some Influence</th>
<th>Moderate Influence</th>
<th>Significant Influence</th>
<th>Very Significant Influence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
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<tr>
<td>Teamwork</td>
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<td>Job Satisfaction</td>
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</table>

When should data be converted to money?

To decide whether or not to convert a measure to monetary value, use this four-part test.

1. Does an acceptable, standard monetary value exist for the measure? If yes, use it in the ROI calculation; if not, go to the next step.
2. Can a method be used to convert the measure to money? If not, list it as an intangible; if yes, go to the next step.
3. Can the conversion be accomplished with minimum resources? If not, list it as an intangible; if yes, go to the next step.
4. Can the conversion process be described to an executive audience and secure buy-in in two minutes? If yes, use it in the ROI calculation; if not, list it as an intangible.
Step 8: Tabulate the Costs of the Project

When impact studies are conducted, the total costs of the project are needed for the ROI calculation. The costs must be fully loaded, i.e., must include all direct and indirect costs.

The typical cost categories are:

- **Initial needs assessment and analysis**—possibly prorated over the expected life of the project
- **Project design and development**—possibly prorated over the expected life of the project
- **Software or equipment**—purchase allocated in some convenient way
- **Project or program materials**—cost of all materials provided to each participant or consumed in the project
- **Facilitator/coach/coordinator**—includes preparation time as well as delivery time
- **Salaries plus benefits**—of the participants for the time they are involved in the project
- **Administrative and overhead costs**—allocated in some convenient way
- **Evaluation**—the costs of the impact or ROI study

**Proration Example**

A leadership development program had an estimated $50,000 development cost with an anticipated 5 year life cycle. About 400 leaders will participate each year. An ROI evaluation study is undertaken to evaluate 100 participants (4 groups of 25). How much development costs should be included in the ROI study?

- Development cost per participant
  
  \[
  \text{Cost} = \frac{50,000}{2,000} = 25
  \]

- Development cost for ROI study
  
  \[
  100 \times 25 = 2,500
  \]

**ROI Standards**

TWELVE GUIDING PRINCIPLES

1. When a higher-level evaluation is conducted, data must be collected at lower levels.
2. When an evaluation is planned for a higher level, the previous level of evaluation does not need to be comprehensive.
3. When collecting and analyzing data, use only the most credible sources.
4. When analyzing data, choose the most conservative alternatives for calculations.
5. At least one method must be used to isolate the effects of the solution.
6. If no improvement data are available for a population or from a specific source, it is assumed that no improvement has occurred.
7. Estimates of improvements should be adjusted for the potential error of the estimate.
8. Extreme data items and unsupported claims should not be used in ROI calculations.
9. Only the first year of benefits (annual) should be used in the ROI analysis of short-term solutions.
10. Costs of the solution should be fully-loaded for ROI analysis.
11. Intangible measures are defined as measures that are purposely not converted to monetary values.
12. The results from the ROI Methodology must be communicated to all key stakeholders.
Step 9: Calculating the ROI

Return on Investment (ROI) is a financial metric, representing the ultimate measure of project success. ROI is calculated using the project benefits and costs.

The benefit-cost ratio is the project benefits divided by cost. In formula form, it is:

\[
BCR = \frac{\text{Project Benefits}}{\text{Project Costs}}
\]

The return on investment calculation considers the net benefits divided by project costs. The net benefits are the project benefits minus the costs. In formula form, the ROI becomes:

\[
\text{ROI} (\%) = \frac{\text{Net Project Benefits}}{\text{Project Costs}} \times 100
\]

This is the same basic formula used in evaluating capital investments where the ROI is traditionally reported as earnings divided by investment.

The payback period compares total investment (cost) to monetary benefits to calculate the number of years (or percent of a year) needed to pay back the investment. The calculation is:

\[
\text{PP} = \frac{\text{Project Costs}}{\text{Project Benefits}}
\]

Below is an example of an ROI calculation for a project designed to reduce turnover and absenteeism in a customer care center. Sixty (60) people were involved in the project.

Benefits

<table>
<thead>
<tr>
<th>Specific Pay Off Measure</th>
<th>First Year Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee turnover reduction</td>
<td>$325,500</td>
</tr>
<tr>
<td>Absenteeism reduction</td>
<td>110,800</td>
</tr>
<tr>
<td>Total:</td>
<td>$436,300</td>
</tr>
</tbody>
</table>

Costs

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Analysis (prorated)</td>
<td>$4,500</td>
</tr>
<tr>
<td>Development Costs (prorated)</td>
<td>10,500</td>
</tr>
<tr>
<td>Materials</td>
<td>18,850</td>
</tr>
<tr>
<td>Coordination</td>
<td>6,000</td>
</tr>
<tr>
<td>Facilitation (including expenses)</td>
<td>7,200</td>
</tr>
<tr>
<td>Facilities/Food/Refreshments</td>
<td>21,480</td>
</tr>
<tr>
<td>60 participants@ $358</td>
<td>55,320</td>
</tr>
<tr>
<td>Travel</td>
<td>83,100</td>
</tr>
<tr>
<td>Participants Time (Lost Salaries Plus Benefits)</td>
<td>15,600</td>
</tr>
<tr>
<td>Total:</td>
<td>$222,550</td>
</tr>
</tbody>
</table>

**Example Calculation**

**The BCR is calculated as:**

\[
BCR = \frac{\text{Project Benefits}}{\text{Project Costs}} = \frac{436,300}{222,550} = 1.96: 1
\]

Interpretation: For every dollar invested, there is $1.96 in benefits.

**The ROI is calculated as:**

\[
\text{ROI (\%) = } \frac{\text{Net Project Benefits}}{\text{Project Costs}} \times 100 = 96\%
\]

Interpretation: For every dollar invested, 96¢ is returned after the investment is recovered.

**The Payback Period is calculated as:**

\[
\text{PP} = \frac{\text{Project Costs}}{\text{Project Benefits}} = 0.51 \times 12 = 6.12 \text{ Months}
\]

Interpretation: The investment will be paid back in 51% of one year or just over 6 months.
Step 10: Report Data to Key Stakeholders

Reporting the results of the study is an important final step in the ROI Methodology. Properly identifying the audience and providing appropriate information is essential.

By default, four audiences are always essential:

1. The participants directly involved in the project who provide data to the evaluators
2. The immediate managers of the participants who need evidence of the success of the project
3. The sponsors of the project who need to understand the project's value to the organization
4. The staff team members who need to understand how the study was developed

A variety of media can be used to communicate the project success:

Impact Study (50-100 pages)
- Detailed analysis
- Historical document
- Learning tool

Executive Summary (4-8 pages)
- Summarizes impact
- Follows the ROI Methodology

Face-to-face Meeting (1/2-2 hours)
- Usually the first opportunity to see ROI data
- Builds support for the ROI Methodology
- Presents results and improvements

Brochure
- Project description
- Emphasis on results

One Page Summary
- Charts, tables
- Follows ROI data categories

Newsletter Article
- General interest
- Brief story

Web Site (brief summary of impact study)
- Charts, tables
- Link to methodology
- Downloadable

Case Study (15-25 pages)
- Published internally or externally
- Tells a story

Impact Study Outline

(Complete Report, usually 50 – 100 Pages)

- General Information
  - Objectives of Study
  - Background
  - Project Description

- Methodology for Impact Study
  - Levels of Evaluation
  - ROI Process
  - Collecting Data
  - Isolating the Effects of Projects
  - Converting Data to Monetary Values
  - Assumptions (Guiding Principles)

- Results
  - General Information
    - Response Profile
  - Reaction
  - Learning
  - Application of Skills/Knowledge
    - Barriers
    - Enablers
  - Impact
    - Isolation Method
    - Data Conversion
  - Costs
  - ROI Calculation
  - Intangible Benefits

- Summary of Findings

- Conclusions and Recommendations
  - Conclusions
  - Recommendations

- Exhibits
A challenge with evaluation is using the data appropriately. The uses of evaluation data include improving design and delivery processes, enhancing budgets, and building support and commitment from a variety of groups. The following table shows the rationale for using the appropriate level of data:

<table>
<thead>
<tr>
<th>USE OF EVALUATION DATA</th>
<th>APPROPRIATE LEVEL OF DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Adjust Project Design</td>
<td>✓</td>
</tr>
<tr>
<td>Improve Project Delivery/Implementation</td>
<td>✓</td>
</tr>
<tr>
<td>Influence Project Future</td>
<td>✓</td>
</tr>
<tr>
<td>Enhance Reinforcement for Application</td>
<td></td>
</tr>
<tr>
<td>Improve Management Support for Projects</td>
<td>✓</td>
</tr>
<tr>
<td>Improve Stakeholder Satisfaction</td>
<td>✓</td>
</tr>
<tr>
<td>Recognize and Reward Participants</td>
<td>✓</td>
</tr>
<tr>
<td>Justify or Enhance Budget</td>
<td></td>
</tr>
<tr>
<td>Develop Norms and Standards</td>
<td>✓</td>
</tr>
<tr>
<td>Reduce Costs</td>
<td>✓</td>
</tr>
<tr>
<td>Market Projects</td>
<td>✓</td>
</tr>
<tr>
<td>Expand Implementation to Other Areas</td>
<td></td>
</tr>
</tbody>
</table>

ROI Best Practices
(Based on benchmarking data from long-term users)

1. The ROI Methodology is implemented as a process improvement tool and not a performance evaluation tool for the staff team members and stakeholders.
2. ROI studies are conducted selectively, usually involving 5-10% of projects.
3. A variety of data collection methods are used in ROI analysis – not just questionnaires.
4. Questionnaire response rates for ROI analysis range from 60-90%.
5. For a specific ROI evaluation, the effects of the project are always isolated from other influences.
6. Business impact data are converted to monetary values, even for the hard-to-value.
7. ROI evaluation targets are developed, showing the percent of projects evaluated at each level.
8. The ROI Methodology generates a micro-level scorecard from a specific project.
9. Measurement data at all levels are being integrated to create a macro-scorecard for the entire function.
10. The ROI Methodology is being implemented for about 3-5% of the budget.
11. ROI forecasting is being used routinely.
12. The ROI Methodology is used as a tool to strengthen/improve the function and processes.
**Status of Measurement and Evaluation**

*All programs are not evaluated to every level. How does your use of the levels compare to the recommended use?*

<table>
<thead>
<tr>
<th>Level</th>
<th>Measurement Category</th>
<th>Current Status*</th>
<th>Recommended*</th>
<th>Comments About Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td><strong>Inputs</strong>&lt;br&gt;Measures inputs into projects including number of projects, attendees, audience, costs, and efficiencies</td>
<td>100%</td>
<td></td>
<td>This is being accomplished now</td>
</tr>
<tr>
<td>1</td>
<td><strong>Reaction</strong>&lt;br&gt;Measure reaction to, and satisfaction with, the experience, ambiance, content, and value of the project</td>
<td>90-100%</td>
<td></td>
<td>Need more focus on content and perceived value</td>
</tr>
<tr>
<td>2</td>
<td><strong>Learning</strong>&lt;br&gt;Measures what participants learned in the project – information, knowledge, skills, and contacts (takeaways from the project)</td>
<td>60-80%</td>
<td></td>
<td>Must use simple learning measures</td>
</tr>
<tr>
<td>3</td>
<td><strong>Application and Implementation</strong>&lt;br&gt;Measures progress after the project – the use of information, knowledge, skills, and contacts</td>
<td>30%</td>
<td></td>
<td>Need more follow-up</td>
</tr>
<tr>
<td>4</td>
<td><strong>Impact</strong>&lt;br&gt;Measures changes in business impact variables such as output, quality, time, and cost-linked to the project</td>
<td>10-20%</td>
<td></td>
<td>This is the connection to business impact</td>
</tr>
<tr>
<td>5</td>
<td><strong>ROI</strong>&lt;br&gt;Compares the monetary benefits of the business impact measures to the costs of the project</td>
<td>5-10%</td>
<td></td>
<td>The ultimate evaluation</td>
</tr>
</tbody>
</table>

*Percent of projects evaluated at this level*<br>*Add your numbers in each box*

**Specific Actions**

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Implementing a comprehensive measurement and evaluation process requires several actions:

- Set specific goals and targets for implementation
- Determine specific roles and responsibilities for measurement and evaluation
- Revise procedures and guidelines for different parts of the evaluation process
- Conduct meetings and formal sessions to develop awareness and capability
- Establish an internal ROI network for sharing information (if feasible)
- Conduct ROI studies routinely
- Provide technical support for instrument design, data analysis, and evaluation strategy
- Establish specific techniques to place more attention on results
- Use existing tools and templates to make the process easier and more efficient
- Use technology to reduce costs of data collection and analysis
- Assess the status of the results-based approach
- Report progress and adjust tactics
- Improve management commitment and support for the ROI Methodology
- Consider measuring the ROI on the ROI implementation

ROI Origin/Development/Progress

- The ROI Methodology™ was developed by Dr. Jack J. Phillips in the 1970s, refined through application and use in the 1980s, and implemented globally during the 1990s
- First impact study - 1973, Measuring the ROI in a Cooperative Education Program, for Lockheed-Martin
- First conference presentation on the methodology - 1978, ASTD Annual Conference-Chicago
- First book published to include methodology - 1983, *Handbook of Training Evaluation and Measurement Methods*, Gulf Publishing (this was the first USA book on training evaluation)
- First one-day public workshop - 1991, Birmingham, Alabama
- First two-day public workshop - 1992, Johannesburg, South Africa
- First international partnership established - 1994, Indonesia
- First public ROI Certification workshop - 1995, Nashville, Tennessee
- ROI Network organized - 1996
- First ROI Network Conference - 1997, New Orleans, Louisiana
- First international ROI Network Conference - 2002, Toronto, Canada
- First ROI in Government Conference – 2003, Gulfport, Mississippi, Co-sponsored by The University of Southern Mississippi
- Distinguished contribution to workplace learning and performance awarded by ASTD to Jack Phillips for the work on ROI - 2005
- On-line ROI Certification launched – 2006, University Alliance-Villanova University
- ROI Certification offered as part of Master's and Ph.D. degree – Capella University, 2006
- ROI Methodology adopted by the United Nations for system implementation- 2008
- One hundred books published with ROI Institute founders as authors or editors – 2010
- Five thousand participants in ROI Certification – 2010
- A record of 35 public, live certification workshops conducted in a year – 2010
- ASTD celebrates 40th book written or edited by Jack and Patti Phillips – 2012
- ROI Institute celebrates 20th anniversary – 2013
Workshops – Learning experiences to meet your needs:
- Five-day certification workshop (Public and Internal)
- 1, 2 or 3 day workshops (Public and Internal)
- Online and self-study options available

Consulting – Working with private businesses and public sector organizations, offering a range of services from developing complete impact studies to coaching organizations through all levels of measurement and evaluation, including ROI.

Publishing – Books and articles are available to professionals, practitioners, academics and students. We often request contributions of case studies, tools, templates and success stories for inclusion in our books.

Partners – Our strategic partnerships yield mutual and collaborative delivery of services. Our international partnerships foster the implementation of the ROI Methodology around the world.

Web Site and Internet Activities – www.roiinstitute.net provides information about the ROI Institute, the ROI Methodology, ROI Certification workshops, and so much more, including a wealth of resources on accountability, measurement and evaluation. ROI Institute members, who have completed the ROI Certification workshop, gain access to our Members Only web site with even more information and resources supporting ROI implementation. The ROI Resource Center provides books, case studies, research reports, briefing papers, tools, templates, and specialty items.

The ROI Methodology™ – Realize the value of programs, projects and solutions by capturing and measuring data for Reaction, Learning, Application, Impact, ROI and Intangible Benefits

For additional copies of this document or additional information about the ROI Methodology, please contact ROI Institute Canada ☎: 613-567-9402 ✉: suzanne@roiinstitutecanada.com 🌐: www.roiinstitutecanada.com