
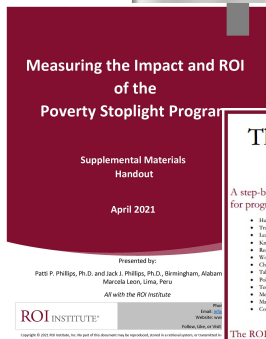
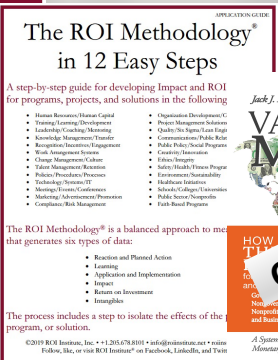
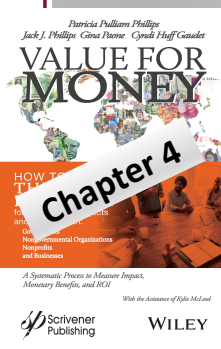


# Measuring the Impact and ROI of the Poverty Stoplight Program

Presented by  
 Patti P. Phillips, Ph.D., CEO, ROI Institute, Inc.  
 Jack J. Phillips, Ph.D., Chairman, ROI Institute, Inc.

1

# Resources

2

## Objectives

After attending this workshop, participants will be able to:

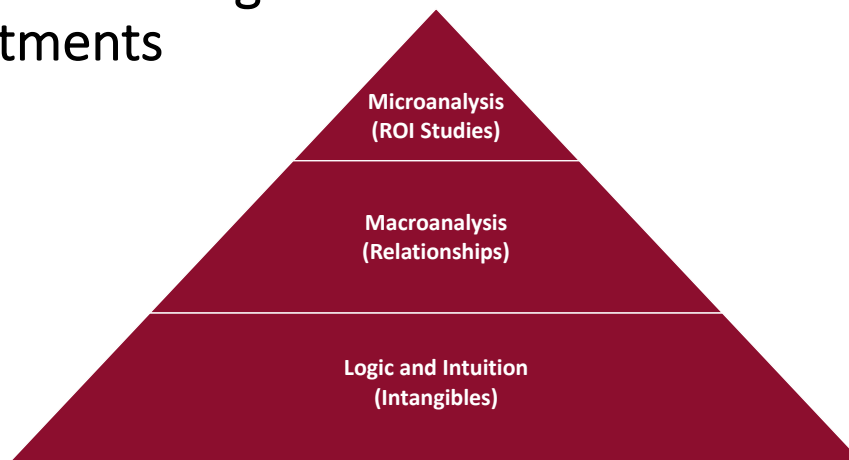
1. Explain the need to show the value of the Poverty Stoplight Program.
2. Describe the value chain for a poverty reduction program.
3. Identify the 12 steps of the ROI Methodology®.
4. Design programs to deliver impact and a positive ROI.
5. Explain ROI to stakeholders.
6. Measure Poverty Stoplight Program results at all five levels, including calculating the return on investment (ROI) of a program.



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## Analysis of Poverty Elimination Program Investments



4

4



# WorkLife Partnership

1. Is this approach typical?
2. Is ROI necessary?
3. Is ROI achievable?



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## The Value Chain for a Program

The Chain of Value is Always There

<u>LEVEL</u>	<u>ISSUE</u>	<u>MEASURES</u>
0	Input	Volume, Hours, Convenience, Cost
1	Reaction	*Relevance, Engaging, *Important, Useful, *Necessary, *Intent to Use, *Recommend to Others
2	Learning	Concepts, Trends, Facts, Contacts, Skills, Competencies
3	Application	Use of Content, Frequency of Use, Success with Use, Barriers, Enablers
4	Impact	Productivity, Poverty, Time, Absenteeism, Quality, Health Status, Engagement, Compliance
5	ROI	Benefit Cost Ratio or Return on Investment, Expressed as a Percent

Must take a step to Isolate the Effects

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## What is your experience with ROI?

- Never heard of it.
- I've heard about it, but not tried it.
- I've tried it with no success.
- I've successfully completed an ROI study.
- I wish ROI would go away.

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## Why This is Needed Now

1. Programs have failed to deliver
2. Budgets are scrutinized
3. Measuring at the impact level is no longer optional for major programs
4. Evidence vs proof
5. Donors are more demanding
6. Mistrust of institutions



Why are you interested in proving the value?

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## New Habits at School

1. Is this situation typical?
2. Is this approach possible?
3. Why is there so much resistance to this approach?

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## Challenges to Overcome

1. I don't know how to do this!
2. What happens if it's negative?
3. Doesn't this take too long?
4. Can't we use something simple, like return on inspiration (ROI)?
5. Can we sustain this?



**What's your challenge?**

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## A Variety of ROI Applications The Possibilities are Endless...

1. What do you see in common with the examples?
2. What is driving this level of accountability for these programs?

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## Five Components Comprise the ROI Methodology

**Sometimes referred to as a puzzle, the five components make up the system that must exist to develop a sustainable evaluation practice.**

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## Application of this Methodology

The ROI Methodology is being used to measure the success of any type of project, program, initiative, system, procedure, event, or process in these types of organizations:

- Publicly traded businesses
- Privately held businesses
- Governments (federal, state, and local level)
- Nongovernment organizations
- Nonprofits
- Universities
- Community colleges and technical institutes
- K-12 school systems
- Foundations
- Charities
- Healthcare organizations
- Networks and alliances
- Associations
- Religious organizations

The ROI Methodology is a flexible, versatile process that can withstand the scrutiny of critics, while providing CEO and CFO friendly data through a process that is user friendly.

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## The Pressures Facing the Public Sector Today

- Budget constraints
- Need to do more with less
- Need process improvements (effectiveness and efficiency)
- Need to show value of programs
- Need for public accountability and transparency



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## Key Issues

- No profits - no ROI?
- Lack of alignment
- Absence of hard data
- Too much politics
- Programs are necessary
- Multiple ROI perspectives

Real or  
Imagined?

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## ROI Use

More than 26 federal governments have adopted the ROI Methodology including:

<ul style="list-style-type: none"> <li>Australia</li> <li>Bahrain</li> <li>Brazil</li> <li>Brunei</li> <li>Canada</li> <li>Chile</li> <li>Denmark</li> <li>Egypt</li> <li>Ireland</li> </ul>	<ul style="list-style-type: none"> <li>Italy</li> <li>Kenya</li> <li>Malaysia</li> <li>Mexico</li> <li>Netherlands</li> <li>New Zealand</li> <li>Oman</li> <li>Poland</li> <li>Portugal</li> </ul>	<ul style="list-style-type: none"> <li>Saudi Arabia</li> <li>Singapore</li> <li>South Africa</li> <li>Spain</li> <li>Taiwan</li> <li>Turkey</li> <li>United Kingdom</li> <li>United States (12 agencies)</li> </ul>
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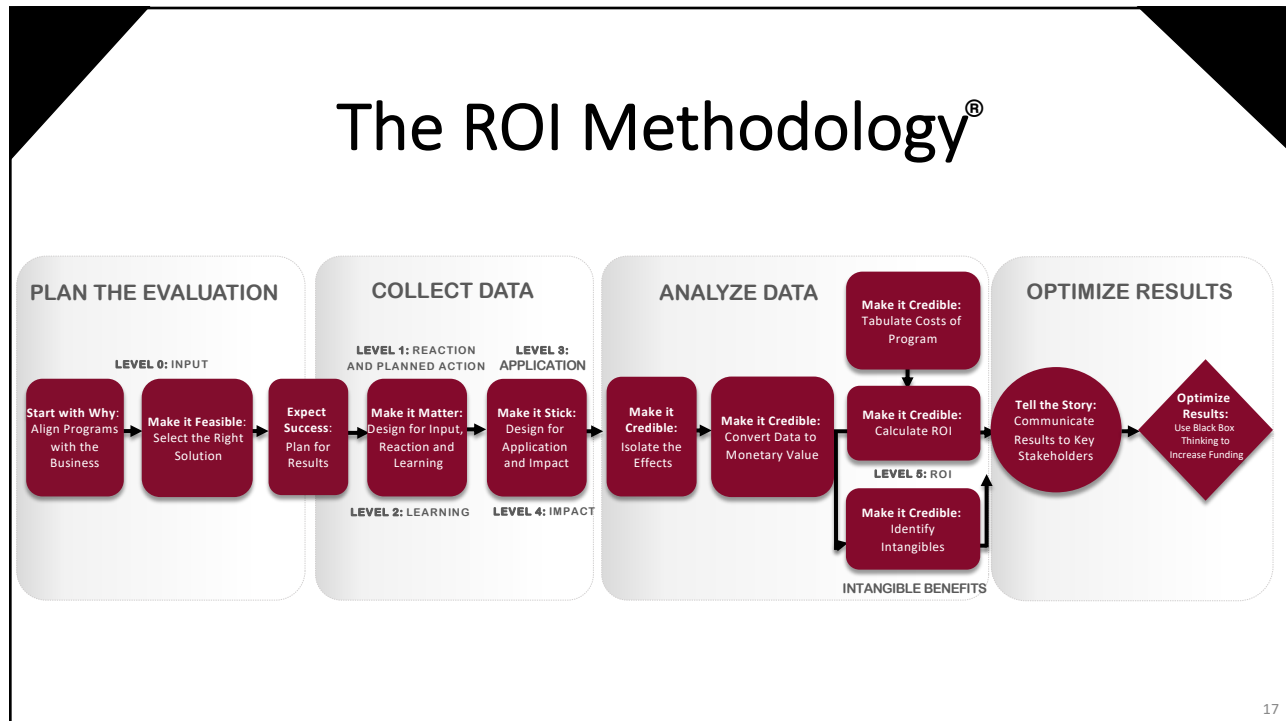
In the United Nations, the ROI Methodology has been adopted by:

<ul style="list-style-type: none"> <li>DPKO</li> <li>FAO</li> <li>IAEA</li> <li>ICAO</li> <li>IFAD</li> <li>IMF</li> <li>OCHA</li> </ul>	<ul style="list-style-type: none"> <li>WFP</li> <li>WHO</li> <li>OPCW</li> <li>UNDP</li> <li>UNEP</li> <li>UNESCO</li> </ul>	<ul style="list-style-type: none"> <li>UNFPA</li> <li>UNICEF</li> <li>UNICRI</li> <li>World Bank</li> <li>UN Women</li> <li>UN AIDS</li> <li>UN Security</li> </ul>
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## Twelve Guiding Principles of ROI

1. When conducting a higher-level evaluation, collect data at lower levels.
2. When planning a higher-level evaluation, the previous level of evaluation is not required to be comprehensive.
3. When collecting and analyzing data, use only the most credible sources.
4. When analyzing data, select the most conservative alternative for calculations.
5. Use at least one method to isolate the effects of a project.
6. If no improvement data are available for a population or from a specific source, assume that little or no improvement has occurred.
7. Adjust estimates of improvement for potential errors of estimation.
8. Avoid use of extreme data items and unsupported claims when calculating ROI.
9. Use only the first year of annual benefits in ROI analysis of short-term solutions.
10. Fully load all costs of a solution, project, or program when analyzing ROI.
11. Intangible measures are defined as measures that are purposely not converted to monetary values.
12. Communicate the results of ROI Methodology to all key stakeholders.

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Measurement  
Targets

### \*Benchmarking Percentages

Level	Recommended % of Programs	**Benchmarking %
0	Input	100%
1	Reaction	80%
2	Learning	70%
3	Application	49%
4	Impact	37%
5	ROI	18%

\*Percentage of programs evaluated at each level each year  
\*\*Benchmarking 2020

Characteristics of  
Programs Suitable  
for Impact & ROI

---

Life cycle of the program

---

Linkage of program to operational goals and issues

---

Importance of program to strategic objectives

---

Top administrator/executive interest in the evaluation

---

Cost of the program

---

Visibility of the program

---

Size of target audience

---

Investment of time required

**Poverty Stoplight:  
Who Needs ROI?**

1	2	3	4	5	Employers (current & future)
1	2	3	4	5	Governments (current & future)
1	2	3	4		Nonprofits/NGOs
1	2	3	4		Donors
1	2	3	4		Participants

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## Crime in Atlanta

---

1. At what level of data is the focus of the success in the “8 Million Downloads” advertisement?
2. Could this program be measured at the reaction level? If so, what reactions would you desire?
3. Can the program be measured at the learning level? If so, how would this data be captured?
4. Can this program be evaluated at the application level? If not, why not?
5. Is this program primarily for entertainment, for education, or is it a call to action? Explain.
6. Could this program be evaluated at the impact level as it is designed? If not, how could it be redesigned to focus on impact?
7. Can magazines, newspapers, and news outlets be evaluated at Level 3 and Level 4? Explain.

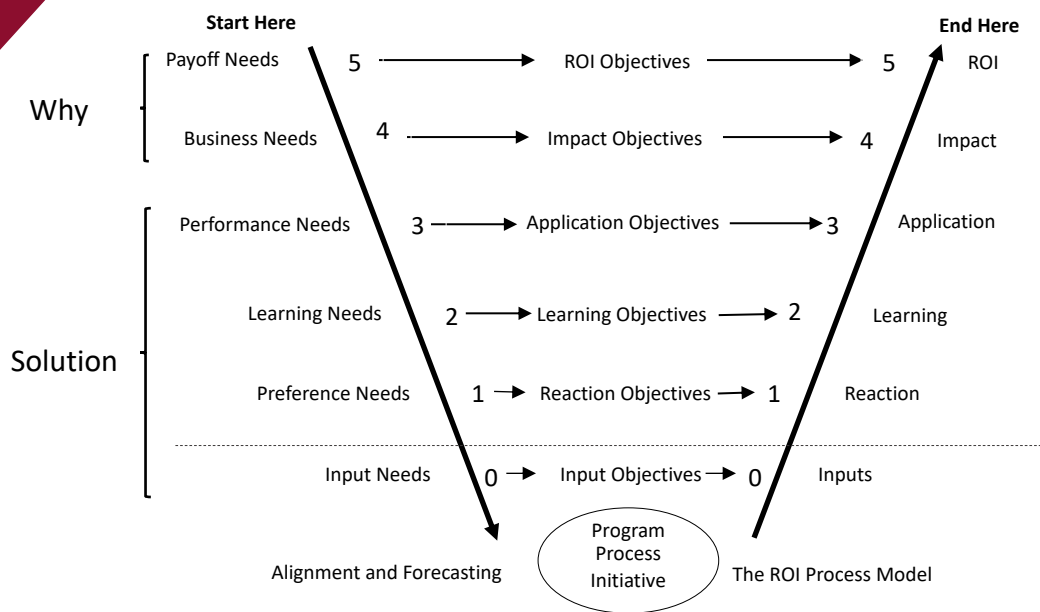
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Start with Why:  
Align Programs with the business

Make it Feasible:  
Select the right solution

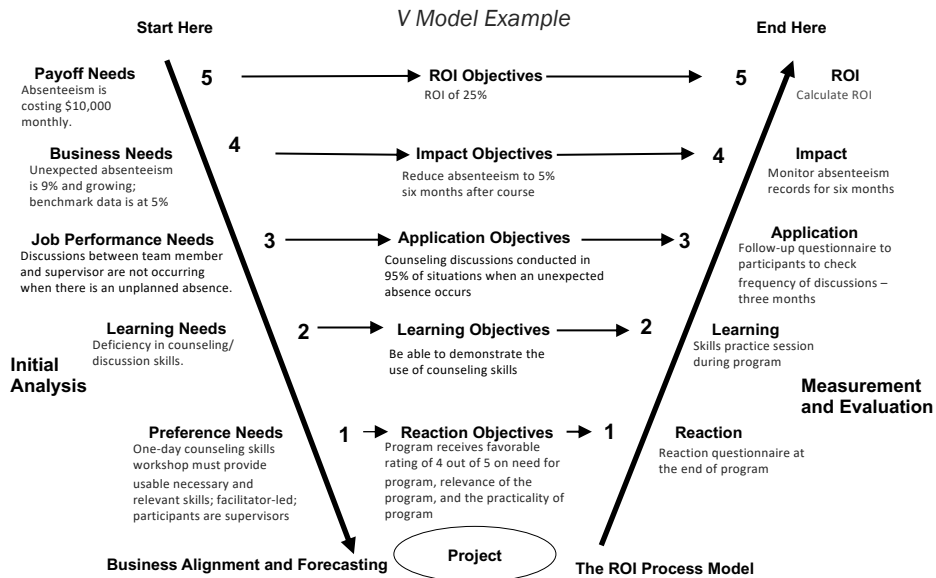
### The Alignment Process: V-Model



# Who Could Resist These Programs?

- Improving the health status of families
- Reducing poverty in the community
- Improving decision making capacity
- Increasing income stability
- Acquiring knowledge and skills to generate income
- Creating an inclusive environment
- Managing a diverse team
- Improving female empowerment
- Communicating effectively in a digital workplace
- Creating a great place to work
- Gaining respect for the elderly
- Fostering employee engagement
- Providing leadership development for team leaders

## The Alignment Process



## Is it the Right Solution?

1. Examine the data and records.
2. Initiate the discussion.
3. Reference a case study.
4. Use benchmarking from similar solutions.
5. Use evaluation as the hook.
6. Involve others in the discussion.
7. Discuss disasters in other places.



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## Diagnostic Tools are Sometimes Used

- Brainstorming
- Problem analysis
- Cause-and-effect diagram
- Mind mapping
- Affinity diagrams
- Simulations
- Diagnostic instruments
- Focus groups
- Probing interviews
- Job satisfaction surveys
- Engagement surveys
- Exit interviews
- Exit surveys
- Nominal group technique

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## Expect Success:

- Plan for results
- Success is impact
- Objectives are developed for reaction, learning, application, and impact
- Objectives are provided to all stakeholders



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## Developing Objectives for Each Level

Levels of Objectives	Focus of Objectives
<b>Level 1, Reaction</b>	Defines specific measures of expected reaction to the program as it is revealed and communicated to the stakeholders
<b>Level 2, Learning</b>	Defines specific measures of improvement in knowledge, information, contacts, and skills as the participants and other stakeholders learn how to make the program successful
<b>Level 3, Application</b>	Defines specific measures of actions taken that define success with application and implementation of the program
<b>Level 4, Impact</b>	Defines the specific impact measures that will change or improve as a consequence of the program's implementation
<b>Level 5, ROI</b>	Defines the minimum return on investment from the program, comparing program costs with monetary benefits from the program

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## Rules for Objectives

1. Must be measurable and represent minimum acceptable performance.
2. Fewer objectives are better than many objectives.
3. Involve subject-matter experts and key stakeholders.
4. Keep objectives relevant to the situation, program, and key stakeholders.
5. Create Stretch Objectives, but make sure they are achievable.
6. Allow for the flexibility to change as conditions change.
7. Failure is OK; process improvement is the key.
8. Objectives are tools for progress, not weapons for performance review.
9. Most objectives should be time-bound.
10. Objectives provide the focus for design, development, implementation, and evaluation.

These rules are from a combination of publications:

- J. J. Phillips and P. P. Phillips. *Beyond Learning Objectives: Develop Measurable Objectives that Link to the Bottom Line*. Alexandria, VA: ASTD Press. 2008.
- P. P. Phillips and J. J. Phillips. *10 Steps to Successful Business Alignment*. Alexandria, VA: ASTD Press. 2012.
- J. Doerr. *Measure What Matters: How Google, Bono, and the Gates Foundation Rock the World with OKRs*. New York: Penguin. 2018.

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## Evaluation Levels with Objectives

**After participating in the program, participants should:**

1. Decrease eyesight problems by 20% in one year.
2. Use problem-solving skills to uncover causes of problems.
3. Be able to create a plan and budget.
4. Rate the facilitator 4 out of 5 on presentation skills.
5. Receive vaccinations for the most serious diseases and which are considered compulsory.
6. Achieve a 20% ROI for the government three years after program implementation.
7. Perceive the program to be relevant to their needs (4.5 out of 5).
8. Reduce the acts of violence in their neighborhood to zero in six months.
9. Have an income above the poverty line.
10. Be able to describe the three elements of a comfortable home.
11. Intend to be successful with the Poverty Stoplight Program.
12. Have a valid identity card for members of age.

- |   |             |
|---|-------------|
| 1 | Reaction    |
| 2 | Learning    |
| 3 | Application |
| 4 | Impact      |
| 5 | ROI         |

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## Evaluation Levels with Objectives

**After participating in the program, participants should:**

- |     |   |   |
|-----|---|---|
| 1.  | Decrease eyesight problems by 20% in one year.  | 4 |
| 2.  | Use problem-solving skills to uncover causes of problems.                               | 3 |
| 3.  | Be able to create a plan and budget.  | 2 |
| 4.  | Rate the facilitator 4 out of 5 on presentation skills.                                 | 1 |
| 5.  | Receive vaccinations for the most serious diseases and which are considered compulsory. | 3 |
| 6.  | Achieve a 20% ROI for the government three years after program implementation.          | 5 |
| 7.  | Perceive the program to be relevant to their needs (4.5 out of 5).                      | 1 |
| 8.  | Reduce the acts of violence in their neighborhood to zero in six months.                | 4 |
| 9.  | Have an income above the poverty line.  | 4 |
| 10. | Be able to describe the three elements of a comfortable home.                           | 2 |
| 11. | Intend to be successful with the Poverty Stoplight Program.                             | 1 |
| 12. | Have a valid identity card for members of age.  | 3 |

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Make it Matter:  
Design for input, reaction, and learning



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## Make it Stick: Design for application and impact



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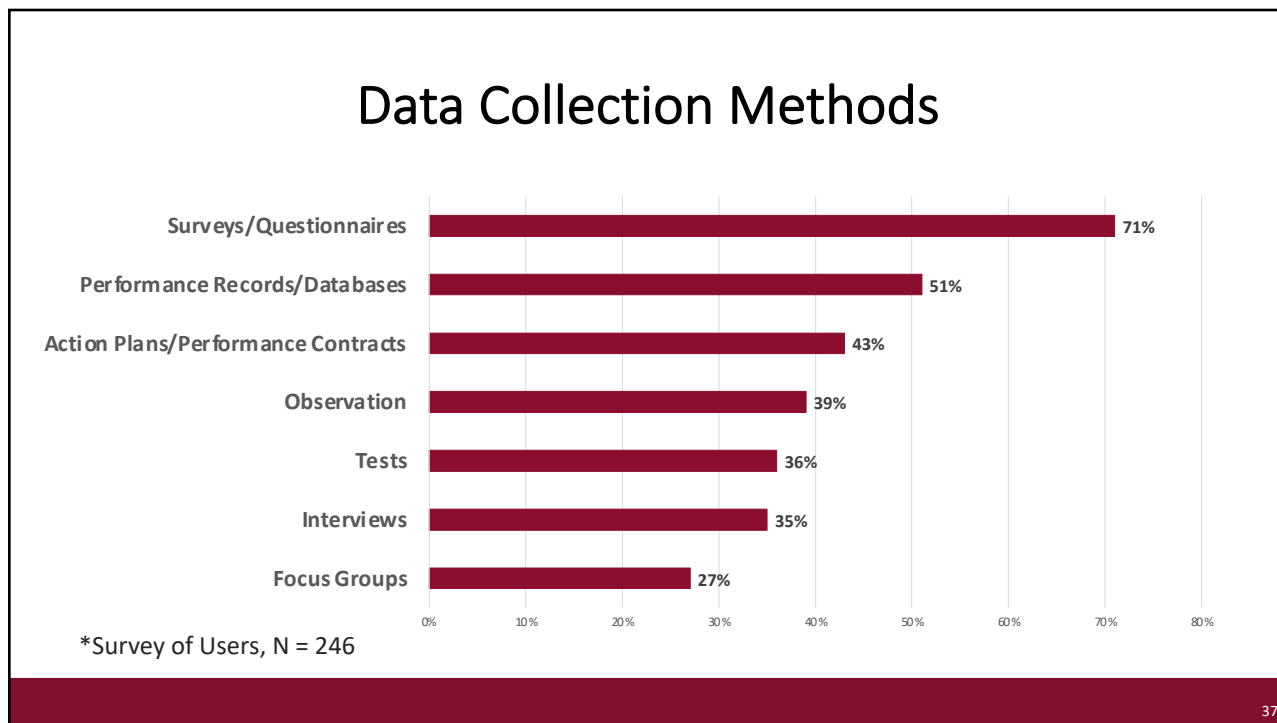
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## Collecting Data

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

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Survey vs.  
Questionnaire  
Example

Question	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
1. The program is relevant to my needs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. The program is important to my success.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Please estimate the following monthly time savings. Use the most recent month compared to the month attending the how to conduct effective meetings program. Provide only improvements directly related to this program and only when the time saved is used productively.

- Number of meetings avoided each month with improved planning \_\_\_\_\_
- Average time saved per meeting per month (in hours) \_\_\_\_\_
- Average number of participants reduced per meeting per month \_\_\_\_\_

11. What confidence level do you place on the above estimations?   %  
(0 percent = No confidence & 100 percent = certainty)

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## Factors to Consider

When selecting methods, consider:

- Time required for participants
- Time required for supervisors
- Costs of methods
- Amount of disruption
- Accuracy
- Utility
- Culture/Philosophy

When selecting sources of data, consider:

- Participants
- Supervisors
- Direct reports
- Peer groups
- Internal staff
- External sources
- Organizational records

When determining timing, consider:

- Availability of data
- Ideal time for behavior change/application
- Ideal time for business impact
- Convenience of data collection
- Constraints on data collection

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Make it Credible:  
Isolate the effects



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## International Healthcare Agency (IHA)

### Questions for Discussion

1. Is this situation unusual? Please explain.
2. Should the CEO drop the issue?
3. What are some approaches to resolve this dilemma?
4. What would you do?

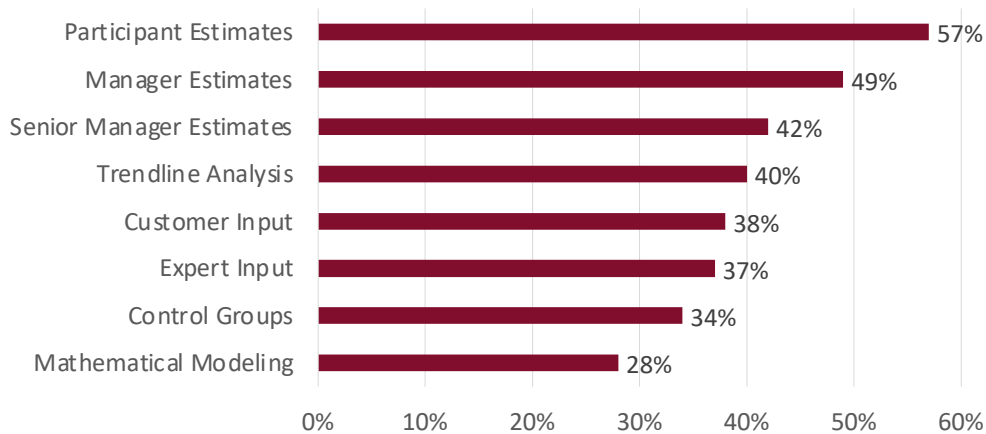


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## Isolation Methods

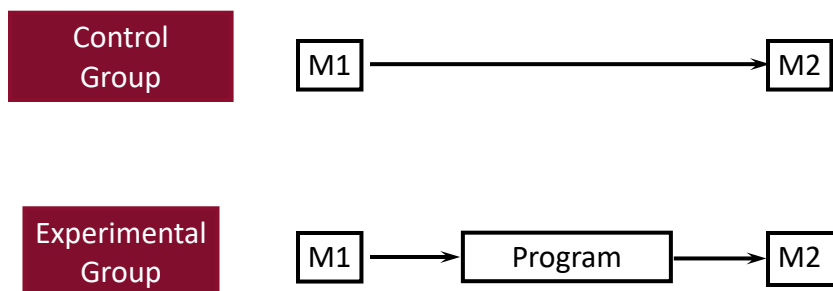


\*Survey of Users, N = 246

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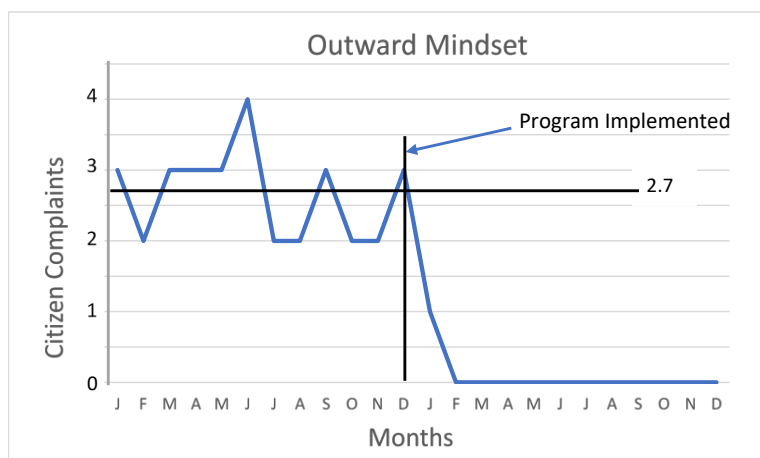
## Control Group Design



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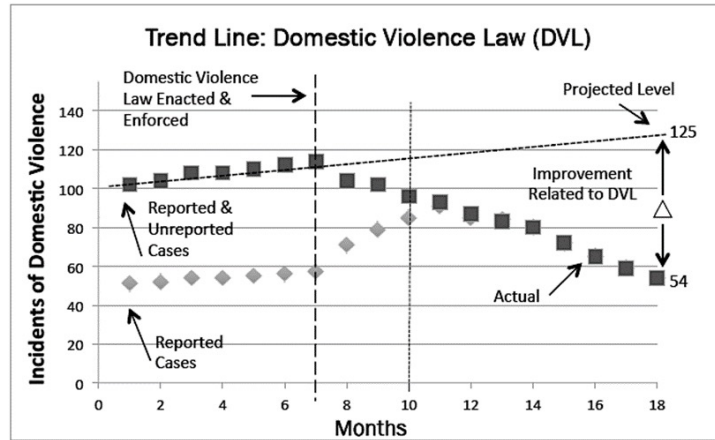
## Isolating the Effects of the Program



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## Trend Line Analysis



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## A Conservative Approach to Estimates

- Start with the **fact** in terms of the improvement in a business measure.
- Identify the **most credible sources** of data to help us understand what caused the improvement.
- Ask the source(s) **three simple questions**:
  1. Given the improvement in the measure, what factors caused it?
  2. As a percentage, how much of the improvement is due to each factor?
  3. As a percentage, how confident are you in your estimate?

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## Economic Empowerment of Women in Zimbabwe

1. Given the above information, calculate the amount of loans approved by the UN Initiative.
2. Discuss the credibility of this approach.
3. What could be done to improve this process?

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## Economic Empowerment of Women in Zimbabwe

$\Delta$ = 420 Approved Loans Microfinance Loans for Women

Contributing Factors	Average Impact on Results	Average Confidence Level
UN Program	39%	81%
Changing Attitudes of MF Institutions	11%	77%
Competing Program (NGO)	33%	60%
Pressure from Government	12%	72%
Other	5%	85%
	100%	

The amount attributed to the UN program was determined by multiplying the percent for the program factor times the confidence percentage. This, in effect, shows the impact of the program.


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Example of Estimation	Monthly Decrease in Turnovers: 30 for team (fact)		
	Contributing Factors	Consensus Impact (%)	Average Confidence (%)
	Poverty Stoplight Program	34%	81%
	Work Scheduling Changes	36%	79%
	Job Training	16%	73%
	Incentives (Bonus)	13%	92%
	Other _____	1%	89%
		100%	

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Make it Credible:  
Convert data to monetary value



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## The Wisdom of Crowds



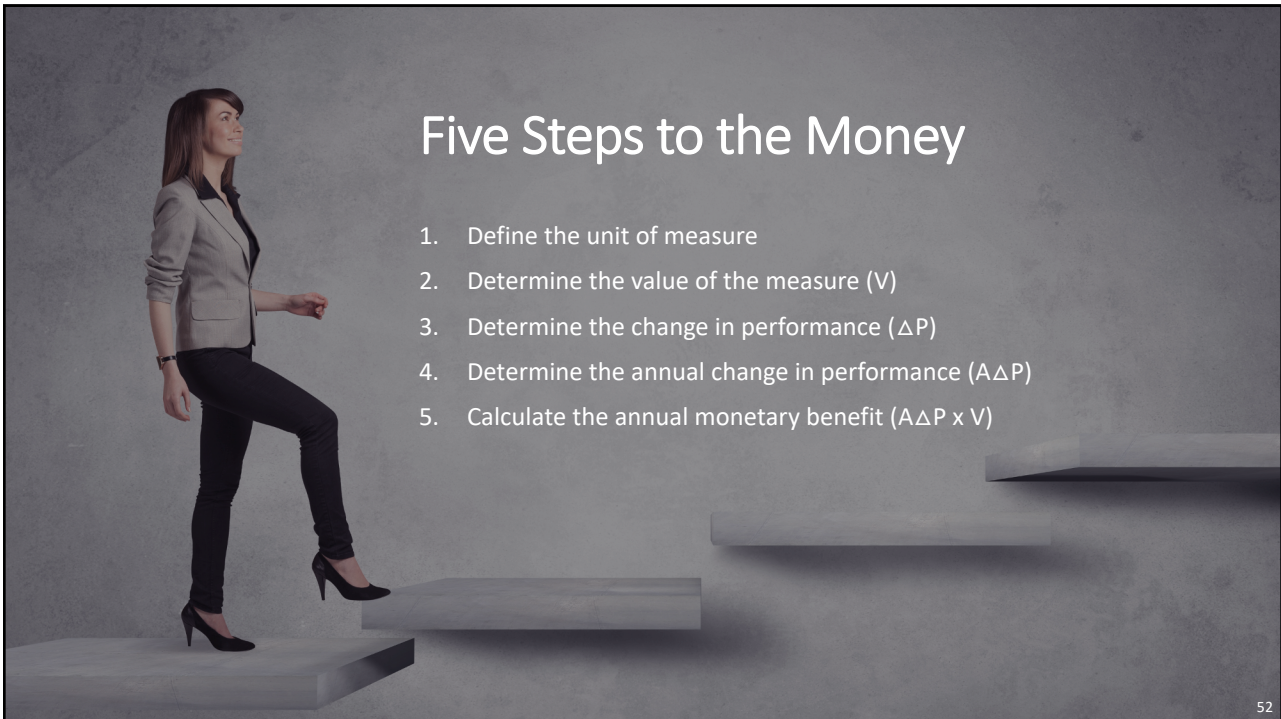
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## Five Steps to the Money

1. Define the unit of measure
2. Determine the value of the measure ( $V$ )
3. Determine the change in performance ( $\Delta P$ )
4. Determine the annual change in performance ( $A\Delta P$ )
5. Calculate the annual monetary benefit ( $A\Delta P \times V$ )

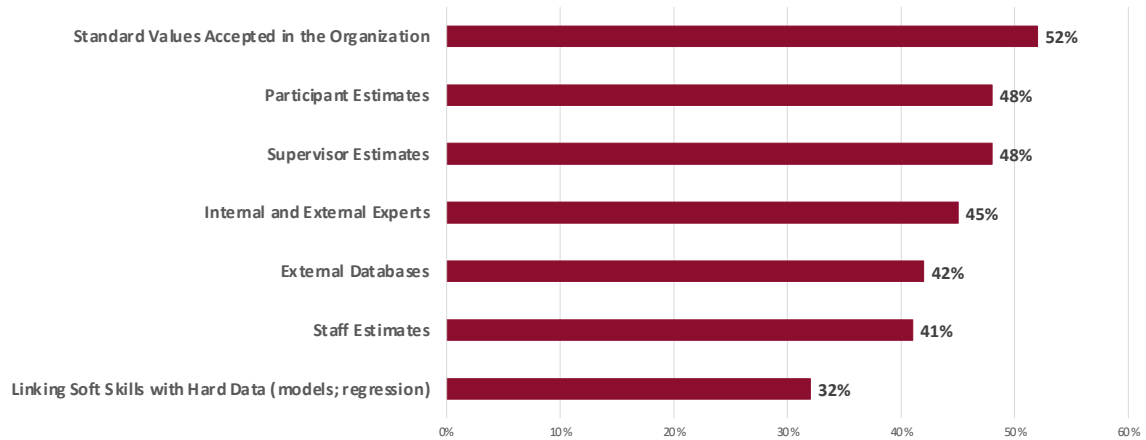


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## Data Conversion Methods

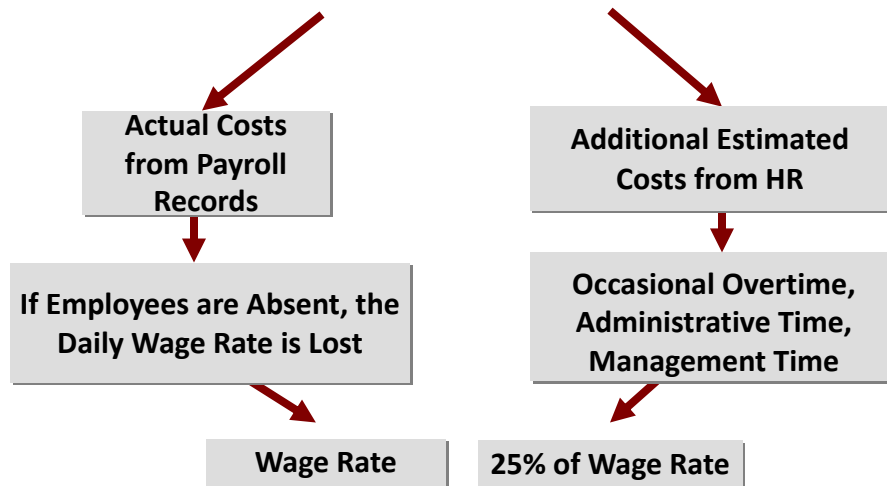


\*Survey of Users, N = 246

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## Cost of an Unplanned Absence



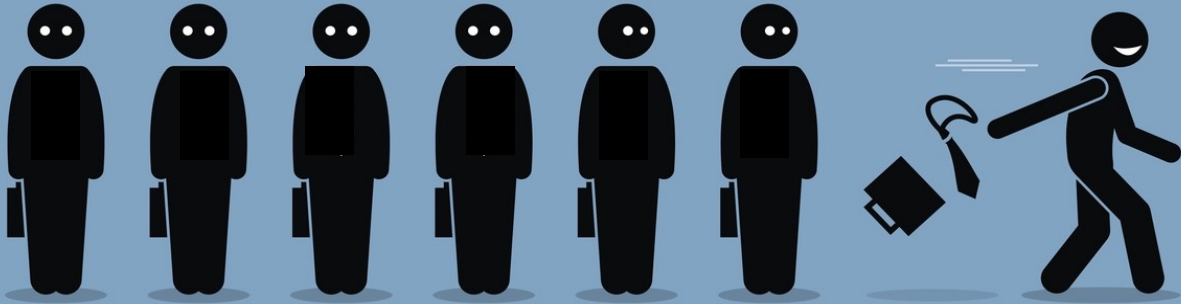
Cost per Absence: 1.25 x Wage Rate

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## Turnover of Employees: A Word Problem

Your organization is experiencing a high level of turnover of production workers who are paid \$30,000 per year (fully-loaded). To capture the value of turnover for this group, you rely on a database. The database provides you with various job groups and a range for the cost of turnover for each group. A program was implemented to reduce the turnover. One year after the program, you found that turnover decreased by 10 for the year – a direct result of the program. Using your five steps, the guiding principles, and the [Turnover Cost Summary](#), calculate the annual monetary value of the reduction in turnover of middle managers who are paid \$30,000 per year.



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## Turnover Cost Summary

Job Type/Category	Turnover Cost Ranges*
Entry level – hourly, non-skilled	30-50%
Service / Production workers – hourly	40-70%
Skilled hourly	75-100%
Clerical / Administrative	50-80%
Professional	75-125%
Technical	100-150%
Engineers	200-300%
Specialists	200-400%
Supervisors / Team Leaders	100-150%
Middle Managers	125-200%

\*Percentage of salary

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## Can Happiness be Converted to Money?

1. Should happiness be converted to money? Explain.
2. When should you stop this conversion process?

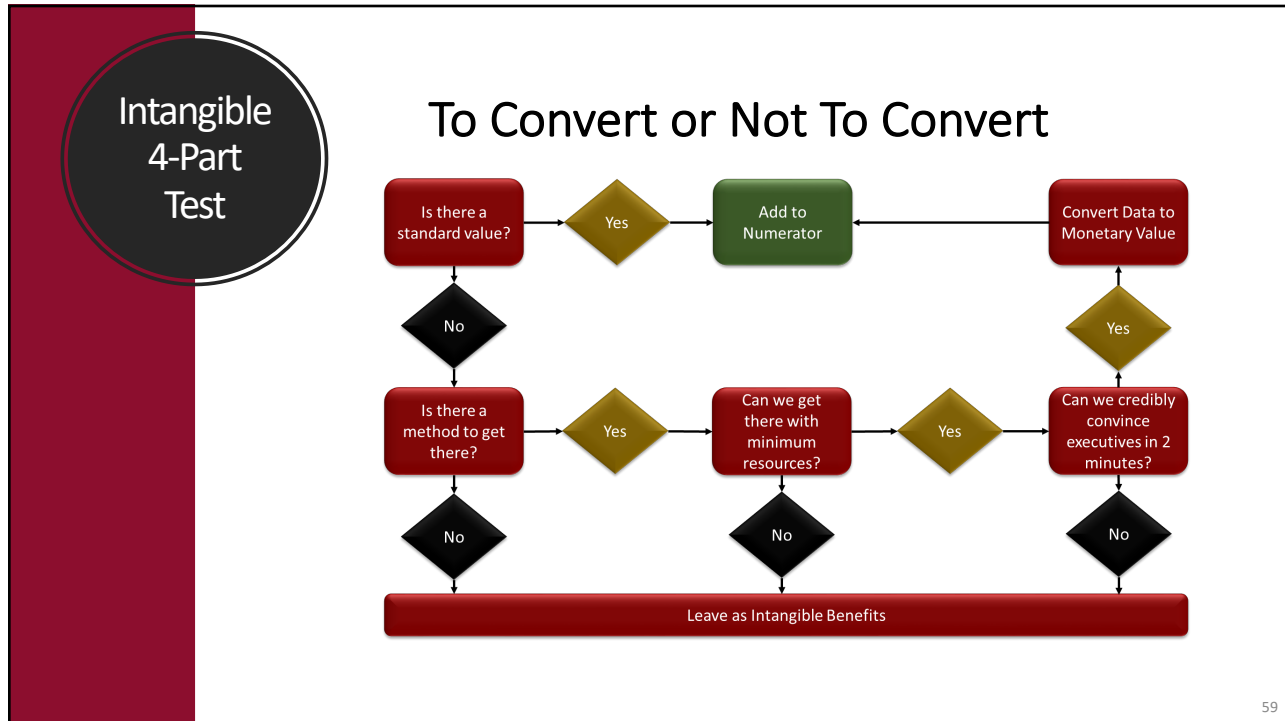
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Make it Credible:  
Identify intangibles



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- ### Intangibles
- Adaptability
  - Agility
  - Alliances
  - Awards
  - Brand awareness
  - Burnout
  - Capacity
  - Caring
  - Clarity
  - Collaboration
  - Communication
  - Conflicts
  - Compassion
  - Compliance
  - Corporate social responsibility
  - Decisiveness
  - Engagement
  - Food security
  - Happiness
  - Human Life
  - Image
  - Innovation
  - Job satisfaction
  - Leadership
  - Mindset
  - Networking
  - Organizational climate
  - Organizational commitment
  - Poverty
  - Reputation
  - Risk
  - Social capital
  - Stress
  - Sustainability
  - Talent
  - Teamwork
  - Trust
  - Uncertainty

## Make it Credible: Tabulate cost



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## Fully Loaded Costs

**“When in doubt, put it in.”**

The process should withstand  
even the closest scrutiny in  
terms of its credibility.

### DIRECT

- Program materials
- Instructor/facilitator
- Facilities
- Travel, lodging, meals

### INDIRECT

- Needs assessment (prorated)
- Program development (prorated)
- Participant time (salaries & benefits)
- Administrative/overhead
- Evaluation

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## Make it Credible: Calculate ROI



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## Poverty Stoplight Program

### Employer

#### Monetary Benefits

Turnover reduction	\$745,000
Absenteeism reduction	210,000
Accident prevention	155,000
Productivity improvement	<u>75,000</u>
	\$1,185,000

#### Program Costs

Direct (including salary increase)	\$631,000
Indirect	<u>242,000</u>
	\$873,000

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## ROI Calculation

$$\text{BCR} = \frac{\$1,185,000}{\$873,000} = \boxed{\phantom{000}}$$

$$\text{ROI} = \frac{\$1,185,000 - \$873,000}{\$873,000} \times 100 = \boxed{\phantom{000}}$$

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## Tell the Story: Communicate the results to key stakeholders



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## Methods of Communication

- Meetings
  - Executives
  - Management
  - Stakeholders
  - Staff
- Detailed Reports
  - Impact study
  - Case study (internal)
  - Case study (external)
  - Major articles
- Brief Reports
  - Executive summary
  - Slide overview
  - One-page summary
  - Brochure
- Electronic reporting
  - Website
  - Email
  - Blog/Social media
  - Video
- Mass Publications
  - Announcements
  - Bulletins
  - Newsletters
  - Brief articles
  - Press releases




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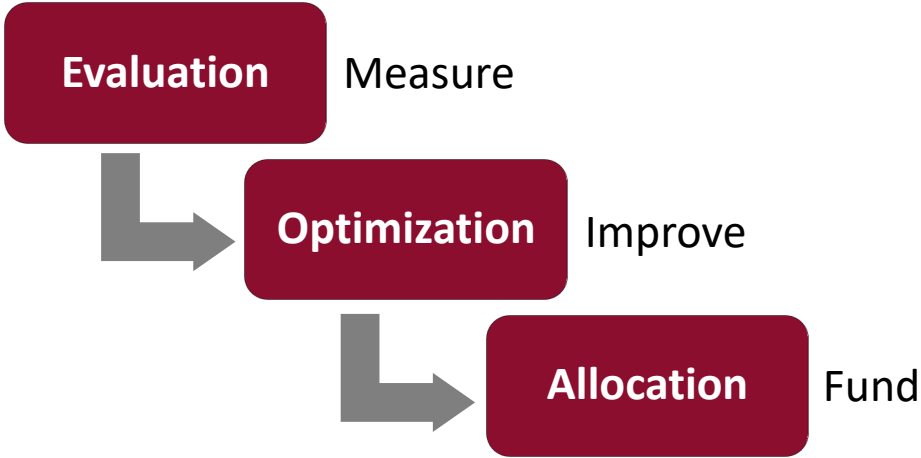
Optimize Results:  
Use black box thinking to increase  
funding



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Process Improvement is the Key: Black Box Thinking



```
graph TD; A[Evaluation Measure] --> B[Optimization Improve]; B --> C[Allocation Fund]
```

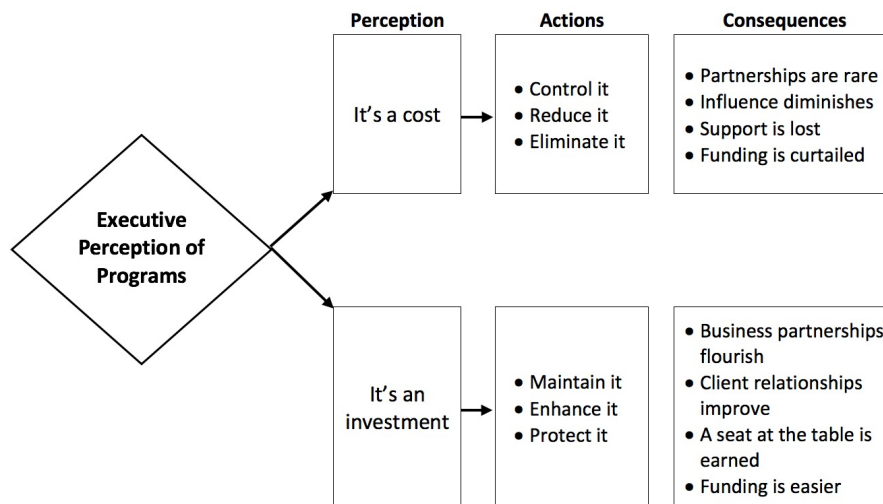
70

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## Cost vs. Investment Perception: The Reality



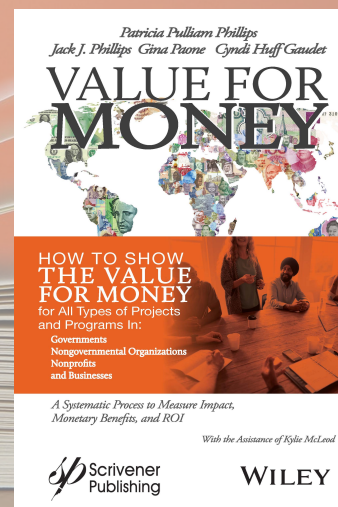
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# Virtual ROI Certification For Poverty Stoplight Program

**The Approach is Accessible**  
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**Why virtual?**


- Virtual delivery is convenient for those who cannot or choose not to travel.
- Virtual delivery offers participants the opportunity to engage with others in locations other than their own.
- Virtual delivery allows continuous access to learning modules and resources, reinforcing the knowledge participants gain.

**Email Melissa Brown for details: [Melissa@roiinstitute.net](mailto:Melissa@roiinstitute.net)**

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# ROI CERTIFICATION®

## 2021 SCHEDULED EVENTS





May 3-7 – Blairsville, GA	August 30-September 3 – Salt Lake City, Utah
May 21-June 4 – Live Virtual (Delivered in Arabic)	September 13-24 – Live Virtual
June 7-18 – Live Virtual (Focused on Healthcare)	September 27-October 1– New Orleans, LA
June 14-25 – Live Virtual	October 4-8 – Atlanta, GA
August 2-6 – Columbus, Ohio	October 18-22 – Boston, MA
August 3-September 16 – Live Virtual (Delivered in Spanish)	

### WHAT IS ROI CERTIFICATION?

ROI Certification is a globally renowned process focused on measuring the true value of tough-to-measure initiatives using the ROI Methodology®. Participating in ROI Certification is the most comprehensive way to gain the skills needed to evaluate major programs and to report the most credible results that drive organizational improvement.

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 This program has been approved for 36 (HR General) Recertification Credit Hours toward PHR, SPHR and GPHR recertification through the HR Certification Institute (HRCI).

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## Questions?

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