

Mastering **ROI for Workplace Safety** Interventions in 5 Steps

A Complete Guide to Calculating Returns, Leveraging Technology, and Maximizing Safety Investments



Preventing People From Breaking

www.soteranalytics.com



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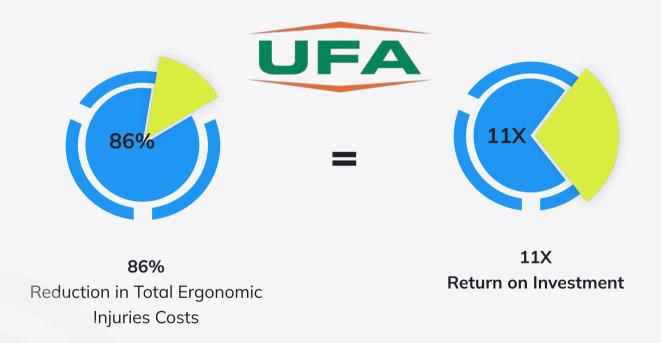
Preventing People From Breaking



Introduction To ROI

Return on Investment (ROI) is a key metric for evaluating business investments, including workplace health and safety technology. By calculating ROI, companies can determine the cost- effectiveness of safety interventions and make informed decisions.

Using the **SoterCoach** solution, United Farmer's of Alberta achieved an 86% reduction of total ergonomic injury costs and saw an **11 x Return** on their Investment.



In addition to the direct cost savings for reduced WCB claims, UFA is also trending towards a reduction in their WCB premium, based on the last **3 years of claims**.



Importance of Calculating ROI



Evaluating cost-effectiveness



Allowing comparison of different options



Supporting informed decision-making



Helping to manage risk



Promoting cost savings

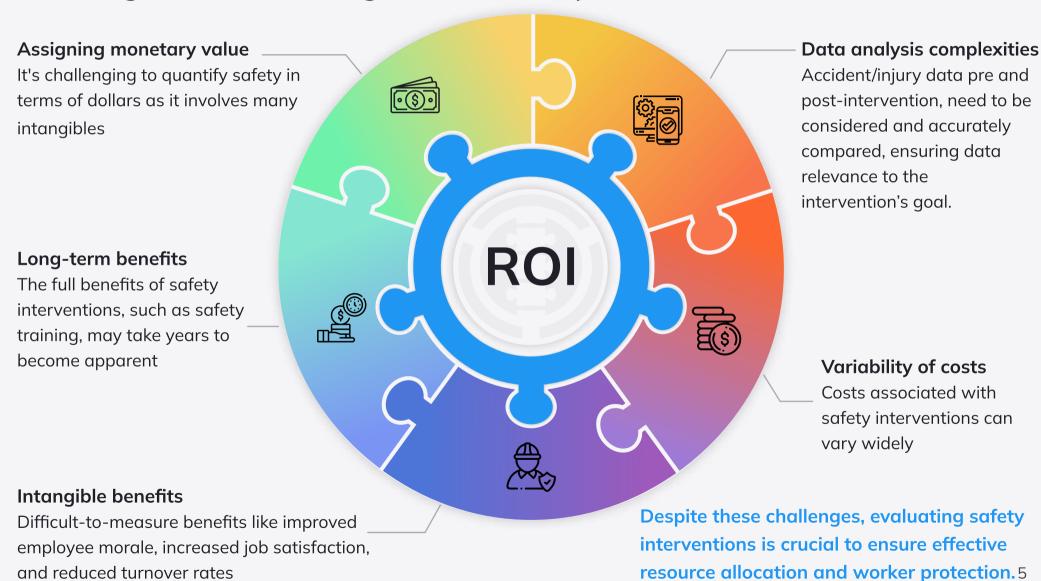


Improving workplace safety





Challenges Of Calculating ROI For Safety Interventions

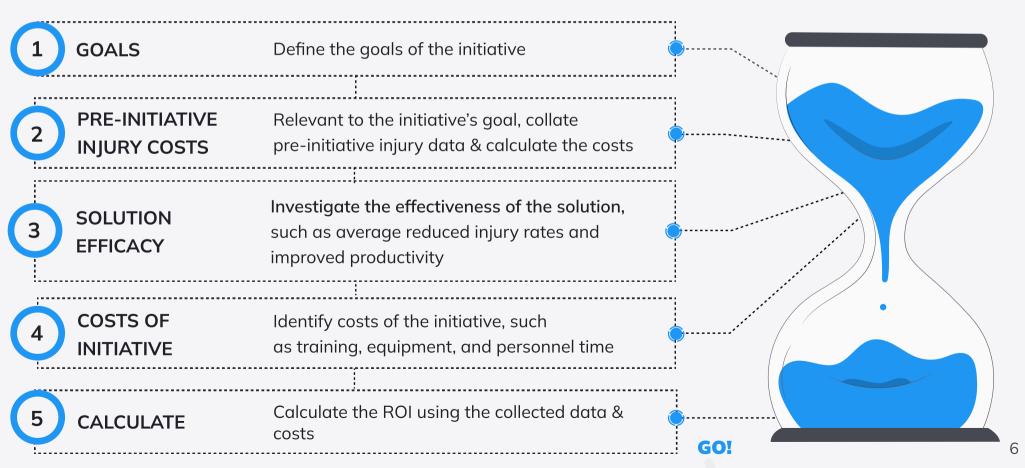




Calculating ROI In 5 Steps

Determining ROI for a safety initiative can take a few weeks to a few months, depending on factors like the initiative's nature, organization size, data availability and quality, and analysis complexity.

To calculate ROI, the following steps are needed:





Step 1: Goals

Before implementing a safety technology initiative, you may want to establish certain goals to guide your efforts and gauge your success. Here are some goals you might consider:



Reduce Overall Injury Rates

A specific percentage reduction in all types of workplace injuries.



Diminish Total Recordable Incidents (TRIs)

Aim for a percentage decrease in injuries or illnesses requiring more than basic first aid.



Improve Staff Retention

Decrease turnover rate, increasing staff retention.



Lower Lost-Time Injuries (LTIs)

Decrease the number of injuries that result in time away from work.



Reduce Workers' Compensation Claims

A target reduction in the number of claims.



Enhance Safety Culture

Foster greater engagement and awareness around safety practices.



Decrease Musculoskeletal Disorders (MSDs)

Target a percentage reduction in MSDs.



Increase Productivity

A specified percentage increase in productivity.



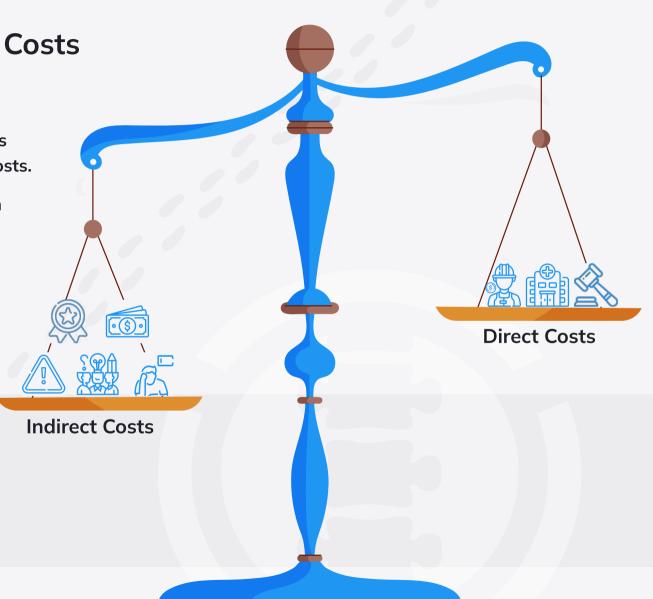
Step 2: Pre-Initiative Injury Costs

After defining the initiative's goals, compile all pre-initiative injury data pertinent to these goals for a set period and calculate the associated costs.

In calculating the associated costs, factor in both the direct and indirect expenses of a workplace injury, acknowledging that indirect costs often increase the injury cost by 2 to 10 times.

Different methods, such as the human capital method or the friction cost method, may be used to calculate indirect costs.

True Cost of an Injury = Direct Costs + Indirect Costs

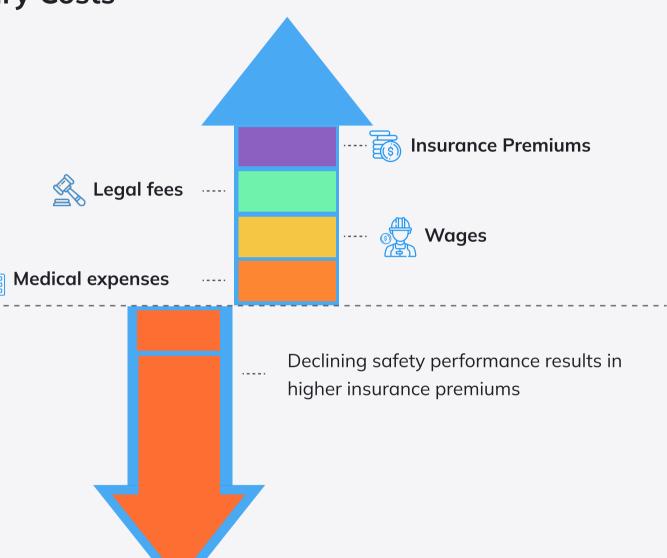




Step 2: Pre-Initiative Injury Costs

Direct Cost Of Injuries

Direct costs are paid by workers' compensation insurance. Common direct costs include medical expenses, workers' compensation, and legal fees. Calculate the direct costs for a specific period, such as a year.



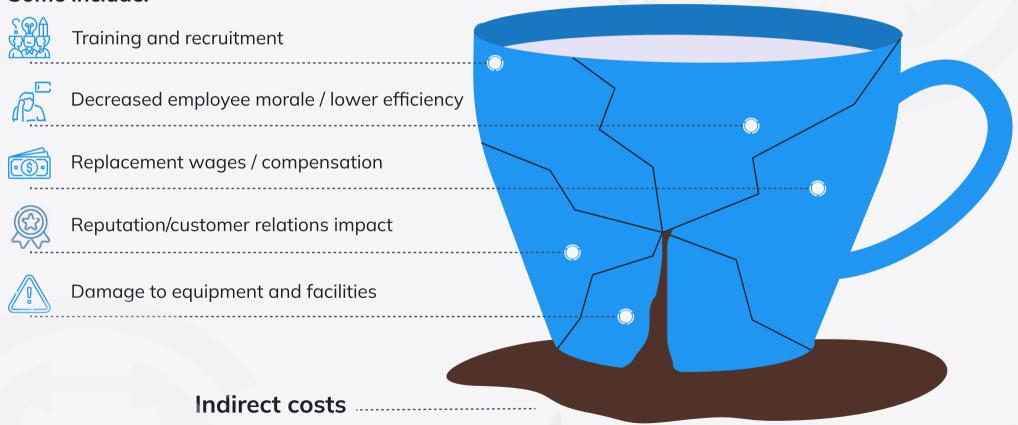


Step 2: Pre-Initiative Injury Costs

Indirect Costs Of Injuries

Indirect costs, are harder to quantify and can vary significantly among companies. These are all the 'uninsured' additional costs associated with an injury.

Some include:





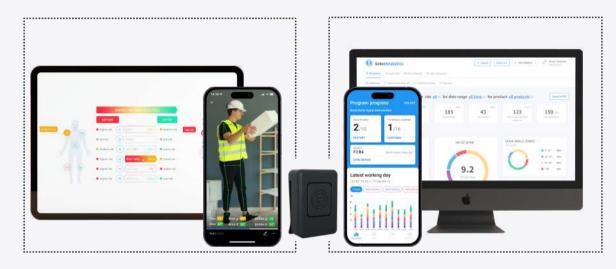
Step 3: Solution Efficacy

To determine the effectiveness of an initiative you must research the supplier's predicted ROI - Solution Efficacy.

To help determine the probable ROI on a safety technology initiative, solution providers offer average effectiveness percentages for their solutions based on historical data, industry benchmarks, or case studies.

The actual effectiveness can vary significantly depending on context, implementation, and the organization. Treat these percentages as general guidance, not guaranteed outcomes.

The Soter Solutions



SoterCoach and SoterTask together have a proven overall effectiveness percentage of 70%.

To estimate the potential savings from implementing the initiative, it's crucial to ascertain the effectiveness of the solution.



Step 4: Costs of Initiative

Deploying a new safety technology initiative involves various costs, which may include but are not limited to:

- Equipment
- Software
- Installation
- Training
- Maintenance
- Operational

To determine the ROI on a safety intervention you must identify the complete the cost of the initiative.





Step 5: Calculate

Armed with the necessary data, you're all set to calculate the projected Return on Investment (ROI) for the safety initiative you're exploring. Apply this formula to quantify your ROI.

- Calculate the savings from the initiative:
 - Pre-Initiative Injury Costs X Solution Efficacy

Sa

Savings from Initiative

2 Calculate the potential return on investment:





Savings from Initiative



Cost of Initiative



Cost of Initiative

[&]quot;Savings from Initiative" represents the reduction of costs calculated from obtaining fewer injuries.

[&]quot;Cost of Initiative" refers to the cost of the safety technology solution.

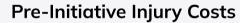


Example: Calculating the ROI of Soter's Solutions

Here we will use an example of a company with 1,000 employees with the total costs of musculoskeletal injuries per year calculated at \$810,000 and calculate the potential ROI for deploying the Soter solutions.







Pre-initiative injury costs per year = \$810,000.







--Solution Efficacy

Soter Analytics' safety technology has 70% effectiveness at reducing injuries.



The following example demonstrates the potential savings from SoterTask and SoterCoach.



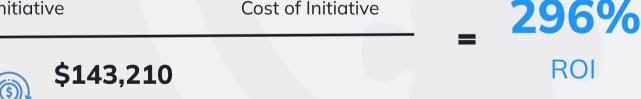
Example: Calculating the ROI of Soter's Solutions







Cost of Initiative



Note: For context, a 100% ROI implies breaking even, as your savings from the initiative equals the total costs invested. While not reflecting a net gain, it signifies a self-financed safety improvement, indirectly benefiting morale, reputation, and productivity potential.



1. Post Deployment: Evaluate Initiative Effectiveness

Once you have deployed the initiative, you can analyze the effectiveness by defining objectives and KPIs for a **predefined period.** This period should be long enough to assess the effectiveness accurately.

- Establish goals for the safety initiative e.g. reducing accidents, improving turnover, or increasing worker awareness.
- Collect baseline KPI data and monitor KPIs post-implementation.
- Calculate overall effectiveness percentage by comparing post-implementation KPI data with baseline data:

Effectiveness Percentage =
(∑ [(Post-implementation KPI - Baseline KPI)
/ Baseline KPI] / number of KPIs) x 100.

Remember to consider qualitative factors like employee feedback and safety culture changes. While these factors may be more challenging to quantify, they provide valuable insights into the overall success beyond numerical measurements.





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REDUCE INJURIES

Up to 86% of reduction in back & shoulder injuries



REDUCE LOST WORKDAYS

Achieve up to 30% of reduction in lost workdays



IMPROVE PRODUCTIVITY

Ensure smooth operations and reduce employee turnover



BOOST ROI

Minimize cost exposure while the benefits are demonstrated





