A Forrester Total Economic Impact™ Study Commissioned by ServiceNow January 2018

The Total Economic Impact™ Of ServiceNow Security Operations

Achieving A 230% ROI By Prioritizing And Resolving Security Incidents And Vulnerabilities Fast

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Project Director: Anish Shah January 2018

ABOUT FORRESTER CONSULTING

Forrester Consulting provides independent and objective research-based consulting to help leaders succeed in their organizations. Ranging in scope from a short strategy session to custom projects, Forrester's Consulting services connect you directly with research analysts who apply expert insight to your specific business challenges. For more information, visit forrester.com/consulting.

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Key Benefits



Increased efficiency of prioritizing and resolving security incidents:

\$4.7 million in savings



Improved vulnerability management and response times:

60% increase



"ServiceNow allows us to be much more strategic about how we manage our security environment. We have reduced the time to assess the severity of issues and significantly improved our security response times."

> VP Information Security, Global Financial Services firm

Executive Summary

ServiceNow commissioned Forrester Consulting to conduct a Total Economic Impact™ (TEI) study and examine the potential return on investment (ROI) from deploying ServiceNow® Security Operations. This study provides a framework for evaluating the potential financial impact of investing in ServiceNow to improve security incident and vulnerability response processes.

Forrester interviewed three customers about their experience using ServiceNow. Prior to investing in ServiceNow, they spent several manhours gathering security event and incident data from multiple sources, prioritizing and grouping incidents by criticality, identifying the locations of vulnerable infrastructure assets, and working across cross-functional teams to remediate issues.

ServiceNow Security Operations helped these customers 1) automate manually intensive security incident and vulnerability response processes; 2) consolidate alerts from multiple security tools on to a single platform; 3) quickly map security incidents and vulnerabilities to IT infrastructure; and 4) prioritize and resolve the most critical security incidents and vulnerabilities first.

Forrester developed a representative or composite organization based on the customer interviews to highlight the benefits realized from investing in ServiceNow.

Key Findings

Quantified benefits. The composite organization expects the following risk-adjusted quantified benefits over three years:

- Increased efficiency of prioritizing and resolving security incidents, resulting in \$4.7 million in benefits. It saw a 30% improvement in the efficiency with which tier 1 security incidents are handled by front-line security analysts. It also realized a 50% efficiency increase related to managing tier 2 and higher security incidents that require coordination across multiple IT and security resources. These efficiencies are gained by automating workflows that span security and IT, prioritizing security incidents based on business criticality, and tracking incidents and assigning tasks using a single platform.
- Improved vulnerability management and response times, resulting in \$535,000 in benefits. The interviewed customers conduct routine weekly scans to identify, classify, and prioritize vulnerabilities in their environments. On average, they identify 100,000 vulnerabilities each week. Previously, they resorted to manually intensive processes to group vulnerabilities and have them analyzed by their security teams. ServiceNow Security Operations allows these customers to automatically pull all the data from a vulnerability scan into the solution and then apply rules and logic to identify critical vulnerabilities that need immediate action. It also links these vulnerabilities to existing assets. The composite organization saw a 60% improvement in the way in which it identifies and prioritizes vulnerabilities and assesses the impact on existing assets. In addition, it realized a 25% improvement in vulnerability response times by speeding the application of patches and other remediation efforts with automated workflows.











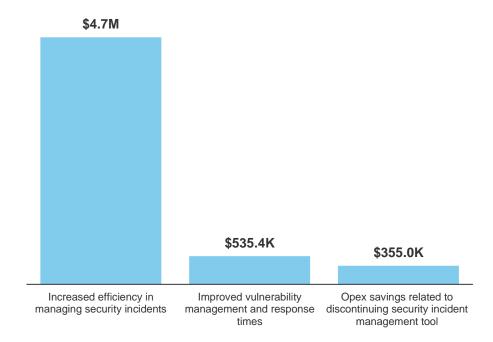
"We did not have consistent criteria for evaluating credible threats and were too reliant on outside partners with poor service to provide us with critical security threats. We were assuming more risk and susceptible to security and data breaches. We needed a solution that would enable us to take control of security threats affecting our business."

Security Analyst,
 Financial Services company



Opex savings by eliminating legacy security tools results in \$355,000 in benefits. The composite organization was able to discontinue software licenses for legacy tools used to manage security incident response processes. It is estimated that these tools cost the organization \$250,000 each year, and that it would be able to discontinue and realize these savings beginning in Year 2.

Expected Benefits (Three-Year)



Additional benefits. The composite organization expects to realize the following additional benefits that were not quantified in the study:

- Improved IT productivity. Previously, its IT resources assisted the security team by pulling data from multiple sources to identify security incidents and vulnerabilities. ServiceNow Security Operations provides the organization with a single platform to consolidate and integrate data across its environment and route tasks to the right IT and security teams using automated workflows.
- Better visibility into security posture. Intuitive, real-time dashboards allow security teams and executives to understand the organization's current security posture. These dashboards make it easy to track inprogress tasks, critical metrics, and key performance indicators (KPIs) to make business decisions and mobilize resources around the highest priority security incidents.
- Increased collaboration. ServiceNow Security Operations lets both IT and security resources assign tasks and collaborate in real time using a common system. Better collaboration improves security incident and vulnerability response times.



"The ability to give our CSO and CISO visibility into our security environment and allow them to see the risk profile of our company at any given time was all the economic justification we needed to go with ServiceNow."

 VP Information Security, Financial Services firm



Costs. The composite organization experienced implementation costs and annual license fees as highlighted below. For confidentiality reasons, these costs are not quantified in the study (for more information regarding ServiceNow Security Operations pricing, please contact your ServiceNow representative):

Initial implementation and ongoing resource costs. The composite organization hired a professional services partner to help with the implementation, as well as the process and system design of ServiceNow Security Operations within their environment. Within four months of signing the contract, it had successfully rolled out the solution and begun realizing the benefits from its investment.

The organization dedicated internal support resources, including project managers, security analysts, and IT, to gather requirements and collect the data required to transition to ServiceNow Security Operations. It also dedicated two full-time equivalents (FTEs) to support and administer the ServiceNow solution.

> Annual license fees. The composite organization incurs an annual license fee for ServiceNow Security Operations. This gives it access to the ServiceNow Security Incident Response application, Vulnerability Response application, Threat Intelligence applications, Performance Analytics, dashboards, and communication tools. The annual license fee also covers routine upgrades and maintenance.

The TEI methodology helps companies demonstrate, justify, and realize the tangible value of IT initiatives to both senior management and other key business stakeholders.

TEI Framework and Methodology

Based on the interviews, Forrester has constructed a Total Economic Impact™ (TEI) framework for those organizations considering implementing ServiceNow Security Operations.

The objective of the framework is to identify the cost, benefit, flexibility, and risk factors that affect the investment decision. Forrester took a multistep approach to evaluate the impact that ServiceNow Security Operations can have on an organization:



DUE DILIGENCE

Interviewed ServiceNow stakeholders and Forrester analysts to gather data related to ServiceNow Security Operations.



CUSTOMER INTERVIEW

Interviewed three customers using ServiceNow Security Operations to obtain data with respect to the benefits and risks related to investing in ServiceNow Security Operations.



FINANCIAL MODEL FRAMEWORK

Constructed a financial model representative of the interview using the TEI methodology and risk-adjusted the financial model based on issues and concerns of the interviewed organizations.



CASE STUDY

Employed four fundamental elements of TEI in modeling the impact of ServiceNow Security Operations: benefits, costs, flexibility, and risks. Given the increasing sophistication that enterprises have regarding ROI analyses related to IT investments, Forrester's TEI methodology serves to provide a complete picture of the total economic impact of purchase decisions. Please see Appendix A for additional information on the TEI methodology.

DISCLOSURES

Readers should be aware of the following:

This study is commissioned by ServiceNow and delivered by Forrester Consulting. It is not meant to be used as a competitive analysis.

Forrester makes no assumptions as to the potential ROI that other organizations will receive. Forrester strongly advises that readers use their own estimates within the framework provided in the report to determine the appropriateness of an investment in ServiceNow Security Operations.

ServiceNow reviewed and provided feedback to Forrester, but Forrester maintains editorial control over the study and its findings and does not accept changes to the study that contradict Forrester's findings or obscure the meaning of the study.

ServiceNow provided the customer names for the interviews but did not participate in the interviews.



The Customer Journey

Interviewed Organizations

For this study, Forrester interviewed three organizations that have implemented ServiceNow Security Operations:

INDUSTRY	REGION	TOTAL EMPLOYEES*	TOTAL SECURITY OPERATIONS EMPLOYEES	
Financial services	Global (U.S. headquarters)	13,500	80	
Financial services	Global bank (U.S. operations)	1,000	10	
Healthcare services	U.S. headquarters	4,200	50	

^{*}Includes contractors

Composite Organization

Based on interviews with three ServiceNow Security Operations customers, Forrester constructed a composite organization to highlight the financial benefits, costs, and associated ROI from implementing ServiceNow Security Operations. The organization is described below.

- A U.S.-based organization with 10,000 FTEs (includes contractors)
- > \$1.5 billion in annual revenue
- > 500 IT FTEs
- 65 security operations FTEs (analysts and security engineers)

Key Challenges

The composite organization faced the following challenges prior to investing in ServiceNow Security Operations:

- Manual processes hindered security incident and vulnerability response times. The organization's security team was inundated with alerts and information from multiple tools. Each incident required manual effort to determine the risk level, business context, and priority. Once the business criticality and priority of a security incident was established, coordinating a response across IT and security and tracking it through to resolution involved inefficient manual processes.
- Limited visibility into security posture. The composite organization had a number of security products that monitor its environment and alert it to potential security threats and risks. The security analysts struggled with consolidating data and metrics across these multiple products to provide the management team with real-time visibility into the security posture of the organization.
- High costs associated with manual security response. The organization spent days assessing each security incident or vulnerability and then coordinating a remediation plan. In addition, front-line security analysts were burdened with working on incidents that could easily be addressed through automation.

"Our vulnerabilities management and response process was archaic at best. Once we identified a business-critical vulnerability, the time to implement and remediate was often too slow. We had to identify the vulnerable asset, get the necessary patches, test across multiple teams, and then finally implement the fix. We have significantly improved our vulnerability response process with ServiceNow."

Security Analyst,
 Financial Services company





Key Results

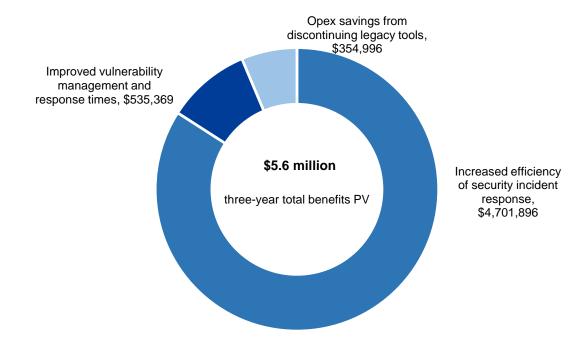
The interviews revealed the following benefits of investing in ServiceNow:

- Improved security incident response times. The composite organization increased the efficiency with which it manages both tier 1 security incidents as well as the more complex tier 2 and higher incidents after implementing ServiceNow.
- Improved vulnerability management process. It can automatically pull in data from vulnerability scans into ServiceNow Security Operations, group vulnerabilities by criticality, and automatically link a vulnerability to an enterprise asset.
- Intuitive dashboards and reporting delivers real-time visibility into the security posture. All levels within the organization can track the status of its security and risk profile at any time.
- Increased communication and coordination between IT and security teams. A single platform lets the teams communicate, track, and coordinate security incident and vulnerability response efforts more effectively.
- Increased automation. The composite organization can now automate basic tasks, route incidents and vulnerabilities to appropriate resources, and save audit trails—leading to improved security operations productivity.
- Opex savings from a single enterprise security response solution. The composite organization discontinued its legacy tools resulting in additional savings.



Financial Analysis

QUANTIFIED BENEFITS AND COSTS FOR THE COMPOSITE ORGANIZATION



Total Benefits							
REF.	BENEFIT	YEAR 1	YEAR 2	YEAR 3	TOTAL	PRESENT VALUE	
Atr	Increased efficiency of security incident response	\$1,890,702	\$1,890,702	\$1,890,702	\$5,672,106	\$4,701,896	
Btr	Improved vulnerability management and response times	\$215,280	\$215,280	\$215,280	\$645,840	\$535,369	
Ctr	Opex savings by discontinuing legacy tools	\$0	\$225,000	\$225,000	\$450,000	\$354,996	
	Total benefits (risk-adjusted)	\$2,105,982	\$2,330,982	\$2,330,982	\$6,767,946	\$5,592,262	

The table above shows the total of all benefits across the areas listed below, as well as present values (PVs) discounted at 10%. Over three years, the composite organization expects risk-adjusted total benefits of more than \$5.6 million (PV).



Increased Efficiency of Security Incident Response

The biggest benefit was from the increased efficiency in identifying, prioritizing, and resolving security incidents. ServiceNow Security Operations integrates with other security tools to consolidate all security incidents in one place. This allows security analysts to quickly triage incidents and prioritize the most critical issues. Once a security incident is identified and classified, a number of next actions are available: pre-defined automatic responses can be initiated to analyze, contain, or resolve incidents, others can be routed to front-line security analysts, and more complex incidents can be sent to specialized teams to respond. All open threats are tracked using the ServiceNow solution, enabling quicker coordination around responding to and remediating security incidents.

The composite organization deals with 1,100 qualified security incidents each month that require responses. On average, 93% of these incidents are classified as tier 1 or less complex incidents that can be handled and resolved by front-line security analysts. Prior to ServiceNow, the composite organization estimated that front-line analysts spent approximately two hours responding to each tier 1 incident. By implementing ServiceNow Security Operations, the organization estimates that response times for these incidents improved by 30%. Automating responses to recurring incidents allows security analysts to focus on investigating and remediating the more complex threats.

Resolving the remaining 7% of security incidents requires greater coordination across IT and security teams. The composite organization realized a 50% improvement in response times for these security incidents. ServiceNow Security Operations lets it easily assign tasks, hold teams accountable, and coordinate responses across security and IT teams. Out-of-the-box features of the ServiceNow solution help with prioritizing and routing security incidents and tasks to the right resources using automated workflows.

There are several factors that can influence an increased efficiency in managing security incidents, including:

- > The number of security threats affecting an organization.
- > The types of security threats affecting an organization.
- > The skillsets of IT and security resources.

To account for these factors, Forrester adjusted this benefit downward by 10%, yielding a three-year risk-adjusted total PV of \$4.7 million.



30% improvement in tier 1 security incident response times.

50% improvement in tier 2 (and higher) security incident response times.

\$1.9 million in benefits each year from improved security incident response times.



REF.	METRIC	CALC.	YEAR 1	YEAR 2	YEAR 3
A1	Average number of qualified security incidents each month	Customer interviews	1,100	1,100	1,100
A2	Number of months		12	12	12
A 3	Average number of qualified security incidents each year	Customer interviews	13,200	13,200	13,200
A4	Percentage of qualified security incidents that are tier 1 (can be managed by front-line security analysts)	Customer interviews	93.0%	93.0%	93.0%
A5	Percentage of qualified security incidents that are tier 2 and higher (need external teams' involvement to remediate)	Customer interviews	7%	7%	7%
A6	Number of tier 1 security incidents each year	A3*A4	12,276	12,276	12,276
A 7	Average man-hours to remediate tier 1 security incidents prior to ServiceNow	Customer interviews	2.0	2.0	2.0
A8	Increased efficiency in managing tier 1 security incidents after implementing ServiceNow	Customer interviews	30%	30%	30%
A 9	Number of tier 2 or higher security incidents each year	A3*A5	924	924	924
A10	Average man-hours to remediate tier 2 or higher security incidents prior to ServiceNow	Customer interviews	75	75	75
411	Increased efficiency in managing tier 2 or higher security incidents after implementing ServiceNow	Customer interviews	50%	50%	50%
A12	Average hourly fully burdened rate of a security FTE	Customer interviews	\$50	\$50	\$50
Δt	Increased efficiency of security incident response processes	(A6*A7*A8*A12)+ (A9*A10*A11*A12)	\$2,100,780	\$2,100,780	\$2,100,780
	Risk adjustment	↓10%			
			\$1,890,702	\$1,890,702	\$1,890,702



Improved Vulnerability Management and Response Times

The composite organization uses vulnerability scanning tools to identify vulnerabilities across its infrastructure. On average, each weekly scan generates a list of 100,000 vulnerabilities that it may be susceptible to. Prior to ServiceNow Security Operations, the organization spent 120 man-hours across its IT and security teams to classify and prioritize vulnerabilities, and find assets that could be impacted. This effort primarily involved manual processes and analysis. With ServiceNow Security Operations, these vulnerabilities get immediately imported into the solution. They are prioritized by criticality and linked to existing infrastructure assets. The composite organization estimates a 60% improvement to this vulnerability management process.

Once the vulnerabilities were identified, the composite organization developed response plans that included initiating the necessary software upgrades and applying patches to remediate these threats. Prior to ServiceNow Security Operations, this process took 80 man-hours per weekly vulnerability scan. The composite organization estimates a 25% improvement in vulnerability response times with ServiceNow Security Operations.

To account for the types and numbers of vulnerabilities, Forrester adjusted this benefit downward by 10%, yielding a three-year risk-adjusted total PV of \$535,369.



60% improvement in vulnerability management and response times.

Improved Vulnerability Management and Response Times: Calculation Table						
REF.	METRIC	CALC.	YEAR 1	YEAR 2	YEAR 3	
B1	Average number of vulnerabilities identified per weekly scan	Customer interviews	100,000	100,000	100,000	
B2	Number of weeks		52	52	52	
В3	Average number of man-hours to classify, prioritize, and link vulnerabilities to assets, per 100,000 vulnerabilities scanned (prior to ServiceNow)	Customer interviews	120	120	120	
B4	Improvement in classifying, prioritizing, and linking vulnerabilities to assets, per 100,000 vulnerabilities scanned (with ServiceNow)	Customer interviews	60%	60%	60%	
B5	Average number of man-hours spent remediating vulnerabilities per weekly scan	Customer interviews	80	80	80	
В6	Improved efficiency in remediating vulnerabilities per weekly scan	Customer interviews	25%	25%	25%	
B7	Average hourly fully burdened rate of a security FTE		\$50	\$50	\$50	
Bt	Improved vulnerability management and response times	{(B1*B2*B3*B4) + (B1*B2*B5*B6)} / 100,000	\$239,200	\$239,200	\$239,200	
	Risk adjustment	↓10%				
Btr	Improved vulnerability management and response times (risk-adjusted)		\$215,280	\$215,280	\$215,280	

Opex Savings From Discontinuing Legacy Tools

With the investment in ServiceNow Security Operations, the composite organization was able to discontinue its legacy tools. Initially, it ran both tools in parallel. After the first year, when all the data and integrations with ServiceNow were in place, the organization discontinued the use of its legacy tools. It is estimated to save the organization \$250,000 each year.

Opex savings can vary by: 1) the number and types of legacy tools that are discontinued; 2) the contract terms; 3) and when an organization decides to discontinue license agreements. To account for these risks, Forrester adjusted this benefit downward by 10%, yielding a risk-adjusted total PV of approximately \$355,000.



\$250,000 saved each year from discontinuing legacy tools.



Opex S	Opex Savings By From Discontinuing Legacy Tools: Calculation Table						
REF.	METRIC	CALC.	YEAR 1	YEAR 2	YEAR 3		
C1	Opex savings from discontinuing legacy tools	Customer interview	0	\$250,000	\$250,000		
Ct	Opex savings from discontinuing legacy tools	C1	\$0	\$250,000	\$250,000		
	Risk adjustment	↓10%					
Ctr	Opex savings related from discontinuing legacy tools (risk-adjusted)		\$0	\$225,000	\$225,000		

Flexibility

Flexibility, as defined by TEI, represents the ability to invest in additional capacity or capabilities in the future that can result in additional business benefits. It provides an organization with the "right" or the ability to engage in future initiatives, but not the obligation to do so. There are multiple scenarios in which an organization might choose to implement ServiceNow Security Operations and later realize additional uses and business opportunities. Flexibility should also be quantified when evaluated as part of a specific project.

Out-of-the-box configuration capabilities and features allow organizations to integrate ServiceNow Security Operations with other security solutions and configure the system to meet their specific needs. Organizations can quickly add and scale users or modify forms and data tables. The underlying platform lets organizations easily leverage other ServiceNow cloud services—for IT Service Management, IT Operations Management, and HR Service Delivery—as well as rapidly build other business applications with reusable components.



About ServiceNow Security Operations

The following information is provided by ServiceNow. Forrester has not validated any claims and does not endorse ServiceNow or its offerings.

Security teams are inundated with alerts and information from a growing number of siloed detection solutions. In parallel, attacks via both known and unknown vulnerabilities continuously target critical business services, IT infrastructure, and users. These incidents and vulnerabilities often lack business context, making it difficult to know which ones pose the greatest threat to the organization. Manual processes and cross-team handoffs hinder a security team's ability to respond effectively. An even more fundamental question for security is, "Are we secure, and are things getting better or worse?" While there is no simple answer, most organizations struggle to establish baseline metrics for their security posture that they can track over time. Combined, these challenges result in missed attacks, which could lead to an eventual breach, as well as detection and response times measured in months.

ServiceNow Security Operations lets organizations connect security and IT teams to respond faster and more efficiently to security incidents and vulnerabilities and get a definitive view of their security posture. It includes the following key components:

- The Security Incident Response application simplifies the identification of critical incidents and provides workflow and automation tools to speed up remediation. Data from existing security point products or Security Information and Event Management Systems (SIEMs) can be imported via APIs or email alerts and are automatically enriched with threat intelligence data. Teams can create customized workflows based on their organization's own security runbook to ensure company best practices are followed. Once an incident is resolved, a post-incident review is automatically generated.
- The Vulnerability Response application prioritizes vulnerable items and adds business context to help security teams determine if business-critical systems are at risk. By leveraging the ServiceNow configuration management database (CMDB), it can also easily identify dependencies across systems and quickly assess the business impact of changes or downtime. Response teams can leverage the workflow and automation capabilities to remediate vulnerabilities faster. When critical vulnerabilities are found, the solution can automatically initiate an emergency patch approval request. Once approved, orchestration tools can apply the patch and trigger an additional vulnerability scan to ensure the issue has been resolved. This results in a coordinated remediation strategy across teams to address the most critical items quickly.
- The Threat Intelligence application helps incident responders find Indicators of Compromise (IoCs) and hunt for low-lying attacks and threats. ServiceNow supports multiple threat feeds, as well as STIX and TAXII, to incorporate threat intelligence data from a variety of sources. Threat Intelligence allows customers to add their own custom feeds to improve reliability in identifying issues. In addition, IoCs can be sent to third-party threat intelligence tools for additional analysis, which is then stored in the security incident record for easy reference.
- Performance Analytics for Security Operations lets teams create real-time dashboards and reports. It includes built-in key performance indicators (KPIs) and lets teams create additional custom KPIs to improve visibility and confidence around an organization's security posture and performance.

To learn more about ServiceNow Security Operations, please visit www.servicenow.com/sec-ops



Appendix A: Total Economic Impact

Total Economic Impact is a methodology developed by Forrester Research that enhances a company's technology decision-making processes and assists vendors in communicating the value proposition of their products and services to clients. The TEI methodology helps companies demonstrate, justify, and realize the tangible value of IT initiatives to both senior management and other key business stakeholders.

Total Economic Impact Approach



Benefits represent the value delivered to the business by the product. The TEI methodology places equal weight on the measure of benefits and the measure of costs, allowing for a full examination of the effect of the technology on the entire organization.



Costs consider all expenses necessary to deliver the proposed value, or benefits, of the product. The cost category within TEI captures incremental costs over the existing environment for ongoing costs associated with the solution.



Flexibility represents the strategic value that can be obtained for some future additional investment building on top of the initial investment already made. Having the ability to capture that benefit has a PV that can be estimated.



Risks measure the uncertainty of benefit and cost estimates given: 1) the likelihood that estimates will meet original projections and 2) the likelihood that estimates will be tracked over time. TEI risk factors are based on "triangular distribution."

The initial investment column contains costs incurred at "time 0" or at the beginning of Year 1 that are not discounted. All other cash flows are discounted using the discount rate at the end of the year. PV calculations are calculated for each total cost and benefit estimate. NPV calculations in the summary tables are the sum of the initial investment and the discounted cash flows in each year. Sums and present value calculations of the Total Benefits, Total Costs, and Cash Flow tables may not exactly add up, as some rounding may occur.



The present or current value of (discounted) cost and benefit estimates given at an interest rate (the discount rate). The PV of costs and benefits feed into the total NPV of cash flows.



The present or current value of (discounted) future net cash flows given an interest rate (the discount rate). A positive project NPV normally indicates that the investment should be made, unless other projects have higher NPVs.



A project's expected return in percentage terms. ROI is calculated by dividing net benefits (benefits less costs) by costs.



The interest rate used in cash flow analysis to take into account the time value of money. Organizations typically use discount rates between 8% and 16%.



The breakeven point for an investment. This is the point in time at which net benefits (benefits minus costs) equal initial investment or cost.

