A Forrester Total Economic Impact™ Study Commissioned By Sage March 2020

The Total Economic Impact™ Of Sage X3 Solution For Distribution Organizations

Cost Savings And Business Benefits Enabled By Sage X3





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ABOUT FORRESTER CONSULTING

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Key Benefits



Total headcount saved: **5 FTEs**



Customer service annual hours saved:

2,080



Reduction in distribution inventory levels: 13%

Executive Summary

As the dynamic between customer and businesses shifts, an increasing number of distribution organizations respond by transforming their business operations to yield economic benefits, including faster revenue growth, higher margins, and lower operating costs. Forward thinking distribution organizations are increasingly turning to business management solutions. It helps automate business processes, reduce risks, produce new levels of customer and operational intelligence, and ultimately fuel digital transformation.

Sage provides a business management solution for distribution operations that assists customers with core financial and supply chain management functionality. Sage commissioned Forrester Consulting to conduct a Total Economic Impact $^{\text{TM}}$ (TEI) study and examine the potential return on investment (ROI) organizations may realize by deploying Sage X3. The purpose of this study is to provide readers with a framework to evaluate the potential financial impact of the Sage X3 on their distribution organizations.

To better understand the benefits, costs, and risks associated with this investment, Forrester interviewed three Sage X3 distribution customers, each with significant experience of using Sage X3.

For this TEI study, Forrester has created a composite *Organization* to illustrate the quantifiable benefits and costs of investing in Sage X3 for Distribution. Based on characteristics of the interviewed customers, the *Organization* is a global, midsize company in the distribution industry. It has major operations in North America, Europe, and Africa, with minor multisite operations globally. It has been using Sage X3 for more than two years to enable its business process activities. For more information, see the section titled: The Composite *Organization*

Key Findings

- » Quantified benefits. The composite Organization experienced the following risk-adjusted present value (PV) quantified benefits totaling \$2,044,815 (see the Financial Analysis section for more details):
- > Financial management labor savings for reporting: \$258,633.
- > Purchasing materials and productivity savings: \$412,196.
- > Sales management sales discount savings: \$581,923.
- > Inventory management reduced inventory levels: \$392,923.
- > Customer service productivity improvements: \$100,718.
- New features supply chain and financial management productivity savings: \$298,422.













Unquantified benefits. The interviewed organizations experienced the following benefits, which are not quantified for this study:

- > Interviewed customers reported that the workflow automation and alerts functionality within Sage X3 encourages users to adhere to policies and speeds up processes. In the past, an employee would have to chase somebody down to approve a purchase order. With Sage X3, the automated workflow alerts notify the appropriate staff, and approvals are done in a more reasonable amount of time.
- With documentation and office collaboration functionality in Sage X3, every vendor invoice is scanned into a document management system and PDFs are uploaded into Sage X3 and attached to the records. Invoices are now accessible by anyone who needs to see them, including business units and purchasing, receiving dock, and accounts payable employees. With Sage X3, employees don't have to search physical file cabinets anymore; they just access Sage X3 on their computers.

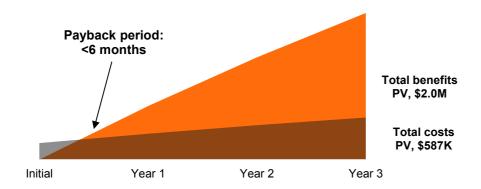
Costs. The *Organization* experienced the following present value (PV) costs (see the Financial Analysis section for more details):

- Internal labor to plan and deploy Sage X3: \$50,000.
- » Sage X3 fees: \$358,948.
- Ongoing internal administrative labor for Sage X3: \$124,343.
- Implementation costs will vary depending on the size and scope of implementation. Readers are encouraged to reach out to Sage for a more tailored quote, based on specific requirements and planned business outcomes. To account for these risks, Forrester adjusted this cost upward by 10%, yielding a three-year risk-adjusted total PV of \$586.620.

Forrester's interviews and subsequent financial analysis found that the *Organization* experienced benefits of \$2,044,815 over three years versus costs of \$586,620, adding up to a net present value (NPV) of \$1,458,195, with a payback period of less than six months and an ROI of 249%.

entation, on average most ceive payback within six to 12

Financial Summary







TEI Framework and Methodology

From the information provided in the interviews, Forrester has constructed a Total Economic Impact[™] (TEI) framework for those organizations considering implementing Sage X3.

The objective of the framework is to identify the cost, benefit, flexibility, and risk factors that affect the investment decision. For rester took a multistep approach to evaluate the impact that Sage X3 can have on an organization:

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



DUE DILIGENCE

Interviewed Sage stakeholders and Forrester analysts to gather data relative to Sage X3.



CUSTOMER INTERVIEWS

Interviewed three organizations using Sage X3 to obtain data with respect to costs, benefits, and risks.



COMPOSITE ORGANIZATION

Designed a composite organization based on characteristics of the interviewed organizations.



FINANCIAL MODEL FRAMEWORK

Constructed a financial model representative of the interviews 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 Sage X3's impact: 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 Sage 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 Sage X3.

Sage 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.

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



The Sage X3 Customer Journey

BEFORE AND AFTER THE SAGE X3 INVESTMENT

Interviewed Organizations

For this study, Forrester conducted interviews with three Sage X3 distribution customers. Interviewed customers include the following (each requesting anonymity):

INDUSTRY	REGION	INTERVIEWEE	NUMBER OF USERS
Medical and personal care products distribution	Headquartered in the US	Technology manager	100
Electrical equipment distribution	Headquartered in South Africa	Chief executive officer (CEO)	50
Multiple products distribution	Headquartered in South Africa	Chief executive officer (CEO)	300

The Composite Organization

For this TEI study, Forrester created a composite Organization to illustrate the quantifiable benefits and costs of investing in Sage X3 for distribution operations. The composite Organization is a global, midsize distribution company. It has major operations in North America, Europe, and Africa with minor multisite operations globally. It has been using Sage X3 for over two years to integrate its distribution business process activities and currently has 80 active users of Sage X3. Functional modules include financial management (budgets, fixed assets, and financial reporting and dashboards) and supply chain management (purchasing and inventory management), customer service, and sales management.

Key Challenges

The composite Organization shared the same issues and challenges as the three interviewed customers:

- The *Organization* was outgrowing the capacity of existing business management software.
- » Inefficiencies of its legacy business management systems undermined growth potential.
- > It was losing insight into operations because of organizational growth and loosely integrated management tools.
- » It had a need to stay competitive within a limited budget.
- » It had a need for more agility and flexibility in an enterprise resource planning (ERP) solution.

"The main reason for choosing Sage X3 was the solution robustness with additional capabilities, offline compatibility, and easy integration with our systems."

Chief executive officer

Solution Requirements

The composite *Organization* searched for a solution that could:

Consolidate disparate distribution business systems into one solution.





- > Achieve process and product consistency across its varied operations.
- > Gain real-time visibility and insights across the global supply chain.
- Accommodate future merger and acquisition activity.
- > Promote a leaner and more agile organization.
- > Have web access support for its mobile sales force.

Key Results

The customer interviews revealed several key and beneficial results attributed to their investment in Sage X3 for Distribution. Here are the composite *Organization* results (more detail is available in the Financial Analysis section):

- **Financial management.** The Sage X3 financial management module produced labor and time savings in the following areas and tasks:
 - The ability to report monthly company financials using multiple local currencies, along with consolidated financials using its headquarters' local currency.
 - The ability to adjust inventory levels and allow inventory control and distribution groups to monitor processes on a daily basis.
 - Better cash management insight and practices.
- Purchasing. The Organization now has the ability to standardize purchasing processes globally, with purchasing managers adhering to standards to ensure the best possible prices and volume discounts from suppliers. In addition, Sage X3 facilitates a more streamlined and less labor-intensive purchasing process.
- Sales management. Sage X3 promotes standardized sales processes, allowing account managers worldwide to operate under the same guidelines and within the same sales database. The Organization can review customer activity globally and monitor, manage, and adjust discount levels.
- Inventory management. The Organization now has visibility into its entire inventory for all global sites. It has experienced a reduction in average levels of certain inventory, using Sage X3 inventory management functionality to increase inventory turns.
- Customer service. Customer service functionality in Sage X3 provides the Organization with more visibility into customer service and accounts receivable issues. There has been customer service productivity and customer satisfaction improvements in the way relationships are managed.
- **New features.** The *Organization* achieves supply chain and financial reporting productivity by using the new Sage X3 features.

"The biggest advantage with Sage X3 was additional flexibility and on-premises installation, whereas other vendors were pushing for cloud services. Onpremises was our preference, and Sage X3 was instrumental in its support."

Technology manager







Analysis Of Benefits

QUANTIFIED BENEFIT DATA AS APPLIED TO THE COMPOSITE

Total	Benefits					
REF.	BENEFIT	YEAR 1	YEAR 2	YEAR 3	TOTAL	PRESENT VALUE
Atr	Sage X3 Financial management — labor savings for reporting	\$104,000	\$104,000	\$104,000	\$312,000	\$258,633
Btr	Sage X3 Purchasing savings	\$165,750	\$165,750	\$165,750	\$497,250	\$412,196
Ctr	Sage X3 Sales management — sales discount savings	\$234,000	\$234,000	\$234,000	\$702,000	\$581,923
Dtr	Sage X3 Inventory management savings	\$158,000	\$158,000	\$158,000	\$474,000	\$392,923
Etr	Sage X3 Customer service savings	\$40,500	\$40,500	\$40,500	\$121,500	\$100,718
Ftr	New features: supply chain and financial reporting productivity	\$120,000	\$120,000	\$120,000	\$360,000	\$298,422
	Total benefits (risk-adjusted)	\$822,250	\$822,250	\$822,250	\$2,466,750	\$2,044,815

Sage X3 Financial Management Module — Labor Savings For Reporting

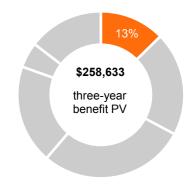
According to the interviewed customers, the implementation of the Sage X3 financial management module results in labor and time savings in the following areas and tasks for the *Organization*.

The *Organization* is now able to report monthly company financials using multiple local currencies, along with consolidated financials using its headquarters' local currency. Prior to Sage X3, the *Organization* made no attempts to produce interim reporting during the month, as it deemed the reporting too labor intensive. With Sage X3, real-time reporting allows purchasing and inventory management groups to review and adjust inventory levels. It allows the inventory control and distribution groups to monitor processes on a daily basis, and the *Organization* has better cash management insight and practices.

Modeling and assumptions. Based on customer interviews, the *Organization* would have needed to add two full-time equivalents (FTEs) to produce real-time reports with the legacy ERP environment and to match the current reporting capabilities of Sage X3. Forrester used a fully loaded annual cost of \$65,000 for the 2 FTEs (financial analyst).

Risks. Forrester considered the following potential risks when assigning a risk adjustment. The labor savings have been risk-adjusted (reduced) by 20% in the table below because the *Organization* never hired the financial analyst, so there's some uncertainty as to the benefit amount. To account for these risks, Forrester adjusted this benefit downward by 20%, yielding a three-year risk-adjusted total PV of \$258,633.

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 to be a PV of more than \$2 million.



Labor savings for reporting: 13% of total benefits





Sage X3 Financial Management — Labor Savings For Reporting						
REF.	METRIC	CALC./SOURCE	YEAR 1	YEAR 2	YEAR 3	
A1	Labor savings — financial reporting	FTE	2.00	2.00	2.00	
A2	Average cost for finance analyst	Industry average	\$65,000	\$65,000	\$65,000	
At	Sage X3 Financial management — labor savings for reporting	A1*A2	\$130,000	\$130,000	\$130,000	
	Risk adjustment	↓20%				
Atr	Sage X3 Financial management — labor savings or reporting (risk-adjusted)	At-20%	\$104,000	\$104,000	\$104,000	

Sage X3 Purchasing Module — Materials And Productivity Savings

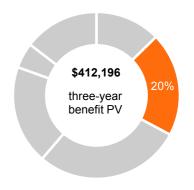
With Sage X3, the *Organization* is now able to standardize its purchasing process globally, with purchasing managers adhering to standards to ensure the best possible prices from suppliers.

Modeling and assumptions. With Sage X3, the *Organization* manages purchasing and inventory levels across all sites, saving 5% annually (\$75,000) on the cost of certain materials through global volume discounts from suppliers. In addition, Sage X3 facilitated a more streamlined, less labor-intensive purchasing process, saving the *Organization* 1.5 FTEs annually. Forrester used a fully loaded annual cost of \$80,000 for the 1.50 FTEs (purchasing managers).

Risks. To be conservative, Forrester risk-adjusted (reduced) the materials and labor savings by 15% in the table below to reflect variations in inventory discount savings, as well as how long it may take to redeploy purchasing staff to other tasks or positions in the *Organization*.

Organization.

To account for these risks, Forrester adjusted this benefit downward by 15%, yielding a three-year risk-adjusted total PV of \$412,196.



Purchasing savings: **20**% of total benefits

Sage X3 Purchasing — Materials And Productivity Savings						
REF.	METRIC	CALC.	YEAR 1	YEAR 2	YEAR 3	
B1	Certain annual materials purchased	Interviews	\$1,500,000	\$1,500,000	\$1,500,000	
B2	Materials cost savings	B1*5%	\$75,000	\$75,000	\$75,000	
В3	Purchasing labor savings (FTEs)	Interviews	1.5	1.5	1.5	
B4	Fully loaded cost per FTE	Industry average	\$80,000	\$80,000	\$80,000	
B5	Purchasing labor savings (FTEs)	B3*B4	\$120,000	\$120,000	\$120,000	
Bt	Sage X3 Purchasing savings	B2+B5	\$195,000	\$195,000	\$195,000	
	Risk adjustment	↓15%				
Btr	Sage X3 Purchasing savings (risk-adjusted)	Bt-15%	\$165,750	\$165,750	\$165,750	



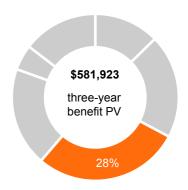


Sage X3 Sales Management Module — Reduced Sales Discounting

With Sage X3, the *Organization* has standardized sales processes, allowing account managers worldwide to operate under the same guidelines and within the same sales database. The *Organization* has a complex discount structure that is further complicated by multiple geographies and currencies. Now the *Organization* can review customer activity globally and monitor, manage, and reduce discount levels. Prior to Sage X3, account managers would get discounts approved locally — exceeding the allowable discount levels and creating unprofitable business in some cases. Interviewed customers agreed that having an ERP system with sales management capability built on a single database reduces unauthorized discounting.

Modeling and assumptions. The *Organization* is saving two-tenths of 1% of sales on discounts, representing pure bottom-line profit.

Risks. To be conservative, Forrester risk-adjusted (reduced) the discounting benefits by 10% in the table below to reflect variations in discounts approved and denied within the *Organization*. This yielded a three-year risk-adjusted total PV of \$581,923.



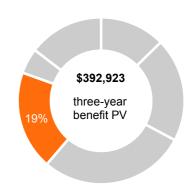
Reduced sales discounts: **28%** of total benefits

Sage X3 Sales Management — Reduced Sales Discounting						
REF.	METRIC	CALC.	YEAR 1	YEAR 2	YEAR 3	
C1	Annual revenues	Forrester	\$130,000,000	\$130,000,000	\$130,000,000	
C2	Discounts avoided (.02% of revenues)	C1*.002	\$260,000	\$260,000	\$260,000	
Ct	Sage X3 Sales management — sales discount savings	C2	\$260,000	\$260,000	\$260,000	
	Risk adjustment	↓10%				
Ctr	Sage X3 Sales management — sales discount savings (risk-adjusted)	Ct-10%	\$234,000	\$234,000	\$234,000	

Sage X3 Inventory Management Module — Savings

With its investment in Sage X3, the *Organization* now has better visibility into its entire inventory for all global sites. For example, if one of the distribution sites does not have a product, it can see that the product is available on another site/location and request shipment from there. The *Organization* experiences a reduction in average levels of certain inventory using Sage X3 inventory management functionality to increase inventory turns.

Modeling and assumptions. The *Organization* is able to increase inventory turns, resulting in more than 13% reduction in average levels of certain inventory, saving the *Organization* \$300,000 (before risk adjustments) in inventory-carrying costs over three years. The *Organization* is also able to reduce headcount associated with inventory management activities, such as quickly capturing inventory transactions and relocating inventory. The *Organization* is able to benefit from these activities and permanently reduces inventory analysts' workloads by one FTE, or \$195,000 (before risk adjustments) over three years.



Inventory management savings: 19% of total benefits





Risks. To be conservative, Forrester risk-adjusted (reduced) the materials and labor savings by 20% in the table below to reflect variations in inventory levels and how long it may take to redeploy inventory management staff to other tasks or positions in the *Organization*. This yielded a three-year risk-adjusted total PV of \$392,923.

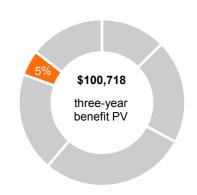
Sage X	(3 Inventory Management Savings				
REF.	METRIC	CALC./SOURCE	YEAR 1	YEAR 2	YEAR 3
D1	Average level of certain inventory before Sage X3	Interviews	\$7,500,000	\$7,500,000	\$7,500,000
D2	Average inventory with Sage X3	Interviews	\$6,500,000	\$6,500,000	\$6,500,000
D3	Average 13.33% reduction in inventory using Sage X3	D1-D2	\$1,000,000	\$1,000,000	\$1,000,000
D4	Carrying cost savings of certain inventory	D3*10%	\$100,000	\$100,000	\$100,000
D5	Increased productivity — inventory transactions	1.5 FTE saved per year	1.50	1.50	1.50
D6	Cost per inventory control FTE	Industry	\$65,000	\$65,000	\$65,000
D7	Labor savings using Sage X3	D5*D6	\$97,500	\$97,500	\$97,500
Dt	Sage X3 Inventory Management savings	D4+D7	\$197,500	\$197,500	\$197,500
	Risk adjustment	↓20%			
Dtr	Sage X3 Inventory Management savings (risk-adjusted)	Dt-20%	\$158,000	\$158,000	\$158,000

Sage X3 Customer Service Module — Productivity Improvements

Customer service functionality in Sage X3 provides the *Organization* with more visibility into customer service and accounts receivable issues. There are productivity and customer relationship improvements in the way relationships are managed.

Modeling and assumptions. The *Organization*'s 10 customer service agents have experienced productivity benefits, saving each agent four hour per week. At an average cost of \$45,000 per year (\$21.63 per hour), annual customer service agent productivity savings are \$45,000 (\$22 * 4 * 5 * 52 weeks), or \$135,000 (before risk adjustments) over the three years of our analysis.

Risks. To be conservative, Forrester risk-adjusted (reduced) the productivity improvement benefits by 10% in the table below to reflect how long it may take to redeploy agents to other customer service tasks in the *Organization*. This yielded a three-year risk-adjusted total PV of \$100,718.



Customer service savings: **5**% of total benefits





Sage	X3 Customer Service Savings				
REF	METRIC	CALC./SOURCE	YEAR 1	YEAR 2	YEAR 3
E1	Number of customer service agents	Interview	10	10	10
E2	Total hours saved per week per agent	Interview	4	4	4
E3	Average annual salary — customer service agents	Interviews	\$45,000	\$45,000	\$45,000
E4	Cost per hour — customer service agents	\$45,000/2,080 hours per year	\$21.63	\$21.63	\$21.63
Et	Sage X3 Customer Service savings	(E1*E2)*E4*52 weeks	\$45,000	\$45,000	\$45,000
	Risk adjustment	↓10%			
Etr	Sage X3 Customer Service savings (riskadjusted)	Et-10%	\$40,500	\$40,500	\$40,500

Sage X3 Distribution — New Features: Supply Chain And Financial Reporting Productivity

Sage has incorporated new features and improvements for supply chain, and financial management into Sage X3. Interviewed customers estimated value and benefits as follows:

Distribution management

Project management. Manage all aspects of a project across financial, distribution, and/or distribution processes, from quoting to planning resources and material, tracking costs and schedule, invoicing, and analyzing profits.

Supply chain management

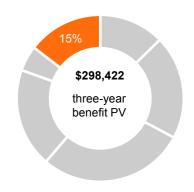
• eCommerce. Build or customize a comprehensive webstore within days, and manage catalogs, pricing, inventory, customers, and all transactions as part of the Sage X3 core supply chain management processes.

Financial management

- Financial reporting. Easily design reports with intuitive Excel-based reporting capabilities integrated with Sage X3 financial management and automate the running and distribution of reports to teams or individuals.
- Automated bank statements. Improve the efficiency of the financial process by automatically generating the transactions matching open items or unbalanced operations when importing bank statements.

Modeling and assumptions. Interviewed customers estimated the new features of Sage X3 would improve productivity by 0.50 FTE for supply chain management and 1 FTE for financial reporting.

Risks. Consistent with previous benefit categories, Forrester risk-adjusted (reduced) the new features benefit by 20% to reflect some uncertainty in achieving the productivity gains for this relatively new functionality. This yielded a three-year risk-adjusted total PV of \$298,422.



New features: supply chain and financial reporting productivity: **15%** of total benefits



THE ANSWER COMPANY

New F	New Features: Supply Chain And Financial Reporting Productivity						
REF.	METRIC	CALC./SOURCE	YEAR 1	YEAR 2	YEAR 3		
F1	Supply chain management savings	FTE	0.50	0.50	0.50		
F2	Financial management savings	FTE	1.00	1.00	1.00		
F3	Average fully loaded cost of FTEs	Industry average	\$100,000	\$100,000	\$100,000		
Ft	New features: supply chain, and financial reporting productivity	(F1+F2)*F3	\$150,000	\$150,000	\$150,000		
	Risk adjustment	↓20%					
Ftr	New Features: supply chain and financial reporting productivity (risk-adjusted)	Ft-20%	\$120,000	\$120,000	\$120,000		

Unquantified Benefits

Unquantified benefits. The interviewed customers experienced the following benefits that are not quantifiable for this study:

- The workflow automation and alerts functionality within Sage X3 encourages users to adhere to policies and speeds up processes. In the past, an employee would have to chase somebody down to approve a purchase order. With Sage X3, the automated workflow alerts notify the appropriate staff, and approvals are done in a more reasonable amount of time.
- With the documentation and office collaboration functionality in Sage X3, every vendor invoice is scanned into a document management system and PDFs are uploaded into Sage X3 and attached to the records. Invoices are now accessible by anyone who needs to see them, including business units and purchasing, receiving dock, and accounts payable employees. With Sage X3, employees don't have to search physical file cabinets anymore; they just access Sage X3 on their computers.

Flexibility

The value of flexibility is clearly unique to each customer, and the measure of its value varies from organization to organization. There are scenarios in which a customer might choose to implement Sage X3's solution and later realize additional uses and business opportunities. There are two future flexibility options that the *Organization* considers:

- Mobile. Sage X3 can be used on any familiar web browser or mobile daying
- Mergers and acquisitions. According to the interviewed customers, having Sage X3 allowed them to acquire companies and move them onto the company ERP model much faster and easier.

The value of flexibility would be quantified when evaluated as part of a specific project (described in more detail in Appendix A).

Flexibility, as defined by TEI, represents an investment in additional capacity or capability that could be turned into business benefit for a future additional investment. This provides an organization with the "right" or the ability to engage in future initiatives but not the obligation to do





Analysis Of Costs

QUANTIFIED COST DATA AS APPLIED TO THE COMPOSITE

Total	Costs						
REF.	COST	INITIAL	YEAR 1	YEAR 2	YEAR 3	TOTAL	PRESENT VALUE
G1	Labor to plan and deploy Sage X3	\$50,000	\$0	\$0	\$0	\$50,000	\$50,000
G2	Sage X3 fees	\$160,000	\$80,000	\$80,000	\$80,000	\$400,000	\$358,948
G3	Ongoing administrative labor for Sage X3	\$0	\$50,000	\$50,000	\$50,000	\$150,000	\$124,343
Gt	Total costs associated with Sage X3 solution (G1:G3)	\$210,000	\$130,000	\$130,000	\$130,000	\$600,000	\$533,291
	Risk adjustment	↑10%					
Gtr	Total costs associated with Sage X3 solution (risk-adjusted up 10%)	\$231,000	\$143,000	\$143,000	\$143,000	\$660,000	\$586,620

Total Costs Associated with Sage X3 For Distribution

The internal labor associated with planning and deploying Sage X3 equates to one FTE across three staff members over six months. The average annual fully loaded cost of an FTE is \$100,000. Three FTEs spend about one-third of their time over six months (in aggregate) for planning and deployment of Sage X3 at a cost of \$50,000 as an initial investment period expense. Preplanning and deployment tasks included:

- Sharing documentation with Sage or Sage partners.
- Working with Sage or Sage partner professional services on requirements, configuration setups, data conversion, analysis and modeling, and training.
- Training employees to use Sage X3.

Sage X3 fees are \$358,948. Sage X3 fees include the following:

Sage or partner professional services. This includes software installation, post-installation support, configuration setup, data conversion, analysis and modeling, testing, and training.

Ongoing administrative labor for Sage X3 is \$124,343. This includes ongoing labor to operate and maintain the integration points with other systems and applications, along with help desk support and training new users.

Implementation costs will vary depending on:

- > Resource salary/costs.
- > The size and scope of implementation.

To account for these risks, Forrester adjusted this cost upward by 10%, yielding a three-year risk-adjusted total PV of \$586,620.

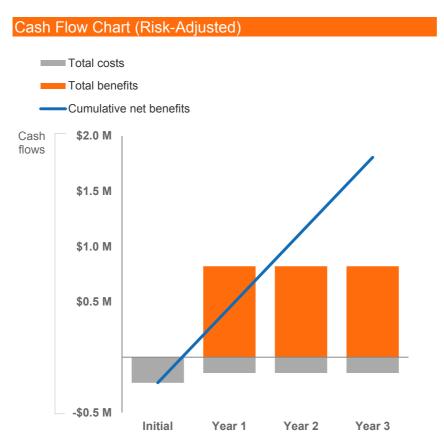
The table above shows the total of all costs across the areas listed below, as well as present values (PVs) discounted at 10%. Over three years, the composite organization expects risk-adjusted total costs to be a PV of \$586,620.

Implementation risk is the risk that a proposed investment may deviate from the original or expected requirements, resulting in higher costs than anticipated. The greater the uncertainty, the wider the potential range of outcomes for cost estimates.



Financial Summary

CONSOLIDATED THREE-YEAR RISK-ADJUSTED METRICS



The financial results calculated in the Benefits and Costs sections can be used to determine the ROI, NPV, and payback period for the composite organization's investment. Forrester assumes a yearly discount rate of 10% for this analysis.



These risk-adjusted ROI, NPV, and payback period values are determined by applying risk-adjustment factors to the unadjusted results in each Benefit and Cost section.

Cash Flow Table (Risk-Adjusted)							
	INITIAL	YEAR 1	YEAR 2	YEAR 3	TOTAL	PRESENT VALUE	
Total costs	(\$231,000)	(\$143,000)	(\$143,000)	(\$143,000)	(\$660,000)	(\$586,620)	
Total benefits	\$0	\$822,250	\$822,250	\$822,250	\$2,466,750	\$2,044,815	
Net benefits	(\$231,000)	\$679,250	\$679,250	\$679,250	\$1,806,750	\$1,458,195	
ROI						249%	
Payback period						<6	





Sage X3: Overview

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

Sage X3 helps business thrive and stay competitive in the face of growing complexity and competitive pressures. This complete business management solution transforms how organization manage operations, processes and people, enabling businesses to respond faster to changing customer demands.

Sage X3 is faster, more intuitive, and tailored than conventional ERP. Sage X3 is available through multiple deployment options including on-premises and cloud giving organizations flexibility to choose the service offering that works the best for their organization.

Thrive as a global business

Gain faster business insight

Tailor your experience

Intuitively manage operations

Generate industry leading ROI

Flexible deployment





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.

Present value (PV)

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.







About The Answer Co

The Answer Company is a leading supplier of business management software and technology consulting services. Since 1995, it has been helping businesses answer the difficult questions with regards to investments in technology and information systems. Working from offices across Canada, they serve national & international clients with a wide range of ERP solutions and numerous complimentary solutions that are powerful & flexible, and backed by industry expertise. The Answer Company's goal is to make businesses more successful at what they do and gain confidence to make profitable moves in their respective industries.

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To speak to one of our experts, contact:

1-866-670-6686

Head Office:

502-233 Nelson's Crescent, New Westminster, BC V3L 0E4 Offices also in Calgary, Winnipeg, Edmonton and Toronto











