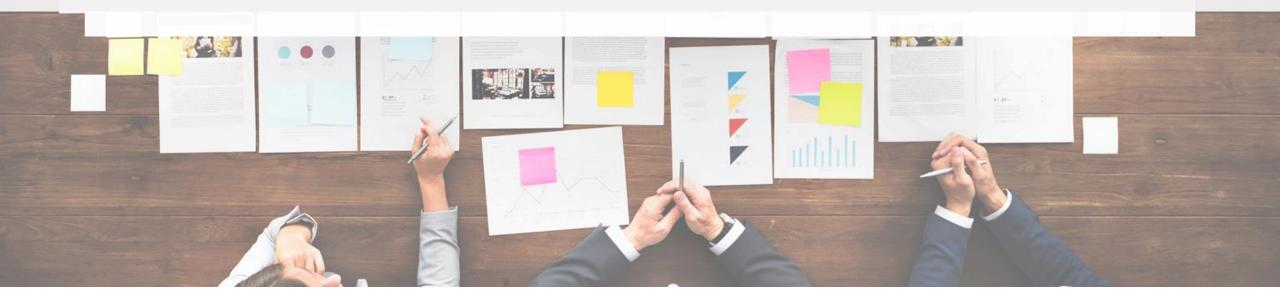


5 Key Strategies to Drive Business Process Improvement

Presented by Jeff Carr & Rich Sides







5 Key Strategies to Drive Business Process Improvement







Ultra Consultants

Helping organizations select the right technology, improve business performance, and manage their transformation



Founded in 1994



Clients Throughout North America



100% Vendor Independent



Focused on Manufacturing and Distribution



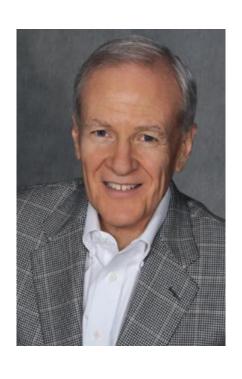
Over 300 Successful Projects





JEFF CARR

CHIEF EXECUTIVE OFFICER, ULTRA CONSULTANTS



- CEO and Founder
- Extensive industry experience: distribution and manufacturing
- Served over 1000 manufacturing and distribution companies
- Author of industry leading enterprise technology insights
- Founded Ultra in 1994

Jeff has over 40 YEARS OF EXPERIENCE in manufacturing and technology. He is a LEADING EXPERT ON ENTERPRISE TECHNOLOGY vendors and Enterprise Systems best practices.



RICHARD SIDES

CHIEF OPERATIONS OFFICER, ULTRA CONSULTANTS



- Operational, management consulting, ERP system implementation, senior executive roles
- Process, food & beverage and discrete manufacturing
- Developing IT strategies, designing production and inventory systems, implementing business process improvements

Rich has OVER 25 YEARS OF EXPERIENCE in manufacturing and technology industry as a SENIOR EXECUTIVE within manufacturing, management consulting, and the software industries.



Agenda

- "The How To" of Evaluating a Company
- Real World Examples
- What's Key to Consider During Acquisition?





THE "HOW TO" OF EVALUATING A COMPANY





EVALUATE THE BUSINESS PROCESSES

- Document a systems context diagram
- Build a current state maps
 - Level 0 value stream of processes
 - Level 1 integration
 - Level 2 map shows the integration points, waste and redundancies
- Identify opportunities for improvement
- Allow us to clearly see issues in an enterprise wide system





Current State Reviews

- Process Owners and Teams
- Process Review Workshops

Document Current State

- Level 0: Business Model & Value Streams
- Level 1: Business Process Inventory
- Level 2: Functional Process
 Flows

Current State Review & Documentation Scope

Sales/Customer Service	Quality	Purchasing/Sourcing	
Warehouse	Product Data Management	Logistics	
Supply Chain	Accounting	Order Fulfillment	
Production	Data, Forms, Reports	Inventory Management	
Finance/Accounting	Master Data Management	Manufacturing	
Quality Assurance	Picking/Packing	Scheduling	



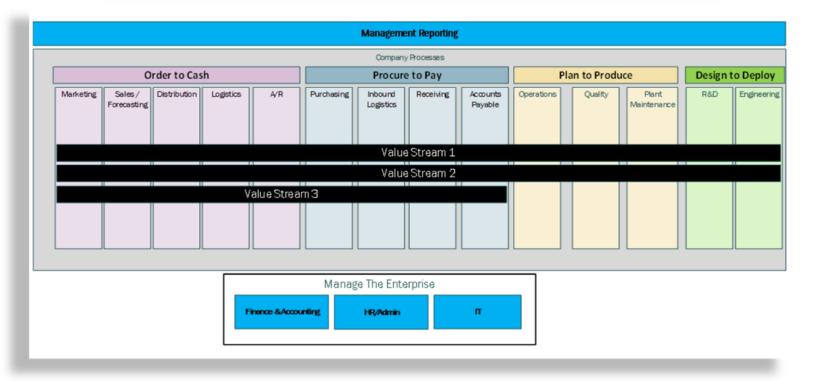
Current State Reviews

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Document Current State

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- Level 1: Business Process Inventory
- Level 2: Functional Process
 Flows

Sample Level 0





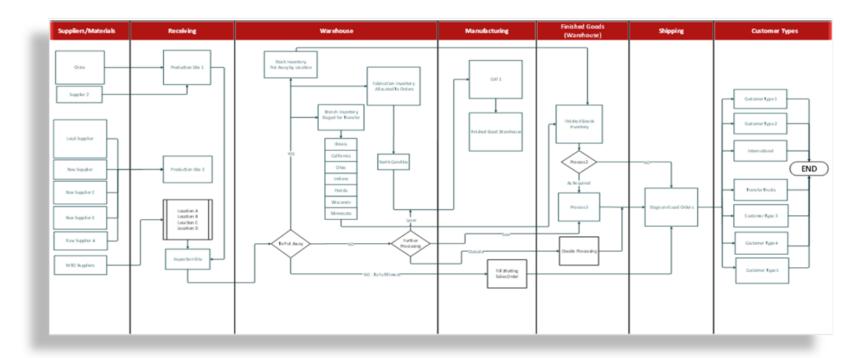
Current State Reviews

- Process Owners and Teams
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Document Current State

- Level 0: Business Model & Value Streams
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- Level 2: Functional Process
 Flows

Supply Chain Map





Current State Reviews

- Process Owners and Teams
- Process Review Workshops

Document Current State

- Level 0: Business Model & Value Streams
- Level 1: Business Process Inventory
- Level 2: Functional Process
 Flows

Business Process Inventory Sample

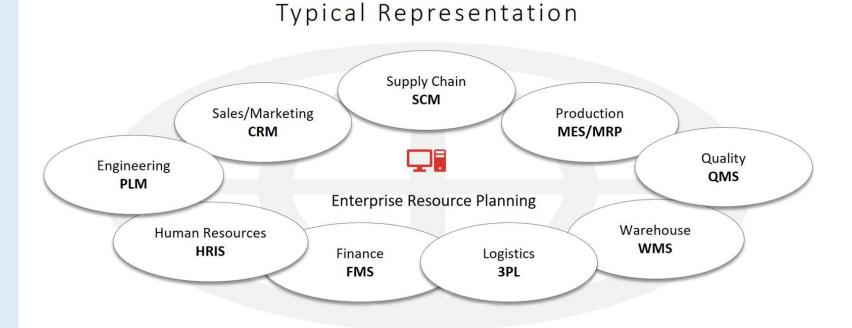
Business Flow	Process Name	Sub-Process / ACompanyvity Name	Task Description	Business FunCompanyon (level 0)	Systems
Design to Deploy		Scenarios			
Design to Deploy	Master Data Management	Create Product Codes	19	Varies	wint
Design to Deploy	Master Data Management	Manage Product Code FG/RM	FG Prod Codes are Customer specific	Varies	wint
Design to Deploy	PLM and Change Management	FG	Approvals for FG and RM, but diff. process	1.4.100	Manual
Design to Deploy	PLM and Change Management	RM	Approvals for FG and RM, but diff. process		Manual
Design to Deploy	PLM and Change Management	Enter/Manage BOM	reproved for the and thing part and process	Varies	wint, GS
Design to Deploy	PLM and Change Management	Maintain Master Print Log	varies by branch	Quality	Excel
Design to Deploy	PLM and Change Management	Change Orders	no formal ECO system	Engineering	GS
Design to Deploy	Product Design and Engineering	Create Internal Labor Quote		Engineering	Excel
Design to Deploy	Product Design and Engineering	Design New Product		Engineering	SolidWorks,
Design to Deploy	Product Design and Engineering	Requirements	packaging requirements, finished part	Engineering	wint
Design to Deploy	Product Design and Engineering	process Requirements	Company dictates machine	Varies	wint, GS
Design to Deploy	Product Design and Engineering	Create CAD Design	annually and an annual and an annual and an annual and an	Engineering	SolidWorks.
Design to Deploy	Product Design and Engineering	Design/Decide Quality Plan	cost center may do more quality checks than	Quality	Manual
Design to Deploy	Product Design and Engineering	Design Tooling/Fixture	for produCompanyon, go no go gages, check	Engineering	SolidWorks.
Design to Deploy	Product Design and Engineering	Obtain welder certifications	welder certifications	Quality	Manual
Design to Deploy	ProduCompanyon Release & Support	Engineering Support		Engineering	Manual
Design to Deploy	ProduCompanyon Release & Support	Approval		Varies	Manual
Design to Deploy	ProduCompanyon Release & Support	Launch New Product	Releaase/Handoff design/process to	Varies	Excel
Opportunity to Cash	Master Data Management	Manage Customer Master	managed by Credit / special	Customer Support	wintegrate
Opportunity to Cash	Master Data Management	Manage Customer to Product	Assignment of customer part numbers linked	Customer Support	wintegrate
Opportunity to Cash	Master Data Management	Manage Value Added Services	separate line item added to each order for	Sales	wintegrate
Opportunity to Cash	Master Data Management	Manage Customer Pricing	upload customer contract pricing , we also	Sales	wintegrate
Opportunity to Cash	Master Data Management	Manage Sales Regions	Assignment of accountabilitites	Sales	Wintegrate
Opportunity to Cash	Master Data Management	Manage Sales Order Types	is this reports - open order report - late order	Customer Support	Wintegrate
Opportunity to Cash	Master Data Management	Manage Salesforce	Maintained by IT with Branch support	IT	wintegrate
Opportunity to Cash	Billing and Cash Management	Startup & Support - New	Includes quoting set-up, credit terms, branch	Finance	wintegrate
Opportunity to Cash	Billing and Cash Management	Invoice & Revenue Recognition	Except Company Power invoicing happens at	Finance	wintegrate
Opportunity to Cash	Billing and Cash Management	Manage Credit Memos &	Credit memo's by Branches, Tax and	Finance	wintegrate
Opportunity to Cash	Billing and Cash Management	Manage Contracts and	Supply informally managed via emails, pricing	Sales	manual
Opportunity to Cash	Opportunity Generation	On-line Presence, Social Media	Pricing not always correct, minimal use for	Sales	multiple
Opportunity to Cash	Opportunity Generation	Sales Support Materials General	Not formally managed/line cards, sales book,	Sales	manual
Opportunity to Cash	Opportunity Generation	Promotional Materials,	Minimal use of campaigns	Sales	manual
Opportunity to Cash	Opportunity Generation	Targeted Marketing and	Not formal but is used at times	Sales	manual
Opportunity to Cash	Opportunity Generation	Lead Management	Not rigorous - some use	Sales	EZSelect



More than "transactional efficiency"

Typical Operational Improvement Areas

- Inventory
- Planning
- Scheduling
- Forecasting



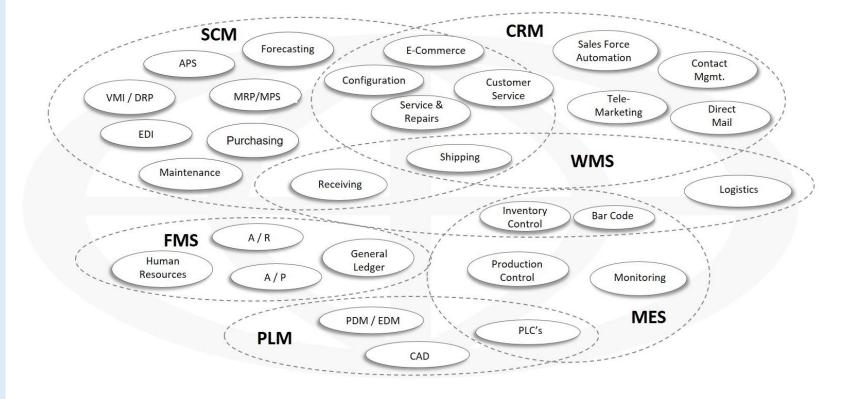


More than "transactional efficiency"

Typical Operational Improvement Areas

- Inventory
- Planning
- Scheduling
- Forecasting

REALISTIC REPRESENTATION





Business Process Maturity

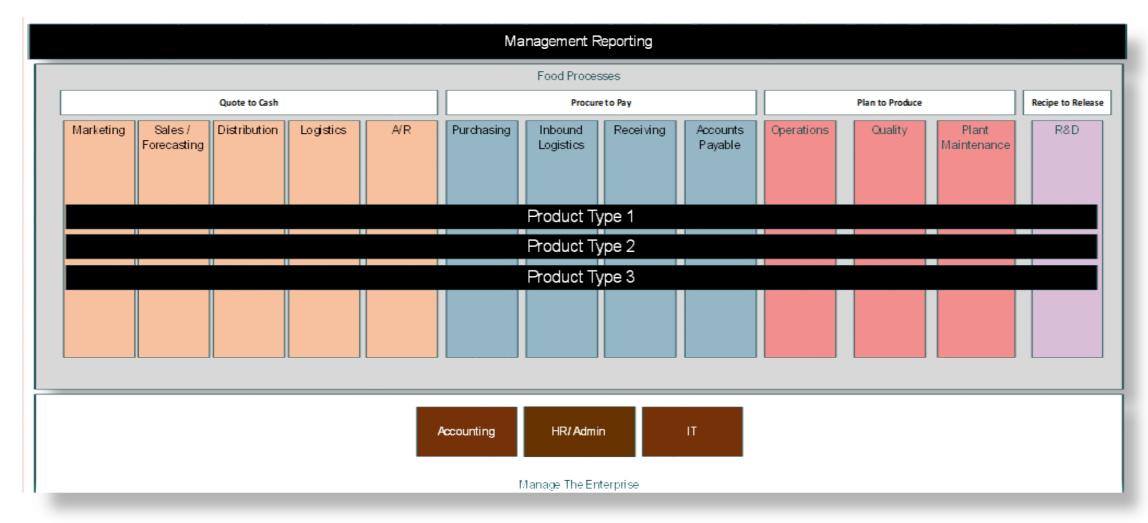
Why analyze your current state?

- Understand the issues and opportunities
- Address needs for change
- Inventory all processes and data
- Compare to best practices
- Assess business process maturity



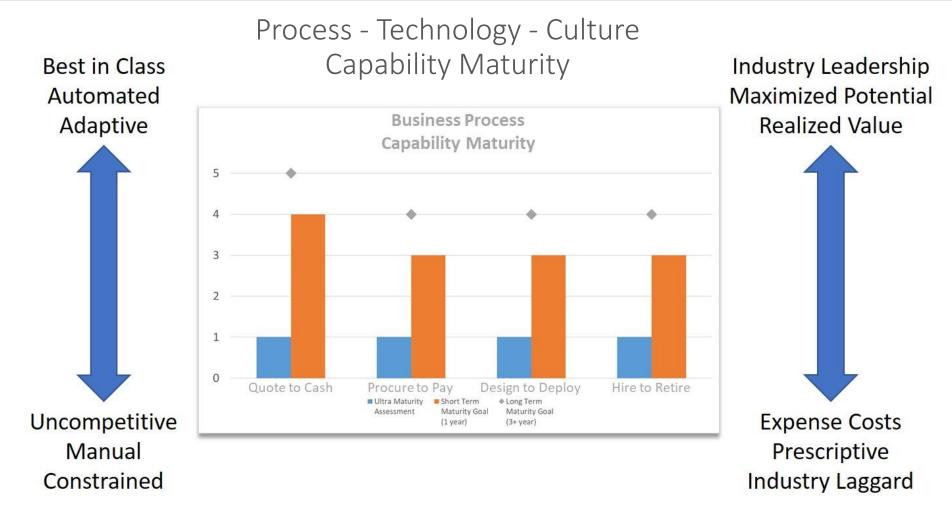


Business Process Management





EVALUATE BUSINESS PROCESS MATURITY





CAPABILITY MATURITY DEFINITION SUMMARY



Focus: Competitive advantage through best practice innovation



LEVEL 4

Focus: Self-service dashboards & analytics, exception management



LEVEL 3

Focus: Integrated processes, performance metrics, data driven decisions



LEVEL 2

Focus: Functional process orientation, data driven decisions, quality by inspection

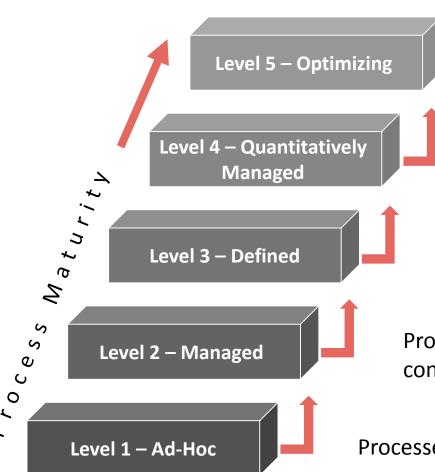


LEVEL 1

Focus: Tribal Knowledge, gut-feel decisions, hierarchical



Process Capability Maturity Model (CMMI)



Process performance continually improved through incremental and innovative technological improvements.

Processes are controlled using statistical and other quantitative techniques.

Processes are well characterized and understood. Processes, standards, procedures, tools, etc. are defined at the organizational level. Proactive.

Processes are planned, documented, performed, monitored, and controlled at the individual process level.

Processes are unpredictable, poorly controlled, reactive.



LOOKING DEEPER

- Manufacturer of truck accessories to OEM, aftermarket
- Best in Class vs. Current State Gap Identification

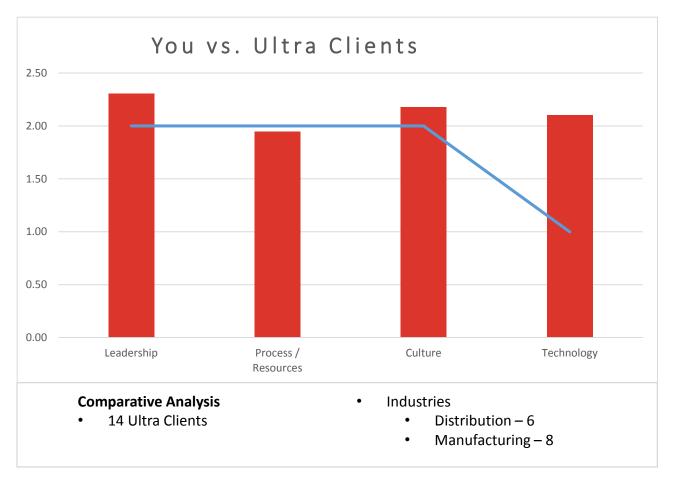


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How do you stack up at the starting gate?





Summary

- You are in good shape at starting line
- Pro-active discussion & planning at forefront
- Open minded to change; engaged in alternative thinking & approaches



Leadership — Assessment Summary





Ultra Assessment – Level 2

- Leadership team is actively engaged & supports project efforts & requirements
- Demonstrated support of the project company wide
- Lack of ownership enabling "cultural hangover" of previous leadership practices (Level 1)
- Lack of executive presence

Goal Requirements – Level 3

- Continually engage team at all levels embody your company
- Continue down the path of building out strong leadership team
- Prepare to own and lead Company through implementation



Leadership — Critical Success Factors (CSF's)



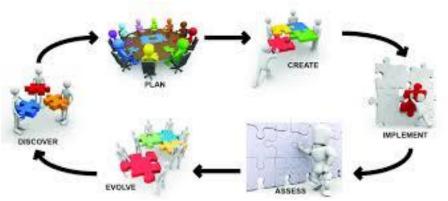






Process/Resources — Assessment Summary





Ultra Assessment – Level 2

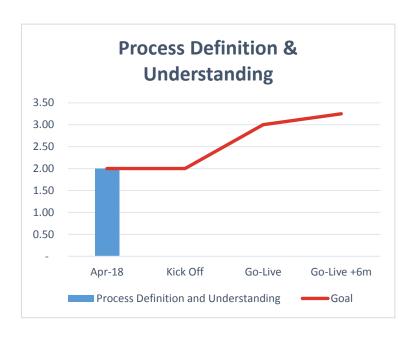
- Processes are documented but remain siloed across company
- Current state processes are well understood within each function
- Process management based on output and expectations
- KPIs are not fully defined with inconsistent application across processes

Goal Requirements – Level 3

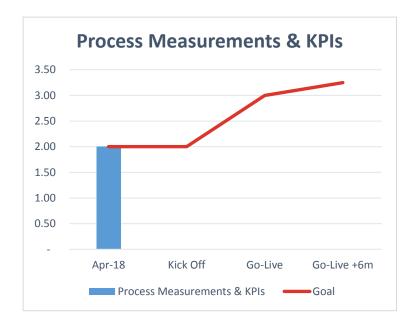
- Through the implementation project company will define and document processes at a detailed level
- KPIs should be defined against new processes with tools (reports/dashboard/alerts/workflow) enabled to monitor KPI value to target



Process – Critical Success Factors (CSF's)



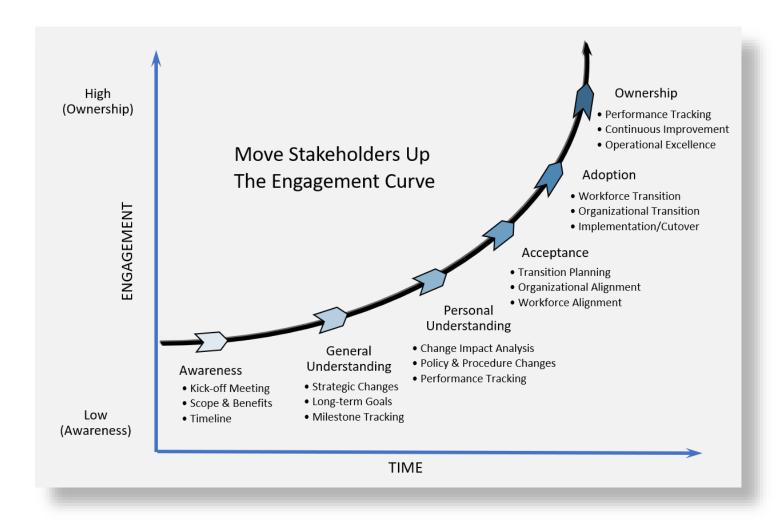






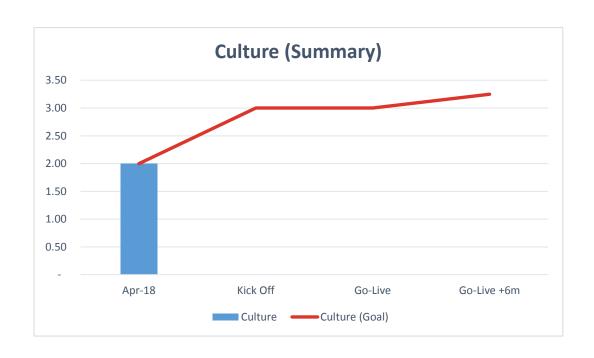
Assess Stakeholders

- ✓ Culture
- ✓ Management
- ✓ History of Change





Culture — Assessment Summary





Current Assessment – Level 2

- Lack of experience with change of this magnitude
- Historically implementation have been rocky, lack of organizational confidence
- Lack of robust communication model to support change of this magnitude
- Acknowledgment of need for OCM activity
- Organization is excited about the project

Goal Requirements – Level 3

- On-going communication plan needs developed capable of delivering clear, concise and consistent project communication company wide
- BPO's (business process owners) should be able to articulate their expectations of their role on the project
- A culture of accountability & cross-functional collaboration should continue to be promoted



Culture – Critical Success Factors (CSF's)









ASSESS IT ENVIRONMENT

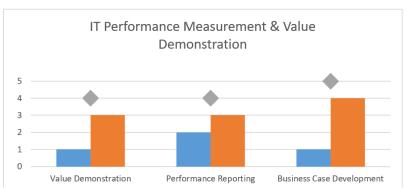
Technology assessment

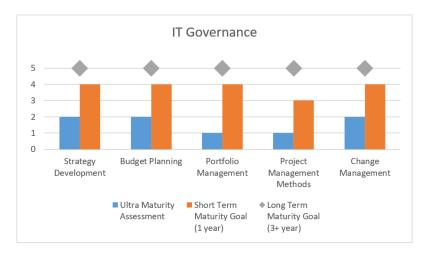
Interfaces, integration

✓ ITIL IT Processes

- Disaster recovery, business requirements, buy in PMO, launch, change, support
- Assess team resources, IT team



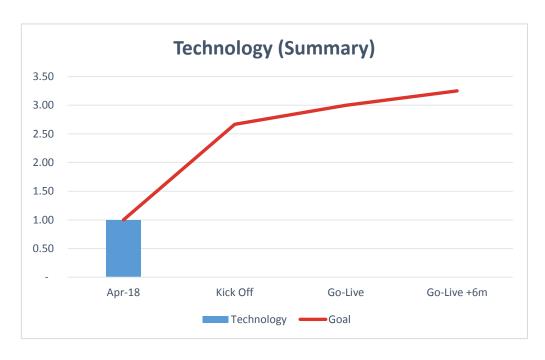


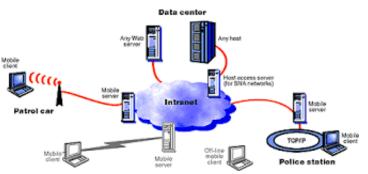






TECHNOLOGY — ASSESSMENT SUMMARY





Current Assessment – Level 1

- IT orientated to "keeping the lights on" reactive development & issue resolution
- IT resources are managed re-actively, adding expertise & solving problems after the fact
- Lack of engagement with ERP project

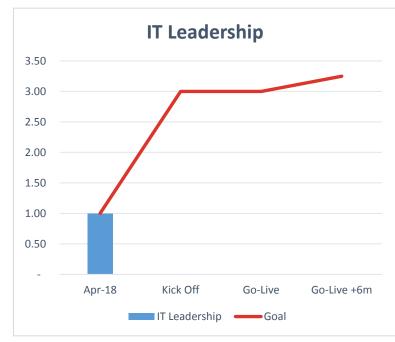
Goal Requirements – Level 3

- Hire an IT executive that can build an IT Center of Excellence organization, lead ERP, and support the business post go-live
- Shift IT focus to providing optimized value to the business through enablement of business strategy, efficiency, & controls
- IT staff model is pro-actively developed based on future state support needs/requirements



TECHNOLOGY — CRITICAL SUCCESS FACTORS (CSF's)









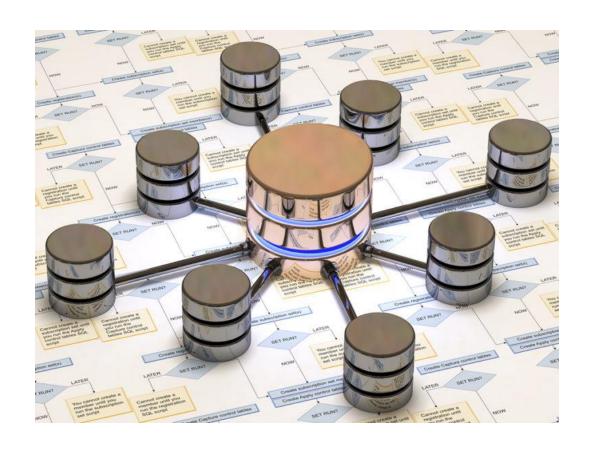
Assess Master Data

Disparate Item Masters

- 3 sets systems
- 3 sets master data
- Multiple vendors

Improvement Opportunity Areas

- State of vendor lists, item lists, customer lists
- Cost savings potential





REAL WORLD EXAMPLES





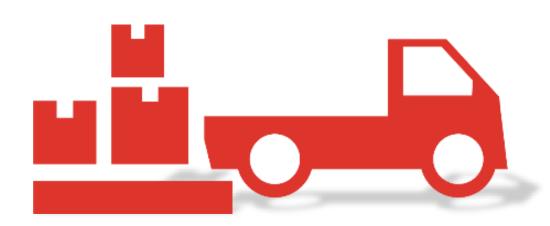
Merger - Heavy Duty Vehicle Repair

Company Background

- Industry leader in manufacturing and distribution with a full line of waste handling equipment
- Provides repair, maintenance and installation services to its hauler customers on refuse trucks, roll-off hoists, street sweepers and compactors.

Project Drivers

- Disparate systems
- Growth targets
- Optimize processes
- Manage multiple locations





Merger - Heavy Duty Vehicle Repair

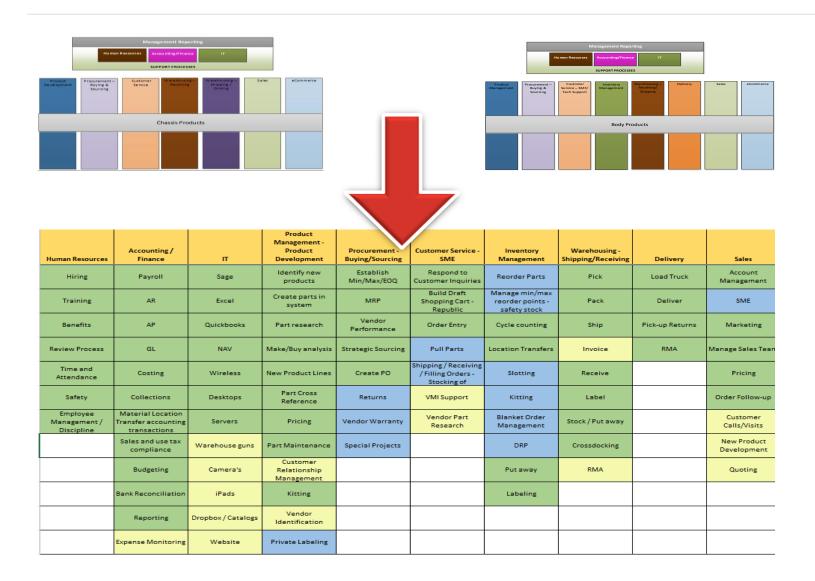
Valuation that comes from rationalization of processes, systems and master data

Business Process Improvement

- Current State analysis
- Alignment of Resources/Organizational Commitment
- Established Project Charter
- Definition of future state systems and processes
- Selection and implementation of core ERP that can support company growth



Merger - Heavy Duty Vehicle Repair



Live in 5 Months!

- Divergent Cultures
- ✓ Common procurement
- ✓ Consolidated masterfiles
- Improved customer responsiveness



Merger - Heavy Duty Vehicle Repair

Value Realization

- ✓ Working to the future state
- Dashboards and leading indicators
- ✓ Reduce manual effort
- ✓ Improved IT process
- ✓ Vendor management

- ✓ Defined "key areas of competency"
- ✓ Reduced time to benefit
- ✓ Project and risk management
- Established Process Improvement Team



Joint Venture - Electronics Manufacturer

Company Background

Company is a leading manufacturer of electronic components to measure critical temperature, humidity, pressure, and voltage data.

Project Drivers

- Support growth
- Integrate IT systems
- Reduce manual handling, paper
- Integrate USA, global operations
- Improve business processes





Joint Venture - Electronics Manufacturer

Value Realization

- Define Current
- Align Resources
 - Steering/Governance Committee
 - Core Team ProcessOwners
 - Process Improvement Teams
- Set Project Charter
- Defined Future State
- Selection , implementation of core FRP that
- Implementation Primary Project
 Management / Resource

BENEFIT OPPORTUNITIES:	Conservative Effort	Your Goals	High Achievement	
Inventory Reduction:	15.0%	12.0%	30.0%	
Purchased Costs Reduction:	2.0%	1.0%	8.0%	
Ops. Productivity Increase:	10.0%	0.0%	30.0%	
Sales Increase from Better On-tin	ne			
Delivery & Reduced Returns:	5.0%	1.0%	10.0%	
Days Reduction in A/R * from				
Integrating Shipping & Invoicing:	2	0	10	

^{*} If Shipping is not integrated with Invoicing, the time lag between these events equates to carrying that many additional days of Accounts Receivable.



Joint Venture - Electronics Manufacturer

PROJECTED CASH FLOW

			Conservative	Your	High
			Effort	Goals	Achievemen
		osts do not inc	lude computer hardware a		
(Y0 Payout)	Implementation Costs:		(\$20,000)	(\$20,000)	(\$20,00
	First Year Benefits:		\$222,545	\$33,815	\$537,57
	50% of Inv. Reduction:		\$159,386	\$127,509	\$318,77
	A/R Reduction:		\$88,710	<u></u> \$0	\$443,55
(Y1Benefit)		Subtotal:	\$470,641	\$161,323	\$1,299,90
	Net Cash Flow Year 1:		\$450,641	\$141,323	\$1,279,90
	YEAR 2:	Ongoing cos	ts no longer include comp	uter hardware amortization.	
(Y1Payout)	Ongoing Costs:		\$0	\$0	\$
	Annual Benefits:		\$445,089	\$67,630	\$1,075,15
	50% of Inv. Reduction:		\$159,386	\$127,509	\$318,77
(Y2 Benefit)		Subtotal:	\$604,475	\$195,138	\$1,393,92
	Net Cash Flow Year 2:		\$604,475	\$195,138	\$1,393,92
	Cumulative Cash Flow:		\$1,055,115	\$336,461	\$2,673,83
	YEAR 3:	Ongoing cos	ts no longer include comp	uter hardware amortization.	
(Y2 Payout)	Ongoing Costs:		\$0	\$0	\$
(Y3 Benefit)	Annual Benefits:		\$445,089	\$67,630	\$1,075,15
	Net Cash Flow Year 3:		\$445,089	\$67,630	\$1,075,158
	Cumulative Cash Flow:		\$1,500,205	\$404,091	\$3,748,989
	YEAR 4:	Ongoing cos	ts no longer include comp	uter hardware amortization.	
(Y3 Payout)	Ongoing Costs:		\$0	\$0	\$0
(Y4 Benefit)	Annual Benefits:		\$445,089	\$67,630	\$1,075,15
	Net Cash Flow Year 4:		\$445,089	\$67,630	\$1,075,15
	Cumulative Cash Flow:		\$1,945,294	\$471,721	\$4,824,14
	YEAR 5:	Ongoing cos	ts no longer include comp	uter hardware amortization.	
(Y4 Payout)	Ongoing Costs:		\$0	\$0	\$(
(Y5 Benefit)	Annual Benefits:		\$445,089	\$67,630	\$1,075,15
	Net Cash Flow Year 5:		\$445,089	\$67,630	\$1,075,15
	Cumulative Cash Flow:		\$2,390,383	\$539,350	\$5,899,30
	5 yr. Tota	ls:	\$2,390,383	\$539,350	\$5,899,30

Key Improvement Metrics:

- ✓ Reduced Shipment process time by 35%.
- ✓ Shipment Accuracy increased by 25%
- ✓ Reduced Finished Good On Hand inventory by 10%
- ✓ Increased Inventory accuracy to 98.5% across all locations (was very low)



ACQUISITION - FOOD PROCESSOR

Company Background

Company is a snack food processor of national and private label brands

Project Drivers

- ERP Project Recovery
- Legacy system lacked ordering functionality





Acquisition - Food Processor

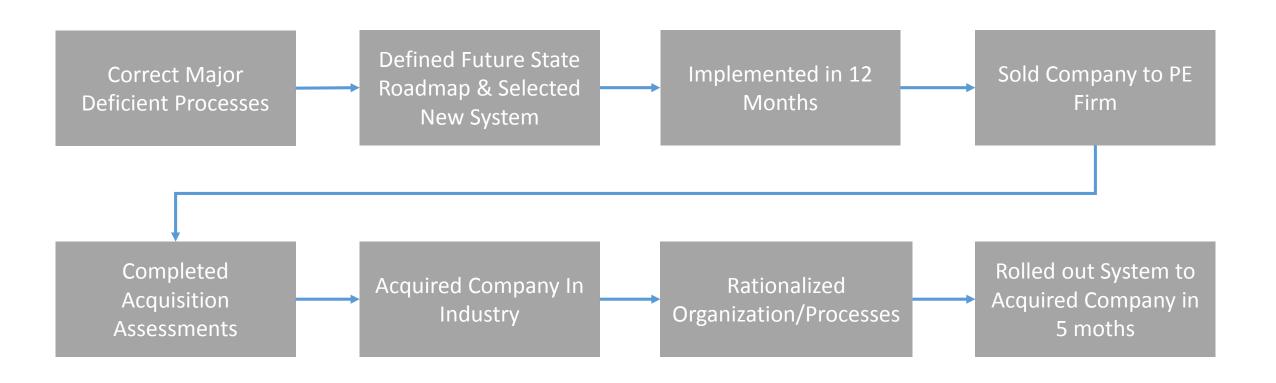
Business Process Improvement

- Current State operational processes from front to back
- Alignment of Resources/Organizational Commitment
 - Steering/Governance Committee
 - Core Team Process Owners
 - Process Improvement Teams
- Ensured Business Overview
 - Strategy Review
 - SWOT / Scorecard Review
 - S&OP Review
- Established Project Charter
- Definition of future state systems and processes
- Selection and implementation of core ERP that can support company growth



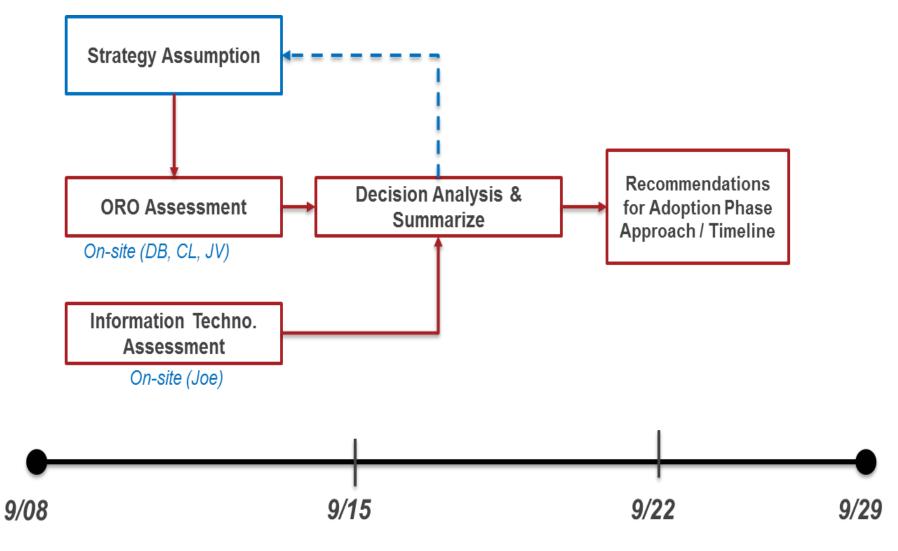


ACQUISITION - FOOD PROCESSOR





PROJECT ASSESSMENT



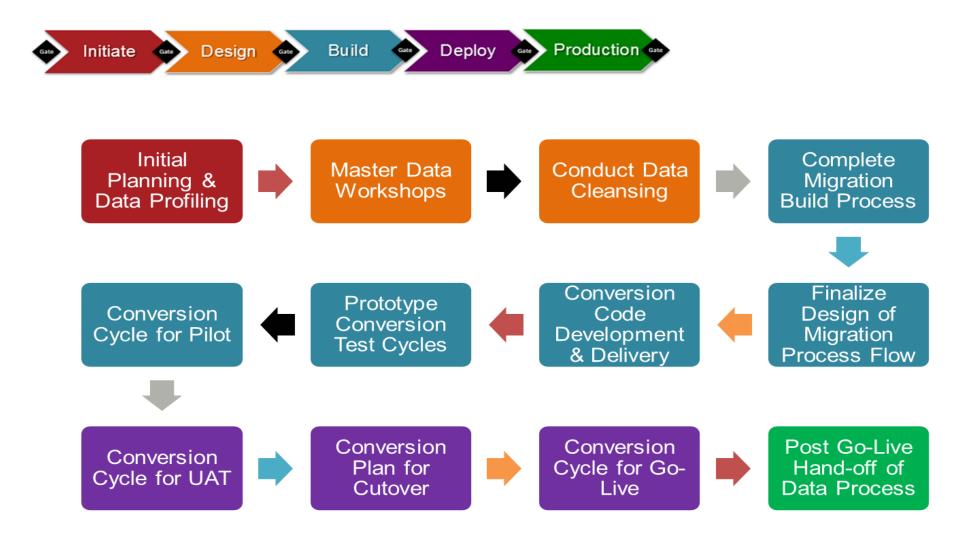


PROJECT ASSESSMENT

LEVEL 1 PROCESS INVENTORY ADOPTION ASSESSMENT - PROJECT ORO							
Sales & Order Entry & Cusomter Service	Supply Chain: Planning & Purchasing	Supply Chain: Warehousing	Supply Chain: Scheduling & Logistics	Pellet & Component Production	Finished Goods Production	Quality Assurance & R&D	Finance / Accounting
Process name	Process name	Process name	Process name	Process name	Process name	Process name	Process name
Initiate Credit Checks	Vendor Master Setup	Receiving - Meat -Nonmeat	Schedule Transfer Orders Using MPS	Create BOMS and Routings	Create BOMS and Routings	Consumer Complaints- Incident Tracking	AR / Invoicing
M anage Sales Pricing	Item Set-up (Raw, WIP, FG)	Warehouse/Bin Put away movement	Freight Consolidation	Create Work centers	Create Production Order Paperwork	Change the item based on QA attributes- Item Grading	AP & Processing Payments
Commissions	Skin Purchasing via a broker	Lot Tracking	Sequencing of shop floor schedule (flavors and allergens)	Issue Skins to Production Orders	Record Raw material and Lot controlled Ingredients	QA Inspection for Inbound Packaging	Payroll
Sales Credit Memos	MRP driven buying for Production Materials	Inbound Inspection for packaging and Seasoning	All Natural FG Production Scheduling	Record Output of Oil	Record Batch/FG Item Output & generate expiration date	QA Inspection for Inbound Seasoning	Financial Reporting
Rebates	Blanket Orders with multiple releases for Packaging material	Production Staging inventory movement	Scheduing Produciton Orders	Shop Floor Reporting / Production Recording	Record Packaging Consumption- Backflush	New Item Development	Budgeting
Promotions	MRO Purchase Orders	Production Returns	Capacity Planning	Create Production Orders to Package Oil and Record Output	Calculate Yield		Credit Management
Inbound Customer Calls & Complaints	Vendor Managed Inventory	Picking & Staging - Sales orders to customers	Transfer Order sourcing rules	CalculateYield	Production Metircs		Vendor Set-up
Returns	Vendor Returns	Cycle Counts & Adjustments		Pellets for International Customers	Full Bin Consumption for everything besides boxes		Commissions
EDI Order Release	Manually Schedule Pellet Production	Aging Inventory Review		Full Bin Consumption for items other than Skins	Pickeling Item Production		Sales Forecasting
Set-up EDI	Purchasing of FG items for Resale	Picking & Staging for Intercompany Transfer Orders		Blending of Seasoning from Raw Ingredients	Co-Packer Finished Good Item Processing		Costing
New Order Entry		Managing Parts as Inventory Items			Field Trip Jerkey FG Production		Month End Processing
Customer Setups		Triggering EDI ASN documents upon shipment					Manage CC transactions
Customer Delivery Metrics		Triggering Invoices for outbound shipments					Fixed Asset Management
DSD Order Entry							Consolidations
DSD Price Floors							Manage foreign currency

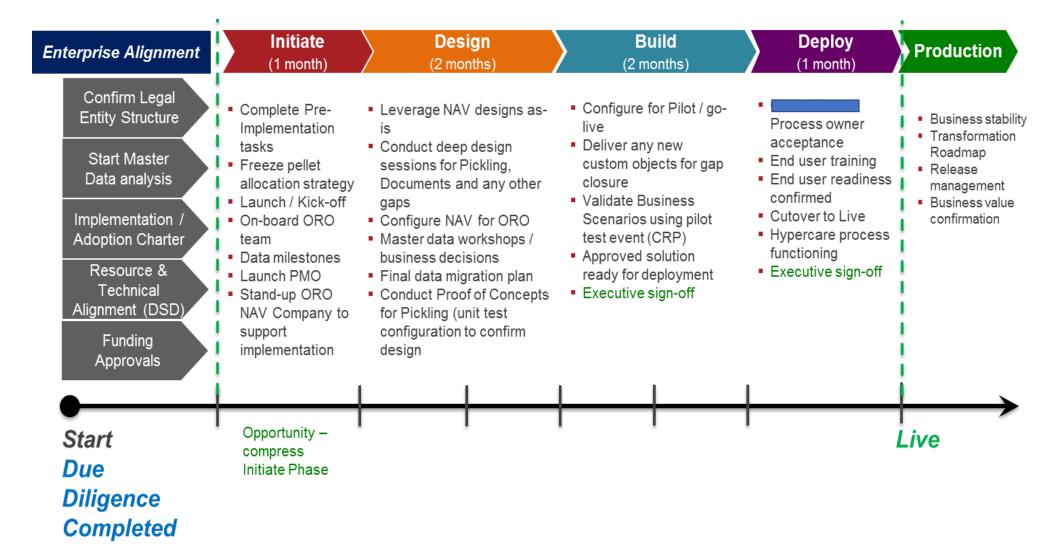


PROJECT INTEGRATION





PROJECT INTEGRATION





WHAT'S KEY TO CONSIDER DURING ACQUISITION?





FIVE KEY TAKEAWAYS

- 1. Evaluating a potential acquisition
- 2. Improving the performance of your existing portfolio
- 3. Preparing a company for sale
- 4. Improving business performance by improving business processes
- 5. How to benchmark your company's business process maturity



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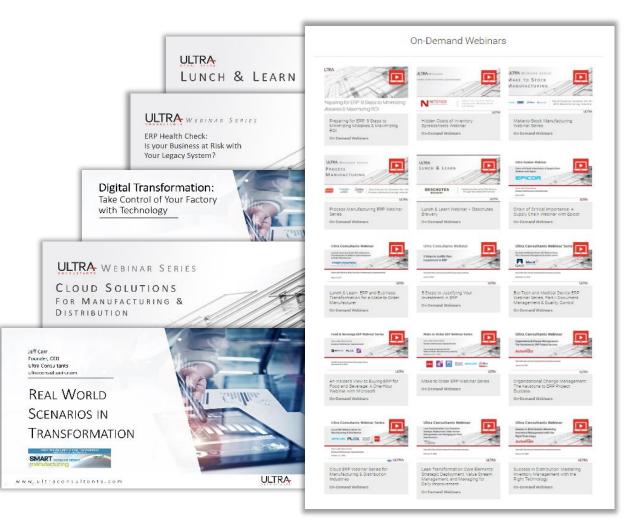
White Papers

Surveys & Vendor Reports



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- Case Studies
- Webinars & Vendor Demos



- White Papers
- Surveys & Vendor Reports



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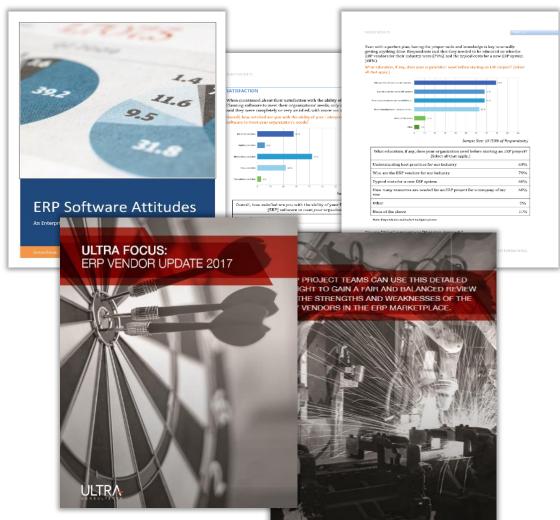


- White Papers
- Surveys & Vendor Reports



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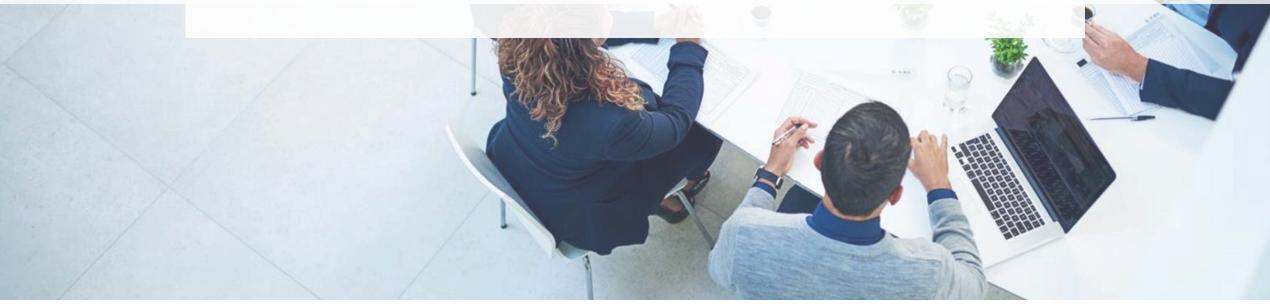
- Case Studies
- Webinars & Vendor Demos



- White Papers
- Surveys & Vendor Reports









REALIZING VALUE THROUGH ERP

5 Key Strategies to Drive Business Process Improvement

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