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Executive Overview

“The Enterprise Performance Management revolution has begun, and the goal of EPM today is to extend Operational Excellence to Management Excellence,” says John Kopcke, Senior Vice President of Business Intelligence and Performance Management.

What if you could have timely, accurate, and relevant intelligence with which to plan and control your entire organization? What if you could have the most important metrics to measure the performance of the organization at your fingertips? What if all of your management systems could work together to provide what you need, when you need it?

Enterprise Performance Management (EPM) provides the answers to these questions and enables you to achieve not only Operational Excellence, but more importantly, Management Excellence.

This guide introduces concepts to help you understand EPM and the Management Excellence Framework, and leads you through considerations for applying them in your organization. These considerations include:

- Evaluating your needs
- Selecting components of your EPM System
- Implementing with best practices
- Creating a center of excellence
- Learning from other customers via case studies

You will find this reference helpful whether you are just starting your EPM and Management Excellence journey, or are seeking ideas to improve your current efforts.

For the purposes of this guide, an organization is defined as: companies, groups, nonprofit organizations, non-governmental organizations, governments and administrations, corporations, and associations. EPM applies to any “organization.”
What Is an Enterprise Performance Management System?

What is Enterprise Performance Management?

Why Do I Need It Now?

The world of business has changed and continues to do so rapidly. Market dynamics today have immediate impact on a global scale, with markets showing high volatility almost across all sectors. Organizations today are faced with higher degrees of uncertainty, forcing them to revisit management practices, and to develop superior capabilities to manage the current performance and long term sustainability of their business. Stakeholders and regulators are placing greater demands for transparency and accountability on these organizations. These new demands are added to the traditional risks faced by organizations—globalization, deregulation, technology advancements, and commoditization. Add to this the complexities of sourcing, inter-company collaboration, and trying to improve management processes to become lean. Data is also becoming increasingly more complex and voluminous to store and analyze. As a result, executives are facing more pressure to ensure that information about their operations is correct and consistent. They must have confidence in their processes and, ultimately, in the results that they are reporting.

Organizations now must scrutinize how they manage the performance of their businesses. Performance management is often defined as a combination of management methodologies, key metrics and IT applications (including tools and infrastructure) that enable employees to define the information they need, monitor it, and then work to optimize results and outcomes to achieve personal or departmental objectives. Performance management should also include aligning the organization with strategic objectives across multiple organizational levels (personal, process, group, departmental, corporate, or business. But EPM provides even more.

What is EPM?

Enterprise Performance Management (EPM) is an emerging management discipline that focuses on supporting integrated management processes on a strategic, financial and operational level enabling organizations to invest in management excellence.

These management processes include strategic ones, such as gain-to-sustain, investigate-to-invest, and design-to-decide, as well as tactical and operational management processes, such as plan-to-
act, analyze-to-adjust and record-to-report. EPM creates a competitive advantage for those organizations that adopt it by enabling them to reach a state of, what we call, “management excellence”; anticipating and responding to changing business conditions faster and with more insight than their peers, improving their strategic agility to act on those insights, and improving alignment and collaboration between individual business units and external stakeholders.

EPM must help connect all the performance management processes enterprise-wide. It is no longer acceptable solely to connect the processes within an organization, because value chains often cross organizational borders and involve multiple stakeholders.

Benefits of Enterprise Performance Management

Businesses that adopt EPM can improve their competitiveness and efficiency as well as reduce their business risk and the variability of future results. Organizations also may improve their strategic alignment, agility, and collaboration between individual business units, thereby moving the power of information from a select, chosen few, to all those who can use it productively. Stakeholder alignment, governance, being better prepared for changes, and being better able to run and manage your business are also benefits of EPM.

EPM creates a competitive advantage for those organizations that adopt it by enabling them to anticipate and respond to changing business conditions faster than their peers. An increasing number of industries are subject to globalization, deregulation, re-regulation, new technologies, and e-commerce. The capabilities of EPM can make the difference between an organization's growth or decline, profitability or loss, survival or extinction.

EPM provides this benefit by:

- Pervading all aspects of decision-making and enterprise management process at all levels of the organization
- Creating a collaborative, real-time management environment in which managers, staff, partners, customers, and suppliers can interact regardless of their position in the supply chain
- Delivering targeted best practices and methodologies into the hands of business users where they can be most effectively employed
- Being continually shaped and revised by the business users as their priorities and needs change
• Providing a standard defined repeatable process around the management of financial data, ensuring accuracy, believability, relevancy, and timeliness

• Enabling all parts of the business to focus on the same corporate goals and understand how their choices, when combined with those of other business units, will improve the achievement of those goals

• Empowering users with the simulation, calculation, and visualization tools that will enable them to improve their performance ability

• Providing better communication functions to encourage collaboration and networking among teams

• Eliminating many tedious tasks so that employees can devote more time to high-value tasks

• Global compliance

An organization that adopts EPM ultimately will expect improvements in its financial performance. This is reflected in a variety of financial ratios, including return on assets (reflecting relative competitiveness), profit margin (relative efficiency), and price-to-earnings ratio (relative risk). Improvements in these financial indicators are signs of increased firm profitability, leading to a higher business valuation and higher rewards for the contributing business managers.
What is An Enterprise Performance Management System?

Just as Enterprise Resource Planning (ERP) systems affected the way that organizations conducted and tracked day-to-day business activity, Enterprise Performance Management Systems are streamlining the way that organizations are being directed and managed.

An EPM system supports the complete management process enabling a team of business users, who participate in a business activity, to work collaboratively on shared information, rules, and logic regardless of the specific task they are undertaking at any time.

EPM systems should provide a simple way for organizations to support all components of the management process. For example, before EPM systems, it was not uncommon for a user to move back and forth between a budgeting application and a sales forecasting application to complete a “planning update” task. With an EPM system, when users move from one management “task” to another, they remain in the same system. And it should be easy to share data between the tasks. For this to be effective, the following factors must be in place:

Benefits of EPM…

- Better collaboration and communication
- Stakeholder alignment
- Governance and compliance
- Better preparation for changes
- Better business management
- Connected business processes
- Business process framework
- Better accountability and visibility
- Timely information upon which to base critical decisions
- Increased organizational flexibility (mergers and acquisitions, organizational changes)
- Reduced risk
- Ability to leverage Enterprise Resource Planning/Customer Resource Management
- Increased return on investment
- Decreased total cost of ownership
- Better efficiency and adaptability
- Standardization of management processes
- Strategic, competitive advantage
- Increased predictability
• Business users must have access to EPM applications specific to their needs and which are not generic management applications. They should be able to draw on domain knowledge and best practices from subject matter experts (internal or external to the organization).

• Business users sharing an EPM application should be able to continually refine the application to meet their needs. If this is not the case, then business users will revert to their spreadsheets (or worse). As noted in the Best Practices section of this guide, organizations must make the EPM system as user friendly as possible to encourage adoption of the system.

• It must be possible to link individual EPM applications, representing individual business activities, into a network of applications that covers the entire enterprise. This network eventually could extend beyond the organization to cover customers, suppliers, and partners in an extended supply-chain model.

• It must be possible to manage data and data processes seamlessly in one system. This should include automating data refreshes, data transfer, ensuring data quality, integrity, and security/control.

EPM system deployment should be incremental, driven by business users, and focused on current business priorities, rather than as a monolithic, all-at-once enterprise application project. Otherwise, implementing an EPM system becomes an inhibiting factor in meeting its own goals of agility.

Implementing an EPM system enables organizations to:

• Make aligned decisions across an enterprise based on insights derived from one version of the truth

• Continuously reduce the latency between the occurrence of a business event and the realignment, communication, and execution of strategy and plans

• Create transparency and visibility across the enterprise

• Connect people, processes, and other systems in an optimal manner in order to become a performance-driven enterprise

• Minimize the “total cost of ownership” of my Enterprise Performance Management solutions
• Be scalable in terms of data, users, and applications for future growth, including function and industry-specific reporting and analysis as well as forward-looking modeling, forecasting and performance management on a common BI foundation.

Enterprise Performance Management is an accepted discipline that enables organizations to improve their competitiveness and efficiency, reduce business risk, achieve strategic alignment, improve agility, and improve collaboration between business units. An Enterprise Performance Management System is a comprehensive set of enterprise applications and technology that support the adoption of the EPM methodology.

EPM systems are being used to create Performance-Accountable Organizations and to achieve Management Excellence.

The next section will examine the concept of Management Excellence in more detail.
What is Management Excellence?

Management Excellence Defined

Management Excellence (ME) is the result of implementing EPM well. The three pillars (being Smart, Agile and Aligned) enable organizations to have a better and broader understanding of their business, provide the ability to react to new challenges or seize new opportunities, and ensure internal alignment, as well as synchronization, with external stakeholders’ feedback.

With EPM supporting your management processes, the next step is to use EPM to help achieve Management Excellence. For the last ten or fifteen years, organizations have spent an enormous amount of money, time and effort on achieving operational excellence; driving cost and waste out of business processes, speeding up business operations, and improving quality of products and services. This is essential and every business must do this in order to survive. Customers simply expect a business to be efficient, fast and flawless. But the more you invest in operational excellence, the harder it gets to improve even more. And the more your competitors invest in it, the less of a differentiator it becomes for you.
So what can you do to maintain your competitive edge in the coming months and years? You can take the operational excellence you have already achieved and build a new layer on top of it; a layer of management excellence. Where operational excellence is all about cost, quality and speed, management excellence is about becoming smart, agile and aligned.
Smart means understanding what’s happening in the market and in your business better and faster than anyone else. It means getting the most out of your data: run simulations, ask what-if questions, model possible scenarios, and be prepared for all eventualities.

But what is being smart worth if you can’t do anything with it? That is why you need to be agile. Agile means being able to reallocate resources or change your business model quickly based on new insight or as business conditions change. Are your management systems and business systems connected to enable rapid response to change?

Finally, your company needs to be aligned. This means sharing best practices within the company and across the complete value chain. If you’re the only smart and agile person, and the rest can’t follow, it just won’t work. Be prepared to share essential information with all stakeholders in the business – from customers, partners, and suppliers to employees and shareholders.
Smart, agile and aligned companies are more confident, more trusted, and more successful. Their forecasts are more accurate, they can allocate resources more effectively, they have better control of working capital, and they can respond faster when conditions change. Not everyone loses when the economy turns.

If you can achieve management excellence on top of operational excellence, you’re in a great position to turn strategy into success.
What is the Management Excellence Framework?

The Management Excellence Framework expands the scope of traditional performance management (which includes processes for business planning, monitoring business operations and business results reporting) to offer a framework that includes processes that link strategy to success by understanding the stakeholder environment, market model, and business model.

Now that most companies have achieved a certain level of operational excellence, it’s no longer the differentiator it once was. To be successful today, you need to match operational excellence with management excellence. This is easier said than done.

Operational processes include order-to-cash, procure-to-pay, and hire-to-retire; but what are the management processes called? So far, they have not been formally identified or named. That is why we designed the Management Excellence framework, consisting of six core management processes. The Management Excellence framework is a way of understanding these critical processes, and ensuring you have them all in place to link strategy to plans and execution.

The traditional management processes give you a firm grip on the organization itself as their purpose is more internal control. We call these processes Plan-to-Act, Analyze-to-Adjust and Record-to-Report. But, good management also needs a strategic, external view, a view of what is happening out there in the market. Management needs to know what’s coming and to be ready to change. These high-impact processes are called Gain-to-Sustain, Investigate-to-Invest and Design-to- Decide.

The Management Excellence framework explains each of these processes and identifies key performance indicators for each one. It also outlines the EPM techniques and technologies that you’ll need to make them work for you.
The Management Excellence framework expands the scope of traditional performance management to offer a framework by which companies can deliver Management Excellence. This framework expands the scope of traditional performance management to include the stakeholder environment, market model and business model.

Management Excellence consists of six core processes in which the output from one becomes the input for the next. Those processes are:

1. Gain-to-Sustain
2. Investigate-to-Invest
3. Design-to-Decide
4. Plan-to-Act
5. Analyze-to-Adjust
6. Record-to-Report

Figure 3: Management Excellence: The Management Process Value Chain
Gain-to-Sustain

Gain to Sustain ensures that the business gains all the necessary contributions from its stakeholders to drive business performance, while meeting the required stakeholder expectations.

The aim of Gain-to-Sustain is to ensure that the business gains all contributions from its stakeholders, in order to sustain business performance. To do this, you first need to understand all stakeholder contributions, and then have to make sure these contributions are aligned with corporate objectives. At the same time, you need to understand what each stakeholder expects in return, and make sure that these expectations are being met.

You could think of your company as a champion racing driver, standing on the podium, holding the trophy. But you haven't won it on your own. A huge number of people have contributed: the pit crew, the training team, the designers, and the finance people. Your business is no different.

Many stakeholders contribute to your success: employees, customers, suppliers, partners, shareholders and more. To get the most value out of these stakeholders - and to ensure they're getting what they need from you - you need to share information and maintain a continuous stakeholder dialogue. By sharing information about performance, goals and results, you can make stakeholders feel involved and valued.

You can improve your attractiveness as an employer and minimize investor turnover. You can inspire employees, keep customers informed and show partners how great you are to do business with. In turn, your stakeholders are motivated to contribute more to your success. It's a virtuous circle.

Stakeholders are vital to the success of your business. By understanding and catering to their needs, they'll work harder for you.
Other activities and Key Performance Indicators (KPIs) may include (but are not limited to):

Example activities:
- Sustainability reporting
- Supplier / customer scorecards
- Financial reporting

Investigate-to-Invest

Investigate to Invest is the management process for identifying, evaluating and creating the most attractive market opportunities that generate the highest returns.

Investigate to Invest is the management process for identifying, evaluating and creating the most attractive market opportunities that generate the highest returns, aligning to stakeholder expectations. It enables you to understand market dynamics and their potential. It then lets you match these market conditions with your own resources, assets and goals. You can use this information to invest - or divest - to get the right portfolio.

Imagine your company is a marathon runner. Your overall goal is to win, and your statistics show that you are heading towards a personal best. If you're in there to win, what's your personal record worth if you are overtaken by hundreds of others? Translated to business terms, your budget is a start, but your benchmark is the measure of success.

You can get a better grip on what's going on out there through activities like competitive analysis, benchmarking and scenario analysis. This will give you a better understanding of market share, market growth and capacity, brand value and buyer propensity to substitute.
Investigate to invest gives companies the flexibility to change tactics as market conditions change. That's a bonus at the best of times. In a world where the economic climate changes quickly, it's critical.

Other activities and KPIs may include (but are not limited to):

Example activities:
- Market analysis
- Benchmarking
- Competitive analysis
- Scenario analysis

**Design-to-Decide**

Design to Decide is the strategy formulation management process for designing the business infrastructure and partner network to deliver value to customers in the most profitable way.

Design-to-Decide is the management process for creating a successful business model. It helps you to design the strategies that deliver the most value to customers and the most profit to you. In the design-to-decide process, you first explore possible scenarios by asking “what-if” questions. You then create potential strategies, also making sure that all risks are taken into account. Finally you set inspirational goals for your enterprise and decide on the right business model to achieve them.

The model will include your portfolio of products and services and the distribution channels you will use to get those products and services to customers. Developing the business model shouldn't be the responsibility of a single executive or department. Nor should it be set in stone. Instead, it should be a learning process based on continuous change, with all levels of management involved.
A good analogy is with football/soccer. Scoring is the ultimate objective, but only a tiny fraction of goals are scored by a single player kicking the ball forward with one huge kick.

Almost all goals come out of position play, involving multiple players and using the opportunities that the game throws up. The key is to continually analyze external factors - using the investigate-to-invest process. Aim to be as flexible as possible and ready to change when new opportunities arise.

Design-to-decide is the third management process in the Management Excellence framework. Combined with gain-to-sustain and investigate-to-invest, it provides the information you need to build a successful business model and plan based on current market conditions.

Other activities and KPIs may include (but are not limited to):

Example activities:
- Predictive modeling
- Uncertainty management
- Financial modeling, funding analysis
- Portfolio analysis
- Strategy mapping

Plan-to-Act

Plan to Act optimizes capital and resource allocations across the organization in order to effectively execute its strategy. This process involves budgeting, planning and forecasting.

Plan-to-Act is a process for allocating capital and resources effectively across the organization. Its core elements are budgeting, planning and forecasting. A good plan has a few key aspects. It's
consistent across the business, it’s aligned with corporate goals, it builds commitment from stakeholders, and it makes sure the right resources are allocated.

Perhaps the most important aspect is that the plan must be flexible. It can - and should - change many times as circumstances change inside and outside the business.

Imagine your company is a mountain climber. You have an overall plan to reach the summit, but every step of the way, you have to re-assess the terrain and decide your next move. Successful business planning is just like that. You need to use the right resources at the right time, based on accurate insight into your current circumstances. In short, don’t stick to the plan, stick to reality.

Use rolling forecasts to see when conditions are about to change, and then re-plan accordingly. Align operational plans with financial goals to ensure that the right budget and resources are available. Experiment continuously, but never lose sight of your overall objectives.

Plan to Act is a key management process for any business that wants to stay successful in a changing economy.

Other activities and KPIs may include (but are not limited to)

Example activities:

• Budgeting
• Integrated financial/operational planning
• Rolling forecasting
• Activity-based costing
Analyze to Adjust

Analyze to Adjust is the management process for analyzing trends and deviations -- and their root cause -- from an organization's goals in order to take corrective actions.

Analyze to Adjust is a process that lets you analyze your performance and take appropriate action. It analyzes trends in your business and deviations from your goals and helps you identify their root causes. You can then benchmark this insight against the market, to see if it's a sector-wide trend or unique to your business. Depending on what you find, you may then decide to take appropriate preventive or corrective action. Finally, you can create a new, up to date forecast.

Analytical tools are crucial to this process. But for the process to work properly, you need to be able to analyze your entire value chain.

It's like a relay race. Each team member always runs as fast as they can. The difference lies in the way the baton is handed over. The team that does that the best usually wins the race. To make sure your value chain is working at full efficiency, you need to analyze performance across the board. A minor issue in one spot may be causing huge problems elsewhere.

But without proper analysis, you may never make the crucial connection - and the problems may just get worse. You probably already have a lot of analytics in your business. Unfortunately most analytics are fragmented. To gain true insight, you need to bring all of these together and get an accurate view of the business as a whole. That kind of insight lets you analyze and adjust performance on the fly - making your business more agile than the competition, and more successful.

Other activities and KPIs may include (but are not limited to)

Example activities:

- Variance analysis
• Root-cause analysis
• Line of Business specific analysis
• Profitability analysis

Record-to-Report

Record to Report is the management process for providing strategic, financial and operational feedback to all stakeholders inside and outside the organization, to understand how a business is performing.

Record-to-Report helps stakeholders inside and outside the organization to understand how the business is performing. It does this by providing them with feedback -- timely information about the strategy, finances and operations. Stakeholders can then use this information to make informed decisions. Shareholders can choose whether to increase their investment. Salespeople can see what they need to do to make their target. Regulators can decide whether the business is meeting its obligations.

To help your stakeholders make the right decisions, you need to give them good information. You must extract the right data from the right sources, transform it into meaningful information and present it in an insightful manner. If they receive meaningful data, your stakeholders will be able to make decisions that contribute to the business's success. They'll be more willing to invest their time, effort or money in ensuring that success. And they'll be more likely to provide feedback that helps you improve even more. This is why it's so important to share information and to create a dialogue with all stakeholders.

It's a bit like a scoreboard in sports: no scores, no fun and if you show your team how well you're doing against the competition and they'll be even more motivated to go for gold. But sharing information is only useful if it's accurate and timely. If it's out of date, or inaccurate, or insufficient, your stakeholders may end up making the wrong decisions, or doing nothing at all while they could be making a positive difference. Creating a transparent company builds trust, confidence and motivation.
Studies show that the companies that provide fast, full and meaningful reports are more successful and more trusted in the marketplace. A fast financial close and detailed, accurate reporting can make a huge amount of difference to your business’s reputation and standing, both internally and externally. An effective record-to-report process can help you get there.

Other activities and KPIs may include (but are not limited to)

Example activities:
- Management reporting
- Financial reporting
- Audits
- Regulatory Filings
Management Excellence, Best Practices

There are many facets to attaining Management Excellence. To help provide some insight as to what other organizations have achieved, this next section is dedicated to best practices gathered from successful organizations.

Figures 4 and 5 contain a high level view of best practices for each of the core management processes, and for the key capabilities and techniques of Management Excellence.

<table>
<thead>
<tr>
<th>PROCESS</th>
<th>BEST PRACTICE</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>Gain to Sustain</td>
<td>Stakeholder Performance Management</td>
<td>Secure all necessary contributions to attain performance goals</td>
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<tr>
<td></td>
<td>Transparent Financial Reporting</td>
<td>Enhanced investor’s confidence and greater access to capital</td>
</tr>
<tr>
<td>Investigate to Invest</td>
<td>Manage Market Opportunities</td>
<td>Focus investments in markets with highest potential</td>
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<tr>
<td></td>
<td>Active Portfolio Management</td>
<td>Optimize portfolio that provides the highest return</td>
</tr>
<tr>
<td>Design to Decide</td>
<td>Value Chain &amp; Business Model Optimization</td>
<td>Integrated value chain that is worth more than the sum of its parts</td>
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<tr>
<td></td>
<td>Integrated Financial Modeling</td>
<td>Understand the full financial impact of alternative strategies</td>
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<tr>
<td></td>
<td>Manage Risk and Strategy</td>
<td>Achieve strategic goals while mitigating risk</td>
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<tr>
<td>Plan to Act</td>
<td>Top-Down and Bottom-Up Planning</td>
<td>Alignment of plans throughout the organization to achieve performance goals</td>
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<td></td>
<td>Integrated Business Planning</td>
<td>Detect and respond to market changes quickly</td>
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<tr>
<td></td>
<td>Operational Planning and Modeling</td>
<td>Align financial goals with operational feasibility</td>
</tr>
</tbody>
</table>

Figure 4: Best Practices, Part I
In addition, Figures 4 and 5 include the value obtained by implementing each of the best practices.

In this next section, more of the best practices for each of the management processes are presented along with some examples of the Key Performance Indicators (KPIs) for each.

Gain to Sustain:

The two most prominent best practices for the Gain to Sustain process are Stakeholder Performance Management and Transparent Financial Reporting. The first best practice will help you secure all necessary contributions to attain performance goals, and the second best practice will help you enhance investor’s confidence and gain greater access to capital. Next, let’s break down each practice further and include some useful KPIs:

**Stakeholder Performance Management**

- Identify key stakeholders contributions and requirements
- Align conflicting stakeholder requirements
• Align corporate strategy with stakeholder interests
• Share performance related metrics and indicators with suppliers, channel, and business partners
• Engage in a continuous stakeholder dialogue and provide continuous feedback
• Provide societal, environmental, and economic metrics reporting to external and internal stakeholders

Transparent Financial Reporting
• Employ XBRL to deliver financial reports fast and consistently
• Embrace international reporting standards to allow investors to make better comparisons with organizations globally
• Include textual information such as management discussion and analysis
• Use forecast ranges instead of point estimates to guide investors on future performance
• Provide a higher level of precision through advanced statistics and risk assessment techniques

Useful KPI’s include:

<table>
<thead>
<tr>
<th>USEFUL KPI’S</th>
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</thead>
<tbody>
<tr>
<td>LEADING</td>
<td>LAGGING</td>
<td></td>
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<tr>
<td>Delivery efficiency</td>
<td>Order to cash cycle time</td>
<td></td>
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<tr>
<td>Pipeline conversion rate</td>
<td>Revenue</td>
<td></td>
</tr>
<tr>
<td>Campaign effectiveness</td>
<td>Leads</td>
<td></td>
</tr>
<tr>
<td>Backorder time</td>
<td>Service level</td>
<td></td>
</tr>
<tr>
<td>Employer attractiveness</td>
<td>Absenteeism, tenure</td>
<td></td>
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<tr>
<td>Development/operations cost mix</td>
<td>Business performance</td>
<td></td>
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<tr>
<td></td>
<td>Profitability by product, service, customers</td>
<td></td>
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</tbody>
</table>
Investigate to Invest:

The two most prominent best practices for the Investigate to Invest process are Manage Market Opportunities and Active Portfolio Management. The first best practice will help you to focus your investments in markets with the highest potential, and the second best practice will help you to optimize the portfolio that provides the highest return. Next, let’s break down each practice further and include some useful KPIs:

Manage Market Opportunities

- Investigate market dynamics, market drivers and customer segments
- Include market sizing, market share analysis, growth projections, and competitive intelligence
- Match the market potential with resources, capabilities, constraints, and goals
- Size investments and divestments in selected target markets
- Combine internal and external market intelligence and analysis

Active Portfolio Management

- Apply optimization techniques to find the optimal combination of investment projects given capital and operational constraints
- Use simulation and sensitivity analysis to evaluate portfolio in different market scenarios, and project the respective long term financial results.
- Identify most competitive product and service portfolio, including rationalization of existing portfolio and diversification in new attractive segments.
Useful KPIs include:

<table>
<thead>
<tr>
<th>USEFUL KPI'S</th>
<th>LAGGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Market growth</td>
<td>* Win/loss ratio</td>
</tr>
<tr>
<td>* Market capacity</td>
<td>* Market share</td>
</tr>
<tr>
<td>* Economies of scale</td>
<td>* Profitability</td>
</tr>
<tr>
<td>* Continuous marketing cost</td>
<td>* Discount negotiation results</td>
</tr>
<tr>
<td>* Cost of product relative to selling price</td>
<td>* Supplier price comparison</td>
</tr>
<tr>
<td>* Switching cost</td>
<td>* Discount negotiation results</td>
</tr>
<tr>
<td>* Degree of supplier differentiation</td>
<td>* results</td>
</tr>
<tr>
<td>* Price sensitivity</td>
<td>* Recency, frequency, monetary (RFM) value of customer segments</td>
</tr>
<tr>
<td>* Switching cost</td>
<td>* Win/loss ratio</td>
</tr>
<tr>
<td>* Buyer volume</td>
<td>* Revenue from new products</td>
</tr>
<tr>
<td>* Percentage patent protected revenue</td>
<td>* Win/loss ratio</td>
</tr>
<tr>
<td>* Brand value</td>
<td>* Substitute market growth</td>
</tr>
<tr>
<td>* Cost advantage index</td>
<td></td>
</tr>
<tr>
<td>* Buyer propensity to substitute</td>
<td></td>
</tr>
</tbody>
</table>

Design to Decide:

The three most prominent best practices for the Design to Decide process are Value Chain & Business Model Optimization, Integrated Financial Modeling, and Manage Risk and Strategy. The first best practice will help you to create an integrated value chain that is worth more than the sum of its parts; the second best practice will help you understand the full financial impact of alternative strategies; and the third best practice will help you achieve strategic goals while mitigating risk. Next, let's break down each practice further and include some useful KPIs:
Value Chain & Business Model Optimization

- Optimize performance across the whole value chain; measure the value created for suppliers and distributors to build effective, strategic partnerships
- Assess alternative sales and distribution channels
- Assess attractiveness of business opportunities
- Create a business plan using data about the revenues and costs associated with direct versus indirect channels
- Compare current vs. future channel options

Integrated Financial Modeling

- Integrate long-term planning, corporate development and treasury strategies into a single system instead of fragmented spreadsheets
- Use simulation to understand the full range of potential outcomes, the likelihood of scenario’s and the risks involved
- Analyze the sensitivity of financial results to key business drivers
- Optimize capital structure by analyzing projected cash flow, debt capacity, debt pay-offs, new share issuance or share buy-backs
- Analyze potential acquisitions, divestitures and strategic alliances to build the business model
- Manage value creation by understanding future cash flows

Manage Risk and Strategy

- Identify the risks inherent in each business decision
- Assign a risk indicator to each performance indicator
- Monitor them closely, and take action when needed
- Perform assessments to counter potential major business disruptions
• Use strategy maps to connect how an organization can create value by connecting strategic objectives in explicit cause-and-effect relationships with each other

• Understand how actions are aligned with strategic goals

Useful KPI’s include:

<table>
<thead>
<tr>
<th>USEFUL KPI’S</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LEADING</strong></td>
<td><strong>LAGGING</strong></td>
</tr>
<tr>
<td>• Productivity, operational</td>
<td>• Economic Value Added (EVA)</td>
</tr>
<tr>
<td>excellence benchmark (time to</td>
<td></td>
</tr>
<tr>
<td>market, cost, quality)</td>
<td>• Shareholder value</td>
</tr>
<tr>
<td>• Direct/indirect channel mix</td>
<td>• Customer satisfaction</td>
</tr>
<tr>
<td>• Revenue from new products</td>
<td>• Revenue growth</td>
</tr>
<tr>
<td>• Compliance rating</td>
<td>• Brand value</td>
</tr>
<tr>
<td>• Skills/competencies match</td>
<td>• Customer profitability</td>
</tr>
<tr>
<td>• IT effectiveness benchmark</td>
<td>• Channel to market performance ratios</td>
</tr>
<tr>
<td>• Impact (monetary, time, quality) of improvement initiatives</td>
<td>• Channel profitability</td>
</tr>
<tr>
<td>• Customer loyalty</td>
<td>• Channel time to market and penetration</td>
</tr>
<tr>
<td></td>
<td>• Earnings per share dilution or accretion</td>
</tr>
</tbody>
</table>

Plan to Act:

The three most prominent best practices for the Plant to Act process are Top-Down and Bottom-Up Planning, Integrated Business Planning, and Operational Planning and Modeling. The first best practice will help you align plans throughout the organization to achieve performance goals; the second best practice will help you detect and respond to market changes quickly; while the third best practice will help you align financial goals with operational feasibility. Next, let's break down each practice further and include some useful KPIs:
Top-Down and Bottom-Up Planning

- Set corporate financial goals and targets for revenue, margins, expenses, head count, and capital expenditures
- Cascade throughout departments and divisions
- Use Bottom-Up budgeting to create a detailed buildup of financial and operational assumptions by cost center, department, division, or business unit
- Match against the original financial objectives or targets set by senior management and external stakeholders
- Align top-down and bottom-up budgets and plans by performing several iterations throughout the annual budget process

Integrated Business Planning

- Align plans across business functions to drive consistent execution of strategy
- Allocate capital and resources optimally across the organization
- Assess integrated impact of business decisions
- Integrate operational and financial planning to ensure that financial goals can be met
- Use rolling forecasts instead of end-of-year forecasts to continuously capture changing market conditions
- Use statistical forecasting and optimization techniques to deliver predictable results

Operational Planning and Modeling

- Model revenues and margins based on operational business drivers such as unit sales forecasts, product mix, key input costs, and selling prices
- Map changes in plans and planning assumptions to financial targets and operational constraints
- Evaluate operational costs and environmental impacts across the entire value chain
- Simultaneous analysis of the impact of plan revisions on financials and operations
Useful KPI’s include:

<table>
<thead>
<tr>
<th>USEFUL KPI'S</th>
<th>LAGGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEADING</td>
<td>LAGGING</td>
</tr>
<tr>
<td>• Planned contribution to company goals</td>
<td>• Realized contribution to company goals</td>
</tr>
<tr>
<td>• Planned contribution to other business domains</td>
<td>• Realized contribution to other business domains</td>
</tr>
<tr>
<td>• Asset utilization rate (people, facilities)</td>
<td>• Productivity</td>
</tr>
<tr>
<td>• Cycle time to prepare budgets</td>
<td>• Forecast accuracy</td>
</tr>
<tr>
<td>• Time to re-budget</td>
<td></td>
</tr>
<tr>
<td>• Time to identify and resolve variances and constraints</td>
<td></td>
</tr>
</tbody>
</table>

Analyze to Adjust:

The three most prominent best practices for the Analyze to Adjust process are Perform Variance, Root Cause, and Trend Analysis; Perform Profitability Management; and Use Performance Scorecards and Dashboards to Monitor Performance. The first best practice will provide greater agility through fast corrective actions on business issues; the second best practice will help you to improve profitability by reducing non value-added activities and focusing on the most profitable products and customer segments; while the third best practice will help you with the consistent execution of strategy. Next, let’s break down each practice further and include some useful KPIs:

**Perform Variance, Root Cause, and Trend Analysis**

- Use predefined best practice metrics by function and industry
- Provide business users access to critical information for their role through personalized dashboards
- Continuously monitor variances between actuals and targets
- Use predefined analytical workflows to quickly find the root causes for variances
- Analyze cross-functional cause and effect to determine the most effective course of action
Perform Profitability Management

- Allocate indirect or hidden costs to understand true profitability of products, customers and distribution channels
- Identify the most and least profitable segments
- Understand cost drivers and activities impacting profitability
- Identify opportunities for improvement
- Simultaneous analysis of profitability by portfolio, customers segments, regions and channels
- Understand true value drivers to the business and explore unprofitable areas across sectors, segments, regions and portfolios

Use Performance Scorecards and Dashboards to Monitor

- Use scorecards and dashboards to drive the agenda for executive meetings
- Track progress against operational, financial, and strategic goals and objectives
- Benchmark performance against external and internal peer group
- Ability to drill down quickly into a chart or report to gain insights into the underlying details and trends
- Analyze key deviations and take immediate actions such as more-frequent monitoring, reallocation of resources, or starting an initiative to improve or reset the goal
Useful KPI’s include:

<table>
<thead>
<tr>
<th>LEADING</th>
<th>LAGGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delivery efficiency</td>
<td>Order to cash cycle time</td>
</tr>
<tr>
<td>Pipeline conversion rate</td>
<td>Revenue</td>
</tr>
<tr>
<td>Campaign effectiveness</td>
<td>Leads</td>
</tr>
<tr>
<td>Backorder time</td>
<td>Service level</td>
</tr>
<tr>
<td>Employer attractiveness</td>
<td>Absenteeism, tenure</td>
</tr>
<tr>
<td>Development/operations cost mix</td>
<td>Business performance</td>
</tr>
<tr>
<td></td>
<td>Profitability by product, service, customers</td>
</tr>
</tbody>
</table>

Record to Report:

The three most prominent best practices for the Record to Report process are Fast Close; Standardized Reporting Framework; and Provide Common Query and Reporting Tools. The first best practice enables you to maximize the time to analyze business results; the second best practice provides a consistent and timely view of information across the organization; while the third best practice helps to provide access to critical information at minimal cost. Next, let’s break down each practice further and include some useful KPIs:

Fast Close

- Reduce the period-end reporting and closing process to a fast close of five days or less
- Take a holistic approach by addressing the entire close process
- Focus on the “time-killers”: inter-company, cash flow reporting, foreign currency conversion, minority interests and tax reporting
- Close transaction systems and keep them closed
- Do it right the first time ensuring data quality, reviewing audit trails, and implementing process control
Standardized Reporting Framework

- Create consolidated financial statements
- Transform to meaningful strategic, financial and operational performance indicators, for each management excellence framework step
- Determine best way of presenting information, based on the type of performance indicator and the users' personal preference and security
- Share with appropriate internal and external stakeholders
- Virtual close - close the books on a daily basis, or in only a few hours
- Employ XBRL-Based Regulatory Filings and Reporting for the preparation and publication of financial reports

Provide Common Query and Reporting Tools

- Provide a common set of reporting and analysis tools that meet the needs of different types of end users
- Create personalized and graphical dashboards
- Support ad hoc query and reporting, production reporting, and financial statement creation
- Support alerts and mobile devices as well as access to Microsoft Office applications
- Provide access to all data from internal and external data sources
Useful KPI’s include:

<table>
<thead>
<tr>
<th>USEFUL KPI’S</th>
<th>LAGGING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LEADING</strong></td>
<td><strong>SUSTAINABLE SUCCESS</strong></td>
</tr>
<tr>
<td>Management process efficiency and cost as part of overall business cost</td>
<td>Return on assets</td>
</tr>
<tr>
<td>Span of control</td>
<td>Return on investments</td>
</tr>
<tr>
<td>Forecast accuracy</td>
<td>Return on equity</td>
</tr>
<tr>
<td>% KPIs implemented</td>
<td>Return on stakeholder</td>
</tr>
<tr>
<td>Forecast cycle time</td>
<td></td>
</tr>
<tr>
<td>Time to close</td>
<td></td>
</tr>
<tr>
<td>Time to report</td>
<td></td>
</tr>
<tr>
<td>Management productivity</td>
<td></td>
</tr>
<tr>
<td>Performance impact of new initiatives, innovations and new business models</td>
<td></td>
</tr>
<tr>
<td>Response time to market changes</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the six core management processes, there are two prominent best practices concerning the supporting capabilities and technologies, which are: Use Multidimensional Analysis & Simulation, and Apply Common Administration. The first best practice will provide you with the flexibility to model unique business requirements and perform analysis with fast response times. The second best practice will increase the quality of management information, at a lower IT cost. Next, let’s break down the supporting capabilities.

**Use Multidimensional Analysis & Simulation**

- Create multidimensional models of the business
- Populate the models with data from multiple sources and business functions
- Create and derive information for data allocations, complex calculations, and extrapolations
• Analyze business trends over time and across divisions, products, customer segments, and distribution channels quickly

• Support read/write analytic applications such as budgeting and forecasting, scenario planning, profitability analysis, market size, and growth analysis

Apply Common Administration
• Ensure consistency of management information and reporting
• Increase speed of deployment by reusing common application and report constructs
• Decrease the cost of deployment by using common administration
• Use a single point of administration for
  • System installation
  • User provisioning
  • Application creation and maintenance
  • Metadata management
  • Application lifecycle management

Summary
As can be seen from this list of best practices, a fundamental business principle is that Management Excellence touches every part of the organization – from the executive board to the most junior members of the workforce. Everyone has a part to play in helping the company succeed in meeting its goals. Implementing these best practices will help ensure that with the Management Excellence framework and an EPM solution in place across the organization, companies set themselves up to win.
Self-Evaluation

The next step is to evaluate your organization and determine where you are performing well and where you might need help. The following questions are organized into the Management Excellence Framework capabilities and may be helpful in evaluating your current situation. We suggest using the Notes column to record observations about your organization that address the questions, the Importance column to indicate the significance of this question to your organization (scale of 1-5, 1=very important, and 5 is not important at all), and the Check column to indicate that you have addressed the question or choose not to. We hope this format will be useful in your self-evaluation.

Overall EPM Questions

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE 1=VERY</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>What are the key management activities in your business unit?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Planning, analysis, reporting, dashboards, etc.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How well are the management processes defined and documented?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**What technology do you use to support your management processes?**

- Transaction Systems
- ERP System
- Customer Relationship Management System
- Supply Chain Management System
- SRM System
- PLM System

**PM & BI**

- Performance management applications
- BI Applications
- Scorecard
- BI tools
- Department data mart
- Corporate data warehouse
- Custom Personal Productivity Tools
- Spreadsheets
- Presentation software
- Word processing
- Other – Please describe

**Describe the attributes of your management system**

- Is it integrated?
- Is it standardized?
- Is it automated or is there a lot of manual work such as re-keying of data?
- Is it flexible?
- Is it easy to use?
- Is it accessible?
- Do you get information in a timely manner?
- Is the information complete?

**What are the key capabilities you are looking for to improve your existing management system?**

- Which capabilities are most immediately needed?

**How effectively do you communicate with managers about performance related information?**
Is there transparency in the overall measurement process?

Which management activity most needs immediate improvement?

Do you use your management system for future projections and planning?

How well does your technology support your management processes?

### External Reporting

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>How satisfied are you with your current Reporting/Consolidation solution?</td>
<td></td>
<td>1=VERY</td>
<td></td>
</tr>
<tr>
<td>How long has your current solution been in use?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rate the efficiency of your current process:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>What could be changed about the current process to make it more efficient?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>How long is the process to close the books and publish the numbers from your organization?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>To whom do you report externally? How is this reporting handled?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td>Answer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How satisfied are your users with the timeliness and usefulness of the reporting and consolidation information that they are receiving?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are you feeling increased pressure to publish results faster?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How would you potentially cut days off of your closing process?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can you drill down into report outputs to see the assumptions behind it?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are key metrics from your strategic planning model integrated into a dashboard?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Do you have a process for communicating key information from your strategic planning model to key stakeholders inside/outside of the company?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Does your system use XBRL reporting options?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>How is the shortened 10K + 10Q reporting cycle going to affect you? How will you adapt to it?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Are you comfortable signing off on financial statements?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is everyone on your team held accountable for the completeness, accuracy, and integrity of your financial statements?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Do you have the right level of detail to prevent or detect material misrepresentations in your financial statements?

What impact do Sarbanes-Oxley/Basil II/IFRS have on your organization?

How can the process be improved?

What are some of your immediate external reporting needs?

Strategic and Predictive Modeling

<table>
<thead>
<tr>
<th>STRATEGIC AND PREDICTIVE MODELING</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUESTION</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>How does your organization currently handle both strategic and predictive modeling?</td>
</tr>
</tbody>
</table>

What tools or applications are currently used?
- ERP System
- Point Applications
- Integrated EPM Suite
- BI Tools
- Spreadsheets
- Custom

How satisfied are you with your current solution?

How long has it been in use?
<table>
<thead>
<tr>
<th>Question</th>
</tr>
</thead>
<tbody>
<tr>
<td>• How often is this process performed?</td>
</tr>
<tr>
<td>• How many people are involved in this process?</td>
</tr>
<tr>
<td>• How long does this process take?</td>
</tr>
<tr>
<td>• Rate the efficiency of your current strategic and predictive modeling process.</td>
</tr>
<tr>
<td>• How do you model various business scenarios (such as different stakeholder requirements, different market models and different business models) and potential outcomes?</td>
</tr>
<tr>
<td>• How do you forecast the likelihood of desired outcomes; that is, predict the probability of success given uncertain inputs?</td>
</tr>
<tr>
<td>• How do you identify the key drivers of business success?</td>
</tr>
<tr>
<td>• What are some constraints on your business? How do you test different business scenarios against these resource constraints?</td>
</tr>
<tr>
<td>• If using spreadsheets, how do you ensure that everyone is operating from a consistent set of assumptions?</td>
</tr>
<tr>
<td>• Are you able to use these same cost drivers in your budgeting process?</td>
</tr>
<tr>
<td>• How can the process be improved?</td>
</tr>
<tr>
<td>• What are some of your immediate needs?</td>
</tr>
</tbody>
</table>
Treasury

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you run a treasury model that is separate from your strategic planning model? How do you ensure that these models are operating from a consistent set of assumptions?</td>
<td></td>
<td>1=VERY</td>
<td>✔</td>
</tr>
<tr>
<td>Does your treasury model give you options to strengthen the Balance Sheet by choosing how to allocate cash surpluses and deficits among cash, debt, and equity?</td>
<td></td>
<td>5= NOT AT ALL</td>
<td>✗</td>
</tr>
<tr>
<td>Do you currently assess how key drivers in your strategic planning model can affect credit ratings or debt covenants?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can you easily assess how changes to LIBOR, credit ratings, or failing debt covenants can affect your interest rates and overall cost of debt?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Strategic Modeling

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you have a separate model to forecast and evaluate internal projects (NPV, IRR, ROIC)? How do you ensure that this model</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Question</td>
<td>Answer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>is operating from the same set of assumptions as your other models?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Can you easily combine internal projects into your current strategic plan or remove them to assess the overall impact on the company?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• What is your current process for analyzing an acquisition or divestiture?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Do you have a separate model to analyze target valuation, potential synergies, and/or EPS accretion/dilution across several scenarios?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Can you easily combine an acquisition or divestiture model with your current strategic planning model to analyze the potential new company?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• How easy is it to change the deal date in your current model and measure the financial impact? Can this be done in a time sensitive situation?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Integrated Business Planning**

Planning provides an in-depth look at business operations and its related impact on financials by tightly integrating financial and operational planning models.
ROI for Planning

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>• How much value do you see in linking your strategic planning, balance sheet, and cash-flow models to your budgeting and forecasting financial models?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Could you reduce the financial planning cycle time if you had a Web-based planning system?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Would it be more cost-effective to maintain that system if you had a thin-client, Web-based system?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Would you do a lot more value-added financial modeling if that planning cycle time were reduced?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Would it be helpful to have everyone at the corporate level use the same financial models as the basis for their specific analyses?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Would it be helpful to have integrated financial statements out-of-the-box in your planning system?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Do you think better decisions could be made if financial planning, finance, treasury, and corporate development were all using integrated or related tools and models?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Do you think your company could make</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
better decisions and be more adaptive if it had the ability to generate a forecast more often or even in a continuous manner?

- How much money and time would you save if you could maintain the software from a centralized manner?

- Do you think the overall relationship with Finance would be optimized if it were more independent in managing the business rules and in report creation?

- Would it be valuable to have a single, scalable, multidimensional engine for all your planning data? Would it be easier to provide information to decision-makers that way?

- Would replacing spreadsheets in your business planning processes with a purpose-built application that leverages your investment in the company’s IT infrastructure be aligned with the overall IT strategy?

### Planning and Budgeting

<table>
<thead>
<tr>
<th>INTEGRATED BUSINESS PLANNING - PLANNING AND BUDGETING</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUESTION</td>
</tr>
<tr>
<td>What types of planning/budgeting does your organization perform?</td>
</tr>
<tr>
<td>• Strategic Planning</td>
</tr>
</tbody>
</table>
- Capital Planning
- Project Planning
- Financial Planning
- Headcount/Salary Planning
- Operational Budgeting
- Other

- How is the final, annual, financial plan for the total company put together?

- When do you typically start and when do you finish your annual planning/budgeting process? So that means that it takes on average about x months to complete it, correct?

- Are you doing forecast or rolling forecasts? If rolling, how far out?

- How often do you reforecast that plan? Twice a month, once a month, once a quarter?

- Do you currently conduct probability analysis on forecasts to increase accuracy? How is it done currently?

- Is the level of detail at which that periodic forecast occurs the same as the level of detail used in the development of the budget?

- How many systems and spreadsheet models are involved in the process?

- How deep in the organization do those processes go for each major section of the P/L: sales, costs, expenses?
- How do you plan for salary, capital, and projects?
- How are the balance sheet and cash flow budgeted and forecasted? Who does it?
- What percentage of the time do their analysts spend in value-added analysis versus procedural work related to putting together budgets and forecasts?
- How long does it take to do a budget versus actual analysis after the month is over?
- How accurate have your short-term financial forecasts been?
- To what extent are spreadsheets to blame for the inefficiencies and overall quality of your financial planning process?
- What is your opinion of your organization's ability to communicate to investors and other third-parties your financial expectations?
- How happy are you with the way the strategic plan drives the annual budget?
- How often do you generate a reforecast of your financial performance?
- What has been the impact of missing your numbers?
- Can you see the impact of different business events on your financial performance?
- Is your annual plan/budget used to drive...
<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
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<tbody>
<tr>
<td>your rolling or short-term forecast?</td>
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<tr>
<td>• Is your annual plan/budget or monthly/rolling forecast used to update your strategic plan?</td>
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<tr>
<td>• How satisfied are you with your current solution?</td>
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<td>• How long has it been in use?</td>
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<tr>
<td>• How many people are involved in this process?</td>
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<tr>
<td>Rate the efficiency of your current planning and forecasting process:</td>
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<tr>
<td>• Do you have a centralized or decentralized process?</td>
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<tr>
<td>• Can your plans and forecasts reflect changing business conditions quickly and effectively?</td>
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<tr>
<td>• What could be changed about the current process to make it more efficient?</td>
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Planning Process

<table>
<thead>
<tr>
<th>INTEGRATED BUSINESS PLANNING - PLANNING PROCESS</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
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<tbody>
<tr>
<td>QUESTION</td>
<td>NOTES</td>
<td>IMPORTANCE</td>
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<tr>
<td>• How many people in the organization are involved in the planning process?</td>
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<td>What systems are used in the planning process?</td>
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<td>Question</td>
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<td>Integrated EPM Suite</td>
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<td>BI Tools</td>
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<td>Spreadsheets</td>
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<td>Custom</td>
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<td>Data Integration</td>
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<td>Data Management</td>
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<tr>
<td>Is administration of the planning tools centralized?</td>
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<td>If spreadsheets are used for business planning, is it difficult for top executives to have visibility into the planning assumptions?</td>
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<tr>
<td>Are requests from finance (related to report, business logic, and import procedures creation) taking too much staff time?</td>
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<td>Does the lack of a solid architecture make it difficult to archive, query, and report on planning data?</td>
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<td>Are you satisfied with the security and workflow management of your current system?</td>
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<td>How do you ensure that the budgeting data you collect is accurate?</td>
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<tr>
<td>How much time is spent on collecting spreadsheets? On re-keying data?</td>
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<tr>
<td>How do you manage different versions of the plans/budgets during the process?</td>
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</table>
### How do you know when everyone has turned in their plans/budgets?

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<th>QUESTION</th>
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<tbody>
<tr>
<td>How does your organization currently handle planning and operational modeling?</td>
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<td>What tools or applications are currently used?</td>
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<td>• ERP System</td>
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<td>How long does this process take?</td>
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</table>
- Rate the efficiency of your current planning and operational modeling process.

- How do you model various operational scenarios and potential outcomes?

- How do you forecast the likelihood of desired outcomes; that is, predict the probability of success given uncertain inputs?

- How do you identify the key operational drivers of business success?

- What are some constraints on your operations? How do you test different operational scenarios against these resource constraints?

- If using spreadsheets, how do you ensure that everyone is operating from a consistent set of assumptions?

- Are you able to use the operational cost drivers in your budgeting process?

- Have you adopted EVA or other value-based approaches?

<table>
<thead>
<tr>
<th>Does your organization perform any of the following cost, quality, or improvement initiatives?</th>
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<tbody>
<tr>
<td>ABM</td>
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<td>ABC</td>
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<tr>
<td>Six Sigma/Lean</td>
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<tr>
<td>Baldrige Criteria</td>
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<tr>
<td>Other</td>
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</tbody>
</table>

- Do you link operational cost models to
The strategic financial planning process encompasses two types of planning: modeling how the enterprise will reach its long-term goals and modeling significant events that affect its ability to reach the long-term goals.

### Strategic/Long-Range Planning

<table>
<thead>
<tr>
<th>INTEGRATED BUSINESS PLANNING - STRATEGIC/LONG-RANGE PLANNING</th>
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<tbody>
<tr>
<td>QUESTION</td>
</tr>
</tbody>
</table>
| What software do you currently use for your strategic/long-range planning process? | Excel  
  Industry-Specific Tool  
  Other |
| How easy is it to make adjustments to your current strategic planning model? | Add new drivers?  
  Change forecast methodologies?  
  Change account structure/reporting format?  
  Change time-period detail? |
| How many people in your organization understand the model well enough to make changes to it? | |

The strategic financial planning process encompasses two types of planning: modeling how the enterprise will reach its long-term goals and modeling significant events that affect its ability to reach the long-term goals.
- How much time is spent auditing the model to catch significant errors?

- How confident are you that all significant errors have been caught and that you are not making an important decision based on faulty calculations?

- What key metrics do you manage your overall business to? Do they involve income statement, balance sheet, and cash-flow information?

- Have you adopted EVA or other value-based approaches?

- How easy is it to run different scenarios on key assumptions and compare results side by side?

- Does your strategic plan drive the annual budgeting process?

- How often do you reforecast your strategic plan? Is it updated by the budget or monthly/rolling forecast?

### Profitability and Cost Management

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<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
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<tbody>
<tr>
<td>How happy are you with the way costs and/or profitability is calculated today?</td>
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</table>
- Are you satisfied with the cost / profitability information your current system provides?

- Does your current cost / profitability system provide information from which meaningful operational / strategic decisions can be made?

- How long has it been in use?

- To what level of detail do you currently calculate costs and/or profitability? Are you satisfied with this level of detail?

- Does your organization calculate product, customer, or geographic profitability?

- What is the number of products, customers, or regions for which you're calculating profitability?

- Do you calculate profitability at the household/account or SKU level?

- Are the allocation calculations well defined and understood by the consumers of the information? Do the users accept them?

- What is your level of confidence in the accuracy of your cost allocations for driving the cost/profitability model?

- Can you validate that all costs have been allocated to your products, services or customers (if that is your intent)?

- How do you typically allocate indirect costs? Is there a particular methodology you use? Do you use more than one method?
throughout the organization? Do your allocation methods currently meet your organizational needs for cost allocation?

- Do you feel you have a good understanding of how costs for various activities are related to selling, servicing, and supporting products, services or customers?

- How do you account for indirect costs e.g. salaries, rents, depreciation, capital costs, etc in calculating costs/profitability?

- How are allocations used in determining product, customer or geographic profitability?

- Do you currently perform allocations via a spreadsheet? Are the allocations subject to unintentional errors?

- How many (number of) allocation levels do you currently use and what level of granularity is in the allocations?

What allocation methods do you use?

- Activity-Based Costing methods to calculate activity rates?

- Time estimation or do you perform detailed time analysis studies/activity analysis?

- Standard or planned rates with actual consumption volumes?

- How do you address over or under allocation variances?

- Do you cross-charge other cost centers based upon the results?

- Who in your organization creates the calculation algorithms? Is it a Business User
or someone from IT?

- How is the modeling of costs and profitability done today? How do you create the model for calculating profitability?

- Do you use spreadsheets? How many different models are contained in spreadsheets?

- How do you model the change in your business processes to sell, service, and support your offerings to customers?

- How easy is it for you to create an allocation model that the organization can agree upon today?

- How quickly/easily are you able to change your cost/profitability model today?

- Can you see the impact of cost/profitability metrics on your financial performance?

- Can you create and compare multiple scenarios containing different assumptions?

- How frequently are you able to update/refresh your profitability information today? Are you satisfied with this frequency?

- How often do you report on cost/profitability information today? Are you satisfied with this frequency?

- How often do you create new cost allocation models?
<table>
<thead>
<tr>
<th>Do budget, planning and allocation models currently exist in their own silos?</th>
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<tbody>
<tr>
<td>If yes, where do they exist?</td>
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<tr>
<td>• General Ledger system?</td>
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<td>• Financial consolidation system?</td>
</tr>
<tr>
<td>• Planning and budgeting?</td>
</tr>
<tr>
<td>• Costing?</td>
</tr>
<tr>
<td>• Profitability?</td>
</tr>
<tr>
<td>• Reporting system(s)?</td>
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<tr>
<th>Is updating budget and forecast data with profitability metrics slow, cumbersome and mostly a manual process?</th>
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<tr>
<th>Do you feed profitability metrics back into your budgeting and forecasting systems? If yes, how do you do this? If no, would you like to?</th>
</tr>
</thead>
</table>

| Do you have multiple sources from which you pull data to calculate cost and profitability? |
| • G/L system                                                                            |
| • Hi/R systems                                                                          |
| • CRM systems                                                                           |
| • Production management systems                                                         |
| • Time / project management systems                                                     |
| • Manual/spreadsheet loads                                                               |

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<thead>
<tr>
<th>Are you satisfied with your current reporting on cost and profitability within your organization?</th>
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<tr>
<th>Would more detailed reporting give you better information on which to base important decisions?</th>
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<tr>
<td>Question</td>
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<tr>
<td>Can you easily spot exceptions, discover trends, perform comparative</td>
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<tr>
<td>analysis and make faster, better informed decisions using your current</td>
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<td>reporting?</td>
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<td>How many users (and of what types) do you anticipate using the system?</td>
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<tr>
<td>• Functional modeling</td>
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<tr>
<td>• Technical/data ETL</td>
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<tr>
<td>• Reporting</td>
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<tr>
<td>• Core users</td>
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<tr>
<td>• Wide audience across enterprise</td>
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<tr>
<td>• External reporting needs</td>
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<tr>
<td>How much value do you see in linking your cost/profitability metrics to</td>
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<tr>
<td>your planning, budgeting and consolidation processes?</td>
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<tr>
<td>Would it be helpful for you to have everyone use a consistent model for</td>
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<tr>
<td>cost/profitability analysis?</td>
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<tr>
<td>Would it be helpful to understand why your profitable customers are</td>
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<td>profitable?</td>
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<tr>
<td>Do you think better decisions could be made if there was a clear</td>
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<tr>
<td>understanding of the costs involved in selling to, supporting or</td>
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<tr>
<td>servicing customers?</td>
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<tr>
<td>Do you think your company could make better decisions if cost/profitable</td>
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<td>ity metrics could flow into your strategic financial planning systems?</td>
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</table>
### Scorecarding, Monitoring and Analysis

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE 1=VERY 5= NOT AT ALL</th>
<th>CHECK</th>
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<tbody>
<tr>
<td>How does your enterprise currently set and communicate corporate strategies and goals across the enterprise?</td>
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<td>What tools or applications are currently used?</td>
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<td>• ERP System</td>
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<td>• Point Applications</td>
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<td>• Integrated EPM Suite</td>
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<td>• BI Tools</td>
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<td>• Spreadsheets</td>
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<td>How satisfied are you with your current solution?</td>
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<td>How long does this process take?</td>
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<tr>
<td>Rate the efficiency of your current goal-setting/scorecard process</td>
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<td>Question</td>
<td>Answer</td>
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<tr>
<td>Does the organization use any formal performance measurement or scorecard methodology?</td>
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<td>• If not, is there a defined strategic or business planning process that is executed before budgeting starts?</td>
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<td>• How are the results of this process communicated?</td>
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<td>• How are goals and objectives communicated down through the ranks?</td>
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<td>• How is performance against corporate goals tracked?</td>
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<tr>
<td>• What types of metrics do you employ? (financial and non-financial)</td>
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<td>• How do you hold managers accountable for achieving goals?</td>
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<td>• How do you communicate and collaborate with one another about goals, targets, success, and concerns?</td>
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<td>• Is compensation linked to these goals?</td>
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<td>• Does management have the ability to “drill down” on scorecards?</td>
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<td>• How long does management spend discussing performance each month?</td>
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<td>• What degree of automation does your organization use?</td>
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<td>• To what extent do your scorecards/dashboards predict outcomes or benefits?</td>
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</table>
future performance?

- How can the process be improved?

- What are some of your immediate needs?

Monitoring

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<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
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<tbody>
<tr>
<td>How do you monitor enterprise performance versus budgets, plans, and stated goals?</td>
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<tr>
<td>What type of systems is your enterprise currently using for performance monitoring?</td>
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<td>ERP System</td>
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</table>
- How many people are involved in this process?
- How long does this process take?
- How is performance against the plan measured and how often? Is there a method in place for consistent performance measurement?
- How do you find out if there are deviations from plans during execution? Are you able to make changes to plans to ensure success?
- How often do you discover challenges with execution when it is too late to make corrections?
- Where are budgets and actuals combined to enable variance reporting? How often does this happen? Quarterly? Monthly?
- Do you perform any “flash” reporting during the reporting period? How?
- Who does the analysis? How long does it take? Do you sometimes wish you had access to information sooner?
- How is analysis on performance performed; that is, drilling down from high-level variances to underlying causes?
- Do you have defined KPIs and key metrics to measure success? Financial versus non-financial? Leading versus lagging indicators?
Overall, do you feel up-to-date on the state of the business? How would you like to improve it?

- What are some of your immediate monitoring needs?

---

### Analysis

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<tr>
<th>SCORECARDING, MONITORING AND ANALYSIS - ANALYSIS</th>
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</thead>
<tbody>
<tr>
<td><strong>QUESTION</strong></td>
</tr>
<tr>
<td>What type of system is your organization currently using for analysis?</td>
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<td>• ERP System</td>
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<td>• Point Applications</td>
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<tr>
<td>• Integrated EPM Suite</td>
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</tr>
<tr>
<td>• Spreadsheets</td>
</tr>
<tr>
<td>• Custom</td>
</tr>
<tr>
<td>What kinds of analysis do you need to perform?</td>
</tr>
<tr>
<td>• Financial</td>
</tr>
<tr>
<td>• Product Profitability</td>
</tr>
<tr>
<td>• Call Center Analysis</td>
</tr>
<tr>
<td>• Supply Chain Analysis</td>
</tr>
<tr>
<td>• Sales Analysis</td>
</tr>
<tr>
<td>• HR Analysis</td>
</tr>
<tr>
<td>• Marketing Analysis</td>
</tr>
</tbody>
</table>
- Others

- How satisfied are you with your current solution?

- How long has your current solution been in use?

- Are these applications deployed within the same country, multiple countries, same currency, or multiple currencies?

- How many users are accessing these applications?

- How frequent are most of your data loads?

- Which functions do you perform in your data loads, transfers, and transformations?

- How many sources are you accessing to get data?

- What analytic functionality do you need or wish you had?

- Do you understand variations and deviations in information?

- Would you like to have more insights into reported results?

- Do you wish you had more time to analyze information before reporting to managers or external analysts?

- Do you use the Web for users to access data?
Financial and Management Reporting

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE 1=VERY</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>• How happy are you with your ability to report on your plans/budgets?</td>
<td></td>
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<tr>
<td>• Can you easily look at variances for multiple years?</td>
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<tr>
<td>• Do you budget at a higher or lower detail than you perform reporting?</td>
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<tr>
<td>• Do you spend more time on the mechanics of budgeting and planning or on in-depth analysis?</td>
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</tr>
<tr>
<td>• Can you create integrated financial statements in your budgeting process like cash-flow statements and balance sheets? Would that be helpful?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• How can the process be improved?</td>
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<tr>
<td>• What are some of your immediate needs?</td>
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</tr>
</tbody>
</table>
- Do your analysts, internal auditors, or external auditors ever need to reconcile between your EPM systems and the source system from which the data originated? If so, how efficient is the process?

- Do you have confidence in the financial information generated by your existing EPM system? If not, what do you suspect is the source of that lack of confidence?

- Do you feel you have 100% transparency to the source data and any processes and individuals that may have “manipulated” said data?

---

**Financial Consolidation and Reporting**

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
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</thead>
<tbody>
<tr>
<td>What type of system is your enterprise currently using for your Reporting and Consolidation application?</td>
<td></td>
<td>1=VERY</td>
<td>✔️</td>
</tr>
<tr>
<td>ERP System</td>
<td></td>
<td>5= NOT AT ALL</td>
<td>✗</td>
</tr>
<tr>
<td>Point Applications</td>
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<td></td>
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</tr>
<tr>
<td>Integrated EPM Suite</td>
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<tr>
<td>BI Tools</td>
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<tr>
<td>Spreadsheets</td>
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<tr>
<td>Custom</td>
<td></td>
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</tbody>
</table>
How satisfied are you with your current Reporting/Consolidation solution

How long has your current solution been in use?

Rate the efficiency of your current process:
- What could be changed about the current process to make it more efficient?
- How long is the process to close the books and publish the numbers from your organization?

## Consolidation Process

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE 1=VERY 5= NOT AT ALL</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>How much time is spent on manual processes such as collecting data, re-keying data, and double-checking numbers?</td>
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<tr>
<td>Can you create integrated financial statements in your reporting process, such as like income statements, balance sheets, and cash-flow Statements?</td>
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<tr>
<td>From how many data sources do you need to consolidate? Which systems?</td>
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<tr>
<td>Can you easily access information from your ERP system? Is there often a bottleneck of requests?</td>
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<td></td>
</tr>
<tr>
<td>Question</td>
<td>Answer</td>
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<td></td>
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<tr>
<td>------------------------------------------------------------------------</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Do you trust the data being submitted by remote operations?</td>
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<tr>
<td>Do you sometimes get conflicting answers?</td>
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<tr>
<td>Do you have one version of the truth?</td>
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<tr>
<td>How do you handle currency conversions?</td>
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<tr>
<td>Do you have complex inter-company accounting?</td>
<td></td>
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<tr>
<td>Do you have any joint ventures or minority interests?</td>
<td></td>
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<tr>
<td>How easily can you integrate an organization post acquisition or merger?</td>
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<tr>
<td>Considering the number of systems your organization is using to collect and manage financial information, is it difficult to get pertinent and timely answers?</td>
<td></td>
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</tr>
<tr>
<td>Would your organization benefit from a common place to unify the financial information and other metrics?</td>
<td></td>
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</tr>
<tr>
<td>How satisfied are you with your current financial consolidation solution?</td>
<td></td>
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</tr>
</tbody>
</table>
Bi Tools & Bi Applications, Real-Time Monitoring

HR Analytics

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE 1=VERY 5= NOT AT ALL</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the YTD spend and % change from last year on each of your organization’s compensation components? (base, bonus, stock, etc)</td>
<td></td>
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</tr>
<tr>
<td>Are you maintaining a diverse workforce?</td>
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</tr>
<tr>
<td>Are you paying your employees competitively AND within the guidelines of your compensation committee?</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Are your best employees allocated to your critical lines of business?</td>
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</tr>
<tr>
<td>What is the direct fiscal impact of your HR organization?</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Have you differentiated the performance of your employees?</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Are you managing your compensation costs within budget?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Where are your potential retention problems?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- Are your recruiting activities effectively hiring high performance employees?
- Can you easily access line item details?
- Are you fully leveraging the investment and data generated by your HR and other systems?
- How much time and effort does your team spend creating custom HR or compliance reports, when they could be working on higher value-add activities?
- How much time and effort are you spending trying to maintain consistency of business definitions across multiple HR systems?

### Project Analytics

**BI TOOLS & BI APPLICATIONS, REAL-TIME MONITORING - PROJECT ANALYTICS**

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do you have adequate visibility across the entire lifecycle of your projects?</td>
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<tr>
<td>Have your customers paid you for the work done on your project?</td>
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<td></td>
</tr>
<tr>
<td>How do you track project performance? i.e., costs against cost budget? Revenue delivery?</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
- Can you track all costs, including all purchase orders and purchase requests, for each task on your project?

- How is your project progressing against the cost budget?

- How do you combine your estimate-at-completion metrics with inception-to-date metrics and compare to your project’s budget?

- What impact do your subcontractors/vendors have on the financial performance of your project?

- Can you track unbilled revenue for your projects? Can you identify which customer is responsible and which project or task is responsible?

- Can you track supplier/sub-contractor/vendor performance and their impact on the financial performance of a project?

- Are you fully leveraging the investment and data generated by your ERP and other systems?

- How much time and effort does your team spend creating custom reports, when they could be working on higher value-add activities?
### Procurement and Spend Analytics

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Do you have adequate visibility into your entire procure-to-pay process?</td>
<td></td>
<td>1=VERY</td>
<td>✓</td>
</tr>
<tr>
<td>• Do you know direct and indirect spend trends for each part of your business?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Can you identify and exploit opportunities to reduce costs and consolidate suppliers?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Do you know how well your strategic suppliers are contributing to supply line health?</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>• How well do you understand employee expense trends compared to budget?</td>
<td></td>
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<tr>
<td>• Are strategic contracts being utilized properly to get the best business value?</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>• Can you effectively monitor supplier quality and on-time delivery performance?</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>• How well can you monitor how spend is distributed across suppliers and contracts?</td>
<td></td>
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</tr>
<tr>
<td>• Do you know your top 10 suppliers by on-time, and your worst 10 suppliers by price variance?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Can you track your payment performance versus contract terms?</td>
<td></td>
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</tr>
</tbody>
</table>
- Do you have a complete picture of employee expenses?

- How much time and effort does your team spend creating custom reports, when they could be working on higher value-add activities?

- How much time and effort are you spending trying to maintain consistency of business definitions across multiple systems?

### Price Analytics

<table>
<thead>
<tr>
<th>BI TOOLS &amp; BI APPLICATIONS, REAL-TIME MONITORING - PRICE ANALYTICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUESTION</td>
</tr>
<tr>
<td>---------------------------------------------------------------</td>
</tr>
<tr>
<td>- What business initiatives do you have focused on improving pricing, revenue protection or improving margins?</td>
</tr>
<tr>
<td>- How have you tried to improve revenues and margins in an increasingly competitive environment?</td>
</tr>
<tr>
<td>- Do you have different quoting and order management systems, through acquisitions or otherwise, making it difficult to get a single “transactional” picture of price?</td>
</tr>
<tr>
<td>- How reactive is your organization with price at deal time, especially towards the end of the quarter?</td>
</tr>
<tr>
<td>Question</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>How do you reign in and also enable a “maverick sales force”?</td>
</tr>
<tr>
<td>How do you currently obtain a global view of the business across product lines and/or regions, and improve their business agility.</td>
</tr>
<tr>
<td>What information do you have access to in order to better understand how to best position the pricing of products and product portfolios?</td>
</tr>
<tr>
<td>What visibility does your organization have into trade promotions, marketing allowance and other discounting programs?</td>
</tr>
<tr>
<td>To what degree are your organizations reliant on spreadsheets for pricing analysis, pricing strategies and tactics, and discounting programs?</td>
</tr>
<tr>
<td>How well do you do “value-add/relationship pricing” compared to others in your industry?</td>
</tr>
<tr>
<td>How well do you do “transactional/spot pricing” compared to others in your industry?</td>
</tr>
<tr>
<td>To what degree are your organizations reliant on spreadsheets for pricing analysis, pricing strategies and tactics, and discounting?</td>
</tr>
</tbody>
</table>
## Financial Analytics

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>• How well are you able to track the financial performance of your business, across functions, product and service lines and geographies?</td>
<td></td>
<td>1=VERY</td>
<td>✓</td>
</tr>
<tr>
<td>• How well can you identify financial performance gaps and take action in time to affect results?</td>
<td></td>
<td>5= NOT AT ALL</td>
<td>✗</td>
</tr>
<tr>
<td>• Do you have a single, accurate view of financial information across all functions and data sources?</td>
<td></td>
<td></td>
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<tr>
<td>• Do you have adequate daily updates on cash flow, payables, receivables, budget vs. actual?</td>
<td></td>
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<tr>
<td>• Are you able to generate periodic financial statements and reports, and get early notification of material events?</td>
<td></td>
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</tr>
<tr>
<td>• How well can you identify overdue balances and receivables bottlenecks?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Are you spending lots of time collecting and organizing data rather than analyzing it?</td>
<td></td>
<td></td>
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<tr>
<td>• Non-Finance Functions – how well can you see the financial information that you need?</td>
<td></td>
<td></td>
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<tr>
<td>• Are you fully leveraging the investment and data generated by your ERP and other</td>
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</tbody>
</table>

**BI TOOLS & BI APPLICATIONS, REAL-TIME MONITORING - PRICE ANALYTICS**
systems?

- How much time and effort does your team spend creating custom reports, when they could be working on higher value-add activities?

- How much time and effort are you spending trying to maintain consistency of business definitions across multiple systems?

### Loyalty Analytics

**BI TOOLS & BI APPLICATIONS, REAL-TIME MONITORING - LOYALTY ANALYTICS**

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>How do you measure trend in customer loyalty over a period of time?</td>
<td></td>
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<tr>
<td>- What are the levers of customer loyalty in your business?</td>
<td></td>
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<tr>
<td>- Why do customers defect in your industry?</td>
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<tr>
<td>- How do you measure effectiveness of your Loyalty Program?</td>
<td></td>
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<tr>
<td>Are you able to measure ROI on your program investment?</td>
<td></td>
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<tr>
<td>How do you leverage your loyalty program in driving your customer strategy?</td>
<td></td>
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<tr>
<td>How do you measure effectiveness of promotion in driving profitable customer behavior?</td>
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</tbody>
</table>

**IMPORTANCE**

1=VERY
5= NOT AT ALL

**CHECK**

✓
<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
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<tbody>
<tr>
<td>How do you decide your target audience for promotions?</td>
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<tr>
<td>How do you relate sales lift to loyalty promotions?</td>
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<tr>
<td>How do you track membership lifecycle?</td>
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<tr>
<td>How do you track customer behavior (especially of your high value customers) or identify churn risk?</td>
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<tr>
<td>How do you measure profitability of partners?</td>
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<tr>
<td>How do you measure popularity of partners?</td>
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<tr>
<td>How do you manage financial transactions (billing, invoicing, etc.) with partners?</td>
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<tr>
<td>Are you able to measure both the revenue, cost and point liability associated with each partner?</td>
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<tr>
<td>What do you measure overall effectiveness of partners?</td>
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</table>

### Supply Chain and Order Management Analytics

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<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
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<tbody>
<tr>
<td>What is the order to ship cycle for your top products?</td>
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<tr>
<td>Question</td>
<td>Answer</td>
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<td>-------------------------------------------------------------------------</td>
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<tr>
<td>What type of operational backlog is the largest?</td>
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<tr>
<td>How much revenue was lost due to order cancellations or returns?</td>
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<tr>
<td>What are the top reasons for cancellations?</td>
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<tr>
<td>Which of the top customers have unfulfilled orders?</td>
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<tr>
<td>What products has this customer purchased from us in the past?</td>
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</tr>
<tr>
<td>What inventory do you have available for sale at each location?</td>
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<tr>
<td>Do you have enough finished goods to fill your booked orders?</td>
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<tr>
<td>What products are experiencing lower inventory turns than last quarter?</td>
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<tr>
<td>What is the overall status of your on-hand inventory, finished goods, and WIP?</td>
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<tr>
<td>Are you fully leveraging the investment and data generated by your ERP and other systems?</td>
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<tr>
<td>How much time and effort does your team spend creating custom reports, when they could be working on higher value-add activities?</td>
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</tr>
<tr>
<td>How much time and effort are you spending trying to maintain consistency of business definitions across multiple systems?</td>
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</table>
Sales Analytics

<table>
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<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
</table>
| Do you know what your win/loss trend is against your key competitors? | | 1=VERY | |}
| Is your overall pipeline healthy enough to meet sales objectives? | | 5= NOT AT ALL | |}
| What is the trend in your average sales cycle length? | | | |}
| What are the top reasons that sales opportunities are not moving through your pipeline? | | | |}
| How do you know if your sales force is adhering to best practices within the sales cycle? | | | |}
| What are your top stalled opportunities and what is the associated revenue exposure? | | | |}
| How does your current sales forecast compare with your pipeline? | | | |}
| How do you determine opportunity revenue by sales stage for each of your sales reps? | | | |}
| Are you able to triangulate your sales forecasts? How do you accomplish this? | | | |}
| How do you do “White Space” analysis and determine sales potential within your install base? | | | |}
• What are the candidates for up/cross-sell within your key accounts?

• How do you ensure the accuracy of the forecasts you submit to management?

• What are the top 3 metrics you need to know to better manage your business?

Service and Contact Center Analytics

| BI TOOLS & BI APPLICATIONS, REAL-TIME MONITORING - SERVICE AND CONTACT CENTER ANALYTICS |
|-------------------------------------|------------------|-----------------|
| QUESTION                           | NOTES            | IMPORTANCE      |
|                                    |                  | 1=VERY 5= NOT AT ALL | CHECK |
| • How do you segment and service profitable customers within the contact center? |                  |                 | ✓     |
| • What processes are in place to profile your unprofitable customers and make them profitable? |                  |                 |       |
| • How do you control staffing costs without having a negative affect on customer satisfaction? |                  |                 |       |
| • What is the correct balance of support for the IVR versus a live call agent? |                  |                 |       |
| • How do you plan for staffing levels in relation to contact volumes? |                  |                 |       |
| • What are the processes to ensure that the best qualified agent is handling the correct call? |                  |                 |       |
What affect does agent training and turnover have on your customer satisfaction levels?

Are customers satisfied with the level of service you are providing, and are service issues being brought to resolution in a timely manner?

What causes your average call handling time to go up?

What are the key metrics that you need to know to better service your customers?

What can you do to influence your one-and-done rate?

What techniques do you use to cross/up-sell a customer?

### Marketing Analytics

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE</th>
<th>CHECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>How do you determine how effectively the marketing budget is being consumed?</td>
<td></td>
<td>1=VERY</td>
<td>✔</td>
</tr>
<tr>
<td>How do you determine the allocation of marketing budget resources to generate the best results?</td>
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<td>5= NOT AT ALL</td>
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<tr>
<td>What areas or programs in your marketing</td>
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Marketing Analytics Challenges

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<tr>
<th>BI TOOLS &amp; BI APPLICATIONS, REAL-TIME MONITORING - MARKETING ANALYTICS</th>
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<tbody>
<tr>
<td>QUESTION</td>
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<tr>
<td>How do you determine how effectively the marketing budget is being consumed?</td>
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<tr>
<td>What marketing campaigns or treatments have historically yielded the best results?</td>
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<tr>
<td>What customer segments are unprofitable and why?</td>
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<tr>
<td>What is your most profitable acquisition method and are you leveraging it efficiently?</td>
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<tr>
<td>What trade shows or other marketing events generate a positive ROI?</td>
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<tr>
<td>How much revenue increase do you see through cross-sell/up selling? What could you be doing to increase it?</td>
</tr>
<tr>
<td>What types of promotions generate the most revenue lift? How do you replicate it to other areas?</td>
</tr>
<tr>
<td>Do you find that purchased lists perform better than in-house lists? If yes, why?</td>
</tr>
<tr>
<td>How do marketing leads flow to the sales organization and are they being picked up in a timely manner?</td>
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<tr>
<td>What marketing campaigns generate the most qualified leads?</td>
</tr>
<tr>
<td>What types or programs or campaigns yield the highest response rates?</td>
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OLAP, Data Warehouse, Data Mining

**OLAP**

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<tr>
<th>QUESTION</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>• How do you segment and service profitable customers within the contact center?</td>
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<td>1=VERY</td>
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<tr>
<td>• What processes are in place to profile your unprofitable customers and make them profitable?</td>
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<td>5= NOT AT ALL</td>
<td>✗</td>
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<tr>
<td>• How do you control staffing costs without having a negative affect on customer satisfaction?</td>
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<tr>
<td>• What is the correct balance of support for the IVR versus a live call agent?</td>
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<tr>
<td>• How do you plan for staffing levels in relation to contact volumes?</td>
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<tr>
<td>• What are the processes to ensure that the best qualified agent is handling the correct call?</td>
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<tr>
<td>• What affect does agent training and turnover have on your customer satisfaction levels?</td>
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<tr>
<td>• Are customers satisfied with the level of service you are providing, and are service issues being brought to resolution in a timely manner?</td>
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</table>
What causes your average call handling time to go up?

What are the key metrics that you need to know to better service your customers?

What can you do to influence your one-and-done rate?

What techniques do you use to cross/up-sell a customer?

### Marketing Analytics

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<thead>
<tr>
<th>OLAP, DATA WAREHOUSE, DATA MINING - MARKETING ANALYTICS</th>
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<tbody>
<tr>
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<tr>
<td>▪ How do you determine how effectively the marketing budget is being consumed?</td>
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<td>▪ How do you determine the allocation of marketing budget resources to generate the best results?</td>
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<tr>
<td>▪ What areas or programs in your marketing plan are trending to go over budget?</td>
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<td>▪ What marketing campaigns or treatments have historically yielded the best results?</td>
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OLAP

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<tr>
<td>What are some of your immediate reporting and analysis needs?</td>
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<tr>
<td>How quickly can you respond to user requests for new reports or views of information?</td>
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<td>✗</td>
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<tr>
<td>Question</td>
<td>Answer</td>
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<td>------------------------------------------------------------------------</td>
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<td></td>
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<tr>
<td>Do you wish you had more time to analyze information?</td>
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<tr>
<td>Do you have a common point of truth for your shared financial information? If so, how accessible is the information?</td>
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<tr>
<td>Are there several disparate data sources required for an enterprise view of a subject area; i.e. product profitability?</td>
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<tr>
<td>Do your business analysts use spreadsheets to create their own analytic views or standard reports?</td>
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<tr>
<td>How often do you find errors in the spreadsheets?</td>
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<tr>
<td>What impact have these spreadsheet errors had on your business?</td>
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<tr>
<td>Do you find that information does not come quickly enough for timely action?</td>
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<tr>
<td>Does executive management feel that reporting and analysis could be improved?</td>
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<tr>
<td>How often do your analysts perform what-if scenarios? What do you use to facilitate this process?</td>
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<tr>
<td>How many spreadsheets are used for critical business information or standard reporting today?</td>
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<tr>
<td>Are many of your workbooks filled with spreadsheets that look alike, save the header or point-of-view information?</td>
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<tr>
<td>How are you integrating standard data with</td>
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<tr>
<td>Excel today? Copy / paste? Re-key?</td>
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<tr>
<td>Do you rely too heavily on your experienced or “power” Excel users because they have created spreadsheet-based information “systems”?</td>
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<tr>
<td>Do you have the ability to move from summary to detail, regardless of data source, easily?</td>
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<tr>
<td>Do you view your business dimensionally; i.e. do you break down business perspectives such as customer, product, time, etc.</td>
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<tr>
<td>How much do you spend maintaining multiple BI technologies?</td>
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<tr>
<td>What modeling tools are used by business analysts in finance? Sales Ops? Marketing Ops? Supply Chain? Product Management?</td>
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<tr>
<td>Are users challenged by query performance?</td>
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<tr>
<td>Do users ask for more ad hoc analysis capabilities?</td>
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<tr>
<td>Does your IT staff experience an excessive level of user requests for new queries, new reports, and better performance?</td>
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**Data Warehousing – Lines of Business**

<table>
<thead>
<tr>
<th>QUESTION</th>
<th>NOTES</th>
<th>IMPORTANCE 1=VERY 5= NOT AT ALL</th>
<th>CHECK</th>
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<tbody>
<tr>
<td>• Do you trust the data you are using to make decisions?</td>
<td></td>
<td></td>
<td>✔</td>
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<tr>
<td>• Do you get decision-making data/information on a timely basis?</td>
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<tr>
<td>• How much time do you spend manually consolidating information for decision making?</td>
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<tr>
<td>• Do you have one common corporate set of metrics and KPIs, across all your information systems?</td>
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<tr>
<td>• Can you share performance information consistently with colleagues in other parts of the organization?</td>
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<tr>
<td>• If your data warehouse is strategic to your business, what would be the impact of unplanned ‘downtime’?</td>
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**Data Warehousing – Information Technology**

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</table>
- What's your DW strategy? How many DWs do you have?

- Can you provide one consistent view of KPIs and metrics across all your Data Marts or Data Warehouses?

- Are you confident that your current DW solution can keep pace with business change? New analytic requirements? More users? More data volume?

- Are you confident that your current DW architecture is flexible enough?

- How quickly can you deliver against new BI & DW business requirements?

- Is your current BI “self-service/low-cost,” or do you spend a lot of resources on training and support?

- Can you secure sensitive information used for decision-making? Can you be sure that access can be controlled appropriately?

---

### Data Integration, App Management & Master Data Management

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<th>QUESTION</th>
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<tbody>
<tr>
<td>Do you have unexplained reporting inconsistencies requiring complex reconciliation?</td>
<td></td>
<td>1=VERY</td>
<td>✓</td>
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</table>
1. How are your enterprise dimensions and hierarchies managed today? In scattered silos? Centrally? Distributed?

2. What systems are being used to manage elements of your enterprise dimensions?
   - E-mail
   - Spreadsheets
   - ERP System
   - Data warehouses
   - Data marts
   - BI Tools
   - Financial, Reporting, Analytical Applications
   - Custom

3. Do you have multiple ERP, GLs, legacy systems, data warehouses, data marts, financial, reporting, and analytical applications sharing dimensions and hierarchies?

4. How many of these systems require common hierarchies?

5. Can you identify points of consistency between various purpose-built, alternate hierarchies for one dimension? For example, regulatory versus external financial reporting structures?

6. What workflow processes are in place to ensure that your enterprise dimensions are aligned across dimensions?

7. How do you manage dimensions across ERPs and other systems?
- How big are your largest dimensions?
- Does your organization acquire other companies often?
- Does your organization experience reorganizations?
  - How frequently?
  - How long does it take to propagate changes to all systems?
  - Is the process efficient, is it accurate, or is significant reconciliation effort required?
- What volume of changes do you make to your hierarchies on a monthly basis for maintenance and during reorganizations of the company?
- What is the most challenging part of managing change in your dimensions?
- For migrations, how will you manage common dimensions?

How are you managing enterprise dimensions today?
- What is your current process? (Describe or draw out the steps)
- How long does this process take (from initial request to final implementation)?
- How many people are required?
- How many staff hours do you estimate that it takes per month?
- Are business users involved in this process?
- Are you able to track the W’s of this change
process (who, what, when) for audit and compliance purposes and standards?

- Do you have plans to streamline this process? How would you like to improve it?

## Data Integration

**DATA INTEGRATION, APPLICATION MANAGEMENT & MASTER DATA MANAGEMENT – DATA INTEGRATION**

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<td>1=VERY</td>
<td>5= NOT AT ALL</td>
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- Is the quality of data a concern for you?

- Do you have issues pertaining to data being loaded from multiple locations through multiple sources by multiple people?

- Do you spend time fixing errors caused by bad data input?

- Is the data collection process consistent, complete, and repeatable throughout the enterprise?

- Do people follow standard rules?

- Do you have data-mapping issues?

- Do you have complete auditability and accountability?

- By whom do you want the data collection, reconciliation, and entry process to be
<table>
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<th>managed?</th>
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<tbody>
<tr>
<td>What methods do you employ to collect data?</td>
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<tr>
<td>Does the current method provide visibility into the source data and transformation process?</td>
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<tr>
<td>How do you audit from aggregated numbers in an analytical application down to the source GL trial balance?</td>
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<tr>
<td>How do you answer questions?</td>
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<tr>
<td>How do you investigate problems?</td>
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<tr>
<td>How do you prove out balances?</td>
</tr>
<tr>
<td>If required to comply with Sarbanes-Oxley/Basil II/IFRS regulation, how do monitor your 302 and 404 processes? Are these processes integrated with your financial close process?</td>
</tr>
<tr>
<td>Are users who own the operating data held accountable for the data submission and quality validation process, leaving corporate resources to focus on value-added analysis and reporting rather than on data collection and validation?</td>
</tr>
<tr>
<td>Who is involved in the data collection process?</td>
</tr>
<tr>
<td>What events in your transactional system could trigger the integrations?</td>
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<tr>
<td>Where are data quality issues addressed, in the integrations or in the source systems?</td>
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<tr>
<td>Question</td>
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<tr>
<td>What workflow is necessary to feed data to the target systems?</td>
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<tr>
<td>What level of documentation should be provided to users?</td>
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<tr>
<td>Who maintains the integrity of the data and the metadata of those planning models?</td>
</tr>
<tr>
<td>Is there a formal, periodic upgrade process that reviews the efficiency and quality of the financial models used?</td>
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<tr>
<td>What kind of technology infrastructure does your company have right now?</td>
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<tr>
<td>What are the most important trends in terms of the company IT infrastructure currently?</td>
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<tr>
<td>How much time is spent in non-value-added activities, such as creating custom-built import and export routines?</td>
</tr>
<tr>
<td>Are you leveraging the implementation of your ERP for your planning process?</td>
</tr>
<tr>
<td>How many operating systems do you need to collect data from to feed into your EPM applications?</td>
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<tr>
<td>Are data quality management methods employed? What are they?</td>
</tr>
<tr>
<td>Is the data collection process integrated with the organization’s compliance control procedures?</td>
</tr>
<tr>
<td>Is the existing data collection and transformation process fully documented with adequate controls?</td>
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This self-evaluation should demonstrate where you believe you are excelling, where you might improve, and where you need immediate assistance.
Evaluating Current Systems and Future Needs

Each Management Excellence capability, although integrated in a best practices environment, can be evaluated individually. Consider using the following set of key questions to assist you in the evaluation of your current environment. Use these questions to determine what you may need to add to your Management Excellence environment in the future, and to help improve and fill important gaps in your Management Excellence system.

The capabilities can be separated and combined as needed for each organization. For the purposes of this guide, they are categorized as follows:

- External Reporting
- Strategic & Predictive Modeling
- Integrated Business Planning
- Profitability & Cost Management
- Scorecarding, Monitoring & Analysis
- Financial & Management Reporting
- BI Tools & BI Applications, Real-Time Monitoring
- OLAP, Data Warehouse, Data Mining
- Data Integration, Application Management & Master Data Management

Let’s examine each fundamental capability and a set of key questions in more detail. Keep in mind that the set of questions presented is not exhaustive, and consideration for each organization and its specific needs should be taken.
External Reporting

Financial Consolidation and Compliance

Financial Consolidation can be defined as the process of consuming data from different financial systems and entities combining that information through aggregation to create financial analytic views and comprehensive financial statements, which are compliant with accounting and financial reporting standards.

Currently, organizations accomplish this task through methods including everything from purpose-built Excel templates, mainframe consolidation systems, and ERP systems, to comprehensive consolidation and report packages.

The enforcement of Sarbanes-Oxley regulations and IFRS (International Financial Reporting Standards) are driving change rapidly in this area. The demand for transparency, auditability, and specific information processing are calling for more cautious choices around consolidation applications.

Consider the following questions when evaluating your system or when evaluating the purchase of one:

Organizations

- Can organizations be created and maintained in the system in a hierarchical (tree) structure so it can be easily understood and facilitate easy selection by the users and result in automatic drill down capability?
- Is the number of levels (layers) in the hierarchy limited?
- Can each branch of a hierarchy have a different number of layers, or must they all be the same depth?
• Can an unlimited number of alternate hierarchies of your organization (Legal, Management, Geographic, Tax, What If, and so on) be maintained without loading data twice or copying data to and from different areas in the system?

• Does all data consolidate to a single entity or just the top-level entities, or do you require comprehensive consolidated levels across the organization?

• Can currencies be assigned to each entity for foreign exchange translation to happen automatically and follow standard accounting practices in the system without customization?

• Can specific entities be graphically designated as valid for inter-company activity? Can accounts be graphically designated as valid for inter-company activity and automatically matched in the system without building or hard-coding system logic?

• Can an ownership percentage for less than 100% owned subs be assigned to properly consolidate without having to change system logic or hard-code values or entities after every change?

• Can organization structures that change by scenarios and by time periods be handled in the system?

• Can the system handle the need to measure separate accounts by different measures (for example, Sales by Product and Headcount by Job Grade) and without having to redefine the intersections of separate dimensions with business rules or complex system maintenance?

• Can the system automatically calculate appropriate consolidation methods, such as minority interest consolidations or associates consolidations?

• Can the consolidation of entities create automatic adjustments based on the ownership parameters?

Accounts

• Does the system have out-of-the-box account intelligence? Can accounts be designated as Income, Expense, Asset, Liability, Flow, Balance, and so on, and have the system recognize the account type throughout (for example, no subtotaling logic, dynamic financially intelligent variance reporting)?

• Does the system enable graphical setup, and does it support/handle account intelligence and exchange rate types to properly translate different accounts at their appropriate rates (for
example, Closing Rate for Balance Sheet account types and Average Rate for Income Statement account types)?

- Can the chart of accounts be created and maintained in a hierarchical (tree) structure so it can be easily understood, facilitate easy selection by users, and result in automatic drill-down capability? Is system logic for subtotalling required for accounts?

- Is the number of account hierarchy levels (layers) limited?

- Can each branch of the account hierarchy have a different number of layers, or must they be the same depth?

- Can alternate roll-ups of the account structure be created so that, for instance, Corporate Income Statement as well as a Divisional Income Statements could be handled uniquely within one system?

- Can non-financial (statistical) as well as financial accounts be maintained? Can system rules be applied to non-financial accounts for assistance in reporting and calculations or forecasting drivers?

- Can inter-company accounts be created graphically, including the system rules for defining matching accounts?

- Can accounts that are calculated and accounts that should not consolidate be graphically maintained in the system?

- Can accounts be set up in the system so that a user can add or load free-form line items, such as other expenses (for example, enabling each entity to add their unique line items that add up to the other expense total)?

- Can accounts be created that are associated with calculations that operate differently based on YTD or periodic views?

**Dimensionality**

- Can dimensions be created and maintained in a hierarchical (tree) structure so that it can be understood and facilitate easy selection by the users and result in automatic drill-down capability?

- Is the number of levels (layers) in any dimension hierarchy limited?
• Can each branch of a hierarchy have a different number of layers, or must they be the same depth?
• Can unlimited alternate hierarchies within a dimension be created?
• Can specific dimensional detail be assigned to specific accounts, or when you add a dimension, is it automatically assigned to all accounts?
• What must be done to limit the use of a dimension by an account? For example, Product and Customer dimensions that were added should be valid only for Sales and Cost of Sales accounts.
• Can detail be assigned specifically to these accounts?
• What are the system performance considerations for adding dimensions and limiting their use?
• What are the user considerations when adding dimensions?
• Are dimensions reusable so that multiple nodes of detail can be handled in a single dimension, but the appropriate node is assigned to the appropriate account?

Foreign Currency Translation

Can all the currencies that you will need for translation, including average, month end, historical, special, override rates, and so on, be defined within the system and dynamically utilized?
• Can monthly currency rates be loaded automatically from another system?
• Can exchange rates be maintained differently by scenarios and time periods?
• Can default translations be easily overridden using either override currency rates or historic currency values?
• Does the Currency Translation Adjustment calculate automatically during consolidation and will it flow to the proper account (Income Statement or Balance Sheet) for hyperinflationary versus non-hyperinflationary locations?
• Can default parameters be defined graphically for currency translation, such as all Income Statement type accounts using the Average Rate and all Balance Sheet type accounts using the Closing Rate? Does a calculation have to be created in the system for each account to handle translation dynamically?
• Can both hyperinflationary and non-hyperinflationary entities be handled easily?
• Can entities be easily changed from hyperinflationary to non-hyperinflationary and from non-hyperinflationary to hyperinflationary?
• Can any entity be translated into any currency in the system on the fly without having to create additional calculations to properly handle foreign exchange?

Inter-Company Eliminations
• Can inter-company accounts and matching accounts be graphically defined?
• Can inter-company matching be defined as many to many, many to one, one to many, one to none, and so on in the inter-company matching group?
• Is an inter-company matching report created for inter-company reconciliations?
• Do calculations for inter-company eliminations have to be created in system logic, or does the system handle them automatically during the consolidation process based on the account and organization setup?
• Are the inter-company eliminations in alternate organization hierarchies calculated automatically?
• If organizational hierarchies are changed and reconsolidated, will the inter-company eliminations be properly restated automatically? Can all history and other scenarios be restated automatically as well?
• Are the eliminated values stored so that you can view and report on them?
• Is there full audit trail visibility into the elimination detail so that users can see exactly where the eliminated values came from?

Adjustments
• Is there a Journal Entry capability for users to create audited adjustments?
• Can adjustments be made between balance sheet and income statement accounts?
• Can statistical adjustments be made in voucher format?
• Can it be required that adjustments be reviewed before being posted?
• Can journal templates be created to be used for creating journals?
• Can auto-reversing journals be created?
• Can recurring journals be created so that identical journals are automatically created each month?
• Is there a journal reporting capability?
• Can journals be exported to a general ledger or other source system?

Time
• Does the system have out-of-the-box time intelligence?
• Does the system have multiple frequencies: Periodic, QTD, HTD, YTD? How are these frequencies achieved? Any setup or coding required?
• Can the system handle the loading of data in one frequency and automatically derive the others, or must a calculation be created?
• Are time periods in the system automatically linked? Can you take advantage of dynamic functions to get prior, future or relative period values without writing complex rules or hard-coding values; for example, Current Period Opening Balance = Prior Period Closing Balance (and across years dynamically)?
• Are years automatically linked? Can you take advantage of dynamic functions to get prior year values, such as in cash-flow calculations without writing complex rules or hard-coding values; for example, Cash Change in AR = Prior Year Closing Balance - Current Period Balance?

Scenarios
• Does the system enable users to create an unlimited number of scenarios, such as Actual, BudgetV1, BudgetV2…., JanFct, FebFct….?  
• Can data easily be copied between scenarios within the system?
• Can modeling or what-if scenarios be created in the system that use different business rules and rates, such as Actual at Budget, Budget at Actual, Actual at Forecast, Actual at Standard, and so on, so that operational and foreign exchange variance analyses can be performed easily?
• Can modeling scenarios be created in the system that use driver-based calculations to project future values and have them separate from as-reported numbers?

**Microsoft Office**

• Can data be exported to Excel?
• Is data exported to Excel dynamically with the underlying database?
• Can data be pulled to Excel through the use of a formula?
• Can Excel Pivot tables that are a live link to the underlying data be created?
• Can the current calculation state of the data be viewed in Excel?
• Can the current Review state of the data be viewed in Excel?
• Can server-side calculations, such as consolidation, be launched/executed in Excel?
• Can textual commentary be entered for numbers in Excel and submitted to the database?
• Can formatted reports be imported into Excel without losing formatting?
• Can imported reports be dynamic with the underlying data?
• Can data, charts, and other data representations be imported into PowerPoint?
• Can data representations imported into PowerPoint be refreshed with current data?
• Can a reporting pack created in PowerPoint one month be automatically updated the following month by changing only the period parameter?
• Can formatted data-entry templates be imported into Excel and used offline?
• Can supplementary Excel schedules be imported into the system and attached as supporting documentation to numbers?
• Can Microsoft Word commentary be attached to data?
• Can the attached Word commentary be viewed in the reporting mechanism?

• Can access to applications and application data be associated with Microsoft Office Smart Tags?
• Which technology is used for the Excel Add In? ActiveX? Other?
• What is required to install user functionality at the Excel client?
• When in Excel are calculations performed locally on the desktop or on the server?
• How large is the installation routine on the client machine?

Technology
• How does the system scale?
• At what level of the system architecture is hardware added to achieve the scalability?
• Where are the potential bottlenecks for multi-user activity?
• What third-party benchmarks are available on the scalability of your system?
• Which components of the system are most heavily tasked by heavy user activity?
  • The desktop?
  • The Web server?
  • The database?
  • The application server?
• At what level of customer usage does each of the components hit a bottleneck?
• How is this bottleneck overcome?

Other
• Is all data loaded, consolidated, and viewed/reported from the same database?
• Is graphical analytics enabled on live data, or must the data be exported to another mechanism?
• Where are calculations (returns, ratios, cash flow, allocations, etc.) being calculated? In the database? In the report?
• Can data be directly integrated from multiple-source systems into the application easily without having to create extract files and then load them?
• Can remote sites enter their own data file and consolidate their branch of the organization, or does this require some batch processing? Can this be done through the Web?
• Does the system have process management capability so that, as data is loaded, it must pass validation checks (out of balance, roll forwards, and so on) before it is flagged as submitted? This includes requirements for further signoffs and approval, with a complete audit trail before it is considered published. Can this functionality be integrated with security to ensure that information-consumers see only published numbers and that numbers signed off on are not then changed by the user?

• Does the system have alerting capability to notify users of key criteria triggers, such as an out-of-balance condition or variances to budget/thresholds?

• Can the solution support global compliance initiatives, such as Sarbanes-Oxley, IAS, IFRS 2005?

• Can users easily see the status of data in the system, such as no data, changed, needs consolidation?

• Is the system easily linked to other applications in your EPM environment?

Reporting

• What reporting options are available (Production Report Writer, Graphical Analyzer, Excel, and so on)? Are they desktop or Web-based without “publishing” content?

• Can ad-hoc type analysis be done graphically on the Web (for example, slice and dice dimensions, drill down, define calculations, and so on)?

• Can formatted production reporting be handled within the system (month-end statements)? Can these production reports be scheduled to be sent in PDF to information consumers by e-mail or printed to the printer overnight out-of-the-box?

• Are reports dynamic so that a single report format can be created and all users can run it for their business unit dynamically?

• Can charts and organization logos be added to reports?

• How are reports created (for example, is it coding or is it drag and drop)?

• Can users create reports that include embedded functions to automatically add hierarchy members to reports as the system structures change (for example, when an account is added in the system, do users need to change every report)?
• Do built-in functions exist to handle Better/Worse Variance without writing cell-level logic to create proper account variance; for example, Sales greater than budget is a positive variance, but Cost of Sales greater than budget is a negative variance?

• Can conditional formatting be done on reports (for example, if a number is above a threshold, show it in red and bold on the report)?

• Can report sections be linked? For example, a common row or column layout that is to be used in multiple reports must be created and maintained only in one place. Every time the template is updated, all reports linked to it are automatically updated.

• Can report sections and data be linked so that one piece of a report can be linked to other reports and pass criteria, such as the current reporting entity of account for analysis (for example, linking and drill-down)? Is this process graphical?

• Can a dynamic consolidating report be created so that a user can see all detail of the consolidation based on the business unit being reported?

• Can books of reports be created (Blue Book, Controller’s Book, etc.)?

• Are books of reports dynamic, so that if a new business unit is added, the book will automatically produce statements for the new unit without any maintenance?

• Can users view reports through a browser without any vendor software installed on their workstation?

• Does the report writer support XBRL (Extensible Enterprise Reporting Language) to easily create an XBRL extract for filing with external stakeholders (SEC, EDGAR, etc.)?

• How is graphical analysis performed on the Web (for example, Dashboard, calculations, creating custom views graphically, and so on)? How are these views created by users?

Strategic & Predictive Modeling

Corporate Development

• Can you build separate models for acquisitions or internal development projects?

• Can you run scenarios with these models, such as layering on synergies or determining the valuation impact of changing the cost of capital or multiple used?
Can these models be easily consolidated into the strategic plan, even if account and reporting structures are different? Can the consolidation automatically reflect purchase accounting rules?

Is there an option to include or exclude these models into separate scenarios within the strategic plan?

Can you quickly change the deal date and automatically capture the proper reporting effects on cash flows and valuation?

Foreign Currency Translation

Can all the currencies that you will need for translation, including average, month-end, historical, special, override rates, and so on, be defined within the system and dynamically utilized?

Can monthly currency rates be automatically loaded from another system?

Can exchange rates be maintained differently by scenarios and time periods?

Can default translations easily be overridden using either override currency rates or historic currency values?

How does your software support currency translation in a hyper-inflationary economy?

Can any entity be translated into any currency in the system on the fly without having to create additional calculations to properly handle foreign exchange, and so on?

Integrated Business Planning

Planning & Budgeting

The budget of an organization is compiled annually. A finished budget usually requires considerable effort and can be seen as a financial plan for the new financial year. While traditionally the Finance department compiles the organization’s budget, modern software enables hundreds or even thousands of people in the various departments (operations, human resources, IT, and so on) to contribute their expected revenues and expenses to the final budget.
When actual results are communicated to the outside community, they should be in close alignment with the guidance and projections that were provided from using the annual budgeting and monthly forecasting processes. When projections are not met, the outside community may perceive this as a negative indicator that you do not have “control” of your business, and your stock share price could suffer.

The strategic plan of an organization is updated and finalized before the annual budget cycle to establish the strategic direction and generate high-level targets. These targets are the basis of the annual budget process and can be allocated down to lower levels of the organization. The strategic plan is continually adjusted throughout the year to analyze changing economic conditions, new investment, acquisitions, and any other strategic decisions as they arise. A flexible modeling tool for strategic planning provides an organization with the ability to quickly adapt to a changing environment and make sound decisions based on the most up-to-date information.

Consider the following questions when evaluating your financial budgeting and planning system, or when evaluating the purchase of one:

**Product Architecture**

- Describe the architecture of your financial budgeting and strategic planning solution, including the technologies used and the industry standards employed and supported.
- What are the system requirements (hardware and additional software needed) for the solution?
- Does the solution enable access to large numbers of multiple concurrent users?
- Is the solution a centralized one that is accessible for input and for review by various users?
- Is your solution Web-architected? Does it have a thin-client interface?
- Does your financial budgeting and strategic planning solution integrate with other EPM modules?
- Does your solution offer direct links to ERP solutions?
- Describe your types of protection for applications; for example, firewalls and protocols.
Administration

- Is your tool accessible to worldwide locations?
- Can remote sites perform data entry, reporting, and analysis over the Web?
- What other Web capabilities does the solution offer; for example, process management?
- Does your solution enable data-entry form creation and data entry and review?
- Can you provide an out-of-the-box financial budgeting and strategic planning solution?
- Is your financial budgeting solution easy to maintain?
- Can applications be updated easily when organizational changes occur?
- Can you lock out users for system maintenance?
- Can the administrator see users connected to the application?
- Can the administrator disconnect users from the application?
- Can the administrator send messages to users connected to the application?
- Describe the application’s ability to handle data reconciliation and validation.
- How is security handled? What are the different types of access rights?
- Can different user profiles be set up? Is security user- or group-based?
- Can messages be broadcast to users?
- Can security be imported and exported between applications?
- Are backup and recovery provided?
- Describe the audit features available for data and application changes.
- Can historical data be retained? Is archived data readily accessible to users?

Web Functionality

- Is your product Web-based? Does it offer server-based application functionality (thin client)?
- Can you customize the home page?
- Can you customize the look and feel of the interface?
Integration and Linking to other Tools

- Does your solution integrate with external source systems and leading ERP/CRM systems; that is, Oracle, ADP’s HR/Payroll or other Oracle products?
- Does your solution integrate with Microsoft Office products?
- Can data be directly and easily integrated from the multiple source systems into the application? Are mapping tools provided?
- Can errors be tracked during data loads?
- Do e-mail capabilities exist?
- Do alerting capabilities exist?

Forecasting and Strategic Planning

- Can forecasts be built and viewed across multiple dimensions; for example, legal entity, customer, product, geography, management unit?
- Does your tool include robust out-of-the-box forecast calculation capabilities and enable unique customization of the out-of-the-box calculation capabilities by each of the business units or departments?
- What types of features are available for quickly building a forecast and conducting “what-if” analyses?
- Are user-defined allocations and calculations supported?
- Can you create multi-step allocations and order steps so that later steps can be based on the results of earlier steps?
- Can complex calculation formulas be applied?
- Are statistical data and global assumptions supported? Can key performance indicators be calculated?
- Does your system enable actuals to feed into system and enable re-forecasts throughout the fiscal year?
• Does your solution have commentary (text) input, including the following: at individual entry fields, at a summary level for individual sections of a submission, at a summary level for the entire process submission?

• Can new and existing users easily request, retrieve, and access data from your solution?

• Does your solution provide real-time analysis, review, approval, and consolidation of forecasts without closing users out of the system?

• Does your solution have a unique approval process established for each business unit or department, based on the requirements of each unit?

• Are both top-down and bottom-up planning processes supported by your solution?

• Can your system conduct real-time “what-if” analysis on data, including either global or local changes to assumptions, such as rate increases, sales trends, and/or operating costs?

• Can you goal-seek to key metrics throughout your forecast horizon by having the model automatically change key variables to hit those metrics?

• Can departments create their own versions of the budget without affecting the central budget?

• How many scenarios or versions of a forecast can be stored and reported within a corporate version cycle?

• Are all versions of the model available for reviewing at any time during the cycle?

• Can your solution support monthly and quarterly forecasting?

• Can your solution create long-term forecasts? For how many years can you create forecasts?

• Can your solution provide real-time results?

• Can users create a base forecast by copying prior forecasts or budgets? Can multiple forecasts/plans be easily reconciled?

• Can your system support activity-based forecasting?

• Can the solution accommodate the planning needs of different departments, such as operational and financial areas?

• How does your solution support collaborative planning?
• Does your solution provide the capability to manage workflow and reduce the planning cycle time?
• Can remote users access the system?

Organizations
• Can organizations be created and maintained in a hierarchical (tree) structure to facilitate easy selection by users, resulting in automatic drill-down capability?
• Can each branch of a hierarchy in your system have a different number of layers, or must they all be the same depth?
• Can an unlimited number of alternate hierarchies of your organization (Legal, Management, Geographic, Tax, What If, and so on) be maintained in the system without loading data twice or copying data to and from different areas in the system?
• Can you input data in local currency for each entity?
• Can the system consolidate at different levels and across different dimensions of the organization?

Accounts
• Does your system have out-of-the-box account intelligence?
• Can accounts be designated as income, expense, asset, liability, flow, balance, and so on and have the system pick up on the account type throughout; for example, no subtotaling logic, intelligent variance reporting (that is, no requirement to flip signs for variances between revenue and expenses) and how to handle calculations based on the account types?
• Do these accounts automatically flow to the proper spots on an integrated set of financials so that the income statement, balance sheet, and cash-flow statements always tie out to one another?
• Can users add line-item detail on the fly to accounts?
• Can alternate roll-ups of the account structure be created so that corporate income statement as well as a divisional income statements, for example, could be handled uniquely within one system?
• Can non-financial (statistical) and financial accounts be maintained?

• Can system rules be applied to non-financial accounts for assistance in reporting and calculations or forecasting drivers?

Treasury Analysis
• Can you choose how to allocate cash surpluses on the balance sheet? For instance, set up an order for paying back debt instruments early or execute a share buy-back?

• Can you quickly structure new debt and related components (for example, current portion, accrued interest, amortization of premiums and debt costs), or restructure existing debt?

• Can you choose how to fund additional cash deficits on the balance sheet? For instance, use existing cash or set up revolving lines of credit?

• Are there built-in interest rate options that allow you to spread variable rates over published rates, such as LIBOR or Prime and adjust the spread based on forecast credit ratings and covenants?

Dimensionality
• Can data be maintained across multiple dimensions?

• Can additional organization-specific dimensions be easily created and maintained?

• Can you assign attributes to each dimension for further classification?

• Can each dimension have a unique identifier?

• Can alternate names be assigned to a member?

• What types of features are available to ensure that dimensional data can maximize performance and disk space?

Foreign Currency Translation
Can all the currencies that you will need for translation, including average, month-end, historical, special, override rates, and so on, be defined within the system and dynamically utilized?

• Can monthly currency rates be automatically loaded from another system?
- Can exchange rates be maintained differently by scenarios and time periods?
- Can default translations easily be overridden using either override currency rates or historic currency values?
- How does your software support currency translation in a hyper-inflationary economy?
- Can any entity be translated into any currency in the system on the fly without having to create additional calculations to properly handle foreign exchange, and so on?

Scenarios and Versions
- Does the system enable users to create an unlimited number of scenarios, such as Actual, BudgetV1, BudgetV2…., JanFcst, FebFcst…, 1st Draft, 2nd Draft…., and so on?
- Can each scenario follow its own time span and review cycle?
- Can data easily be copied between scenarios within the system?
- Can modeling or what-if versions be created in the system that use different business rules and rates, such as Best Case versus Worst Case, 2nd Draft versus 1st Draft, Plan versus Forecast, Actual versus Plan, and so on, so that you can easily perform operational and foreign exchange variance analysis?
- What does setting up various scenarios and versions entail, and what maintenance must be performed to handle these calculations?
- Does the system have out-of-the-box time intelligence; for example, quarter-to-date and year-to-date performance—or a rolling time sequence, such as current month plus three months in the future)?
- Does the system have multiple frequencies—Periodic, QTD, HTD, YTD?

Reporting and Analysis
- What reporting options are available (Production Report Writer, Graphical Analyzer, Excel, and so on)?
- Is there a drill-down capability to support investigation?
- Can you drill down to source data?
• Can ad hoc analysis be done graphically on the Web; for example, slice and dice dimensions, define calculations, layouts, formatting, fonts, and color; suppression options, dynamic member selection, asymmetric layouts, and auto calculations? Are templates available to create reports?

• Does your solution provide report elements, such as data, text, charts, graphs and images, and drag-and-drop placement of data objects?

• How are reports stored in the proposed solution?

• Can formatted production reporting be handled within the system (month-end statements)?

• Can you schedule these production reports to be sent in PDF to information consumers by e-mail or printed to the printer overnight out of the box?

• Are reports dynamic, so a report format can be created and all users can run it for their business unit dynamically?

• Can charts and organization logos be added to reports?

• Can you create reports in multiple currencies?

• How are reports created (for example, is it coding or drag-and-drop)?

• Can you create reports that include embedded functions to automatically add hierarchy members to reports as the system structures change (for example, when an account is added in the system, do you need to change every report)?

• Can report calculations be defined?

• Do built-in functions exist?

• Is there an ability to input variance explanations in reports?

• Can conditional formatting be done on reports; for example, if a number is above a threshold, show it in bold red on the report?

• Can report sections and data be linked so one piece of a report can be linked to other reports and pass criteria, such as the current reporting entity of account for analysis (for example, linking and drill-down)? Is this process graphical?
Can a dynamic consolidating report be created so that you can see details of the consolidation based on the business unit?

Can books of reports be created (Blue Book, Controller’s Book, and so on)?

Can users view reports through a browser?

Does the report writer support XBRL (Extensible Enterprise Reporting Language)?

How is graphical analysis performed on the Web (for example, Dashboard, calculations, creating custom views graphically, and so on)? How are these views created by users?

Does your tool have e-mail alerts?

What types of output options exist for reports?

Can you create reports from multiple data sources?

Can the proposed reporting tool place URLs within the system to enable the users to easily obtain information from the referenced Internet site?

Profitability and Cost Management

Does the system enable a business user to create calculation algorithms?

Can you have different allocation methods for different parts of the organization?

Does the system enable you to develop costs down to the SKU or individual customer level?

Does the system provide validation reports to ensure all costs have been allocated?

Does the system support all costing methods and the ability to use more than one in an application? (e.g., Activity-Based, time estimation, standard or planned rates, with actual consumption volumes etc).

Is the application spreadsheet based?

Is the database open or proprietary?

Does the system enable you to play scenarios based on expected conditions?
- Does the system enable you to change allocation methods easily?
- Can you feed profitability metrics back into your planning and budgeting system?
- Can the system pull data from multiple data sources?
- Can you easily create reports?
- Can you easily spot exception, discover trends, perform comparative analysis and make faster, better informed decisions using this system?
- Do you think you will be able to make better and more informed decisions faster using this new system?
- Can the average person use this system to create better cost and profitability information?

Scorecarding, Monitoring and Analysis

Scorecards “are a strategic management tool that helps measure, monitor and communicate your strategic plan and goals throughout the organization, in a way that is understood by everyone”—July 3, 2003, The Financial Gazette.

Many companies currently use homegrown solutions (using Microsoft Excel, PowerPoint, or Access), or off-the-shelf software to get started. In many cases, as the organization begins to roll out this management tool, many homegrown initiatives and smaller software packages are quickly outgrown because of the expanding need for features, for links between measures and scorecards, the sheer number of scorecards and key performance measures (KPIs) being tracked, and the number of users wanting to access the reports.

Consider the following questions when evaluating your system or when evaluating the purchase of one:
High-Level Capabilities

- Do you provide a Balanced Scorecard Collaborative (Palladium) certified scorecard solution?
- What types of scorecard frameworks do you support? Can they be customized?
- Is your scorecard solution intuitive for users?
- Can users customize their home pages and reports that they view?
- How much IT assistance is required to set up the application? To maintain it?
- Does your solution support sourcing data from multiple sources (relational databases, ERP systems, OLAP, Excel, and so on)?
- Does your solution require the use of a data warehouse or data mart?
- What are the system requirements (hardware and additional software needed) for the solution?
- Does the solution enable access to large numbers of multiple concurrent users?

Strategy and Accountability

- How does your scorecard solution promote accountability?
- How is the system used to communicate an organization’s strategy?
- Does your solution offer strategy maps? Are the measure results on strategy maps interactive or static?
- Are organization scorecards supported for different hierarchies (products, organization, geographies, business units, and so on)? Are personal scorecards supported?
- Does your solution support ownership of measures and strategy elements as well as for scorecards?

Measures and Scoring

- How are data/results presented?
- Can measures be maintained and analyzed from different views or dimensions?
Can each measure have a different data collection period (some daily, some weekly, some monthly, and so on)?

Can your scorecard solution track initiatives?

Can initiatives have sub-initiatives? How many levels?

Can measures be tracked against multiple targets?

Does the solution enable scoring over 100%?

Can you apply weights to measures and scorecards?

Does your solution support Web-based, manual data entry as well as electronic data loading?

Does your solution provide measure templates for easy development and maintenance?

Does your solution provide scorecard templates?

Does your solution show status symbols? Can you choose whether to show status based on score, results, or period-to-date results?

What status indicators are provided? Can you customize the indicators?

Does your solution use ranges to calculate status, or is it based on subjective assessment?

If you can use ranges, does your solution allow multiple ranges for different time periods?

Does your solution have one or more people associated to each measure as target collector, owner, or result collector?

Does your solution enable the use of complex formulas for results and targets? Can you have multiple targets?

In your solution, can each measure have its own frequency of collection, or must they all share the same frequency?

**Reporting and Analysis**

Does your scorecard solution support drill-down?

Describe the available reporting features
• Can your scorecard solution integrate with existing systems or an overall Enterprise Performance Management solution?

• Is your scorecard solution accessible from the Web?

• What types of features are available for additional analysis?

• Can users customize their reports?

• Can users create custom or partial scorecards?

• Can users filter their measures or reports?

• Can users export results to any Microsoft Office products?

Collaboration and Communication

• What types of communication features are available to enforce collaboration? Are alerts supported? E-mail?

• Does your solution support notes and attachments for different objects in the application (for measures, for strategy, for scorecards, and so on)?

• Does your solution provide the abilities to track initiatives and write period-related annotations?

Security and Other

• Are different user roles supported?

• Does your solution support the concept of domains (grouping objects or measures for security and ease of viewing)?

• What are some user settings and preferences?

• What type of security is there within the system? Does the solution integrate with external authentication providers?

• What administrative reports are provided (audit trails and so on)?

• Does your solution sit on a common relational or multidimensional database, or is it proprietary?
Financial and Management Reporting

Reporting and Analysis is a key portion of a Business Intelligence system. The spectrum is wide, from transactional and operational reporting to ad hoc analysis against multiple data sources. Organizations are currently using many separate reporting tools. Today, however, most are still horribly underutilized:

"BI tool usage rates have increased slightly since 2005, from 18% to 24%. This is progress, but there is still work to do."

Consider the following questions when evaluating your system, or when evaluating the purchase of one.

High Level

- Does your system provide access through desktop and remote facilities? Are predefined dashboards part of your standard solution?
- What capacity does your system have to integrate with Portals? Custom integration versus out-of-the-box support via Portlets?
- Does your solution provide an intuitive interface that will enable report development to occur at the functional user level? Does this include a range of templates, as well as the ability to create reports from scratch?
- Can users integrate multiple data sources into one report? Can they integrate them into one dashboard?
- Can users integrate multiple data sources on the same page or dashboard, with multiple data sources combined into the same grid or graph? What facilitates this integration?
- What kinds of formula functions do you provide that users can use in either the query or report?
- Does your solution use standard drag-and-drop and right-click features throughout for ease of use?
Functionality

- Does your solution provide high-quality formatting options (fonts, page layouts, conditional formatting and so on) similar to Microsoft Office products?
- Does your solution provide high-performance charting features and functions?
- Does your solution provide the ability to create dashboards and scorecards using features, such as automatic traffic lighting and maps?
- What ad hoc capabilities are available? Can you pivot, drill down on data, and summarize data easily?
- Does your solution provide the ability to drill down from summary to detail and drill up from detail to summary? How do you drill down, and are there restrictions on the number of levels?
- Does your solution provide sorting? For example, can you select the top or bottom 10 or 20 items and sort them? Can you query by level, generation, or parent/child references, member name, or aliases? Can you query using commands, such as bring back all children, descendants, siblings, and subsets?
- Does your solution provide the ability to drill through from the analytic measures to the underlying transactional detail?
- Are on-demand performance-monitoring facilities provided? Can authorized users gain on demand access to performance data—review previous, current, and future information? How is this monitoring achieved?
- What facilities are provided for the exporting and distribution of reports? Can reports be distributed through a range of facilities, including HTML reports, DHTML reports, Java applet, and through a Windows client?

Other

- Describe the product/platform/solution’s ability to push reports to users based on exception criteria or thresholds.
- Can values be supplied at runtime through parameterized reporting?
• Can the system perform “batch bursting” of reports? (Enabling secure delivery of hundreds or thousands of individual reports using one template and running it for only the portion allowed to a particular user, instead of having to build multiple reports and multiple books.)

• Does the proposed solution support real-time monitoring? Does it specifically help identify system and environmental bottlenecks, identify challenges resulting from access control configuration, and track user behavior and the use of content throughout the system?

• Does your system provide a way to automatically identify and update reports that may be affected by a change in a supporting data model, table, or view?

• Describe any governing capabilities provided by the solution.

Scheduling

• Is there a graphical scheduler to define schedules and job dependencies? Can users schedule by time, event, interval, or condition (for example, Boolean rules)?

• Can the solution integrate with third-party scheduler? Which ones?

BI Tools & BI Applications, Read-Time Monitoring

Business Intelligence

Business intelligence (BI) is a broad category of application programs and technologies for gathering, storing, analyzing, and providing access to data to help enterprise users make better business decisions. BI applications include the activities of decision support, query and reporting, and data mining. Many companies are managing these different capabilities on an individual basis. Although this strategy can generate small but very successful implementations that meet user needs, it drives the overall cost of maintaining BI systems quite high across an organization. Many companies are looking to consolidate this functionality to positively affect the total cost of ownership.

BI itself is evolving. Historically, BI focused on reporting and information delivery. We still need query and reporting capabilities; however, the focus has shifted to solving business problems. BI is being used to underpin both strategic and operational decision-making processes across the enterprise.
Technology is merely an enabler. The goal of BI has evolved to support the business user with actionable insight. This means that we must change the focus to move users toward performance management and get more eyes on key metrics.

BI extends the information management and production abilities of an organization to new and more sophisticated levels. The strong analytical capabilities that BI brings to the table can provide the competitive advantage necessary for organizations to be successful.

“Virtually all organizations we identified as aggressive analytics competitors are clear leaders in their fields, and they attribute their success to the masterful exploitation of data.”—Thomas H. Davenport, Harvard Business Review, January ’06

Consider the following questions when evaluating your own system, or when evaluating the purchase of a system:

**Product Architecture**

- Describe the architecture of your solution. Does it use an SOA (Service Oriented Architecture)?
- What are the system requirements (hardware and additional software needed) for the solution?
- What industry standards are supported? For example, major OS environments, such as Windows 2000/Windows XP; Sun, HP, and AIX UNIX; Linux and information delivery standards, such as J2EE, Web Services (XML/SOAP), HTML?
- If custom development is required, is it web client server-centric?
- What APIs (Application Programming Interfaces) or SDKs (Software Development Kits) are available?
- Can the solution run behind a firewall?
• What Web protocols are supported? (Can information be safely accessed from outside the firewall using Web protocols, such as HTTPS/SSL and DMZ)?

• Does the solution enable multiple concurrent users to access data from one or more sources and run reports?

• Will the solution scale up for additional users as required? How is this done? Through scalable core services?

• Does your solution integrate with EPM modules, such as financial planning, consolidation, scorecards, and financial and operational modeling as well as with the ERP and other key data sources in your organizations?

• Does your solution enable you to “start anywhere” and then grow to more robust reporting or even into specific EPM applications without having to introduce new training, new interfaces, new content creation GUI, and separate integration tools?

• Does your system have fault tolerances, such as server clustering, load balancing, failover support, and server connection pooling to help create a reliable infrastructure and to maximize performance under all system conditions?

• Are all products within your solution integrated, and do they use a unified metadata repository or semantic layer for all types of BI functionality provided? Does it include a services offering for defining, sharing, updating, versioning, and synchronizing metadata across user interfaces and applications?

• Describe how reusable components can be created by or within the product/platform/solution.

• How does your system enable users to easily customize their desktop?

• How does your system enable users to share query results with other users?

• Does your system enable users to access all tools from a single workspace (meaning less training and maintenance)?

• What protection features are provided to ensure that data access can be limited to users with the correct authorizations?

• How is data protected and secured while in transit and once it has been passed to the solution’s repositories?
• What security protocols are supported (for example, LDAP, ADS, NTLM, NIS, and Oracle Access Manager) to enable remote users to access data, and what authentication facilities exist?

• Can the repository of reports be maintained to meet lifecycle management requirements: import and export for backup, movement of all content from development to test to production?

Integration and Linking to Other Tools

• How is system integration handled? For example, operational links to and from key back-office systems ERP, CRM, and so on?

• Is two-way integration supported; that is, the ability to directly write data back into source operational applications? If yes, how is this integration achieved, and which applications are supported?

• Describe the mechanisms available for the retrieval, gathering, and storage of information from disparate data sources. Please indicate those data sources/applications that can be accessed directly and how this is managed within the solution.

• How does the product interoperate with Oracle Data Integrator (ODI), Informatica, and Oracle Warehouse Builder and other best practice ETL tools?

• Is legacy integration possible? If so, how is this achieved?

• Which presentation formats are supported (HTML, PDF, XML, MS Office, etc.)?

• What use is made of wizards and drag-and-drop technology for the rapid construction of queries?

• Do you support complex queries and the ability to run procedural calculations? Please elaborate.

• Does your solution have graphical data mining capabilities? (Data mining is the process of searching through large amounts of data in a database to find hidden relationships and patterns. Results can be descriptive, providing additional information about existing data; or predictive, forecasting trends.) Does data mining enable you to register and use new algorithms created by third-party vendors, such as RightPoint Software and SPSS?
• Does your solution enable writeback to the BI platform, enabling sophisticated what-if modeling?

• Does your solution provide you with the ability to build complex business logic and business rules easily and quickly?

• Does your repository have built-in mathematical functional capability that covers basic functions and more complex calculations, such as IRR, NPV, and allocations?

• Does your system provide the ability to performance-tune members or groups of members so that certain data is pre-calculated and additional data is calculated in memory? Please explain.

• Are statistical data and global assumptions supported? Can key performance indicators be calculated? Please explain.

• Does your system have an open architecture? Do you have an open API, partner tools, and so on?

• Does your system have time series intelligence; that is, can it calculate period-to-date values for your data? Does it do this in a batch or dynamically (or both)?

• Does your system have financial intelligence? Does it have a library of built-in formulas that have been extended to be OLAP-aware (calculations across all combinations of all dimensions)?

OLAP, Data Warehouse, Data Mining

OLAP

Advanced analytic solutions provide business users insight into tough business problems that require the application of sophisticated calculations to massive amounts of data, across multiple dimensions. It allows organizations to deliver immediate feedback on complex analysis, such as customer profitability or engagement risk assessment at both high and very granular levels.

Consider the following questions when evaluating your system, or when evaluating the purchase of one:
Performance and Scalability

• Will your solution scale to thousands of users? Is there any mechanism to determine at what point degradation will occur? Any rules of thumb or examples?

• Can you provide independent benchmarks on query performance?

• Can your solution handle “near-real-time” application requirements?

• What is the largest number of items in a single dimension that is currently in production?

• Can you deploy on multiple platforms? UNIX/Windows?

• Can you deploy your solution on 64-bit hardware?

• Do you to accelerate your data warehouse queries?

• Do you need to add analytic content via SQL-based BI Tools

Calculation Breadth and Sophistication

• Does your solution require specialized or multiple calendars?
  • Fiscal
  • Gregorian
  • Retail
  • Manufacturing
  • ISO 8601

• Can your solution automatically handle “to-date” type values (quarter-to-date, season-to-date, year-to-date)?

• Will your solution easily compute “time balance” items, such as inventory or headcounts that do not naturally aggregate over time?
• Will your solution easily compute “flash metrics” that require restricted computation, such as discount percent? Or that require two-pass computation, such as percent of total? Or measures that do not aggregate, such as price?
• Will your solution naturally compute variances and variance percents across both revenue and expense items?
• Does the tool support currency conversion?
• Are all calculations allowed across all dimensions?
• Does your solution have a library of pre-built functions to accelerate application development?
• Does your solution allow specialized calculations to be imported and executed inside your OLAP tool?
• Can your tool create procedural logic?

Forward-Looking
• Does the tool support multi-user writeback under security? Is it real-time or batched?
• Can your solution perform trending based on historical values?
• Does your solution allow the creation of multiple scenarios within one cube?
• Can your solution store “drivers” for scenario modeling?
• Can you perform “goal seeking” with your solution?
• Does your OLAP engine have imbedded data-mining capabilities?

Reporting
• Does your solution provide an Excel interface for online ad-hoc analysis? Does this interface:
  • Require a query language?
  • Require programming?
  • Have a rapid response time on data retrievals?
  • Enable customized views of enterprise data?
  • Enable the use of all standard formatting features of Excel?
Does your solution have full integration to the other modules in Office? PowerPoint and Word? How are they integrated? Is there a single add-in for all modules?

What other types of reporting tools can access your OLAP tool?
- Boardroom-quality formatted financial reports
- Dashboards
- Ad hoc query
- Visualization of massive data sets

Can you drill through the OLAP source to transaction data?
What APIs does your tool have for custom report/application development?
Can you use MDX to query your OLAP data?

Other
- How does your On-Line Analytical Processing (OLAP) solution integrate with other tools?
- Does your solution integrate with one of the major search engines, such as Google?
- Does your OLAP tool support alternative hierarchies within a dimension?
- How does your OLAP tool support asymmetric hierarchies?
- Can your tool define and filter security access by user or group down to the cell level?
- Can transaction detail reside in a relational data store and the aggregates in your OLAP cube?
- Can the tool build cubes directly from relational tables/star schemas?

Data Integration, App. Management & Master Data Management

Enterprise Performance Management requires seamless and reliable data exchanges in its processes. Excellence will be achieved by ensuring:
- Fast data transfers and preparation between solution components
- Harmonization of the hierarchies and rules that structure data
- Quality control throughout the process
Data Integration

Data Integration will move your data from a solution to another and process the necessary transformation to it, whether to adapt it to the required format, or to pre-process calculations and aggregation to save CPU in the receiving application.

Consider the following questions when evaluating the purchase of a new system

Volume of data to transfer
- Does your process requires thousands or millions of lines of information to be transferred
- How often do you need to run the process?
- How much time do you have to run the process?

Complexity of data preprocessing
- How much aggregation does your information need to receive to be included in your targeted repository or application?
- How complex are the calculations and transformations to be applied?

Evolution pace
- How often do you need to adapt to systems or data structure changes?
- How often do you integrate new domains and data into your EPM spectrum?

Data sources and targets availability
- How many different sources and targets do you need to deal with?
- Are they proprietary or standard databases?

Setup and maintenance
- Do you know the source and target data management language?
- Do you have access to the right support for maintenance and corrections?
Master Data Management

Master data is data that is shared across systems (such as lists or hierarchies of customers, suppliers, accounts, or organizational units) and is used to classify and define transactional data [Source: IDC]. Many companies currently attempt to align their enterprise dimensions in a very manual fashion (in spreadsheets), or in a homegrown system. In some cases, they are not aligned or managed at all.

Consider the following questions when evaluating your own system, or when evaluating the purchase of a new system:

**High-Level Capabilities**

- Does your application/tool enable business users to directly manage enterprise dimension changes out of the box?
- Does your application/tool offer features and functions for supporting a master data change process?
- Does your application/tool support different hierarchical dimensional data structures and data models for the various organizational applications that you might have?

**Versioning**

- Does your application/tool enable versioning of enterprise dimensions and hierarchies? A version represents a single, independent set of related master data. Versions usually are structured by time period or function (examples: 2006 January, 2007 Reorg, Planning). Versioning enables lifecycle management of dimensions as well as modeling of dimensions for such events as reorganizations, planning efforts, and mergers and acquisitions.
- What types of version rollback does your application/tool offer? Version rollback creates a copy of a version for a specific time in that version’s history. Rollback may be based upon a particular date and time, the number of days back in time, or even a particular dimensional change that occurred in the history of that version.
Attributes

- Does your application/tool support derived attributes? What steps are required to implement? Derived attributes are those that return a value based upon a particular formula or position of a node within a hierarchy. The management of dimensional attributes and their values may be automated by using derived or inheritance properties.

- Can the default value for an attribute be different based on hierarchy position or other attribute values? What steps are required to implement? For example, if a member of hierarchy A also exists in hierarchy B, can that member have one value for attribute 1 based upon its position in hierarchy A, and another value for attribute 1 based upon its position in hierarchy B? In other words, can properties be either locally applied (particular to each separate hierarchy in which the member exists) or globally applied to all (same value is returned for the member no matter where it exists in a version)? An example of a globally applied property could be currency: After a member is marked with a particular currency, no matter which hierarchy it is in, it should likely have the same currency. However, on hierarchy A, that member may have a percent consolidation of 100%, and in hierarchy B, a percent consolidation of 50%, an attribute that is local to each hierarchy.

Compare/Query

- What types of comparison capabilities does your application/tool offer? For example, can you compare hierarchies between versions to distinguish the changes between versions—for lifecycle management, to advise systems or users of soon-to-be-published dimensional changes? Can you compare hierarchies within the same version or across versions to identify differences in such aspects as the lowest level members, for example, or those members with a currency of USD? Can you compare attribute values for members across hierarchies?

- Can your application/tool compare two hierarchies for structure differences? What steps are required? For example, for lifecycle management and user/system notification, can you identify additions, deletions, moves, and attribute differences between two hierarchies?

- Can your application/tool compare attributes for members across hierarchies within the same version or in different versions? For example, if an office moved and changed currency, could you compare currency values between last period and the current period to determine which offices had currency differences?
• How are business rules created and applied in your application/tool? For example, how can you ensure that correct formatting is adhered to when adding an entity that should start with the same numeric first digit as its parent, have numeric digits in positions two and three and, in positions four through eight, have characters? How can you enforce that an office has only 10 employees reporting into it at a time?

Inheritance

• Within a hierarchy, can elements inherit attribute values from their ancestors? For example, if entity New York exists under country USA, along with the other 50 states, can you assign currency of USD to USA and push that value down to all 50 states through inheritance? This ability eliminates the maintenance of applying the value of USD currency to each of the 50 states manually. Should one of those states, such as Alaska, be overtaken by Canada, and therefore moved under Canada in the hierarchy, would Alaska’s currency value be updated automatically from USD to CAD, due to the currency attribute being applied at Country level and pushed down the hierarchy through inheritance?

Business Rules

• Can business rules be selectively enforced in different sections of a hierarchy? What steps are required? For example, within a geographical hierarchy, can a business rule that limits offices to 10 employees be applied to European countries only and not to the USA or any other countries outside of Europe?

API (Application Programming Interface)

• How do external applications automate and use the API? Do they use a SOAP interface, a COM interface, or both?

• Are 100% of the features and functions of your application/tool exposed by an API?

• Can you provide the API documentation and sample code that use the API?

• Can you provide at least two customer references that have used your API in a production environment?
Automation of Master Data Updates

- Does your application/tool support bulk changes to dimensional data? What steps are required? For example, how would 10,000 dimensional data changes (that could be due to a reorganization or an acquisition) be applied to the existing dimensions, across all applications that leverage them? These changes could be additions, deletions, attribute updates, and moves.

- Can bulk changes to dimensions be initiated from an Excel spreadsheet? For example, can bulk updates—such as 3,000 new accounts—be captured in an Excel spreadsheet (either manually or system-generated) and then directly applied, from that spreadsheet, to the current dimensions in order to add those 3,000 new accounts—with the appropriate attribute values—to existing account hierarchies? What steps are required?

Version/Hierarchy Blending

- Can changes in one version be automatically replicated to other versions based on rules? What steps are required? For example, can changes be modeled in a reorganization version of production dimensions over several months, from September through November, and then be pushed into December's production dimensions?

Data Quality Management

Data Quality Management will help you not only confirm the reliability of your data in your process from one end to the other but also will help you drill back to the sources to audit the collected figures and will perform integrity controls to make sure the data handled matches the shared rules and structures.

Evaluating the purchase of a new system for Data Quality Management brings similar questions as the ones for Data Integration (see the list in the Data Integration paragraph above). In addition, here are the points that need to be looked at:

Risk Assessment of Poor Data Quality

- What is the human factor in the information collection (manual inputs in spreadsheets, inputs in transactional systems, copy-paste from a system to another)?

- How heterogeneous are the systems people are reporting from?
How heterogeneous are the cultural, technical, and educational backgrounds of the information providers?

Financial Data Quality Management

Financial Data Quality Management is the practice by which companies can effectively and consistently
- Collect and transform data from multiple data sources in multiple formats
- Develop repeatable financial data management processes
- Document internal controls
- Access audit trails from source to report

Financial data quality management helps finance users increase their confidence in the numbers and reduces their cost of compliance by eliminating data integrity risks associated with collecting, mapping, validating, and moving critical financial data from across the enterprise.

Consider the following questions when evaluating your system, or when evaluating the purchase of one:

Data Collection
- Can data be collected from numerous, heterogeneous source systems?
- Are import profiles defined and stored centrally for each source system?
- Can data be imported from any text file in any format, eliminating the need to reformat the file first?
- Can data be imported seamlessly from any relational database?
- Can high-volume data be imported within a “reasonable” amount of time?
- Are import failures quickly detected, logged, and easy to resolve?
• Are the data collection tools used consistent with a common interface throughout the organization?

Transformation
• Is imported data staged in a centralized database before transformation rules are applied?
• Are transformation rules stored separately by source system or location?
• Can transformation rules be defined using multiple methods (for example, one-to-one, ranges, wildcarding, if...then conditional mapping?)
• Are users given access to mapping rules and held accountable for updating mapping tables when necessary?
• Can mapping changes be documented, and are they understandable?
• Can mapping errors be quickly detected, logged, and easily resolved?

Business Rules Validation
• Can relevant business rules be defined and applied to data during the migration process to ensure that the highest level of data integrity and quality is being achieved?
• Are business rules easy to define by non-technical resources?
• Is a validation-check report displayed for the user to provide confirmation that data was loaded into the target system and consolidated properly?
• Are business validation rules easily detected and easy to understand so that corrections can be made?
• Can you define a process to make adjustments to submitted data?

Target System Integration
• Can you integrate directly with a target EPM system?
• Are pre-built adapters available that make system integration quick and easy?
• Are advanced integration functions available, such as metadata recognition, data load, calculations, process workflow integration, journal module integration, and so on?

• Can you integrate with multiple target systems?

**Internal Controls**

• How do you audit from aggregated numbers in an analytical application down to the source GL Trial Balance?

• To comply with Sarbanes-Oxley/Basil II/IFRS regulations, how are Section 302 and 404 processes monitored? Are these processes integrated with the financial close process?

• Can every step of the data migration process be documented by user, event, time, and so on?
Creating an EPM “Center of Excellence”

Introduction

From the telecommunications and retail industries to financial services and pharmaceutical manufacturing, management teams are discovering the power of enterprise performance management (EPM) to improve transparency, insight, and decision-making. But, it’s difficult to manage performance when you have a dozen different systems in place to gather and analyze business data. To get the most out of an EPM investment, you have to align management processes, rationalize information systems, and unify key performance indicators – steps that are often much easier said than done.

More commonly, a variety of solutions are deployed as pilot projects in different departments and then spread ad-hoc to other parts of the business. It takes persistent outreach, evangelism, and training to convince others to embrace a preferred program.

How do you overcome the challenges of decentralized management, multiple business intelligence systems, and fragmented implementations? Organizations that have achieved this usually have one thing in common – they created an EPM Center of Excellence.

Known also as EPM Competency Centers, EPM Centers of Excellence bring together the people, processes, and technologies necessary to promote collaboration and the use of best practices throughout an organization. They consist of cross-functional teams whose mission is to drive the adoption of technologies and related best practices in a cost-effective way by leveraging points of synergy among EPM initiatives. They may provide consulting, and/or implementation services to ensure consistency and efficiency in the company’s use of its EPM system.

Although the establishment of EPM Centers of Excellence is in the early stages of adoption in most industries, the concept is familiar – particularly in IT environments. For example, many companies have set up similar centers dedicated to integration technologies, or have a strategic center of excellence for all of their Oracle applications. These centers serve as central repositories of knowledge and resources, and they assist other groups in deploying the technology in their respective areas of the business.

When equipped with a clearly defined role and the right mix of business, analytical, and IT skills, an EPM Center of Excellence can help companies achieve top- and bottom-line improvements
across all lines of business while reducing the cost of their EPM efforts. Implementations go faster and success rates improve as the roll-out process is documented and repeated. And the faster the EPM implementation, the more quickly managers are able to adopt best practices in decision-making. Improved efficiency, effectiveness, and quality lead to a better bottom-line. These same improvements often translate to increased customer satisfaction which can positively affect your top-line. As EPM is deployed more widely and successfully, the company will be able to transform itself into a more strategic and competitive entity.

What is an EPM Center of Excellence?

An EPM Center of Excellence is an organizational entity that groups interrelated skills, experience, and domain expertise together to promote and deliver technology through a consistent set of skills, standards, and best practices. It delivers repeatable, successful deployments in a way that is beneficial to the entire organization rather than just a single project.

Implementing EPM in an organization is not a one time project but an ongoing business process. As organizations refine and improve the process, significant benefits are realized. Managers, acting on information provided by the EPM information system, make better-informed decisions, leading to better performance and greater profitability for their enterprise.

Yet the improvements in performance achieved as a result of these efforts may be only a fraction of the potential benefits to an organization from implementing an EPM system. One best practice we have seen in organizations seeking to maximize the benefit from their EPM efforts is the creation of an EPM Center of Excellence (CoE). An EPM Center of Excellence solves many challenges faced by organizations implementing EPM. It is an internal group that provides consulting services and oversees the EPM efforts within an organization. The Center of Excellence helps standardize tools, procedures, and best practices, enabling companies to leverage their experiences across projects to achieve scalable (enterprise-spanning) results and reduce the cost of their EPM efforts.
Why Establish a Center of Excellence?

Centers of Excellence typically are formed to address the short-term needs of one or more projects, but they can have far-reaching effects over time in terms of both efficiency and effectiveness. An EPM system delivers the most value to an organization when it is able to measure the performance of every significant business function. By increasing EPM usage across the organization, a Center of Excellence can help a company realize the full potential of its EPM investment.

Here are some of the benefits that an EPM Center of Excellence can deliver:

Potential Effectiveness Benefits

- **Share** EPM knowledge: By consolidating expertise and documenting best practices, the center facilitates knowledge sharing. It can create reusable assets and build competencies that extract maximum value from the organization’s EPM investment.

- **Centralize** performance management: An EPM Center of Excellence provides the entire enterprise with a central platform for managing performance, creating visibility into key indicators, and aligning the application with business objectives.

- **Manage** information to gain a competitive advantage: By enabling a company to share relevant information with customers, the EPM Center of Excellence strengthens customer relationships while creating a more customer-centric organization. By sharing information with...
key suppliers and business partners, the EPM Center of Excellence promotes value chain integration, enhancing operational excellence and enabling new sources of innovation.

- **Strengthen** compliance: By promoting best practices for EPM, the Center of Excellence may ensure ready access to data required for complying with government regulations, such as Sarbanes Oxley, Basel II and HIPAA.

### Potential Efficiency Benefits

- **Control** costs: A Center of Excellence reduces costs by acting as a central source of EPM optimization expertise and ensuring that skills and processes developed for one project can be applied to the next.

- **Consolidate** infrastructure: When the Center of Excellence features a test lab for research, proof of concept, prototyping, and advanced training, these tools become accessible to all project teams, eliminating the need to duplicate scarce and expensive resources.

- **Standardize** the IT infrastructure: By endorsing specific solutions, the center can discourage the use of alternate tools, ensuring consistent, cost-effective, and fast implementations of the right systems and processes.

- **Unify** business data: A Center of Excellence brings order to data by aligning different projects that use similar information and eliminating the problem of fragmented data infrastructure, which can prevent organizations from monitoring enterprise performance.

- **Establish** an enterprise-wide framework: With a proven model for deploying EPM applications, the company can accelerate future development initiatives, resulting in lower costs, improved delivery times, and more effective implementations.

A company’s ability to realize these benefits will depend on the maturity of the Center of Excellence and the resources available to it. One healthcare industry EPM Center of Excellence was able to improve the ratio of time that its financial analysts spend gathering data versus analyzing and reporting, which in turn created more time for activities that add value to the business. Initially created by the finance department, the center is funded and used by every line of business today.
By focusing on objectives that address the company's greatest needs, the center will be able to establish a track record for success and win the confidence of management across the organization.

M&A Example
Whenever a global holding company in the telecommunications industry acquires a new business, it inherits a portfolio of legacy technology and an arduous process of data integration ensues. How does management get a view of the performance of the combined companies? Only by deploying a standard EPM system each time it closes a deal. For companies of this size and scale, EPM strategy and training are not one-time projects, but ongoing initiatives. An EPM Center of Excellence can help to consolidate resources, share EPM experiences, and recommend best practices.

Creating an EPM Center of Excellence
Now that you know what it can accomplish, how do you go about creating an EPM Center of Excellence? Although it may sound like a major undertaking, it is possible—and advisable—to start small over the course of a few months and expand over time as the center proves its value.

For starters, a senior management mandate is essential to ensure a cross-functional approach. With executive support in place, the company will need to identify skilled people, a standard model for governance and processes, a coherent architecture, and marketing and communications capabilities.

There are several key considerations for planning an EPM Center of Excellence:

- Governance: Defining a clear charter for the Center of Excellence.
- Center of Excellence type: Defining which type of Center of Excellence is right for you.
- Objectives: Define objectives that align with the needs of individual business units and development teams, as well as those of the overall enterprise. Consider the perspectives of executives, users, and IT staff in the EPM deployment.
- Strategy: Present a coherent strategy for the design of EPM within the organization.
- Services: Define the services and deliverables the center will provide, recognizing that the list will change over time as the center matures and funding either goes up or down.
- Communication plan: Develop a communication plan that informs the rest of the organization of the center's services, as well as the successes it achieves over time.
• Staff: Develop a staff capable of delivering services to its internal customers. The plan may include hiring and training internal staff and/or procuring outside consulting services.

• Metrics: Identify metrics to monitor the ongoing performance of the center.

Getting Started
If you already have a number of EPM initiatives in progress, follow these nine steps to help initiate and establish an EPM Center of Excellence in your organization:

• Take stock of your performance management programs and skills.
• Identify areas of duplication and deficiency.
• Develop a vision and business case for the center that articulates benefits to stakeholders.
• Recruit an executive sponsor for the center.
• Define a launch plan that addresses priorities, technologies, standards, methodologies, and skills.
• “Sell” the center to teams that want to launch new EPM initiatives.
• Pilot and market the EPM Center of Excellence.
• Expand the scope and sponsorship of the center.
• Look for ways to turn the center into a revenue stream.

The following sections address seven important questions that arise when forming an EPM Center of Excellence:

• How do you define the center’s role and responsibilities?
• Should you establish a Governance Committee?
• To whom does the Center of Excellence report?
• What skills are required and where do you find them?
• From where will the center’s funding come?
• What is your communication plan?
Roles and Responsibilities

The EPM Center of Excellence typically has the following areas of responsibility:

- Establish requirements for EPM projects and initiatives that meet the needs of users and the organization.
- Train users on EPM tools, including how to access and leverage the data provided by the EPM system.
- Provide analytical expertise by performing complex, ad hoc analysis for business units.
- Ensure uniformity of analytical approaches used to address common business issues across the enterprise.
- Coordinate the definition of enterprise dimensions and metadata in the enterprise, including the definition of common business terms.
- Establish standards for EPM tools used throughout the enterprise.
- Develop prototypes of EPM applications as proofs of concepts.

Different EPM initiatives will require varying levels of governance and involvement by the Center of Excellence. For example, corporate initiatives should be fully governed by the center (regulated). It should determine standard processes, performance indicators, and the systems to be used for the project. However, using this governance approach for all EPM initiatives would limit the center’s acceptance and effectiveness.

Some performance management initiatives support line-of-business (LOB) performance rather than corporate performance. When various lines of business share a performance management initiative, the center could govern by coordinating the cross-LOB activities (mandated). And when a specific business unit or function initiates an EPM project, the center can govern by serving as an internal consultant, bringing along its best practices and methodologies, but implementing EPM based on the unit’s specific requirements (standardized).

Lastly, most organizations will also have a few special-purpose applications that target a few “super-users.” The center should not try to fully govern those, but should simply keep in touch
to learn which technologies and best practices can be adopted and deployed on a broader scale (relationship-based). Classifying every initiative based on these four types of governance ensures that the EPM Center of Excellence supports every part of the business in the most effective way.

Should You Establish a Governance Committee?

Based on the previous information, whether or not you should establish a Governance Committee depends on the EPM initiatives the Center will be involved in, and the level of governance that is optimal for that initiative (see Figure 6). For Corporate applications, establishing a strong Governance Committee may make a lot of sense. If a strong Governance Committee is indicated, it should include a cross-functional team of people with executive-level membership, such as the VP of Marketing, VP of Finance, or the CFO. This type of committee can give the Center of Excellence clear authority, promote its scope, empower the enforcement of standards, and provide funding and other resources, such as personnel. A strong Governance Committee can provide ultimate authority to approve Center of Excellence work products, project priority, or a semantic model.
With an established charter, the Center of Excellence is well positioned to carry out its mandate, which may include providing standards, promoting best practices, implementation help, or developing work products. As always, without a clear charter, the Governance Committee would not have the authority to perform its duties, and there would likely be confusion of functions and responsibilities. This confusion could possibly lead to in-fighting between departments, and eventually to the failure of the Center of Excellence.

What Can an EPM Center of Excellence Do for You?

With its role and responsibilities broadly defined, the EPM Center of Excellence can perform a variety of specific tasks, which can be grouped into four main categories:

- **Self-service**: Many of the center’s tasks will help guide users toward self-service performance management. It might offer training on tools for querying, reporting, and analysis, as well as how to interpret data and how to reuse reports and systems. Example tasks:
  - Report writing assistance
  - On-the-job training for business unit “power users”
  - Promoting the reuse of applications, rules, and reports

- **Analysis**: The EPM Center of Excellence can design dashboards and scorecards and offer assistance for writing rules and reports. The center might also develop analytic frameworks and perform ad hoc analysis for users until they learn to do these tasks themselves. Example tasks:
  - Dashboard and scorecard creation
  - Rule writing
  - Performing ad hoc analysis

- **EPM custodian**: As the company’s EPM custodian, the center oversees EPM vision, design, and application development, as well as promotes a common business language and set of enterprise dimensions. Example tasks:
  - EPM vision management
  - EPM design ownership
  - Data and metadata mapping
• Enterprise dimension management support
• Financial data quality management
• Analytic frameworks, including profitability analysis, customer churn analysis, cross-sell and up-sell analysis, and visualization techniques
• Promoting a common business language, including definition of terms; for example, a customer, or a full-time equivalent (FTE)

• **Technology management:** The IT experts in the EPM Center of Excellence oversee the various tools and technologies and optimize the use of the technology:
  • Planning application development, updates and changes, including:
    • Corporate security (for example, LDAP) integration
    • Performance tuning and optimization

**Reporting Structure and Organization**

Management teams have several options for where to position the EPM Center of Excellence within the organization. The center can report to the operations, finance, or IT departments. If the center is closely connected to the company’s core business, then the operations department is often the best fit. (This can be marketing, manufacturing, or another business function, depending on the type of organization.) This reporting structure only succeeds if the executive in charge also sees value in the center supporting other business domains. The finance department may be a better option for ensuring cross-functional support, as it is usually the most obvious department that oversees all other business departments. This structure only works, however, if the finance department owns all of the EPM initiatives within the organization.
Retailer

One retailer created its EPM Center of Excellence initially as part of the finance department, but once the center was established and on firm footing, it was moved outside of finance and into a shared corporate services organization that managed a number of different competency centers. While each competency center within the bank is run by its own manager, all of the centers report to a single executive, ensuring that potential conflicts are more quickly and easily resolved and that centers are not working at cross purposes.

Because the company’s EPM Center of Excellence is now staffed and run by an unbiased corporate team—as opposed to a finance team—more functional areas within the company are using the center for their own EPM initiatives. This has enabled it to fulfill its charter as an organization designed to establish standards and best practices for all the company’s EPM projects.

The IT department provides another logical host for the EPM Center of Excellence, particularly if the center’s tasks focus more on building and running systems than coordinating management processes. This model only works if IT is seen as a partner rather than just a service provider.

Some EPM Centers of Excellence are set up as centralized departments. If there is a clear mandate, the department will have a manager and dedicated staff. The department then reports into one of the operational areas listed above. This approach requires a strong commitment as EPM becomes institutionalized.

Many centers start as virtual structures, in which members remain part of their own departments, but collaborate within the center. This approach often proves unsuccessful, as it lacks a strong mandate from the top and a commitment from its members. The most successful EPM Centers of Excellence operate under a distributed or federated structure with a small and dedicated team for each line of business, and a small and dedicated team on the corporate level—all working closely together.
Many companies choose to have the center report to the CFO, while others connect it to the CIO or CEO. Either way, the center must be placed high enough in the organization to secure widespread buy-in, yet low enough to stay in touch with the real world. The location of the center should send a clear message to its potential end users: that it is close to the strategic mission of the organization and able to engage effectively in cross-functional activities.

Skills and Staffing
The success of the EPM Center of Excellence will be largely determined by the quality of its people. To serve its target customers effectively, the center needs to acquire a wide range of business, IT, and analytical skills from various parts of the organization. It will seek some of the most talented and sought-after individuals in the company, so a clear mandate and tactful negotiating abilities are important to the recruiting process. Outside experts can provide on-the-job training to fill any internal gaps.

Business Skills
As one Asian manufacturer learned the hard way, an EPM Center of Excellence that is planned, organized, and staffed only by technical experts without input from business users has little
chance of succeeding in the long term. This company’s center delivered on its initial project of building a data warehouse but was unable to adapt its model to provide sustainable value to the organization.

The EPM Center of Excellence needs to understand line-of-business needs in the context of the company’s overall business objectives, as well as cross-line-of-business issues. For example, in order to conduct collaborative planning, a retail company needs to align its marketing and sales plans (How much can we sell?) with its manufacturing plans (How much can we produce?) and its logistical plans (How much can we ship?).

Its business representatives must be able to communicate and persuade at the executive level while helping business managers set and balance priorities. As EPM evangelists, they will drive standardization, adoption, and acceptance of approved technologies and processes.

More experienced business people can bring an understanding of established business processes, what can be improved, and how valuable those improvements would be to the company. They will know what types of improvements can be supported by data analysis and be able to develop an analysis of ROI from a financial perspective.

**Analytic Skills**

In order extract information from data, the EPM Center of Excellence needs sophisticated statistical analytical skills to research business challenges, explore data using a variety of data analysis techniques, develop models that analyze the challenges, and produce recommendations based on the analyses.

**IT Skills**

In order to deploy EPM technology effectively, the Center of Excellence must recruit staff who know how to access and manage the data needed to support business and analysis requirements; understand IT tools and technology, the data warehouse and data administration; and understand the EPM infrastructure implications of business and analytical requirements. Accordingly, the center will want to recruit a mix of information architects, data modelers, database administrators, metadata specialists, data-quality specialists, data stewards who interface with the company’s data governance committee, and data-integration specialists.
Ideally, each EPM Center of Excellence staff member will contribute at least two of the three necessary skill sets. Potential sources for these experts include existing IT professionals with a strong understanding of the business and business users who are well-versed in EPM technology and concepts.

Funding an EPM Center of Excellence

As a cross-functional entity, the EPM Center of Excellence needs a means of allocating its cost to the business groups that it serves. Companies have three options for funding the center: overhead, pay-per-use and subscription-based.

Overhead

In this model, the executive sponsor of the center underwrites all of its costs, and business units may consult the center free of charge. Although this funding method eliminates barriers to entry by allowing any part of the company to use the center’s services, it also fails to establish an economic value for the services that are provided and may not ensure long-term success for the center.

Pay-per-use

Some Centers of Excellence charge business units a fee for each project or activity they request, which ensures that heavy users pay a larger share of the overall cost. Although this approach seems rational at the outset, the downside is that over time, high project fees may discourage users from approaching the center for help. Again, the long-term viability of the center becomes questionable under this funding model.

Subscription-based

A third approach charges user groups according to a predetermined allocation that corresponds to their objectives. This approach is preferred, as it combines the best of both models, by eliminating barriers to entry while still putting a price tag on the center’s services.

Most companies begin with CFO-sponsored funding for a period of three to five quarters, at no cost to the business units, as a way of establishing value and credibility. After this period, they
adopt a charge-back or cost recovery method. Whichever method you choose, it’s important to set the expectation early that the service is valuable and will carry a cost once it is established.

Manufacturing Company
One manufacturing company’s EPM Center of Excellence operates as a profit center, on the belief that it must generate funds of its own to ensure continued investment in advanced technologies. But the center sets pricing fairly and transparently, so users always know what they are being charged and why. The center also focuses on delivering the highest possible value while keeping costs low. Today, the company is successfully implementing automated reporting and analysis projects throughout each of its lines of business and hosting other projects throughout the organization through its EPM Center of Excellence.

To ensure its long-term success, any EPM Center of Excellence must operate as a business within the business and remain aware of its ROI at all times. The center should measure its financial performance in terms of both cost savings and other intangible efficiencies, and communicate its progress throughout the organization to ensure continued use and support.

What Is Your Communication Plan?
Lack of communication is a major reason for a Center of Excellence to fail. How will your Center of Excellence communicate with the rest of the organization? Standards may need to be communicated to business users, and if a software standards list exists, they must understand why software makes the list and how to propose a new one be added or removed. Typically, a Center of Excellence will have a designated communications officer or director assigned to it.

Often we see Center of Excellence architects leading educational sessions for business users, and posters placed in lunchrooms or in elevators as methods of communication. Architects must establish credibility with the business users and must develop a good working relationship to enable good communication. Publishing papers, or speaking at outside conferences, are good methods for architects to establish credibility.

Whichever methods are employed, a formalized communication plan is critical to the success of a Center of Excellence.
Maintaining an EPM Center of Excellence

Centers of Excellence are often conceived as a result of issues that arise from a company’s early EPM initiatives. In such cases, the center must address implementation challenges right away for highly visible projects. As the center matures, its staff must embrace longer-term goals, which may include reducing organizational costs, providing direction for the organization’s EPM efforts, and providing the organization with a central platform for performance management, as well as many of the other potential benefits described above.

Don’t Make These Mistakes

The effort involved in setting up an EPM Center of Excellence should not be underestimated, but it can deliver significant long-term value to the organization in terms of a more coherent approach to EPM. Avoiding these common pitfalls will help you maximize the potential of your EPM initiatives:

Mistake #1: Evolve an EPM project team into a defacto Center of Excellence without giving it a clear charter and formal reporting structure.
Mistake #2: Plan and staff the center with technical experts without consulting business decision-makers.
Mistake #3: Fail to establish an economic value for the services the center provides.
Mistake #4: Create a center with a management mandate but without buy-in from the business units it will support.
Mistake #5: Provide the same level of governance for all EPM initiatives, rather than allowing more flexibility for applications that will serve individual business units versus the corporation as a whole.
Mistake #6: Create an EPM Center of Excellence without coordinating with related IT initiatives, such as plans to establish a data warehouse.
Mistake #7: Overlook the need to document the center’s ROI, and measure its financial performance.
Mistake #8: Do not have a communication plan in place to effectively communicate with Business Users.

Relation to Other Initiatives

An issue related to an EPM Center of Excellence is how it relates to other organizational initiatives, especially in IT. Establishing an EPM Center of Excellence must be coordinated with the other initiatives that an organization is planning, and such coordination should be ongoing. For example, an organization may plan to establish a data warehouse. If the EPM Center of Excellence is established before the warehouse, adequate information may not be available for the center to perform its job effectively. However, the expertise contained in the Center of
Excellence may help in planning the data warehouse implementation and ensuring that it is adequate for the organization’s needs. Careful consideration and integration of an organization’s initiatives is essential to ensure that it leverages its IT investments and achieves the maximum possible return on its investment.

**Conclusion**

Implementing EPM in an organization is not a one-time project but an ongoing business process. Many companies invest heavily in the right tools only to face the challenge of getting people to use them. A Center of Excellence can be a valuable resource for connecting pockets of knowledge and sharing them throughout the company to ensure effective EPM deployments. These centers provide technical assistance, coordinate EPM efforts and reduce the cost of EPM implementations through knowledge- and resource-sharing. Above all, they can play an essential role in keeping business and IT aligned on the goal of achieving effective enterprise performance management.
Best Practices in Implementation

Best practices in implementing an EPM solution fall into two categories: those that deal with setting the stage for the implementation, and those that deal with the implementation itself.

Setting the Stage

Organizations implementing an EPM solution must understand that change management is critical. An organization may change the content or format of information provided to employees, its business processes and/or the expected behavior of employees, and possibly change the metrics for evaluating employees' performance. To successfully manage these changes, an organization must plan to cope with them. By following the best practices below, companies can increase the likelihood of success of their EPM implementations.

Develop Objectives for Each Part of the EPM Deployment Process

Deploying an EPM solution involves eight steps (analyze, plan, design, build, test, roll out, review, and change management). An organization implementing an EPM solution must develop objectives for each of these steps, align incentives to accomplishment of these goals, and monitor progress of the implementation.

Ensure a Supportive Organizational Environment

No matter how technically proficient an organization’s EPM implementation is, it will not be successful without a supportive organizational environment. To achieve this environment:

- Build a broad-based consensus in advance of the implementation for a change in technology and culture
- Align strategic goals with operational objectives.
- Shift business paradigms based on the EPM solution.
- Align the EPM solution with business strategy.
- Have the business areas partner with IT departments in ownership and help guide IT project teams.
• Communicate with and engage all relevant business areas.

Ensure that the EPM Imitative Has Sufficient Resources and Backing

Implementing EPM requires an appropriate financial budget and human resources, which often are underestimated because some mistakenly view EPM as merely a different reporting method. As such, they expect the cost to approximate that of a reporting tool rather than an enterprise-wide system. To ensure success, funds must be secured with an enterprise-based implementation/deployment in mind—which includes enterprise-wide software.

If the EPM project has begun, and you have inadequate funds to complete the project successfully, viable options exist. Success is often measured in terms of user-acceptance of the EPM system, so you could consider focusing on specific functionality that will help more users (say budgeting and planning functions) solve a broad business pain (more accurate and timely budgets). Once the pain is resolved and adoption is successful, you can use that success to garner additional funds to add more functionality to solve another business pain (for example, scorecards). This type of phased approach breeds a loyal following that makes moving to the next phase easier. This phased approach is sometimes referred to as the “Start Anywhere” approach.

Employee Buy-in

Deployment of an EPM system is not successful until it is widely used. As part of its EPM implementation plan, an organization must be sure that user acceptance is considered. Such buy-in can be accomplished by these actions:

• Demonstrating executive sponsorship. Getting users to accept the solution often requires a culture change that should begin at the top. Strong executive support is critical to success.
• Setting compensation plans that reinforce use of the system
• Marketing and selling the new EPM environment and providing requisite training
• Making the system easy to use. This can include use of graphical dashboards and scorecards.
• Ensuring a smooth transition to the EPM system and enabling increased efficiency
Resistance to a new tool or performance methodology is to be expected; we often fear the unknown. Expect the strongest resistance among those with the most invested in the old methodology. These people often have valuable IT skills and organizational knowledge. To greatly reduce resistance when replacing a BI tool, enlist the assistance of these employees in migrating to the new system.

**Implementing the EPM Solution**

It is usually best to start with a pilot EPM project, one that is relatively small and can be implemented quickly but which can deliver substantial benefits to the organization. In selecting the initial project, discover and focus on an organization’s biggest planning pain points first.

Many organizations initially focus on the finance function when deploying an EPM solution. Doing so gives the wider corporate culture time to adjust to the philosophical shifts that an EPM initiative entails. Most organizations that have deployed an EPM system in the finance function choose CRM (customer relationship management) as the next area for implementation. EPM systems can help companies extract maximum value from their CRM software assets. Using the understanding of the key metrics provided from EPM will help you focus on the important CRM metrics and how they drive the business.

Many companies contemplating the implementation of an EPM solution must incorporate many applications from assorted vendors. When addressing this situation, most companies take a go-slow approach. Many “grandfather” existing tools and enforce the new EPM only in new projects.

**Master Data Management**

Implementing an EPM solution is more than just implementing a set of BI tools. The first steps are getting the data right and standardizing the delivery method by centralizing the management and administration of enterprise dimensions, data warehouses, and transactional systems.
Best-of-Breed Applications versus Integrated Packages

Many organizations have implemented individual, isolated, BI applications. The advantage to this approach is that users have applications that precisely meet their needs. However, while each of these applications provides local benefit, they may provide little global value, resulting in suboptimal benefits. The individual applications also may have distinct information requirements, leading to an inability to run them off a common data warehouse. It is better in most cases to have a single, integrated EPM solution with a single database and architecture that provides a single version of “the truth.” It is also usually most cost-effective to run an integrated suite of Web-based tools running on a common set of application servers.

The more an organization standardizes on all components of an EPM system—data, metrics, models, architecture, technologies, and processes—the more benefits it reaps. These benefits consist of reduced costs and increased information consistency. Without a common toolset and data source, delivering consistent reports and information; that is, having a single version of the “truth,” is difficult.

Deploying the EPM System

When planning the deployment of an EPM system, it is important to follow a process that helps ensure successful implementation. One approach to defining this process is depicted in Figure 8.
This process includes eight steps: analyze, plan, design, build, test, rollout, review, and change management:

- **Analyze**—Establish clear project success factors by defining the business and technical goals for the solution, including understanding the deployment requirements, project scope, and performance capacity and planning.

- **Plan**—Define the steps necessary to achieve a complete, implemented solution.

- **Design**—Define detailed requirements to meet the desired solutions.

- **Build**—Develop the applications according to the established design.

- **Test**—Ensure that the built applications support the business processes and meet the stated performance objectives.
• Rollout—Move the applications from a test or development environment to a production environment.

• Review—Ensure that the solution continues to support the stated business objectives

• Change management—Define a process for handling changes related to the EPM solution.

Analyze and Plan

The analysis and planning phases of the EPM implementation process are necessary to prepare for a detailed design session. It is essential that adequate time be spent on these phases to streamline the deployment. Factors to consider include the business’ strategy and vision, its technical vision, the user community, and how the EPM system will be used.

Understand and Define the End Goals

It is critical to begin your EPM implementation with the end goals in mind. A clearly articulated strategy, with ties to the departmental and individual goals, is the roadmap required to enable a successful implementation. If each department is enabled to drive its own part of the implementation without a tie to the overall corporate vision, the departmental agendas may be achieved, but the overall achievement of strategy likely will fail. Tying day-to-day operations to the organization’s strategy is critical to the success of the EPM initiative.

Stakeholders and executive sponsors working with EPM initiative leaders can help to ensure that the vision and strategy have been clearly visualized and articulated, enabling leaders to prioritize the phases of implementation to ensure the largest payback and adoption rate while addressing the most pressing business issues.

Know Your Systems: Apply Technology with Wisdom

Implementing an EPM system is more than just buying technology. If the implementation is viewed as strictly a technology exercise, it likely will fail. If the initiative leaders and/or their IT partners have not done their homework, they might try to take this path and simply call on their favorite vendors to be sold the systems that they do not have.

The importance of technology is not to be understated, however. A paper-based or nonintegrated EPM system also likely will fail. A better approach: assess your existing systems and match them to your EPM requirements (detailed in the project plan). Where you lack the
necessary technology to enable a performance-based culture, consider purchasing new technology.

Numerous technology companies have many solutions to fit countless situations. Research them thoroughly and ensure that they and their solutions are sound and proven.

**EPM System Selection**

System integration versus ease of use and functionality is the typical balancing act that business users and IT grapple with daily. For EPM to be successful, both must be considered and implemented equally.

Best-of-breed software typically has the best depth of functionality and pleasing user interfaces. But the big ERP systems tend to have tighter integration. So which is the right choice? EPM-focused vendors can provide both—and provide them in balance. These vendors also tend to empower business users by enabling them to do more-complex tasks through an end-user interface, reducing dependency on IT for mundane and time-consuming tasks and freeing up IT for more strategically focused initiatives.

But selecting the right EPM tool is critical. An organization must consider organizational/strategic and technical requirements and follow a selection process to ensure that it makes a good choice of vendors based on a broad view of the organization and its needs. The tool selected must offer the breadth, depth, and scalability necessary for the organization’s users to carry on its business. For most organizations, the next-generation planning technology must possess the following attributes:

- Dynamic/real-time updates
- Multi-tiered aggregation and granularity
- Integration with enterprise applications and data sources
- Translation between financial and non-financial metrics
- Enhanced creation and management of what-if models
• Real-time display and communication of information.

The rapid adoption of EPM is fueled by a drive to empower the masses with powerful planning, reporting, and analysis tools. The EPM system should leverage the Web to provide a scalable, secure, and reliable EPM infrastructure.

Design
In the design phase, you should create design documents that summarize your organization’s business and technical vision as well as your deployment strategy. Because those responsible for building the application are usually different from those responsible for designing the system, the documentation (including detailed dimension architecture, detailed calculation design, project path with time line and resources) should be as comprehensive as possible.

The main components of the design phase:
• An EPM component checkpoint
• Designing the plan and environment for testing
• Designing security
• Designing the migration plan
• Designing the training plan
• Establishing rollout criteria

Build
After a complete design is discussed and documented, the next step is implementing the design:
• EPM component checkpoint—Designing the deployment while considering all solutions being implemented
• Implementing the application—Implement the design of the application detailed in the design phase
• Developing proof of concept (where it makes sense) — Create a proof of concept to validate certain functionality and distribute to a subset of the user community for testing and feedback. The conceptual proof can also be used for preliminary performance and scalability testing.
• Implementing security — Implement the user setup and security assignments that were detailed in the design phase.
• Developing support processes — Develop support processes to document the use of the application for users and administrative processes that help update and maintain the solution. The main components of the support processes are application, user, administrator, maintenance of hardware, and maintenance of software.
• Create testing scripts — Create the testing scripts for the various types of testing scenarios that will be performed for functional, system, and performance testing.
• Developing a training program — Identify resources and specifics for training and coordinate the training process.

Test
After building the application, you can start validating the solution to ensure that it meets the needs of the business and that the architecture of the environment can support the solution. You can use different types of tests to validate the solution. This phase must be completed so that the rollout phase can be initiated with full knowledge of the performance testing results. The main components of the testing phase:

• EPM Communication Checkpoint — Designing the deployment while considering all solutions being implemented
• Functional Testing — Ensuring that correct results are provided when executing calculations, data entry, report retrieval, consolidation, and so on.
• System Testing — Performing an end-to-end process test to ensure that all of the individual components are compatible.
• User Acceptance Testing (UAT) — Ensuring that the solution has met the needs of the users from a functional and performance perspective.
• Performance Testing—Determine whether the solution meets the performance goals that were highlighted in the design phase and ensuring that the appropriate hardware architecture has been implemented to support the solution.

Rollout

After the system has been tested to validate sizing and performance, it can be rolled out into production. To maintain optimal performance, the following must be monitored:

• EPM Communication Checkpoint—Design the deployment while considering all solutions being implemented.
• Training of End Users—Run the training scripts identified in the design and build phases.
• Completing and Communicating Support Processes—Implement the support processes designed in the Build phase and communicate these processes to users and administrators.
• Go Live Acceptance—Use the checklist in Table 1 for going live in the production environment.
Review Environment Checklist

**Review**

After the application has been deployed, review it to ensure that there is an evaluation of how the plan for the solution was executed. This review phase should include:

- **EPM Communication Checkpoint**—Design the deployment while considering all solutions being implemented.
- **Project Review**—Review the completed solution against the initial goals and requirements.
- **Future Implementation Phase**—Discuss what the future phases will encompass, including goals and objectives, and the proposed solution.

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<th>TASK</th>
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<tr>
<td>Ensure that UAT is completed</td>
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<td>Review partial testing results, if available</td>
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<td>Review application rollout plan and accomplishments</td>
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<td>Review outstanding issues</td>
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<td>Verify the contingency plan (readiness)</td>
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<td>Verify available back-up system and processes</td>
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<td>Process final historical data conversions and updates to production environment</td>
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<td>Synchronize test environment to production</td>
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<td>Assess production environment readiness</td>
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<td>Send go-live recommendation to executive sponsor</td>
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<td>Deploy Business Process and Procedures</td>
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<tr>
<td>Deploy internal support policy and procedures</td>
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<td>Communicate availability of solutions to users</td>
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*Figure 9: Production Environment Checklist*
Change Management

A process must be in place to handle changes related to the EPM system. Changes can take different forms and have various impacts on the solution. When the change is identified, it is imperative that the change management process be followed to ensure that all necessary phases are reviewed before a change is brought into production. This process (Figure 10) is iterative and should be executed in its entirety to ensure that all potential effects are addressed.

The main types of changes that might be made to the EPM solution can be categorized into three groups:

- Business process or user activity or configuration change
- Technical (hardware and software)
- Users

Documenting the details of the final and evolving system is important. Whether you have a new implementation or are re-executing change management, this practice is necessary for sustaining a successful deployment.

For more detailed information, contact Oracle Consulting - EPM & BI group.
Case Studies

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<td>Analyze to Adjust</td>
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<td>BP</td>
<td>Design to Decide</td>
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Figure 11: Case Studies

Valencia Regional Health Agency

Valencia Regional Health Agency Improves Performance Linked to Management Agreements

The Valencia Regional Health Agency serves more than 5 million individuals through a network of 29 hospitals, 828 primary health care centers, 27 specialist centers, and more than 10,000 doctors. To support its strategic plan and management agreements with each local health
department, the agency created the Integrated Management System by Objectives (SIDO22) project, supported on its corporate data warehouse—which is the central repository for health department data.

Challenges

- Provide the 22 local health departments with the means to track and monitor compliance of the management and development objectives
- Align strategy between agency central services, the agency’s 22 decentralized departments, and their employees
- Standardize sets of comparable indicators for key processes
- Facilitate improved employee performance, and gain the ability to link to performance to pay
- Obtain a single overview of the state of the agency through reports and balanced scorecards for directives

Solutions

- Worked with a consultant to implement Oracle’s Hyperion enterprise performance management applications to enable each department to manage its own objectives, as well as agency-wide objectives
- Developed 104 management indicators
- Enabled development of 87 balanced scorecards and dynamic reports and their integration with 15 of the agency’s information systems
- Enabled the agency to track management agreement indicators to assess compliance with objectives, and facilitated decision-making and the adoption of corrective measures
- Increased workforce equality by facilitating alignment between departments and comparing each department’s results
- Enabled a management-by-objectives system with associated evaluation mechanisms that serves as a basis for an effectively differentiated pay scale
- Facilitated internal transparency and competition between departments, fostering performance improvement
BP

Probabilistic Forecasting Solution Helps BP Manage Oil Field Costs and Risks

Founded 100 years ago this year, BP is both a pioneer of the oil industry and one of its leading innovators. The UK-based company has active exploration and production projects in 25 countries, and pumps about 5% of the world’s oil production. It owns 18 refineries and more than 24,600 service stations in 100 countries. While launching some of the most technically ambitious oil and gas projects anywhere, it’s also going ‘Beyond Petroleum’ by forging new markets in alternative energy and green technologies. Oil and energy markets have been going through dramatic changes in recent years. Crude supplies are becoming harder to find outside areas controlled by national oil companies, forcing private-sector oil companies like BP to reach into some of the most remote corners of the earth, and drill to depths never thought possible before. New technologies have been deployed to exploit hard-to-reach reservoirs and to increase recovery rates at existing fields.

The more adventurous projects, however, also come with steeper price tags and longer lead times. Offshore platforms, for example, can cost US$1 billion or more to bring online, and take from five to 10 years to go from discovery to production. Given the enormous capital at stake, it’s not surprising that BP invests heavily in systems and tools that help the company get a handle on oil field costs and timelines, and better understand and manage the risks involved. One of the company’s most important tools employs state-of-the-art probabilistic techniques – also known as Monte Carlo analysis – that predict costs and time with remarkable effectiveness.
Probabilistic Forecasting Solution

After experimenting with a number of probabilistic forecasting solutions, BP adopted an easy-to-use application called Crystal Ball, one of a suite of business intelligence applications from Oracle. Today, roughly 500 engineers in more than 20 countries use the application to forecast time and costs for the vast majority of its big oil projects (approximately 90% of all new wells by overall value). BP spends upwards of US$5 billion each year on oil and gas well development projects.

According to Hugh Williamson, Risk and Cost Advisor in BP’s Drilling and Completions function, the application, along with the collaboration it fosters, plays a crucial role in the early and middle phases of an oil field’s development, giving BP a competitive edge in financial planning, project scheduling and above all, risk management. “Probabilistic forecasting is involved in every major investment decision that we make for wells,” Williamson says. “What’s more, it increases our ability to deliver projects on time and on budget – a big plus when partnering with governments of oil-producing countries or with other operators.”

Key Benefits

- Gained clear understanding of oil field costs and schedule risks
- Enabled productive conversations among engineers about likely project outcomes
- Enabled company to focus on risk areas that can generate the greatest cost and time overruns
- Protected reputation of company for delivering projects on time
- Supported accurate financial planning at the corporate level

How It Works

Crystal Ball software works in combination with a conventional Excel spreadsheet to help users develop sophisticated time-and-cost estimates. The key is the application’s probabilistic or Monte Carlo statistical methods that quantify uncertainty by incorporating expert judgments about the range and likelihood of outcomes in the real world.
The probabilistic techniques embedded in the application are uniquely suited to capturing the range of variables that oil projects face – from bad weather and equipment malfunctions to surprises in geology and in the number and types of wells needed to fully exploit a reservoir. “It’s a method that allows us to incorporate our understanding of risk and uncertainty directly into the estimate,” says Williamson. “So if we think there’s a 20% chance of a drilling operation being hit by a hurricane – which might cost us between 10 and 50 days per well – we can put this information directly into the estimate.

**Spreadsheet Approach**

BP’s spreadsheet-based approach appeals to the hundreds of engineers who build the forecasts. “Engineers love spreadsheets,” Williamson says. “This application is intuitive and engineers can pick it up quickly. I can teach people the fundamentals of how it works in less than 20 minutes.”

**Focusing on the Right Risks**

Punching numbers into a Crystal Ball-powered spreadsheet is only one part of an estimation project, Williamson adds. The overall process or “roadmap” encompasses a series of tasks, including initial planning, data gathering and computing, and finally validating and using the results.

BP engineers often perform several estimates in the course of an oil field development project: an early forecast that necessarily contains higher degrees of uncertainty; and several follow-ups that are more accurate as engineers eliminate many of the unknowns, such as daily rates for rigs and boats.

BP’s estimators often make use of data on the past performance of similar wells – but that’s not always possible. Cutting edge projects may involve new technologies and techniques that lack precedents.

The advantage of this technology lies in helping estimators home-in on risks that could deliver the biggest surprises. To help isolate major risk areas, BP engineers utilize ‘Sensitivity Chart’
function. “It identifies which risks add the most uncertainty in outcome,” Williamson says. “These are the ones we should pay the most attention to.”

Stimulating Conversations

Despite the temptation, Williamson is careful not to automate the forecasting process too much. “Outputs are worthless if the inputs haven't been properly thought through,” he says. Using the probabilistic approach, by requiring estimators to gauge the likelihood and range of outcomes, stimulates productive dialogues among engineers and other experts. “We want those conversations to happen,” he says. “The results of those conversations can be input directly into the front end of the application.”

Lately those conversations have revealed the growing complexity of the oil exploration and development business. Says Williamson: “There’s not much easy oil left, and to get at it, we need to develop some pretty complex, pretty risky projects, and our goal is to execute them better than the competition.” Risks can emerge from places that are hard to predict, he adds. “It’ll be hurricanes in one place, steel prices in another place, and a change of scope in a third place.”

When the time-and-cost estimates have been finalized, they are typically incorporated into a management report known as a “decision support package” which is scrutinized by key decision-makers in the company. On the basis of the report, the company may order more studies on the field, or green light further drilling and development. “Senior management wants to know how much projects are going to cost and how soon they’re going to get their money back,” he says.

With oil and gas only getting tougher to find, Williamson sees continued robust demand for sophisticated estimation solutions. “Projects are going to continue getting more complex and more expensive and more challenging,” he says, “and we have to be up for that challenge and find ways of understanding and communicating that risk and complexity up front.”
Advice from BP

- Keep it simple: “One of the challenges is to not let the spreadsheet template get too complicated, making it unusable by most engineers.”
- Offer continuous training and support, and tool development

BP is one of the world’s largest energy companies, providing its customers with fuel for transportation, energy for heat and light, retail services and petrochemicals products for everyday items.

Doux Group

Doux Group Accelerates Global Expansion through Enhanced Business Analysis

An expert in poultry since its founding in 1955, Doux Group and its subsidiaries offer poultry products in more than 130 countries. The group owns a portfolio of globally recognized brands, including Doux, Frangosul, Lebon, Père Dodu, Supreme, Le Janzé, Alsabia, and Guts-Gold.

With more than 14,500 employees and 12 food factories in five countries, Doux operates and oversees the processing of more than 1.1 million tons of bird and poultry-based processed goods annually.

In the midst of corporate diversification—and fighting the ill effects of a global bird flu scare—Doux needed to analyze the profitability of its entire enterprise on a monthly basis. Doux implemented Oracle’s Hyperion Financial Management to completely redesign its reporting and consolidation systems. Using consistent, reliable financial data, Doux can now make faster, more accurate decisions about growing its global business.
Complex Processes Require Robust Solution

Doux is the only poultry product manufacturer in recent years to successfully diversify its range, expand its global presence, and enhance its supply and distribution network. To support its diversification, Doux must closely monitor its economic and financial performance.

Doux initially attempted to meet its analytical needs by building an Excel-based reporting tool. But the group’s complex processes made it impossible to conduct profitability analysis more than twice a year. Meanwhile, a global bird flu scare sent Doux’s profits tumbling—creating additional pressure to analyze and enhance group profitability.

“We needed to answer questions about the profitability of our product ranges, customers, and countries,” said Marc Diot, corporate controlling director, Doux Group. “But our Excel-based system couldn’t handle the complexities of our product codes, countries, data sources, allocation rules, and intra-group exchanges.”

Monthly Profitability Reports Now Available

By synchronizing operational analysis and financial reporting, Doux’s new solutions enable the group to communicate accurate, consistent monthly performance information across the enterprise. Every six months, Doux reconciles management data with financial data resulting from legal consolidation. During this process, their new system helps ensure consistency across all reporting.

Doux has also implemented a multi-dimensional application that links to its reporting solution and generates weekly analyses of key indicators, such as stock and sales. “Automating our processes has allowed us to create a comprehensive monthly analysis of our gross profit and EBITDA per product range, market, and key account,” said Diot. “The results from these analyses allow us to define target groups for newly launched products and new markets.”

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from these analyses allow us to define target groups for newly launched products and new markets.”

**Saving Time, Improving Credibility**

Doux has now built a solution that fulfills operational needs while also integrating powerful financial intelligence features. The system’s Web architecture increases efficiency by allowing Doux’s branches to analyze data for local decision-making processes. This new system has enhanced the accuracy of Doux’s financial information by letting the group manage document creation centrally.

“Hyperion software helps our management team devote more time to data analysis, rather than data production,” said Diot. “We also have greater confidence in our decision-making data. That’s part of the reason we were able to recover quickly from bird flu and defend our industry lead.”

**Implementation Process**

Within six months, Doux redesigned its reporting tool and consolidation tool by going live on the financial management module. Consultants facilitated the implementation and helped Doux’s employees become productive on the new solutions within a short timeframe.

Doux feeds its new solutions with information from multiple sources. Financial data comes from accounting tools across the group, for example. Doux has synchronized this data to enable consistent analysis at the group level, which is essential in monthly management reporting and quarterly legal consolidation. Operational data flows in from a newly-consolidated data warehouse that allows Doux to segment its data for more precise analysis.

“Oracle’s Hyperion software enabled us to form a new data group so that we can analyze our profitability by brand,” said Diot. “We’ve also automated our data interfaces with Oracle’s Hyperion Financial Management, which means we have eliminated the manual data capture activities we previously had to perform.”
The Doux Group provides poultry and processed poultry products, including fresh and frozen products, whole or cut-up poultry, and processed products. The company sells its products in more than 130 countries in five continents.

Fifth Third Bancorp

Fifth Third Bancorp Increases Financial Visibility across Businesses for Increased Efficiency

Fifth Third Bancorp is a Fortune 500 company and diversified financial services company headquartered in Cincinnati, Ohio. The company has provided quality financial products and services to its customers for almost 150 years. One of the largest banks in the United States by asset size and market capitalization, Fifth Third Bancorp operates five main businesses: Commercial Banking, Branch Banking, Consumer Lending, Investment Advisors, and Fifth Third Processing Solutions.

The company drives revenue and quality loan and deposit growth by adding new customers, increasing market share, and striving to meet the financial services needs of its six million customers. As a result, the company has grown to almost $100 billion in assets and operates 18 affiliates with 1,161 full-service banking centers primarily in the Midwest and Florida— including 109 Bank Mart locations inside select grocery stores and 2,104 Jeanie ATMs.

Faced with the need to improve decision making, reporting, and planning during a period of rapid expansion via organic growth and acquisition, Fifth Third Bancorp turned to Oracle’s Hyperion applications to build an Enterprise Performance Management (EPM) infrastructure solution to accommodate growth. Thanks to Hyperion products, the company is improving its processes while increasing accountability and transparency, revenue and costs predictability, flexibility, and scalability.
Ensuring Data Management Consistency

Acquisitions can wreak havoc on a company’s data consistency. For example, Fifth Third Bancorp’s 2001 Old Kent Bank acquisition, which was approximately a third of Fifth Third Bancorp’s size, caused a massive explosion in the number of general ledger data points. At one time, Fifth Third Bancorp had more than 2.5 million data points, along with 30 to 40 new financial accounts per month. With no single group overseeing master data hierarchy consistency across all systems, employees manually entered master data hierarchy changes monthly—a costly and time-consuming process.

In addition, the company’s data environment contained vast interdependencies and implications among individual systems. The general ledger included more than 11,000 cost centers and 2,500 accounts that represented more than one million open relationships and more than 100 companies. Within Hyperion business intelligence applications, this translated to approximately 20,000 entities—more than one million entities when including duplicate hierarchies.

Senior management recognized the need to address the inconsistencies and established a new Financial Systems Support Group. In addition to managing master data hierarchies, the group oversees new cost centers, companies, and accounts added to the general ledger or other financial systems.

The group developed a rigorous workflow-based submission and review process, which included a formal review board – with representatives from the regulatory, tax, general accounting,
finance, and financial systems groups—to eliminate duplicate, immaterial, or inappropriate cost centers and accounts. The group also ensures approved accounts and cost centers are managed in the correct hierarchies. This process reduced account additions 75%.

The group used Hyperion Data Relationship Management as the catalyst for establishing and improving processes. The application infrastructure is significant, as the group uses the technology to manage change across all financial master data hierarchies—including cost centers, entities, companies, as well as their respective relationships, attributes, and properties.

Addressing Data Hierarchy Challenges

The reporting and consolidation system served three significant but separate purposes (internal management reporting, external reporting, and regulatory reporting) with only one application. Each purpose had diverse functional requirements. As a result, the effort to meet each functional requirement through only one application failed to meet any one purpose effectively.

Additionally, there were multiple master data owners and versions. No single group owned management of the data hierarchies, making it impossible to ensure data consistency through single cost center and account definitions. In addition, the data-capturing methodology favored a general ledger orientation, which eliminated the ability to provide background details regarding key drivers and assumptions.

An affiliate might invest time into modeling how many new loans needed to be generated with specific rate assumptions to calculate a commercial loan portfolio general ledger number. However, there was no way to retain the assumptions that went into the planning calculation. Without the ability to capture such information, it was difficult to compare affiliates.
Automated Master Data Synchronization across Multiple Systems

Numerous systems share master data, including the SAP human resources system, multiple Hyperion Essbase cubes, Oracle financial services applications (FTP and allocation system), several Hyperion business intelligence applications, and three Hyperion Planning applications. Master data is also fed indirectly into an IBM DB2 data warehouse and into the Westport compensation system. Hyperion Data Relationship Management enables Fifth Third Bancorp to manage monthly data updates across multiple systems easily.

“We manage arduously to ensure there is consistency across all systems from our general ledger to business intelligence applications, to our planning application, to our dashboards that link to SAP and Oracle data,” Furtwengler said. “All these systems use the standard hierarchy. From my past experience, Hyperion Data Relationship Management makes my life 10 times easier.”

Fifth Third Bancorp has more than 80 master data hierarchies with more than 450 applicable attributes, which one or more downstream systems may use. The data relationship management’s robust business rules engine, inheritance, and derived calculation capabilities makes it easier for Fifth Third Bancorp to maintain those attributes consistently across all hierarchies.

“We had more than two million data points in our chart of accounts. If you’re familiar with trying to manage that size of an accounting structure, it was unwieldy,” said Bret Furtwengler, vice president, Financial Systems, Fifth Third Bancorp. “So the first thing that we did was to put in a formalized process just to request new accounts. We put in an actual board of review if you wanted to have a new account added. And it was great for Sarbanes Oxley. On top of that, we created one version of the truth on our metadata. Everyone comes to our data relationship management product to get the financial hierarchy.”
Centralized Master Data, Distributed Change Management

Having a data relationship management tool enables Fifth Third Bancorp to empower business users and distribute responsibilities for managing master data change, making the process much more efficient, while the Financial Systems Support Group maintains process control. There are three central administrators, approximately 40 “light” administrators, and 20 view-only users.

For example, the Retail group has 19 administrators each manage master data structures from remote locations. Some master data changes—such as sales organization changes—originate in the different business areas, not the Financial Systems Support Group.

Improved data duality and consistency are key new system benefits. Previously, different groups presented the same information types, but reports were not consistent because the data originated from different sources. The Financial Systems Support Group forced a common answer among the groups to the same set of questions by using Hyperion Data Relationship Management to implement common definition sets and data views.

“Of those 450 plus attributes, we now only need to enter less than ten of them manually. All the rest are derived, defaulted, or inherited, which is pretty incredible when you think about it,” Furtwengler said.

Achieving a Closed Loop Performance Process

Fifth Third Bancorp’s enterprise performance management vision is the integration of operational analytics and financial analytics (and eventually the incorporation of workforce analytics, sales force analytics, and marketing analytics) with the objective of monitoring, measuring, and improving its overall performance.
“In my opinion, there is no such thing as an IT project—there are only business initiatives that are supported by technology solutions,” Furtwengler said. “Our aim is to get to a truly closed loop performance process, which means translating executive-level goals into department-level metrics. Metrics cannot be effectively defined or at a minimum be enforced unless there is executive buy-in to the definition process coupled with technology to enforce standardization. Many technology solutions support the measurement, however, business performance management is about moving from measurement toward management. Integration of existing systems is a key component of this effort. Hyperion applications are at the center of our plans toward closed loop performance management.”

Fifth Third Bancorp is a Fortune 500 diversified financial services company that manages $99.8 billion in assets. Headquartered in Cincinnati, Ohio, Fifth Third Bancorp operates 18 affiliates with 1,161 full-service Banking Centers primarily in the Midwest and Florida— including 109 Bank Mart® locations inside select grocery stores and 2,104 Jeanie® ATMs.

Fonterra Co-operative Group

Fonterra Co-operative Group Establishes Global Financial Visibility, Enhances Strategic Planning

Fonterra Co-operative Group is a leading multinational dairy company owned by 11,600 New Zealand dairy farmers. Its global supply chain connects shareholders’ farms in New Zealand to customers and consumers in 140 countries.

Collecting approximately 3.4 billion gallons of milk per year, Fonterra manufactures and markets more than two million tons of dairy products annually, making it the world’s leader in large-scale milk procurement, processing, and management.

Fonterra needed a financial system that could increase efficiency across its rapidly expanding operations. Oracle’s Hyperion Financial Management enables Fonterra’s global employees to
save results to a centralized database—eliminating the need to e-mail files. Fonterra now creates multiple budget and forecast scenarios that help project and enhance future performance. Moreover, all employees are now working on the same system, looking at the same data, at the same time.

**One Database for Greater Visibility**

Powered by thousands of small dairies, Fonterra is a rapidly growing multinational company with hundreds of financial entities and dozens of company accounts. Recognizing its need to eliminate the inefficient manual tasks associated with its legacy financial system, in 2003 Fonterra set forth to simplify and standardize its business systems. A key step to achieving this priority was the development of a single, global chart of accounts and a centralized Web-based system.

“Prior to Hyperion, our financial system operated on a distributed database, which meant that to update the numbers at our headquarters, we had to send in files from all of our regions,” said Grant Foster, system lead, Fonterra Co-operative Group. “As our company grew, this process became convoluted and time-consuming. We wanted to transition to a solution that would work in all regions but let us maintain a single, centralized database in New Zealand.”

**Flexible Forecasting, Stable Reporting**

Soon after implementing our financial management system, Fonterra prepared its 2005 budget with a minimal learning curve. From there, the company progressed to actuals reporting, statutory reporting, and forecasting. Fonterra’s new forecast model gives the company the flexibility to copy year-to-date actuals into the forecast scenario and then let business units populate the forecast for remaining periods of the year.

“We now create multiple budget and forecast versions,” Foster said. “Our people have the flexibility to take the original numbers the board has approved and build different scenarios based on changing exchange rates or business restructuring. Once we have all versions loaded, we can see one reporting total in the new system.”
Fonterra is now rolling out a three-year business plan that will take the latest data for all business entities and copy it into the first quarter of the year to establish opening balances. Starting with that data, the entities will then forecast the next three years to show where the business is heading.

“We now have multiple versions of budget and forecast, actuals, and fixed year reporting,” Foster said. “We also have a module that will help us transition to IFRS reporting. As we’ve progressed, Hyperion has proven to be a stable reporting platform. Whether you press ‘consolidate’ once or 100 times, it always comes back with the same correct answer.”

**Live Data Streamlines Closing Process**

Fonterra is now reaping the benefits of using a single, centralized financial system. Fonterra’s legacy system required employees to wait for files to be sent back to New Zealand before anyone could view inter-company mismatches. The new system makes mismatches visible around the world as soon as data is submitted.

“With Hyperion Financial Management, we have much greater visibility into our balances, Foster said. “Users can fix their own mismatches and resubmit the numbers. We’ve knocked at least two or three days off the month-end timetable while increasing data quality at the same time.”

**Award Winning Efficiency and Results**

Having accelerated the consolidation process, Fonterra now delivers higher quality information to management in less time. The organization produces board reports with Hyperion Financial Management Excel add-in functionality and employees use Hyperion Reports formats to drill down and analyze the data. Meanwhile, the company has reduced the accounting workload at its headquarters.
“We haven’t increased the size of our team, but we’ve increased the functionality we use within the system,” Foster said. “As a result, we’re providing information more efficiently with value-added analysis. That is having a significant impact on our company.”

After transforming business processes in a relatively short period of time, Fonterra’s Hyperion Financial Management team received the company’s CEO award for delivering uncompromised results. All of Fonterra’s 17,000 global employees are eligible for the CEO award, which highlights notable improvements in efficiency, processes, time savings, and related areas.

Implementation Process

To ensure a successful implementation, key employees from Fonterra held critical positions on the project team, enabling them to provide input that ensured the solution would meet Fonterra’s business needs.

Fonterra tackled the challenge of training a far-flung workforce by gathering “super-users” in New Zealand for training sessions. From there, the super-users returned to their home regions to train their staff. Today, employees can turn to these local experts for speedy, knowledgeable answers—easing the burden on Fonterra’s IT staff.

Fonterra Co-operative Group is an international dairy company responsible for more than one third of international dairy trade. The company, owned by 11,600 New Zealand dairy farmers, generates nearly US$10 billion in annual revenue.

The case studies in this section were all adapted from the Oracle Reference Guide Information for Success: Enterprise Performance Management & Business Intelligence, December 2008.
Capabilities and Component Matrix

Management Excellence Capabilities

Now that each process has been explained, let’s look at the capabilities needed to achieve each process. As can be seen in Figure 12, each management process often requires more than one capability since there are multiple, possible steps within each process. This is why there are overlapping capabilities in Figure 12. Also, for each organization, the requirements likely vary slightly causing even more capabilities to overlap. In the example shown in Figure 12, the management process Gain to Sustain requires the capabilities of “External reporting” and “Strategic and Predictive Modeling”. Investigate to Invest requires “Strategic and Predictive Modeling” capabilities as well, and also “Integrated Business planning”. The process Design to Decide has the same requirements as Investigate to Invest – although perhaps in different amounts and in a different order.

The next two processes, Plan to Act and Analyze to Adjust both make use of “Profitability and Cost Management” capabilities as well as “Scorecarding, Monitoring and Analysis”. In addition, Plan to Act makes use of “Integrated Business planning” capabilities where Analyze to Adjust needs “Financial and Management Reporting”. Finally, the Record to Report process typically needs heavy use of “Financial and Management Reporting” capabilities, but often also uses “Scorecarding, Monitoring and Analysis”.

Supporting all of the management processes, are the underlying capabilities of: Governance, Risk, and Compliance; BI Tools and BI Applications, Real-Time Monitoring; OLAP, Data Warehouse, Data Mining; Data Integration, Application Management and Master Data Management. These supporting capabilities typically span all of the management processes.
Keep in mind, different organizations may need additional capabilities for some of the management processes. For example, the scorecarding capability might be used in the Gain to Sustain process in order to create stakeholder or supplier scorecard reporting. The capability matrix shown is meant only as a guideline as each organization has unique requirements.

EPM is widely positioned as a management discipline of strategic importance. But it cannot serve a strategic role if it is confined to the back office. In order to be effective, EPM must be applied throughout the organization. It should support strategic decision making, not just tactical management execution. It should reach beyond providing internal management information to support stakeholder management. It should encompass operations as well as finance; and all of these steps must be taken together. In this way, EPM becomes the glue that aligns the Management Excellence framework.

In figure 13, the core capabilities of the Management Excellence framework are listed, as well as a high-level breakdown of the capabilities and a list of possible Oracle/Hyperion EPM modules.
for each capability. This list is not exhaustive, however it will give you a good idea of which modules could be used to build your EPM system, and which modules can be used for multiple capabilities.

<table>
<thead>
<tr>
<th>Management Excellence Framework Core Capabilities</th>
<th>Capability Breakdown</th>
<th>Module</th>
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<tbody>
<tr>
<td><strong>EXTERNAL REPORTING</strong></td>
<td>Financial consolidation - regulatory filing</td>
<td>Hyperion Financial Management</td>
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<tr>
<td></td>
<td>Financial consolidation</td>
<td>Hyperion Financial Management</td>
</tr>
<tr>
<td><strong>STRATEGIC &amp; PREDICTIVE MODELING</strong></td>
<td>Strategic planning cost of capital management</td>
<td>Hyperion Strategic Finance</td>
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<td></td>
<td>Strategic planning capital employed management</td>
<td>Hyperion Strategic Finance</td>
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<tr>
<td></td>
<td>Strategic planning revenue management</td>
<td>Hyperion Strategic Finance</td>
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<tr>
<td></td>
<td>Strategic planning operating expense management</td>
<td>Hyperion Strategic Finance</td>
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<td></td>
<td>Strategic planning finance, treasury &amp; planning FTE management</td>
<td>Hyperion Strategic Finance</td>
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<td></td>
<td>Strategic planning for unplanned expenses</td>
<td>Hyperion Strategic Finance</td>
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<td></td>
<td>Run simulations incorporating uncertainty and constraints</td>
<td>Crystal Ball</td>
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<td></td>
<td>Integrated Operational Planning</td>
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<tr>
<td><strong>INTEGRATED BUSINESS PLANNING</strong></td>
<td>Planning and budgeting</td>
<td>Hyperion Planning</td>
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<td></td>
<td>Workforce planning</td>
<td>Hyperion Workforce Planning</td>
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<td></td>
<td>Capital expense planning</td>
<td>Capital Asset Planning</td>
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<tr>
<td><strong>PROFITABILITY &amp; COST MANAGEMENT</strong></td>
<td>Calculate Profitability</td>
<td>Hyperion Profitability &amp; Cost Management</td>
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<tr>
<td><strong>SCORECARDING, MONITORING &amp; ANALYSIS</strong></td>
<td>Management information &amp; performance monitoring</td>
<td>Hyperion Performance Scorecard</td>
</tr>
<tr>
<td><strong>FINANCIAL &amp; MGMT REPORTING</strong></td>
<td>Financial consolidation efficiency</td>
<td>Hyperion Financial Management</td>
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<td></td>
<td>Financial consolidation</td>
<td>Hyperion Financial Management</td>
</tr>
<tr>
<td></td>
<td>Financial consolidation - data quality</td>
<td>Hyperion Financial Management</td>
</tr>
<tr>
<td><strong>BI TOOLS &amp; BI APPLICATIONS, REAL-TIME MONITORING</strong></td>
<td>Analysis &amp; monitoring</td>
<td>Various Purpose-Built Tools &amp; Apps</td>
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<td>Financial Analytics</td>
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<td>Loyalty Analytics</td>
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<td>Procurement &amp; Spend Analytics</td>
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<td>Supply Chain &amp; Order Management</td>
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<td>Analytics</td>
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<td>Contact Center Analytics</td>
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<td>Marketing Analytics</td>
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<tr>
<td><strong>OLAP, DATA WAREHOUSE, DATA MINING</strong></td>
<td>Business scenario modeling</td>
<td>Oracle Essbase</td>
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<td></td>
<td>Analytic environment and capability</td>
<td>Oracle Essbase</td>
</tr>
<tr>
<td><strong>DATA INTEGRATION, APPLICATION MANAGEMENT &amp; MASTER DATA MANAGEMENT</strong></td>
<td>Data relationship management</td>
<td>Data Relationship Management</td>
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<td></td>
<td>Enterprise Performance Management</td>
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<td>Architect</td>
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<td>Financial Data Quality Management</td>
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</tbody>
</table>

Figure 13: Management Excellence Capabilities and Components
There has been a lot of material presented in this guide dealing with management processes and capabilities. In the end, having a solid, integrated, EPM system in place that will support your Management Excellence efforts is necessary. Although Management Excellence does not dictate using a single vendor, Oracle can provide a complete Management Excellence system.

If you are not familiar with the Oracle/Hyperion Modules, Figure 14 contains many of the application/tool names found in this document, and a brief description of the main purpose for each.

<table>
<thead>
<tr>
<th>Oracle Module</th>
<th>BRIEF DESCRIPTION</th>
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<tbody>
<tr>
<td>Hyperion Financial Management</td>
<td>Global financial consolidation, reporting and analysis in a single application</td>
</tr>
<tr>
<td>Hyperion Planning</td>
<td>Centralized Web and Excel based planning, budgeting, forecasting solution</td>
</tr>
<tr>
<td>Hyperion Performance Scorecard</td>
<td>Balanced Scorecard certified tool; monitor KPIs against strategy and goals</td>
</tr>
<tr>
<td>Hyperion Strategic Finance</td>
<td>Financial modeling app to explore financial impact of alternative strategies</td>
</tr>
<tr>
<td>Hyperion Capital Asset Planning</td>
<td>Specialized planning module that automates the planning of capital assets</td>
</tr>
<tr>
<td>Hyperion Workforce Planning</td>
<td>Specialized planning module for headcount, salary, and compensation</td>
</tr>
<tr>
<td>Oracle BI Suite Enterprise Edition Plus</td>
<td>Flagship BI platform; complete BI capabilities; heterogeneous data support</td>
</tr>
<tr>
<td>Oracle Essbase</td>
<td>Leading OLAP Server provides rich calculations, speed of thought analysis</td>
</tr>
<tr>
<td>Oracle Sales Analytics</td>
<td>Insight into forecast, pipeline, customers, cross-selling, competitive trends</td>
</tr>
<tr>
<td>Oracle Contact Center Telephony Analytics</td>
<td>Insight into CC and agent performance, call times, IVR, costs</td>
</tr>
<tr>
<td>Oracle Service Analytics</td>
<td>Insight into service levels, SR aging, activities, service agreements</td>
</tr>
<tr>
<td>Oracle Marketing Analytics</td>
<td>Insight into customers, marketing plans, campaign performance, events</td>
</tr>
<tr>
<td>Oracle Order Mgmt &amp; Fulfillment Analytics</td>
<td>Insight into the order to cash process, fulfillment efficiency, backlog</td>
</tr>
<tr>
<td>Oracle Supply Chain Analytics</td>
<td>Insight into procurement spending, supplier performance, inventory</td>
</tr>
<tr>
<td>Oracle Financial Analytics</td>
<td>Insight into financial condition, payables, receivables, profitability, GL</td>
</tr>
<tr>
<td>Oracle HR Analytics</td>
<td>Insight into workforce profile, turnover, compensation, talent retention</td>
</tr>
<tr>
<td>Oracle Project Analytics</td>
<td>Insight into project budgets, plans, forecasts and profitability at individual and portfolio level</td>
</tr>
<tr>
<td>Oracle Loyalty Analytics</td>
<td>Insight into customer retention, impact of loyalty programs and campaigns</td>
</tr>
<tr>
<td>Oracle Crystal Ball</td>
<td>Predictive modeling, forecasting, Monte Carlo simulation, and optimization</td>
</tr>
<tr>
<td>Hyperion Profitability and Cost Management</td>
<td>A flexible allocations platform for any cost method including ABC, time estimation, etc.</td>
</tr>
<tr>
<td>Hyperion Data Relationship Management</td>
<td>A solution to align enterprise dimensions across multiple systems and applications. Enforces consistency within dimensions &amp; hierarchies despite endless changes within the underlying transactional and analytical systems</td>
</tr>
<tr>
<td>Hyperion Enterprise Performance Management Architect</td>
<td>Consistency amongst dimensionality definitions for Hyperion EPM products; deploy models; data synchronization</td>
</tr>
<tr>
<td>Hyperion Financial Data Quality Management</td>
<td>Helps to integrate and validate financial data from source systems and develop standardized financial data management processes with its Web-based guided workflow user interface</td>
</tr>
<tr>
<td>Oracle Integrated Operational Planning</td>
<td>Change operational assumptions, re-evaluate planning scenarios, assess business impact, and rapidly update the plan of record</td>
</tr>
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</table>

Figure 14: Oracle Modules and Descriptions

As a fundamental business principle, Management Excellence touches every part of the organization, from the executive board to the most junior member of the workforce. Everyone has a part to play in helping the company succeed in meeting its goals. With the Management Excellence framework and an EPM solution in place across the organization, companies set themselves up to win.
## Glossary

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
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</thead>
<tbody>
<tr>
<td>Ad-hoc Analysis</td>
<td>An online analytical query created on-the-fly by an end user.</td>
</tr>
<tr>
<td>Balanced Scorecard</td>
<td>A performance achievement framework developed by Robert S. Kaplan and David P. Norton that required performance measurement systems to identify measures and objectives related to four perspectives: financial, customer, internal process and leaning and growth.</td>
</tr>
<tr>
<td>Business Intelligence</td>
<td>Knowledge gained through the analysis of business information</td>
</tr>
<tr>
<td>Business Intelligence Tools</td>
<td>The tools and technologies used to access and analyze business information. They include tools for query and reporting; OLAP (online analytical processing); data mining and advanced analytics; end-user tools for ad hoc query and analysis; and enterprise-class query, analysis, and reporting, including dashboards, for performance monitoring and production reporting against all enterprise data sources.</td>
</tr>
<tr>
<td>Consolidation</td>
<td>Process takes data from different systems and entities and possibly disparate formats, and combines and aggregates that information to create a unified view.</td>
</tr>
<tr>
<td>Dashboard</td>
<td>Application or custom user interface organizes and presents information in a graphical, easy-to-read format. The information may be integrated from multiple components into a unified display. A dashboard metaphor is useful for conveying the idea. The difference is that in Enterprise Performance Management, the dashboard is interactive. A dashboard helps monitor individual, business unit, and organizational performance and processes for a greater understanding of the business.</td>
</tr>
<tr>
<td>Data Mart</td>
<td>Data collection and organization system designed to work on a departmental level.</td>
</tr>
<tr>
<td>Term</td>
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<td>-------------------------------------------</td>
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<tr>
<td>Decision Support</td>
<td>Business analytics presented in a format appropriate for use by executives in making decisions; also called a decision support system.</td>
</tr>
<tr>
<td>Data Warehouse</td>
<td>Data collection and organization system designed to work on an enterprise level.</td>
</tr>
<tr>
<td>Enterprise Performance Management (EPM)</td>
<td>EPM is a management discipline that embraces and combines all management processes.</td>
</tr>
<tr>
<td>EPM Center of Excellence (CoE)</td>
<td>An EPM Center of Excellence is an organizational entity that groups interrelated skills, experience, and domain expertise together to promote and deliver technology through a consistent set of skills, standards, and best practices. It delivers repeatable, successful deployments in a way that is beneficial to the entire organization rather than just a single project.</td>
</tr>
<tr>
<td>ETL (Extract, Transform and Load)</td>
<td>Technologies that extract raw data from a company’s data sources (for example, transactional systems, databases, and so on) transform it into business terms and load it into a data warehouse or equivalent system, where it can be accessed by end users to analyze the business.</td>
</tr>
<tr>
<td>KPI (Key Performance Indicator)</td>
<td>A measurement, or metric, that is included on a scorecard because it drives performance achievement. Key performance indicators express objectives in financial units for comparative purposes. Financial information can be used to compare results and thus measure performance.</td>
</tr>
<tr>
<td>Management Excellence</td>
<td>Management Excellence is a framework of defined management processes that, when implemented well, achieves EPM.</td>
</tr>
<tr>
<td>Management Excellence Framework</td>
<td>The Management Excellence framework is a conceptual structure designed to explain each of the six core management processes spanning the strategic, operational and financial levels of the organization. Those processes are; Gain to Sustain, Investigate to Invest, Design to Decide, Plan to Act, Analyze to Adjust, and Record to Report.</td>
</tr>
<tr>
<td>Master Data</td>
<td>Data that is shared across systems (such as lists or hierarchies of customers, suppliers, accounts, or organizational units) and is used to classify and define transactional data. Many companies currently manage their master data in a very manual fashion (via spreadsheets), in a homegrown system, or in some cases they are not managing it at all.</td>
</tr>
<tr>
<td>Monte Carlo Simulation</td>
<td>Mathematical technique that uses random numbers to measure the effects of uncertainty. Model inputs (for example, costs and revenues) are defined as probability distributions.</td>
</tr>
</tbody>
</table>
(for example, the normal distribution, or bell curve), and these are repeatedly sampled to forecast their effect on model outputs (for example, Net Present Value, Earnings per Share). Simulation results provide a level or risk or probability that guides business decisions.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>OLAP (Online Analytical Processing)</td>
<td>Manipulating large chunks of data in response to analytical queries by end users. OLAP data is organized by dimensions (for example, time, products, geographies, measures, scenarios, and so on) that include hierarchies, which support drilling down from higher levels to more-detailed views. OLAP gives analysts, managers, and executives insight into data through fast, consistent interactive access to a wide variety of possible views of information. OLAP technology enables data to be explored well beyond the capabilities of traditional reporting systems.</td>
</tr>
<tr>
<td>OLAP Model</td>
<td>In Essbase Integration Services, an OLAP model is a logical model (star schema) that is created from tables and columns in a relational database. The OLAP model is then used to generate the structure of a multidimensional database.</td>
</tr>
<tr>
<td>Performance-Accountable Organization</td>
<td>Organization that delivers continuous performance improvement and accountability in all of its activities, from all of its employees, across the enterprise. When an organization is truly performance accountable, CEOs and CFOs can report openly and comprehensively on performance and set expectations with confidence.</td>
</tr>
<tr>
<td>Performance Scorecard</td>
<td>Strategic management tool designed to translate an organization’s mission statement and overall business strategy into specific, quantifiable goals and to monitor the organization’s overall performance—not just financial returns—so that future performance can be predicted and proper actions taken to create the desired future.</td>
</tr>
<tr>
<td>Rolling Forecast</td>
<td>Forecasting method that shifts planning away from historic budgeting and forecasting and moves it toward a continuous predictive modeling method. It requires access to relevant information from multiple data sources as well as business processes throughout the enterprise.</td>
</tr>
<tr>
<td>Sarbanes-Oxley</td>
<td>Act that changed the corporate landscape in the United States with regard to financial reporting and auditing for publicly traded companies. Written to address many of the issues brought to light during the incidents involving Enron and Arthur Andersen, the law, which went into effect July 30, 2002, establishes stringent financial reporting requirements for companies doing business in the U.S.</td>
</tr>
<tr>
<td>Scorecard</td>
<td>Application or custom user interface that helps manage enterprise performance by optimizing and aligning organizational units, business processes, and individuals. It also should provide internal and industry benchmarks, as well as goals and targets that help individuals understand their contributions to the organization. The use of scorecards spans the operational, tactical, and strategic aspects of the business and its decisions. Often, methodologies derived from internal best practices, or an external industry methodology, are used for scorecards. (For example, the term “The Balanced Scorecard”</td>
</tr>
</tbody>
</table>
Six Sigma

Rigorous and disciplined methodology that uses data and statistical analysis to measure and improve a company’s operational performance by identifying and eliminating “defects” (driving toward six standard deviations between the mean and the nearest specification limit) in manufacturing and service-related processes. Six Sigma, in many organizations, simply means a measure of quality that strives for near-perfection.

specifically refers to the Kaplan and Norton methodology.)

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Authors and Contributors

Principal Author
Toby Hatch, Senior Strategist, Enterprise Performance Management

Contributing Authors
Many people contributed their time and expertise to create this guide. Thanks and appreciation goes out to, but is not limited to:

Frank Buystendijk, Vice President and Fellow, Enterprise Performance Management
Jim Campbell, Technology Sales Representative, FDM
Mitch Campbell, Director, Business Intelligence
Dave Collins, Director, Analytics
Floyd Conrad, Senior Director, Enterprise Planning
Mark Conway, Director, EPM Alliances & Research
Gilles Demarquet, Manager, BI and PM Enabling Technologies
Denis Desroches, Principal, Enterprise Planning
Dan Mitzner, Product Marketing Manager, Crystal Ball
John Hite, Senior Director, EPM Enabling Technologies
Kathy Horton, Senior Director, Solution Specialists
Will Kaffengerber, Manager, Enterprise Planning, Strategic Planning
John Kopcke, SVP, Business Intelligence and Performance Management
Jake Krakauer, Senior Director, BI Applications
Michael van der Merwe, Manager, BI & PM Enabling Technologies
Malou Nicklow, Manager, Enabling technologies
Paul Peters, Director, Business Intelligence
Allen Prattis, Director, Enabling technologies
Thomas Oestreich, Chief EPM Strategist
John O’Rourke, Vice President, EPM Product Marketing
Robin Peel, Manager, BI & PM Enabling Technologies
Stephane Ribault, Director, Enterprise Planning
Jennifer Stout, Senior Technical Editor
Christian Wetterwald, Director, Financial Consolidation & Reporting
Loretta Zingone, Manager, Commercial and NASA Tech Proposal Services

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Please direct any comments or suggestions for future revisions to Toby.Hatch@Oracle.com