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Are competitors obtaining sharper, more timely insights? Are they able to regain market advantage, neglected while focusing on expenses during the past two years? Are they correctly interpreting new signals from the global economy — and adequately assessing the impact on their customers and partners? Knowing what happened and why it happened are no longer adequate. Organizations need to know what is happening now, what is likely to happen next and what actions should be taken to get the optimal results.

Big Data, Analytics and the Path From Insights to Value
How the smartest organizations are embedding analytics to transform information into insight and then action. Findings and recommendations from the first annual New Intelligent Enterprise Global Executive study.

BY STEVE LAVALLE, ERIC LESSER, REBECCA SHOCKLEY, MICHAEL S. HOPKINS AND NINA KRUSCHWITZ

In every industry, in every part of the world, senior leaders wonder whether they are getting full value from the massive amounts of information they already have within their organizations. New technologies are collecting more data than ever before, yet many organizations are still looking for better ways to obtain value from their data and compete in the marketplace. Their questions about how best to achieve value persist.

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To help organizations understand the opportunity of information and advanced analytics, MIT Sloan Management Review partnered with the IBM Institute for Business Value to conduct a survey of nearly 3,000 executives, managers and analysts working across more than 30 industries and 100 countries. (See "About the Research.")

Among our key findings: Top-performing organizations use analytics five times more than lower performers. (See "Analytics Trumps Intuition.") Overall, our survey found a widespread belief that analytics offers value. Half of our respondents said that improvement of information and analytics was a top priority in their organizations. And more than one in five said they were under intense or significant pressure to adopt advanced information and analytics approaches.

The source of the pressure is not hard to ascertain. Six out of 10 respondents cited innovating to achieve competitive differentiation as a top business challenge. The same percentage also agreed that their organization has more data than it can use effectively. Organizational leaders want analytics to exploit their growing data and computational power to get smart, and get innovative, in ways they never could before.

Senior executives now want businesses run on data-driven decisions. They want scenarios and simulations that provide immediate guidance on the best actions to take when disruptions occur — disruptions ranging from unexpected competitors or an earthquake in a supply zone to a customer signaling a desire to switch providers. Executives want to understand optimal solutions based on complex business parameters or new information, and they want to take action quickly.

These expectations can be met — but with a caveat. For analytics-driven insights to be consumed — that is, to trigger new actions across the organization — they must be closely linked to business strategy, easy for end-users to understand and embedded into organizational processes so that action can be taken at the right time. That is no small task. It requires painstaking focus on the way insights are infused into everything from manufacturing and new product development to credit approvals and call center interactions.

Top Performers Say Analytics Is a Differentiator

Our study clearly connects performance and the competitive value of analytics. We asked respondents to assess their organization’s competitive position. Those who selected “substantially outperform industry peers” were identified as top performers, while those who selected “somewhat or substantially underperform industry peers” were grouped as lower performers.

We found that organizations that strongly agreed that the use of business information and analytics differentiates them within their industry were twice as likely to be top performers as lower performers.

Top performers approach business operations differently than their peers do. Specifically, they put analytics to use in the widest possible range of decisions, large and small. They were twice as likely to use analytics to guide future strategies, and twice as likely to use insights to guide day-to-day operations. (See “The Analytics Habits of Top Performers,” p. 24.) They make decisions based on rigorous analysis at more than double the rate of lower performers. The correlation between performance and analytics-driven management has important implications to organizations, whether they are seeking growth, efficiency or competitive differentiation.

Three Levels of Capabilities Emerged, Each with Distinct Opportunities

Organizations that know where they are in terms of analytics adoption are better prepared to turn challenges into opportunities. We segmented respondents based on how they rated their organization’s analytics prowess, specifically how thoroughly their organizations had been transformed by better uses of analytics and information. Three levels of analytics capability emerged — Aspirational, Experienced and Transformed — each with clear distinctions. (See “The Three Stages of Analytics Adoption.”)

Aspirational. These organizations are the furthest from achieving their desired analytical goals. Often they are focusing on efficiency or automation of existing processes and searching for ways to cut costs. Aspirational organizations currently have
few of the necessary building blocks — people, processes or tools — to collect, understand, incorporate or act on analytic insights.

**Experienced.** Having gained some analytic experience — often through successes with efficiencies at the Aspirational phase — these organizations are looking to go beyond cost management. Experienced organizations are developing better ways to collect, incorporate and act on analytics effectively so they can begin to optimize their organizations.

**Transformed.** These organizations have substantial experience using analytics across a broad range of functions. They use analytics as a competitive differentiator and are already adept at organizing people, processes and tools to optimize and differentiate. Transformed organizations are less focused on cutting costs than Aspirational and Experienced organizations, possibly having already automated their operations through effective use of insights. They are most focused on driving customer profitability and making targeted investments in niche analytics as they keep pushing the organizational envelope.

Transformed organizations were three times more likely than Aspirational organizations to indicate that they substantially outperform their industry peers. This performance advantage illustrates the potential rewards of higher levels of analytics adoption.

**Data Is Not the Biggest Obstacle**

Despite popular opinion, getting the data right is not a top challenge that organizations face when adopting analytics. Only about one out of five respondents cited concern with data quality or ineffective data governance as a primary obstacle.

The adoption barriers that organizations face most are managerial and cultural rather than related to data and technology. The leading obstacle to widespread analytics adoption is lack of understanding of how to use analytics to improve the business, according to almost four of 10 respondents. More than one in three cite lack of management bandwidth due to competing priorities. (See “The Impediments to Becoming More Data Driven.”)

**Information Must Become Easier to Understand and Act Upon**

Executives want better ways to communicate complex insights so they can quickly absorb the meaning of the data and take action. Over the next two years, executives say they will focus on supplementing standard historical reporting with emerging approaches that make information come alive. These include data visualization and process simulation as well as text and voice analytics, social media analysis and other predictive and prescriptive techniques.

New tools like these can make insights easier to understand and to act on at every point in an organization, and at every skill level. They transform numbers into information and insights that can be readily put to use, versus having to rely on further interpretation or leaving them to languish due to uncertainty about how to act.
What Leaders Can Do to Make Analytics Pay Off — A New Methodology

It takes big plans followed by discrete actions to gain the benefits of analytics. But it also takes some very specific management approaches. Based on data from our survey, our engagement experience, case studies and interviews with experts, we have been able to identify a new, five-point methodology for successfully implementing analytics-driven management and for rapidly creating value. The recommendations that follow are designed to help organizations understand this “new path to value” and how to travel it. While each recommendation presents different pieces of the information-and-analytics value puzzle, each one meets all of these three critical management needs:

**Reduced time to value.** Value creation can be achieved early in an organization’s progress to

<table>
<thead>
<tr>
<th>ASPIRATIONAL</th>
<th>EXPERIENCED</th>
<th>TRANSFORMED</th>
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</thead>
<tbody>
<tr>
<td><strong>Motive</strong></td>
<td><strong>Use analytics to justify actions</strong></td>
<td><strong>Use analytics to guide actions</strong></td>
</tr>
<tr>
<td><strong>Functional proficiency</strong></td>
<td><strong>Financial management and budgeting</strong>&lt;br&gt;<strong>Operations and production</strong>&lt;br&gt;<strong>Sales and marketing</strong></td>
<td><strong>All Aspirational functions</strong>&lt;br&gt;<strong>Strategy/business development</strong>&lt;br&gt;<strong>Customer service</strong>&lt;br&gt;<strong>Product research/development</strong></td>
</tr>
<tr>
<td><strong>Business challenges</strong></td>
<td><strong>Competitive differentiation through innovation</strong>&lt;br&gt;<strong>Cost efficiency (primary)</strong>&lt;br&gt;<strong>Revenue growth (secondary)</strong></td>
<td><strong>Competitive differentiation through innovation</strong>&lt;br&gt;<strong>Revenue growth (primary)</strong>&lt;br&gt;<strong>Cost efficiency (secondary)</strong></td>
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<tr>
<td><strong>Key obstacles</strong></td>
<td><strong>Lack of understanding how to leverage analytics for business value</strong>&lt;br&gt;<strong>Executive sponsorship</strong>&lt;br&gt;<strong>Culture does not encourage sharing information</strong></td>
<td><strong>Lack of understanding how to leverage analytics for business value</strong>&lt;br&gt;<strong>Skills within line of business</strong>&lt;br&gt;<strong>Ownership of data is unclear or governance is ineffective</strong></td>
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<tr>
<td><strong>Data management</strong></td>
<td><strong>Limited ability to capture, aggregate, analyze or share information and insights</strong></td>
<td><strong>Moderate ability to capture, aggregate and analyze data</strong>&lt;br&gt;<strong>Limited ability to share information and insights</strong></td>
</tr>
<tr>
<td><strong>Analytics in action</strong></td>
<td><strong>Rarely use rigorous approaches to make decisions</strong>&lt;br&gt;<strong>Limited use of insights to guide future strategies or day-to-day operations</strong></td>
<td><strong>Some use of rigorous approaches to make decisions</strong>&lt;br&gt;<strong>Growing use of insights to guide future strategies, but still limited use of insights to guide day-to-day operations</strong></td>
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**THE THREE STAGES OF ANALYTICS ADOPTION**

Three capability levels — Aspirational, Experienced and Transformed — were based on how respondents rated their organization’s analytic prowess.

**THE ANALYTICS HABITS OF TOP PERFORMERS**

Top-performing organizations were twice as likely to use analytics to guide day-to-day operations and future strategies as lower performers.

- Use insights to guide future strategies: Top Performers 46%, Lower Performers 23%
- Use insights to guide day-to-day operations: Top Performers 51%, Lower Performers 27%
analytics sophistication. Contrary to common assumptions, it doesn’t require the presence of perfect data or a full-scale organizational transformation.

**Increased likelihood of transformation that’s both significant and enduring.** The emerging methodology we’ve identified enables and inspires lasting change (strategic and cultural) by tactically overcoming the most significant organizational impediments.

**Greater focus on achievable steps.** The approach used by the smartest companies is powerful in part because each step enables leaders to focus their efforts and resources narrowly rather than implementing universal changes — making every step easier to accomplish with an attractive ROI.

Whether pursuing the best channel strategy, the best customer experience, the best portfolio or the best process innovation, organizations embracing this approach will be first in line to gain business advantage from analytics.

**[RECOMMENDATION 1]**

**First, Think Biggest**

Focus on the biggest and highest-value opportunities

Does attacking the biggest challenge carry the biggest risk of failure? Paradoxically, no — because big problems command attention and incite action. And as survey participants told us, management bandwidth is a top challenge. When a project’s stakes are big, top management gets invested and the best talent seeks to get involved.

It’s extraordinarily hard for people to change from making decisions based on personal experience to making them from data — especially when that data counters the prevailing common wisdom. But upsetting the status quo is much easier when everyone can see how it could contribute to a major goal. With a potential big reward in sight, a significant effort is easier to justify, and people across functions and levels are better able to support it.

Conversely, don’t start doing analytics without strategic business direction, as those efforts are likely to stall. Not only does that waste resources, it risks creating widespread skepticism about the real value of analytics.

In our discussions with business executives, we have repeatedly heard that analytics aligned to a significant organizational challenge makes it easier to overcome a wide range of obstacles. Respondents cited many challenges, and none can be discounted or minimized: Executive sponsorship of analytics projects, data quality and access, governance, skills and culture all matter and need to be addressed in time. But when overtaken by the momentum of a single big idea and potentially game-changing insight, obstacles like these get swept into the wake of change rather than drowning the effort.

**[RECOMMENDATION 2]**

**Start in the Middle**

Within each opportunity, start with questions, not data

Organizations traditionally are tempted to start by gathering all available data before beginning their analysis. Too often, this leads to an all-encompassing focus on data management — collecting, cleansing and converting data — that leaves little time, energy or resources to understand its potential uses. Actions taken, if any, might not be the most valuable ones. Instead, organizations should
start in what might seem like the middle of the process, implementing analytics by first defining the insights and questions needed to meet the big business objective and then identifying those pieces of data needed for answers.

By defining the desired insights first, organizations can target specific subject areas and use readily available data in the initial analytic models. The insights delivered through these initial models will illuminate gaps in the data infrastructure and business processes. Time that would have been spent cleaning up all data can be redirected toward targeted data needs and specific process improvements that the insights identify, enabling iterations of value.

Companies that make data their overriding priority often lose momentum long before the first insight is delivered, frequently because a data-first approach can be perceived as taking too long before generating a financial return. By narrowing the scope of these tasks to the specific subject areas needed to answer key questions, value can be realized more quickly, while the insights are still relevant.

Also, organizations that start with the data or process change often end up with unintended consequences — such as data that is not extensible or processes that are ultimately eliminated — that require rework and additional resources to solve.

Speeding Insights into Business Operations

Compared with other respondents, Transformed organizations are good at data capture. (See “What Data-Transformed Companies Do.”) Additionally, Transformed organizations are much more adept at data management. In these areas, they outpaced Aspirational organizations up to tenfold in their ability to execute.

Enterprise processes have many points where analytic insights can boost business value. The operational challenge is to understand where to apply those insights in a particular industry and organization. When a bank customer stops automatic payroll deposits or remittance transfers, for example, who in the organization should be alerted and tasked with finding out whether the customer is changing jobs or planning to switch banks? Where customer satisfaction is low, what insights are needed, and how should they be delivered to prevent defections?

To keep the three gears moving together — data, insights and timely actions — the overriding business purpose must always be in view. That way, as models, processes and data are tested, priorities for the next investigation become clear. Data and models get accepted, rejected or improved based on business need. New analytic insights — descriptive, predictive and prescriptive — are embedded into increasing numbers of applications and processes, and a virtuous cycle of feedback and improvement takes hold.

[RECOMMENDATION 3]

Make Analytics Come Alive

Embed insights to drive actions and deliver value

New methods and tools to embed information into business processes — use cases, analytics solutions, optimization, work flows and simulations — are making insights more understandable and actionable. Respondents identified trend analysis, forecasting and standardized reporting as the most important tools they use today. However, they also identified tools that will have greater value in 24 months. The downswings in “as-is” methods accompanied by corresponding upswings in “to-be” methods were dramatic. (See “Where Are Data-Driven Managers Headed?” p. 27.)

Today’s staples are expected to be surpassed in the next 24 months by:

1. Data visualization, such as dashboards and scorecards
2. Simulations and scenario development
3. Analytics applied within business processes
4. Advanced statistical techniques, such as regression analysis, discrete choice modeling and mathematical optimization.

Organizations expect the value from these emerging techniques to soar, making it possible for data-driven insights to be used at all levels of the organization. For example, GPS-enabled navigation devices can superimpose real-time traffic patterns and alerts onto navigation maps and suggest the best routes to drivers.

Similarly, in oil exploration, three-dimensional renderings combine data from sensors in the field with collaborative and analytical resources accessible across the enterprise. Production engineers can incorporate geological, production and pipeline information into their drilling decisions.

Beyond 3-D, animated maps and charts can simulate critical changes in distribution flow or projected changes in consumption and resource availability. In the emerging area of analytics for unstructured data, patterns can be visualized through verbal maps that pictorially represent word frequency, allowing marketers to see how their brands are perceived.

Innovative uses of this type of information layering will continue to grow as a means to help individuals across the organization consume and act upon insights derived through complex analytics that would otherwise be hard to piece together.

**New Techniques and Approaches Transform Insights into Actions** New techniques to embed insights will gain in value by generating results that can be readily understood and acted upon:

- Dashboards that now reflect actual last-quarter sales will also show what sales could be next quarter under a variety of different conditions — a new media mix, a price change, a larger sales team, even a major weather or sporting event.
- Simulations evaluating alternative scenarios will automatically recommend optimal approaches — such as the best media mix to introduce a specific product to a specific segment, or the ideal number of sales professionals to assign to a particular new territory.
- Use cases will illustrate how to embed insights into business applications and processes.

New methods will also make it possible for decision makers more fully to see their customers’ purchases, payments and interactions. Businesses will be able to listen to customers’ unique wants and needs about channel and product preferences.

[RECOMMENDATION 4]
**Add, Don’t Detract**

Keep existing capabilities while adding new ones

When executives first realize their need for analytics, they tend to turn to those closest to them for answers. Over time, these point-of-need resources come together in local line of business units to enable sharing of insights. Ultimately, centralized units emerge to bring a shared enterprise perspective — governance, tools, methods — and specialized expertise. As executives use analytics more frequently to inform day-to-day decisions and actions,
this increasing demand for insights keeps resources at each level engaged, expanding analytic capabilities even as activities are shifted for efficiencies. (See “How Analytics Capabilities Grow with Adoption.”)

Sophisticated modeling and visualization tools, as noted, will soon provide greater business value than ever before. But that does not mean that spreadsheets and charts should go away. On the contrary: New tools should supplement earlier ones or continue to be used side by side as needed. That lesson applies to nearly every way that analytics capabilities should be nurtured as an organization becomes more ambitious about becoming data-driven: The process needs to be additive. As analytics capabilities are added upstream at increasingly central levels of management, existing capabilities at point of need shouldn’t be subtracted. Nor should they be transplanted to central locations. As new capabilities come on board, existing ones should continue to be supported.

There are other ways that capabilities grow and deepen within an organization. Disciplines like finance and supply chain are inherently data intensive and are often where analytics first take root. Encouraged by early successes, organizations begin expanding analytic decision making to more disciplines. (See “How Analytics Propagates Across Functions.”) In Transformed organizations, reusability creates a snowball effect, as models from one function are repurposed into another with minimal modifications.

Over time, data-driven decision making branches out across the organization. As experience and usage grow, the value of analytics increases, which enables business benefits to accrue more quickly.

Add Value with an Enterprise Analytics Unit
Organizations that first experience the value of analytics in discrete business units or functions are likely soon to seek a wider range of capabilities — and more advanced use of existing ones. A centralized analytics unit, often called either a center of excellence or center of competency, makes it possible to share analytic resources efficiently and effectively. It does not, however, replace distributed and localized capabilities; rather, the central unit is additive, built upon existing capabilities that may have already developed in functions, departments and lines of business.

We found that 63% more Transformed organizations than Aspirational organizations use a centralized enterprise unit as the primary source of analytics. A centralized analytics unit can provide a home for more advanced skills to come together within the organization, providing both advanced models and enterprise governance through establishing priorities and standards by these practices:

- Advance standard methods for identifying business problems to be solved with analytics.
- Facilitate identification of analytic business needs while driving rigor into methods for embedding insights into end-to-end processes.
- Promote enterprise-level governance on prioritization, master data sources and reuse to capture enterprise efficiencies.
- Standardize tools and analytic platforms to enable resource sharing, streamline maintenance and reduce licensing expenses.

In three distinct areas — application of analytic tools, functional use of analytics and location of skills — we found that adding capabilities without detracting from existing ones offers a fast path to full benefits from analytics-driven management.
[RECOMMENDATION 5]

Build the Parts, Plan the Whole

Use an information agenda to plan for the future

Big data is getting bigger. Information is coming from instrumented, interconnected supply chains transmitting real-time data about fluctuations in everything from market demand to the weather. Additionally, strategic information has started arriving through unstructured digital channels: social media, smart phone applications and an ever-increasing stream of emerging Internet-based gadgets. It’s no wonder six out of 10 respondents said their organization has more data than it knows how to use effectively.

All this data must be molded into an information foundation that is integrated, consistent and trustworthy, which were the leading data priorities cited by our respondents. (See “What Managers Want Most in Their Data.”) Therefore, even though smart organizations will start down the analytics path by selectively attacking the biggest problems (and selectively building out the parts of the data foundation most relevant to gaining insight about them), they’ll need to understand how each piece of this data foundation aligns to an overall information agenda. The information agenda accelerates the organization’s ability to share and deliver trusted information across all applications and processes. It sets up information to serve as a strategic asset for the organization.

The information agenda identifies foundational information practices and tools while aligning IT and business goals through enterprise information plans and financially justified deployment road maps. This agenda helps establish necessary links between those who drive the priorities of the organization by line of business and set the strategy, and those who manage data and information.

HOW ANALYTICS PROPAGATES ACROSS FUNCTIONS

Analytic adoption spreads through organizations in a predictable pattern, as all respondents gained proficiency with functional analytics in the same order. The rate of adoption, as shown through proficiency, increases steadily and threshold levels support the analytic capability tiers.

Typically, organizations begin with efficiency goals, then address growth objectives and, last, design finely tuned approaches to the most complex business challenges. As this occurs, adoption both spreads and deepens. This contributes to a predictable pattern of analytics adoption by function. (See chart.) Specifically, we found the following:

Aspirational. About one-half used analytics for financial management, about one-third each for operations and sales and marketing. These selections reflect the traditional path of adopting analytics in inherently data-intensive areas.

Experienced. Analytics was used for all of the above, and at greater levels. For example, the proportion of respondents likely to use analytics for finance increased from one-half to two-thirds. New functions, such as strategy, product research and customer service, emerged. Growth and efficiency were both met with analytics approaches.

Transformed. Analytics was used for all the same functions as above — and more, as the branching pattern spread within organizations. Fine-grained revenue and efficiency usage of analytics emerged, such as customer experience, to build on customer service and marketing capabilities.

These patterns suggest that success in one area stimulates adoption where analytics had not previously been considered or attempted. That is, in fact, how organizations increase their level of sophistication. Successful initiatives in supply chain functions, for example, encourage the human resources function to institute a pilot for data-driven work force planning and allocation.

While these findings describe the typical path, they are not necessarily the best or only one. Analytics leaders may want to advance their organization’s capabilities more quickly using nontraditional routes.
A comprehensive agenda also enables analytics to keep pace with changing business goals. An executive at one company, for example, told us they “had it down to a science” when it came to understanding the impact of price changes on single products and single channels. But they were blindsided when the company shifted to a customer-centric strategy, restructuring around bundled products and dynamic pricing across channels. Because their data marts had been developed de facto over time, they found themselves struggling to understand which tools and information were needed to go forward.

Last, building the analytics foundation under the guidance of a forward-looking information agenda enables organizations to keep pace with advances in mathematical sciences and technology. Without an enterprisewide information agenda, units are likely to explore these new developments independently and adopt them inconsistently, a difficult path for gaining full business benefits from analytics.

Outline for an Information Agenda The information agenda provides a vision and high-level road map for information that aligns business needs to growth in analytics sophistication, with the underlying technology and processes spanning the following:

- Information governance policies and tool kits: from little oversight to fully implemented policies and practices
- Data architecture: from ad hoc to optimal physical and logical views of structured and unstructured information and databases
- Data currency: from only historical data to a real-time view of all information
- Data management, integration and middleware: from subject-area data and content in silos to enterprise information that is fully embedded into business processes with master content and master data management
- Analytical tool kits based upon user needs: from basic search, query and reporting to advanced analytics and visualization

The information agenda is a key enabler of analytics initiatives by providing the right information and tools at the right times based upon business-driven priorities.

Set Yourself Up for Success

Aware that analytics-driven opportunities are central to growth and success, organizations seek to capture value. They want to find the best place to begin, but for many, that entry point is elusive.

If you are Aspirational: Assemble the best people and resources to make the case for investments in analytics. To get sponsorship for initial projects, identify the big business challenges that can be addressed by analytics and find the data you have that fits the challenge.

If you are Experienced: Make the move to enterprise analytics, and manage it by keeping focus on the big issues that everyone recognizes. Collaborate to drive enterprise opportunities without compromising departmental needs while preventing governance from becoming an objective unto itself.

If you are Transformed: Discover and champion improvements in how you are using analytics. You’ve accomplished a lot already with analytics but are feeling increased pressure to do more. Focus your analytics and management bandwidth to go deeper rather than broader, but recognize it will be...
critical to continue to demonstrate new ways of how analytics can move the business toward its goals.

Techniques to Get Started Hurdles on the path to effective analytics use are highest right at the start of adoption. Here is a way to begin.

Pick your spots. Search for your organization’s biggest and highest priority challenge, and create a diagram to describe it. Show available data sources, models to be built and processes and applications where analytics will have an impact. (See a full example of what such a diagram can look like at sloanreview.mit.edu in the complete special report “Analytics: The New Path to Value.”) Create multiple diagrams if you’re selecting from a strong list of possible initiatives. Keep in mind that your biggest problems, such as customer retention, anti-fraud efforts or advertising mix, are also your biggest opportunities. Change is hard for most, so select an initiative worthy of sustained focus that can make the biggest difference in meeting your most important business goals. Remember that focus is critical during these initial efforts. Do not get distracted once the targeted area is identified.

Prove the value. Use reason and benchmarks for initial executive sponsorship, but use a proof-of-value pilot to keep sponsors engaged. Estimate how much revenue can be gained, how much money can be saved and how much margins can be improved. Employ techniques to embed analytics to illustrate and prioritize the types of organizational changes that are needed to achieve the value. Pull it all together using an implementation road map with a clear starting point and a range of options for future opportunities.

Roll it out for the long haul. The challenge should be big, the model insightful and the business vision complete. However, the first implementation steps can be small, as long as they fit your agenda. Reduce your rework by using business analytics and process management tools that you have selected for the long haul — information governance, business analytics and business rules. As you make progress, don’t forget to analyze feedback and business outcomes to determine where your analytics model and business vision can be improved.

Make Analytics Pay Off It takes big plans followed by discrete actions to gain the benefits of analytics. But it also takes some very specific management approaches. Each of our recommendations meets three critical management needs:

- Reduced time to value
- Increased likelihood of transformation that’s both significant and enduring
- Greater focus on achievable steps

To start on the fastest path to value, keep everyone focused on the big business issues and select the challenges that you know analytics can solve today — within an agenda for the future. Build on the capabilities you know you already have. And always keep pressing to embed the insights you’ve gained into business operations.

For more information about this study, the New Intelligent Enterprise initiative and additional interviews, visit sloanreview.mit.edu/tnie.

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