How do you balance planning for the future without compromising the present?
Industrial companies know they need to embrace new ways of working to enable long-term success, but they also must preserve their existing business models and market positions in order to continue meeting shareholder expectations in the short term.

It is a dilemma so trenchant that EY recently conducted a major study to see how industrial companies were cracking the code of this balancing act. After surveying 500 senior industrial-company executives, nearly all C-suite officers from 500 discrete companies, we found that while some companies were making progress, only a handful of our respondents represented companies that were showing the results and characteristics we would associate with leadership in managing the balancing act: high growth, strong earnings and a culture of innovation. These companies are shining a light on the way forward.

Industrial Products Continuous Innovation Study 2018
Participant profile
500 industrial products companies based in the US and Canada
All greater than $US1b in annual revenue
98% in the C-suite
55% average profit margin greater than 5% over past three years
30% revenue growth above 5% over past three years

Balancing investment for the future with the needs of sustaining success in your current business model and markets can often seem like a mutually exclusive proposition - particularly when the transformations required to deploy future-enabling capabilities, technologies and systems can be so disruptive to the conduct of everyday business. With the complexities of today’s marketplace, industrial companies are constantly grappling with how to pace investments and actions to best align with markets, customers and partners in a way that optimizes value in both the short and the long term.

Engaging with the challenge doesn’t diminish the size of this elephant. How does one plan for future economic viability while sustaining current economic viability?

Illustrating the depth of the challenge, however, was discovering a sizable majority of the respondents came from companies that were lagging behind in their efforts. And paying for it with sluggish revenues and growth, while showing little innovation outside their R&D departments.

And yet, sluggish revenues and growth are just harbingers of what might be ahead. When it comes to falling behind in today’s industrial sector, the company that hesitates could well be lost.

“There’s a fundamental shift that we’re seeing take place among the sector leaders toward strategic risk management, using risk management as a tool in aggressively and confidently pursuing strategic imperatives. Leaders are looking at the strategic risk universe, as opposed to only focusing on compliance and operations. Even innovation is being considered in terms of risk management.”

William Thomas
EY Americas Advisory Risk Sector Leader
Industrial Products

They’re the looming issues everyone would rather discuss another time. The questions yet to be asked — by a person willing to ask them. Where’s the elephant? Focuses on vital business issues that are not being openly discussed in terms of their urgency and impact. Whether in the room, on the horizon or thundering in a massive herd toward the C-suite, this is where elephants get talked about. Want to know where the elephant is when it comes to balancing the future with the present? Look at your progress on the big bets driving that future.

Take five minutes to find out.
Proactive disruption has come to the industrial sector. Industry innovation leaders are launching everything from new business models to highly connected ecosystems to smart factories. Thus, every decision to put off launching a digital transformation initiative, for whatever reason, puts that company months behind its traditional competitors—and less able to respond to competition from unexpected sources fueled by innovative applications of emerging technologies.

Since the value chain is being reinvented, your choice is to be a part of the reinvention—or subject to it. The longer you wait to invest in the pieces that enable this reinvention, the more limited your choice is—your chance to lead the urgency.

In the Transformative Age, you must keep relentlessly moving forward.

The Transformative Age lends itself to holistic, integrated solutions. And our research provides proof: companies introducing more innovative and solutions-driven business models are also discovering the synergies between the six big bets. For example, while laggard companies focus customer input on improving operational efficiencies, leading companies are applying new customer insights into everything from operating-model change to services-led product innovation that delivers customer-centric solutions.

To get the most out of big-bet initiatives requires a different approach to implementing change. Initiatives in one area often don’t fully deliver on their potential if they aren’t matched with advances in another big-bet category. For instance, you may have done a brilliant job on supply chain transformation but haven’t implemented the talent-acquisition strategy that attracts the people whose innovative strategies will maximize ROI from your advanced supply chain. Or you may have established multiple incoming customer-communication channels, but don’t have sufficiently sophisticated data analytics to extract the nuggets of insight that fuel bold and creative new business initiatives.

The urgency is multidirectional.

If there were a single focus for future-ready transformation, the balancing act would be simpler. But leaders are innovating across all of what EY calls our six big bets,1 each of which is interwoven with one or more of the others. If a company is a laggard2 across most of them, launching initiatives is particularly imperative.

Holistic, integrated approaches provide a valuable framework.

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Once you appreciate the interplay between the six big bets, you can make decisions on what level of change in this area is necessary to unlock additional ROI in another area. Thus, part of the balancing act is looking at the net change of changes needed across all six areas that will deliver quick wins, maximize benefits in the most critical area for your business and set the table for your next stage of investment.

“There’s a digital thread that must be woven all the way through the supply chain. Digital enablers embedded through process improvement from things like RPA, artificial intelligence, machine learning and Internet of Things. With this connectivity, the element of risk and resilience is introduced. Then there’s the people component: how do we bring the people along the journey to interpret the data and recognize where it needs to be applied.”

Regenia Sanders
Advisory Principal, Supply Chain and Operations
Ernst & Young LLP

1. Leaders: 5%+ revenue growth, positive margins and identifies as “early mover” in products and services, and business transformation.
2. Laggards: Negative to 5% revenue growth, negative to 5% margins and identifies as “slow starter” or “Beginner” in products and services, and business transformation.

2. the urgency

3. the impact
If there is one overarching theme to the way industrial company leaders are looking at the big bets, it's that they are making a strategic move from a business-to-business (B2B) framework toward being more business-to-customer (B2C). You can see how this plays out in each of the big bets—and how each of them is interlaced with the others.

**Customer connectivity**
Customer expectations have changed. They want that same 5 p.m.-to-9 p.m. at-home experience in their 9-to-5 workplace environment. Thus, interactivity, intelligence and awareness have become key aspects of industrial companies' increasingly customer-centric engagement model. This is why close to half of the executives at companies in the "leader" category in our research are focused on improving their speed and quality. Nearly half also say they are enhancing channels available for customers to order and augmenting their existing products with services to better respond to their customers. This brings digital capabilities into play, to collaborate with business partners. Such cross-pollination leads to the rapid emergence of new business models — out of necessity: digitally enabled disrupters, often from outside the sector, are forcing industrial companies to think and act differently. This, in turn, puts new stressors on the value chain, which will fragment as industries converge and new economies emerge. One of those new economic selling the insights produced by tailored data analytics. The connectivity that makes all this possible, however, also introduces a different risk profile, particularly with increased connectivity with third parties.

**Supply chain reinvention**
Your supply chain is not just an operational function—it’s a customer experience. This underlining theme represents the biggest difference in supply chains between leaders and laggards in our research: leaders focused their supply chains on improving customer experience. In order to do so, leaders are investing innovation budgets in big data (55%) and driving organizational change (41%). Of course, "chain" is no longer the right metaphor: today's supply chains are no longer linear, but complex ecosystems. They've migrated from on-premises to the cloud, which alters the whole notion of collaboration, with suppliers, with other third parties, even with customers. With all data cloud-based, the supply chain is better connected to more intelligence derived from data and, therefore, more responsive. It's easier to build your ecosystem—and adjust it on-demand. Communications are multidirectional, with information-sharing throughout the entire ecosystem. Digital enablers support the end-to-end process improvement that make enhanced customer responsiveness possible, yet the increase in connectivity also threatens supply chain resilience. These are all considerations along the supply chain reinvention journey.

**Leaders are investing innovation budgets**

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<th>Big data</th>
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**Talent and culture**
Industrial companies are thought to be risk-averse and slow to change. That perception played into the difference between leaders and laggards in our research dealing with talent and culture. Leaders aren't as challenged by typical barriers to filling their skills gaps: competing with tech-first industry (34% for leaders to 45% for laggards) and attracting/retaining top talent (34% to 46%). More differentiating, one of the biggest drivers behind tech investments for leaders is to attract top talent (48% to 23%), while laggards still focus more on operational efficiency (32% for laggards to 14% for leaders).

44% of all survey respondents find that the biggest barrier to retaining existing talent is creating an inspiring culture.
Digital assimilation
The research shows that leaders and laggards think differently about digital as a means for facilitating innovation and growth. While leaders focus on defining a vision for digital transformation (45%), the laggards are more tactically focused on automating business operations (52%). Of course, innovation is not just about creating ideas, but bringing them to market effectively, which is why digital assimilation requires an agile culture. In EY’s digital development framework, companies work through a continuum, from use-case prioritization to assessing commercial viability — in no more than 8 to 10 weeks.

Digital is an enabler, a means rather than an end. Your strategic process should be to develop the solution first, then infuse it with the necessary technology to bring it to life. You can see this in the smart factory, where digital technology raises productivity by empowering the worker on the shop floor. But ultimately, digital assimilation means evolving from “doing digital” to “being digital” — where digital is deeply ingrained and part of the basic thought process.

Big data and analytics
Data are the language of innovation. But the challenges of working with today’s data are captured by the four V’s of big data: volume, velocity, veracity and variety. That’s why we call it big data and not simply data. Our research reveals a major difference here between leaders and laggards: laggards talk about big data while leaders act on it. There is little difference between leaders and laggards in identifying big data and analytics as a top technology for meeting strategic goals (45% to 39%), but leaders pulled away in devoting a major part of their investment budget to it (55% to 27%). The leaders take advantage of the situation and leverage the technology and available data to differentiate themselves from their competitors.

Data are the new natural resource, but to make productive use of data requires a system that can really manage them. This involves developing a data management platform that will handle gathering the data, curating/integrating them and then activating the data to produce insights (involving data visualization and predictive modeling tools). But data management also requires governance policies to prevent your data lake from becoming a data swamp.

Enterprise protection
Enterprise protection has its own balancing act, between compliance risk, operational risk and strategic risk. When our survey asked about the 10 highest-priority risks, more than half of the risks named didn’t even exist for industrial companies 10 to 15 years ago — digital operating models, robotics, customer focus, 3D printing. At this point, these are all strategic opportunities that require sound risk management to seize competitive advantage and support successful deployment.

But they also are largely distributed risks as opposed to centralized, top-down risks — decisions on 3D printing should be made in your manufacturing facilities, not in the C-suite. Cyberattacks are more likely to breach security out in the field than at corporate headquarters. Ecosystems need to be able to expand in real-time, in response to newly emergent threats — and opportunities. But every new hand-off presents a new risk. Your risk management model has to align to this reality — because innovation happens out on the periphery. In this way, risk management is like the brakes on a car: you don’t install brakes just to slow the car down; you’re there to make it safe to go faster.
Digitization or data assimilation is not an option. It’s a ‘must have’ for every company to remain competitive. Market leaders will be the ones who can embrace the change and bring their innovative ideas to the market faster than their competitors.”

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Find the balance that’s right for you.

The balancing act is at least as daunting as the challenges of the Transformative Age itself. No matter where you fall on the laggard-to-leader spectrum, you haven’t completely missed the train. Every company has its own distinctive circumstances and challenges. Every company has its own optimum strategy for moving forward and engaging the digitally enabled future.

But you must rigorously assess your present status and the universe of change options you can entertain. Then, piece together the most “balanced” package of change initiatives to enable you to get the most mileage out of your investments, both in the near-term and beyond.
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