Capturing value from the smart packaging revolution
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Introduction

A SHIPMENT OF HIGH-END skin care products leaves its offshore production facility, and an embedded multifunction sensor in the pallet tracks the location of the product as it moves through multiple transport modes, letting the consumer packaged goods company alert retail partners to the expected time of arrival. At a domestic warehouse, the pallet unfortunately slips off a skid and is partly damaged, the time and location of the shock being recorded by the sensor for later apportionment of responsibility and improvement of handling processes. The products arrive at the retail store where scanners read anti-tamper intelligent labels on each package to confirm that the products have not been tampered with and are nonpirated. At home, a sensor in the cap monitors the consumer’s usage and uploads the data to a smart home hub, which reorders the product automatically as it runs low.

This vignette, although not a real-world example, is a compilation of individual smart packaging functionalities already in the market or in development, and underscores the potential of smart packaging to transform supply chains, product integrity, and customer experience. Senior executives in operations, marketing, finance, IT, and a range of other functions in consumer packaged goods, industrial goods, retail, and packaging would be well-advised to take notice.
Smart packaging solutions offer out-of-the-box business value

SOMEWHERE BETWEEN US$5 trillion and US$10 trillion worth of consumables are sold globally each year and the vast majority of them are packaged in some way, generating a packaging market of US$424 billion in 2016. Yet packaging remains a secondary consideration for manufacturers, brands, and retailers alike. It is often an overlooked and underutilized aspect of product design that packs immense value for all stakeholders. Packaging with enhanced functionality, by way of new technologies, new materials, and thoughtful design—smart packaging—has enormous potential not only to create value, but also to disrupt traditional business models.

Results of our survey of over 400 business leaders revealed that smart packaging, and in particular connected packaging, is indeed on the radar of senior executives, and is attracting significant investment across the value chain as companies seek to exploit the opportunity (see sidebar, “Research methodology”). Survey results validated that connected packaging solutions tend to fall into three broad categories—inventory and life cycle management, product integrity, and user experience—and that the first two are currently attracting the lion’s share of investment.

Smart packaging is still emerging, but cannot be ignored, as it presents both significant oppor-

### TABLE 1

<table>
<thead>
<tr>
<th>Definition</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Design-led</strong></td>
<td>Packaging design that improves form and function, supports value perception of the product, and enhances the user experience</td>
</tr>
<tr>
<td></td>
<td>PillPack delivers portioned, convenient doses of medications in convenient, easy-to-open packets that are tailored to each individual consumer.</td>
</tr>
<tr>
<td><strong>Active</strong></td>
<td>Packaging that uses advanced materials or chemistry to improve functionality or appearance (e.g., moisture retention, temperature control, and thermochromatics)</td>
</tr>
<tr>
<td></td>
<td>FreshMax pouches contain oxygen absorbers that eliminate exposure to damaging elements to help maintain product freshness.</td>
</tr>
<tr>
<td><strong>Connected</strong></td>
<td>Packaging that contains technology (e.g., sensors, codes, and tags) capable of generating data that can be captured, treated, analyzed, and communicated to people or machines to change behavior in the physical world</td>
</tr>
<tr>
<td></td>
<td>Ferngrove Vineyards uses a radio-frequency identification device (RFID) chip embedded in its wine bottles to enable consumers to engage with the brand through their smart devices.</td>
</tr>
</tbody>
</table>

Source: Deloitte analysis.
opportunities and a real risk of disruption (figure 1). It generated revenues of US$23.5 billion in 2015, and is expected to grow 11 percent annually, reaching US$39.7 billion by 2020.² Businesses are looking at packaging as a possible holistic solution to transform the way they deliver, sell, and use products. Market leaders across industries are embracing innovative smart packaging applications, particularly of the connected type, that generate and leverage data to make better business decisions and delight the customer.

The potential upside for smart packaging participants is large, but they face at least four types of challenges: commercial, legal, technological, and organizational. A review of the market and utility of smart packaging will help set the premise for key challenges in large-scale adoption of these applications and the possible solutions.

FIGURE 1

Smart packaging is still in initial stages, with no application or industry close to reaching maturity

Source: Deloitte analysis.

RESEARCH METHODOLOGY

This report is partly based on the findings of a survey conducted by Deloitte between November 2017 and February 2018. Survey respondents included 425 North American business executives from 12 industries. More than 70 percent of respondents represented companies with revenues of more than US$1 billion. Almost 90 percent were in senior management roles. The margin of error for the entire data set is plus or minus 5–6 percentage points.

While smart packaging is an umbrella term used to denote different types of packaging systems (design-led, active, and connected; table 1), the survey focused on what we refer to in this article as connected packaging and the business opportunity it offers.
Defining the smart packaging space

Most of the existing smart packaging solutions are in the “active” realm, using advanced chemistry and materials to offer corrosion/moisture control or thermochromatic capabilities, primarily for food and beverages, healthcare, and personal care consumer products. Connected packaging, which can communicate with other packages or the internet, is still a relatively untapped opportunity, with simple bar coding and RFIDs used increasingly for tracking and tracing package location in the supply chain. Survey results indicate that adoption of connected packaging varies by industry, with consumer packaged goods, and manufacturing and industrial companies expressing the highest levels of interest. However, connected packaging is still in the initial stages of growth and no application or industry is close to reaching maturity.

The smart packaging industry is still highly fragmented, as both large- and small-to-medium-sized enterprises continue to focus on narrow, one-off solutions, as opposed to delivering an integrated, cohesive offering for large-scale implementation. The interconnected nature of the ecosystem and the wide array of participants from infrastructure providers to packagers, brands, retailers, and consumers have prevented smart packaging from accelerating rapidly.

Innovation in the space has been driven primarily by small startups, and solutions have yet to achieve significant scale. Dominant industrywide Internet of Things (IoT) standards have yet to take hold, much like the days preceding the arrival of Bluetooth or Wi-Fi in local wireless networks. The cost of sensorization and connectivity is still high, even though it has declined significantly in recent years and we expect it to drop further (figure 2).

**FIGURE 2**

Falling sensor average cost bodes well for adoption of smart packaging

![Graph showing falling sensor average cost](image)

Source: Data from Goldman Sachs, estimate by BI Intelligence, sourced from The Atlas.
How are businesses using smart packaging?

Market leaders from several industries are embracing innovative smart packaging applications primarily to address three types of business issues:
1. Inventory and life cycle management
2. Product integrity
3. User experience

Inventory and life cycle management

Packaging can provide solutions to common supply chain problems, including sourcing raw materials from suppliers, managing the supply chain, and delivering products to the final customer.

We have categorized these applications into three sub-areas—traceability, agility, and sustainability, which are detailed in figure 3—and listed out some genuine use cases in table 2.

FIGURE 3

There are 9 distinct applications for smart packaging

<table>
<thead>
<tr>
<th>INVENTORY &amp; LIFE CYCLE MANAGEMENT</th>
<th>PRODUCT INTEGRITY</th>
<th>USER EXPERIENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Traceability</strong></td>
<td><strong>Authenticity</strong></td>
<td><strong>Interaction and satisfaction</strong></td>
</tr>
<tr>
<td>Real-time ability to track and trace exact product location in production and distribution cycles</td>
<td>Ensures the customer knows the product is exactly what was promised, from where and from whom it was promised</td>
<td>Communicates with the customer to entertain, instruct, or inform and encourages deeper interaction with the physical product and/or digital brand presence</td>
</tr>
<tr>
<td><strong>Agility</strong></td>
<td><strong>Security</strong></td>
<td><strong>Usage</strong></td>
</tr>
<tr>
<td>Optimizes supply chain processes including predictive planning and inventory management</td>
<td>Defends against product theft or unauthorized product access to control product exposure, use, and distribution</td>
<td>Makes product use easier from delivery, preparation, dosage, to disposal, and intimately understands customer usage behaviors with connected technologies</td>
</tr>
<tr>
<td><strong>Sustainability</strong></td>
<td><strong>Quality and safety</strong></td>
<td><strong>Access</strong></td>
</tr>
<tr>
<td>Reduces environmental footprint throughout the product life cycle and ensures more sustainable disposal or reuse</td>
<td>Monitors or controls the product environment to protect customers from anything but the optimal product experience (i.e., cold chain)</td>
<td>Makes user ordering, replenishing, and returning more seamless and enhanced</td>
</tr>
</tbody>
</table>

Source: Deloitte analysis.
Packaging can be a valuable layer of defense against internal and external threats to product integrity. The value at stake is large. Food retailers estimate that 31 percent of all food products are discarded due to spoilage, totaling US$146 billion in losses, and in the area of counterfeit goods, smart packaging could help to combat losses valued at more than US$460 billion.3

These losses for brands and rising quality concerns among consumers are driving adoption of new technology-enabled anti-counterfeiting applications. Blockchain technology is an increasingly important component of these applications, as it allows producers and consumers to create a secure, unalterable record of a product’s provenance and path to market. Some retailers are exploring smart packages that include a device to record information on a blockchain regarding the contents of the package, its environmental condition, and its location, among other data points.

The three key categories of product integrity applications are authenticity, security, and quality, which are explained in figure 3. Table 3 lists out some use cases.

### TABLE 2
Use cases of smart packaging applications for inventory and life cycle management

<table>
<thead>
<tr>
<th>Application</th>
<th>Vendor</th>
<th>Platform</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traceability</td>
<td>Bosch</td>
<td>Carton Printing System</td>
<td>Fulfills the serialization requirement in the pharmaceutical industry to track and trace the movement of products in the manufacturing line.</td>
</tr>
<tr>
<td>Agility</td>
<td>Stora Enso</td>
<td>Smart VMI</td>
<td>An RFID-enabled system that identifies and reports inbound-outbound movements of stock and automates the reordering, invoicing, and stock-taking processes</td>
</tr>
<tr>
<td>Sustainability</td>
<td>Avery Dennison</td>
<td>CleanFlake Technology</td>
<td>Helps brands keep sustainability promises by using technology to cleanly separate the label from plastic bottles/containers, leaving no adhesive residue and enabling higher quality recycling</td>
</tr>
</tbody>
</table>

Source: Deloitte analysis.

### TABLE 3
Use cases of smart packaging applications that enhance product integrity

<table>
<thead>
<tr>
<th>Application</th>
<th>Vendor</th>
<th>Platform</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authenticity</td>
<td>ThinFilm</td>
<td>OpenSense Technology</td>
<td>Allows tracking the movement of products across the supply chain, in-store, and to the point of consumption, while alerting end-consumers to any sign of tampering with product seals. Users can access this data through smartphones to detect tampering.</td>
</tr>
<tr>
<td>Security</td>
<td>Microtrace</td>
<td>Spectral Taggart Security Ink</td>
<td>A security ink that can be decoded only through a Spectral Reader, which is a hand-held device to gather hundreds of data points per reading to ensure an exact match.</td>
</tr>
<tr>
<td>Quality and safety</td>
<td>PakSense</td>
<td>Ultra Contact Label</td>
<td>A temperature-monitoring label that could be attached to the product packaging prior to shipping. An LED light indicates whether the optimal temperature has been breached and enables quick decision-making.</td>
</tr>
</tbody>
</table>

Source: Deloitte analysis.
User experience

Packaging can enhance user satisfaction by making the actual product use occasion more engaging, efficient, or informative, as well as by providing valuable consumer insights to brand owners and retailers. Companies can earn greater brand loyalty by using the three main applications of user experience, as mentioned in figure 3. Table 4 lists out some use cases.

TABLE 4

<table>
<thead>
<tr>
<th>Application</th>
<th>Vendor</th>
<th>Platform</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Access</strong></td>
<td>Amazon</td>
<td>Dash Replenishment Services</td>
<td>Allows connected devices to leverage Amazon’s retail platform to build automatic reordering experiences for customers. For example, a name-brand washing machine with DRS can order laundry detergent before the last load.</td>
</tr>
<tr>
<td><strong>Interaction and satisfaction</strong></td>
<td>Blippar</td>
<td>Augmented reality (AR)</td>
<td>AR-based apps connect brands to people through blipps and AR campaigns. For example, Heinz uses the app to allow users to unlock a secret recipe book by hovering their smartphones over the brand packaging label.</td>
</tr>
<tr>
<td><strong>Usage</strong></td>
<td>Pillsy</td>
<td>PillsyCap</td>
<td>A combination of smart bottle and mobile application. It tracks when consumers take medication, and sends a signal when to take the next dose, enabling patients and doctors to track medication adherence.</td>
</tr>
</tbody>
</table>

Source: Deloitte analysis.
Smart packaging is arriving in waves

Our analysis of the smart packaging space suggests that the different applications are arriving in waves, as certain applications gain broader and earlier traction than others, which was corroborated by survey results. Figure 4 maps the perceived strategic importance of nine smart packaging applications against the intention to invest in each in the coming years.

The figure illustrates the several applications (the Vanguard) that are seen as important and receive the most investment, addressing track-and-trace and product integrity concerns. Several “high-potential” applications driving the customer experience, though seen as very/highly important by over 50 percent of respondents, are receiving much lower levels of investment. This disconnect is likely due to the complexity of designing and executing solutions that require the collection of end-user data. Given the importance of these solutions, however, we expect these “high potential” problems to be resolved soon and investment to follow.

Figure 4
Market perception of smart packaging opportunities

Majority of respondents seek to enhance product safety, sourcing transparency, and security

Question A: In which of these smart packaging areas is your company currently investing or planning to invest in the next 12–24 months? (Select all that apply.)

Question B: Please rate the importance of the [given] smart packaging applications for your company. (Rate on a scale of 1=“Not important” to 4=“Highly important.”)

- Security means to defend against product theft or unauthorized access, exposure, or distribution.
- Authenticity means to ensure that the customer knows the product is authentic and not counterfeit.

Source: Deloitte analysis.
Smart packaging offers significant opportunities and a real risk of disruption

Smart packaging cannot be ignored because not only can it create enormous value, it can disrupt a number of players in the system. Smart packaging, with revenues of US$23.5 billion in 2015, makes up only a small percentage of the global packaging industry estimated at US$424 billion. Nonetheless, it is expected to grow quickly, largely because it is seen as a mechanism for solving a number of high-value business problems.

It is clear that both producers and users of smart packaging can benefit from it, as outlined in figure 5. Producers, which include packagers, material producers, and technology providers, stand to gain by designing and/or manufacturing all or part of the solutions. Many have also witnessed gains to their traditional (“nonsmart”) business lines just from proposing more sophisticated smart packaging ideas to their customers, regardless of whether those ideas get commercial traction. We call this the “halo” effect.

For users of smart packaging (brands, retailers, and end consumers), value creation comes in the form of the three sets of applications described earlier—greater supply chain efficiency, enhanced

FIGURE 5
The biggest value creation opportunity is with the new data business model that smart packaging can enable

<table>
<thead>
<tr>
<th>Producers of smart packaging</th>
<th>Users of smart packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packagers, material providers, technology providers, etc.</td>
<td>Consumer brands, industrial brands, pharma, retailers, etc.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Design</th>
<th>Manufacturing</th>
<th>“Halo”</th>
<th>Data</th>
<th>Inventory management</th>
<th>Product integrity</th>
<th>User experience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assists brands with the design of the smart package</td>
<td>Manufacturing of higher-margins packages and associated technology</td>
<td>Increase in share of wallet of ‘dumb’ package business</td>
<td>New business models from managed services for data (platform management, analytics, etc.)</td>
<td>Cost reduction and brand protection through traceability, agility, and sustainability</td>
<td>Revenue and brand protection through authenticity, security, and quality and safety</td>
<td>New revenue and brand enhancement through improved interaction, usage, and access</td>
</tr>
<tr>
<td>One time</td>
<td>Recurring</td>
<td>Recurring</td>
<td>Recurring</td>
<td>Recurring</td>
<td>Recurring</td>
<td>Recurring</td>
</tr>
</tbody>
</table>

Source: Deloitte analysis.
product integrity, and superior customer engagement. Most important, however, is the value pocket in the middle, i.e., the new set of revenue streams unleashed by the data spun off by smart packages. This is a battleground where the producers and users will meet to determine who will win the spoils. We believe both sides can lay claim to it if they position themselves well, so there is a scenario where the spoils are equitably shared.

With the potential value creation, comes disruption. For instance, if packagers are not able to participate in driving the increasing intelligence of packages, they risk getting marginalized as commodity material providers. Consumer packaged goods producers and other brand owners can create unprecedented customer intimacy through connected solutions, but if their competitors move first, they could be locked out of key customer relationships. Retailers could improve supply chain efficiency, guarantee product integrity, and engage consumers, but could also get disintermediated by brands that can now build direct digital relationships with consumers through the package. Technology players can set industry standards and use this advantage as a platform for data and associated revenue streams, but could get left behind if the standards they back aren’t selected. For all players in the ecosystem, the potential benefits and risks are substantial.
Winning in smart packaging will demand ingenuity and creativity

While there is clear value in smart packaging applications, many challenges exist to large-scale adoption, and overcoming them will require participants to experiment with innovative business models and new ways of doing business.

Commercial challenges

Monetization

“Yes, but how will we make money?” is the common refrain from companies exploring smart packaging, and especially from packagers. Packaging firms provide the critical substrates and engineered materials for packages, but are generally not seen as value-added participants in data-enabled packaging, so have struggled to share in the upside. A leading packaging company co-developed a plastic “smart ticket” for an entertainment event company that geo-tracked customers through event spaces, automatically added and deducted credits, and allowed automated purchases, among other things. The entertainment company generated significant customer satisfaction and new understanding of customer behavior, which drove increased traffic and sales, while the packaging company earned “cost plus” on the materials. In other words, the company created value, but failed to capture it.

To be able to capture value in smart packaging, companies must first be able to identify their unique, differentiated contribution to the smart packaging solution. This contribution gives them a seat at the “value-add table” and a stronger claim to getting access to data generated by the smart solution. Data is key to new revenue streams and often to premium pricing. For packagers, this contribution could involve providing access to key customers, or as in one case, proprietary knowledge about food preservation chemistry critical to a smart anti-spoil packaging solution. Second, companies should design a profit model that gives them a share of the newly created value. It’s important to leave behind the traditional cost-per-pound commodity trap and experiment with multiple new pricing approaches. In many cases, this will require risk-sharing and coinvestment until the value of the solution is demonstrated. Potential models include full investment in prototype development in return for sharing in incremental sales of the end-product and/or in any data generated by the solution.

Prohibitive costs

Certain connected packaging solutions (such as track-and-trace applications) rely on inexpensive package-level technologies like bar codes, QR codes, and even passive RFIDs. More intelligent solutions, however, that use active RFID, geo-locate, track temperature and shock, or interact with consumers require sensor technologies that are by and large too expensive to use on the primary (single unit) package, making certain smart applications cost-prohibitive. Almost 30 percent of survey respondents listed business case economics as a key barrier to smart packaging. The good news is that the cost of these sensors is declining (figure 2) and will likely at some point be low enough to place on everyday consumer goods. In the meantime, however, brands, retailers, and packagers are using the lower-cost smart technologies on primary packages, and experimenting with more powerful sensors on secondary/tertiary/pallet-level packaging, or on the primary packaging of high-value goods such as perfumes and liquor.
Legal challenges

REGULATORY/PRIVACY CONCERNS
As in any context where information is collected regarding third parties, smart packaging risks butting up against privacy laws. This challenge has become particularly acute in the light of the European Union's General Data Protection Regulation, whose principles many experts believe may soon also arrive in the United States. Smart packaging solutions that do not collect end-consumer data (for example, track-and-trace solutions focused on supply chain efficiency) should face fewer privacy hurdles, and solution providers should be able to manage privacy concerns in large part through direct contractual arrangements with their business-to-business partners. Smart solutions that do collect consumer data may pose more of a challenge and will have to be engineered in the light of these emerging regulations, possibly utilizing such protective mechanisms as opt-ins or sanitizing, blinding, and aggregating the data.

DATA OWNERSHIP
With a typical smart packaging application depending on the interplay among multiple different stakeholders, the question of who owns the data that the packaging generates will need to be addressed. Typically, in the business-to-consumer realm, brand owners or retailers will claim ownership of the consumer relationship and, therefore, any data regarding the consumer. However, other players, including packagers, have successfully laid claim to this data in two ways—first, as already mentioned, by bringing some unique value contribution to the solution that allows them bargain for rights to the data, and second, by cleverly realizing that they do not need “ownership” of the data, so much as they need “access” to it. For example, a large packaging company let the retailer “own” the data generated by smart cardboard displays in the store, but successfully secured access to the point-of-sale data linked to sales from the display, and could use that data to prove the value of smart displays. Ownership is in fact a bundle of rights over property, including the ability to use, improve, destroy, sell, and rent, among other things. To get value from data, one often only needs one of these rights. The lesson, therefore is that one should not feel obliged to negotiate for ownership of data, so much as for the few specific rights needed to capture value.

Technology challenges

TECHNOLOGY STANDARDIZATION
Unified IoT technology standards have yet to take root. Several IoT protocol areas, such as infrastructure, identification, transport, and data protocols, each have multiple standards vying for supremacy; these include 6LowPAN, uCode, and mDNS. This creates challenges and opportunities. The main challenge is the lack of a single standard around which all parties can build solutions, which prevents the IoT in general, and smart packaging in particular, from scaling rapidly. As a result, smart packaging players must take a chance by either spreading small technology bets across multiple hands or betting big on one potential winner.

At the same time, the fragmentation of IoT technical standards creates an opportunity for key nontechnology players such as retailers, brands, and packagers to help shape the IoT standards of the future. Companies may want to get involved with standards-setting organizations for this reason.

Organizational challenges

COLLABORATIONS
Smart packaging is a solution that requires collaboration among a number of organizations—consumer and industrial product manufacturers, material substrate providers, packagers, retailers, transporters, and a small universe of technology providers (figure 6). Tellingly, over one quarter of survey respondents cited “lack of relevant technology capabilities” as a major barrier to smart packaging success. Very few players have all the necessary components in house. Smart packaging,
therefore, relies on the creation and effective maintenance of an ecosystem of partners. The upside is access to a new, asset-light business model. The challenge is the complexity of securing and managing a web of capabilities you don’t own. To be able to excel in smart packaging, companies will have to disproportionately invest in their partnering capabilities, learning how to form various types of alliances to quickly add and drop critical assets and capabilities.

AGILE INNOVATION

Not only must smart packaging participants be nimble with their external assets, they need to be agile in configuring their internal innovation assets as well. This does not come easily to most firms, which continue to move all initiatives through rigorous discounted cash flow-driven business case processes. However, given that the rules of competitive advantage are still taking shape, smart packaging will involve agile innovation techniques—developing ideas, rapidly forming teams, jury-rigging prototypes, market-testing them, seeing what works, and iterating.

Nestlé, for example, solidified its early lead in single-serve packaged coffee (Nespresso) by pursuing several ingenious channel innovations in quick succession to scale quickly. It started by selling to grocery stores, then expanded to selling directly to consumers through the Nespresso club, and finally to selling through own-brand boutique premium retail stores.

In sum, there are a few emerging truths in the smart packaging arena. First, the upside potential is large, as smart packaging is poised to solve numerous weighty business issues from stock-outs to counterfeiting to product spoilage to customer satisfaction and retention. Second, smart packaging is organizing around a set of nine broad applications, which are arriving in waves—supply chain efficiency

![Figure 6](https://example.com/figure-6.png)

**Winning in smart packaging requires an ecosystem of partners**

Source: Deloitte analysis.
is leading the charge, followed closely by product integrity and customer engagement. Third, participants in the traditional packaging space ignore smart packaging at their peril since the downside of missing out could be disruption of their existing business model, and irrelevance. Lastly, to capture the rewards and avoid irrelevance, participants should be bold and creative. Bold plays and new business models are a virtual certainty in the data-enabled world of smart packaging.
Endnotes


2. Ibid.


About Monitor Deloitte

Monitor Deloitte provides strategy consulting services to the world’s leading corporations and social sector organizations, combining a rich heritage of leading-edge strategic thinking and innovation with deep experience in operations, technology and implementation. Monitor Deloitte brings leading capabilities and high-quality service to clients, providing the insights they need to address their most complex strategic challenges.

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Doblin, a Deloitte Business, is a global innovation firm that helps leading organizations find human-centered solutions to business problems. Since we started, we’ve been a hub for pioneering Thinkers. Today, we help clients find new growth opportunities and build new businesses, while embedding innovation capabilities into their organizations. Doblin comprises a broad range of specialist disciplines globally integrated with the digital, analytics and IoT capabilities of Deloitte.
About the authors

MIKE ARMSTRONG is a managing director in Monitor Deloitte, the Strategy practice of Deloitte Consulting, and leads Strategy and Analytics for the Industrial Products and Construction sectors. Prior to joining Deloitte, he was a partner at the Monitor Group. Armstrong focuses on corporate strategy, business unit strategy, and M&A strategy across a range of industries, with emphasis on manufacturing and industrial products. Armstrong lives in Boston, Massachusetts.

FRANCESCO FAZIO is a principal with Doblin with more than 15 years of experience in helping companies conceive, create prototypes, and launch transformative innovations, as well as become better innovators, in complex business-to-business environments. He has served clients primarily in the manufacturing sector, with a focus on North America, but has significant experience in Asia, Europe, and the Middle East. Fazio lives in Chicago, Illinois.

DANIEL HERRMANN is a senior manager in Monitor Deloitte's Customer Strategy & Applied Design practice. He has over 12 years of experience developing profitable growth strategies, particularly using the GrowthPath® methodology. Over the last five years, he has focused on addressing sales, marketing, and innovation challenges, and developing the supporting organizational capabilities to sustain them. Herrmann lives in Atlanta, Georgia.

DAVID DUCKWORTH is senior consultant in Deloitte's Customer and Marketing offering. Duckworth has 13 years of experience in building new businesses as an entrepreneur, venture capitalist, and innovation consultant, focusing on business-model design and helping companies achieve the product-market fit. Duckworth lives in San Francisco, California.

Contacts

Mike Armstrong  
Strategy & Analytics leader for Industrial Products & Construction  
Managing director  
Monitor Deloitte  
+1 617 610 0892  
mikearmstrong@deloitte.com

Francesco Fazio  
Business Model Innovation Principal  
Doblin, a Deloitte Business  
+1 312 203 9306  
ffazio@deloitte.com

Daniel Herrmann  
Senior manager  
Customer Strategy & Applied Design  
+1 404 285 1275  
dherrmann@deloitte.com

David Duckworth  
Senior consultant  
Deloitte Consulting  
+1 415 770 5856  
dduckworth@deloitte.com