How Resilient Businesses Created Advantage in Adversity During COVID-19

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By Martin Reeves, Yuval Shmul, and David Zuluaga Martínez

These seven companies outperformed their industries during the pandemic—and in the process, they showed how businesses can turn crises into opportunities for growth.

Businesses often frame crises as periods when the focus should be on risk and damage mitigation. For a resilient company, however, crises can instead offer opportunities for differential growth and advantage. Our previous research
demonstrates that resilience—the capacity to absorb stress, recover critical functionality, and thrive in altered circumstances—has significant strategic value. Because crises widen the gap between top and bottom performers, about 30% of a company’s long-run relative total shareholder return (TSR) is driven by how it performs during crises.

Shareholder returns typically move in tandem during normal periods but diverge considerably during crises, and the COVID-19 pandemic was no exception. In the 18 months before the COVID shock, the average gap in TSR between the 25th and 75th percentile performers across industries measured 75 percentage points. Eighteen months after the shock, the gap had increased to 105 percentage points.

Now, in the midst of the COVID recovery, two important questions arise: Who are the emerging top performers following the COVID shock? And what lessons can be learned from their resilience to help companies prepare for the next crisis?

COMPETITIVE ADVANTAGE DURING THE CRISIS

Resilient companies enjoy better outcomes than their peers through a combination of three components of performance (see Exhibit 1):

- **Lower shock impact.** Resilient companies cushion the immediate impact of the shock due to their anticipation advantage (recognizing threats and preparing for them in advance) and their cushioning advantage (mitigating or absorbing the immediate negative effects of a shock).

- **Faster recovery speed.** Resilient companies recover faster than the competition due to their anticipation advantage (preparedness to capitalize on disruption during a crisis) and their adaptation advantage (quickly identifying the actions needed to restore operations and implementing them swiftly).

- **Greater recovery extent.** Resilient companies thrive in the new circumstances after a crisis, due to their adaptation advantage (adapting to the new normal post-shock) and their shaping advantage (shaping the dynamics of the industry in the post-shock environment to their advantage).
As the above descriptions indicate, the three components of performance are themselves driven by four competitive advantages, with some affecting more than one component. Our previous research on resilience has identified different actions that create each of these four advantages:

- **Anticipation advantage** is created by preparing for long-term shifts, developing contingency plans for disruption, building early warning systems, and constantly scanning the environment for emerging risks.

- **Cushioning advantage** is created by building operational and financial buffers, diversifying revenue sources and operations, organizing with operational modularity and financial separation, being important to consumers, and aligning the company’s purpose with social norms and aspirations.

- **Adaptation advantage** is created by being important to consumers, aligning the company’s purpose with social norms and aspirations, experimenting, being agile, developing operational flexibility, and shifting the portfolio mix.
• **Shaping advantage** is created by shaping the post-crisis new normal and redefining industries.

**THE COVID RESILIENCE SCOREBOARD**

To evaluate how resilient companies have outperformed peers during the pandemic by leveraging these four advantages, we studied the difference in TSR performance of the world’s largest companies relative to their industries before and after the COVID shock.\(^1\) We defined industries at the most granular level possible, comparing against direct and immediate competitors (or “subindustries”) as necessary. Our goal was to identify competitive advantage independently of broader shifts within their sectors.

We examined the top quartile of performers, those whose resilience led to outperformance of their industries and subindustries. Half of those businesses were already top performers before the crisis, but the other half were in fact companies that underperformed their industries prior to COVID.\(^2\) The latter are “new winners” that were able to turn the crisis into an opportunity for growth, each rising from the bottom half of its sector to the first quartile post-shock.

Overall, 12% of companies evaluated emerged as new winners. However, since deeper crises spell greater opportunity, industries that experienced more severe COVID disruption saw a larger share of new winners.\(^3\) In those sectors, such as hotels, resorts, and cruises or apparel retail, new winners represented 16% of companies evaluated.

New winners turned the COVID crisis into an engine for growth. The following case studies focus on prominent new winners in seven industries—companies whose decisions illustrate the different ways in which businesses can achieve competitive advantage and win during crises.\(^4\) (See Exhibit 2.)
Government restrictions and reduced demand severely curtailed travel and tourism during COVID. Although the entire industry has struggled, online marketplaces and travel agencies like Airbnb, Expedia, and Bookings recovered faster and performed better, as their asset-light models enabled them to shift their portfolios toward high-demand travel segments.

Although Airbnb has been widely regarded as a success story in the industry, it is not the only one; Expedia Group, for example, also embraced the crisis as an opportunity for growth. Expedia’s outperformance was driven by its preparedness for long-term shifts toward private accommodations and its agility in securing scarce resources—largely thanks to its digital vacation rental platform Vrbo—leading to its faster recovery speed and greater recovery extent. (See Exhibit 3.)
In 2015, Expedia acquired and invested in Vrbo in anticipation of increased demand for private accommodations and vacation rentals. As travel demand shifted to socially distanced private accommodations, Vrbo—which specializes in whole-home properties and which has 70% of its inventory in vacation markets, the highest among its competitors—captured the shift. By the second quarter of 2021, Expedia’s year-over-year revenue grew almost twice as fast as the industry and 40% faster than the subindustry of online marketplaces and travel agencies. As Expedia CEO Peter Kern told Yahoo! in early 2021, “Vrbo is just about the only part of the company that’s growing.” Expedia’s preparation for long-term shifts toward private accommodations created anticipation advantage, which contributed to its recovery speed and recovery extent.

Expedia made early moves to capture demand growth in private accommodation rentals, but when demand rapidly outstripped the market’s supply, Vrbo’s agility helped it secure increasingly scarce rental properties. Very quickly, Vrbo launched its “Fast Start Program,” incentivizing hosts from other platforms to join Vrbo instead. It ramped up advertising to hosts, outspending Airbnb by a factor of ten according to Skift, a news site that covers the travel industry. Vrbo’s efforts were
successful: it increased its listings by 21% between January and April 2021; in comparison, Airbnb listings rose just 1% over the same period, Skift reported. Expedia’s agility created adaptation advantage, which contributed to its faster recovery speed as well as its greater recovery extent.

KROGER

With social distancing requirements leading to more time spent cooking at home, individuals have flocked to food retailers to stock up their pantries. Within the food retail industry, grocery stores and supermarkets have outperformed due to their diversity of product offerings and their importance to consumers, who have increasingly opted for staples and fresh foods during the pandemic instead of the discretionary food typically found in convenience stores. Kroger in particular emerged as a winner. Kroger’s trajectory—aside from recent company-wide efforts to increase efficiencies, reinvest in fresh products in its stores, and improve the customer experience—has been driven by its preparedness for long-term trends in e-commerce and by shifting its portfolio toward its private-label offerings, leading to a lower crisis impact and a greater recovery extent. (See Exhibit 4.)

Exhibit 4 - New Winner: Kroger

Sources: Capital IQ; BCG Henderson Institute analysis.
Kroger had accelerated omnichannel investments three years prior to the pandemic. By 2019, Kroger was only surpassed by Amazon and Walmart in online grocery sales in the US, with home delivery and pickup already available for more than 95% of US households. When people were apprehensive about in-person contact as the pandemic began, Kroger was ready to offer a robust digital alternative. The company doubled its online sales in the first quarter of 2020, driving total year-over-year revenue growth 7 percentage points higher than its peers. Its preparation for long-term trends toward digital sales created anticipation advantage, cushioning the immediate impact of the COVID shock.

Kroger’s investment in e-commerce, one of the long-term trends accelerated by COVID, paid-off and positioned the company to win in the market. By the end of 2020, Kroger was among the top 10 overall online retail companies across all categories in the US.

Kroger has continued to support its growth by shifting its portfolio toward additional, lasting changes in consumer behavior. The company has heavily leaned into emerging trends such as natural and organic, fresh, health and hygiene, and premiumization—all of which accelerated during COVID—through its highly differentiated private brands. During COVID, its mainstream brand (“Kroger”) offered superior value and variety compared to the majority of competitors; at the same time, Kroger’s Simple Truth and Private Selection brands outperformed the company as a whole and eclipsed competitors in variety, quality, and differentiation. Constituting a quarter of its 2020 food sales, private brands have been and will continue to be a growth driver and strategic focus for Kroger, with over 660 new items to be launched in 2021. Shifting its portfolio mix toward new sources of growth in private labels has created adaptation advantage, supporting the extent of Kroger’s recovery.

SQUARE

During the pandemic, companies have accelerated the digitization of their supply chains, customer interactions, and internal operations. Although they experienced an initial shock, the data processing industry and payment processing subindustry
recovered by end of 2020. Square—a payments company composed of business units including Sellers (which provides merchant payment processing, management tools, and financing), Tidal (the music streaming service), TBD (a crypto hardware wallet), and Cash App (a financial services app)—experienced a deeper shock and initially underperformed the market, but then it emerged as a new winner. Square’s outperformance was driven by shifting its portfolio mix toward Cash App and shaping the post-COVID normal through integrated financial services, leading to its faster recovery speed and its greater recovery extent. (See Exhibit 5.)

![Exhibit 5 - New Winner: Square](image)

As foot traffic declined for the small businesses for which it traditionally processes payments, Square’s efforts shifted to Cash App to capture the increasing demand for person-to-person transactions and deposits of COVID stimulus checks. During COVID, Square increased marketing efforts, launched additional capabilities, and redesigned the app’s interface. Cash App revenue grew 440% in 2020, driving Square’s overall revenue growth 76 percentage points above that of its payment peers. At the same time, Cash App’s gross profits more than doubled, resulting in
overall gross profit growth of 50% for Square. Shifting its portfolio mix toward new sources of growth has created adaptation advantage for Square, supporting its recovery speed and recovery extent.

As foot traffic declined for small businesses, Square’s efforts shifted to Cash App to capture the increasing demand for person-to-person transactions.

Additionally, during the pandemic Square combined its Seller and Cash App products into one of the most robust integrated financial ecosystems in the industry. For instance, as of September 2020, employees can receive pay instantly via Cash App for Square’s payroll service. As of March 2021, users can track their Square Loyalty points on Cash App. These integrations have driven growth in both Cash App and the Seller segment. Square attributes a 40% year-over-year increase in transactions per customer on Cash App to customers using the broader product ecosystem. Within the Seller segment, software and integrated payments was the fastest growing category, according to Square, due to the increased adoption of products that amplify the ecosystem’s value proposition.

Investments in Square’s ecosystem—reflected in both Cash App and the Seller segment—accelerated overall growth differential, as the company’s year-over-year revenue growth for the second quarter of 2021 grew to 92 percentage points above its peers. Square’s evolution from a payment company to a differentiated consumer- and merchant-services platform has created shaping advantage, driving the extent of its recovery.

BJ’S WHOLESALE CLUB
Performance for hypermarkets and supercenters such as Costco, Walmart, and BJ’s—which sell everything from groceries to electronics, furniture, and personal care products—initially declined as consumer spending decreased, but then recovered alongside the economy in late 2020. In the process, BJ’s Wholesale Club emerged as a winner in the industry. BJ’s outperformance was driven by its importance to consumers and its agility in securing growth opportunities, leading to its faster recovery speed and greater recovery extent. (See Exhibit 6.)

Almost three-quarters of BJ’s total sales come from grocery products (as opposed to electronics, personal care, and other such categories), a greater share than competitors such as Walmart and Costco. Food was a staple during the pandemic, making BJ’s less sensitive to fluctuations in demand than its competitors. In fact, it even benefited the company: BJ’s experienced a significant increase in membership volume (including premium memberships) and same-store sales as “food at home” trends gained in prominence. BJ’s same-store comparable sales growth of 21% for the two years leading to the second quarter of 2021 was 3 percentage points greater than that of Costco and 6 percentage points greater than...
Walmart. Its importance to consumers and its embeddedness in their lives created adaptation advantage, supporting the company’s recovery speed and recovery extent.

BJ’s quickly leaned into its growth. The company accelerated store openings with 4 new stores in 2020 and an additional 6 planned for 2021, up from 1 new store per year in 2018 and 2019. In comparison, competitors decelerated their new store openings: Costco opened 16 new stores in 2020, down from 25 per year in 2018 and 2019. Labor shortages have also plagued the retail industry in 2021; in order to secure labor to supplement its growth, BJ’s used incremental earnings to fund the biggest wage increase in its history, bringing its average hourly wage to a level that differentiates it from most competitors, according to research by UBS. Securing scarce resources and growth opportunities supported the company’s 25% revenue growth from the second quarter of 2019 to 2021, 8 percentage points faster than the industry. BJ’s agility created adaptation advantage that supported its recovery speed and recovery extent.

**AMERICAN EAGLE OUTFITTERS**

Apparel retailers suffered immediate losses during the pandemic due to declining consumer spending and limited in-person interactions, only recovering as social distancing guidelines were relaxed. American Eagle Outfitters (AEO)—composed of the American Eagle and Aerie brands—experienced a deeper shock and initially underperformed the industry, but then emerged as a new winner. AEO’s outperformance was driven by its alignment with long-term trends toward “comfort” and shifting its portfolio mix toward Aerie, leading to the company’s faster recovery speed and greater recovery extent. (See Exhibit 7.)
Before the pandemic, Aerie led the industry in the push toward comfort, both in terms of its products (focusing on intimates and loungewear) and its advertising (in 2014, it was the first major apparel brand to stop retouching photos of its models, opting instead to build a more realistic, relatable image for its brand). During the pandemic, as stay-at-home orders led individuals to seek comfort over fashion, Aerie was ready to meet the demand. In the second quarter of 2020, Aerie revenue grew 32% year-over-year, partially offsetting American Eagle’s downturn for an overall revenue decline of about 15%, which was more modest than the industry’s 24% average. AEO’s preparation for long-term shifts toward “comfort trends” created anticipation advantage, which contributed to its recovery speed.

In addition to preparing for long-term trends, leaning into growth was vital for AEO’s success. Aerie leaned into store expansions to enter new markets and grow brand awareness, opening 27 stores in 2020—an 18% increase in store count—with 60 more store openings planned by the end of 2021. At the same time, the American Eagle brand saw a significant shift in how it was being managed as well as early progress on right-sizing its store footprint, with the company shutting down 44 stores in 2020, according to the company’s annual report, a 5% decrease
in store count. The pivot in focus—shifting toward growth opportunities with Aerie—has paid off: AEO revenues grew 9 percentage points faster than its peers from the first half of 2020 to the first half of 2021. Optimization of American Eagle has increased AEO’s overall margin by 2.4 percentage points over the same period. Shifting its portfolio mix toward new sources of growth has created adaptation advantage for AEO, supporting both its recovery speed and recovery extent.

DELL TECHNOLOGIES

The consumer electronics industry suffered an immediate shock when the crisis crippled much of its supply chain and stunted consumer demand. However, a broad shift toward remote engagement has boosted demand for technology, supporting the industry’s recovery. Dell experienced a deeper shock than its peers and initially underperformed the industry, but then it emerged as a new winner. Dell’s outperformance was driven by its agility in increasing supply and shifting its portfolio mix toward commercial PCs, leading to its greater recovery extent. (See Exhibit 8.)

Exhibit 8 - New Winner: Dell Technologies

Sources: Capital IQ; BCG Henderson Institute analysis.
Note: Since Dell Technologies IPO’d in Dec 2018, pre-shock chart only shows relative performance for the 14 months prior to the COVID shock.
A shortage of computer components hampered PC shipments starting in the second half of 2020; supply, not demand, was the limiting factor for sales. Among the largest manufacturers of PCs—Dell, HP, and Lenovo—Dell saw the largest increase in year-over-year supply for the second quarter of 2021, 2 percentage points above Lenovo and 13 percentage points above HP. Dell’s supply chain agility stems from its direct management of component suppliers: fast communication channels and long-term relationships made suppliers more flexible and responsive to Dell’s demands. Conversely, HP attributed its underperformance to outsourcing, as design manufacturers and not HP itself manage its suppliers. Dell’s ability to rapidly increase capacity when others were experiencing supply chain issues gained it almost 2 percentage points in market share at the expense of HP and Lenovo, according to Tech Monitor. For Dell, agility created adaptation advantage, driving the extent of its recovery.

During the pandemic, the percentage of workers who worked from home grew from 20% to 71%, according to Pew Research Center. This rapid rise in remote working led to the demand for commercial laptops growing faster than the demand for consumer laptops. Dell doubled down on commercial PCs by positioning its portfolio for new working norms (launching new products with bigger monitors, interactive displays, advanced cameras, and mobile workstations) and pivoting its supply chain to increase capacity for commercial rather than consumer PCs. In the second quarter of 2021, Dell reported an increase in commercial PC revenue of 32% year-over-year, driven by increasing its share of commercial PCs to about 75%—an increase over the prior year and a larger percentage than the company’s biggest competitors. This resulted in Dell’s revenue growing more than twice as fast as that of its peers. Shifting its portfolio mix toward sources of growth has furthered Dell’s adaptation advantage, supporting the extent of its recovery.

NVIDIA

As demand for PCs, smartphones, gaming consoles, and data centers surged during COVID, so did demand for the semiconductors that power them. Within the
industry, Nvidia emerged as a new winner. Nvidia’s outperformance was driven by its preparedness for long-term shifts toward AI and cloud computing and its shaping of the post-COVID normal with many new innovations, leading to its faster recovery speed and greater recovery extent. (See Exhibit 9.)

Historically, Nvidia has been best known for its gaming GPUs, processors that significantly improve gaming application performance. Over the past several years, Nvidia placed a bet on expanding the use of GPUs beyond gaming to other intensive computing applications, specifically within artificial intelligence and cloud computing. As pioneers in the field, Nvidia’s accelerated computing solutions run intense computer graphics, scientific computing, and AI functions in significantly less time and with less power consumption than competitors. As a result, Nvidia quickly became the market leader; for example, by 2019, Nvidia GPUs were deployed in 97% of AI accelerators for the top four cloud providers, according to Forbes.

When remote work made the cloud more popular—and increasing AI adoption drove the need for more accelerated computing—Nvidia was in a powerful
position to capitalize on the increase in demand. Over 40% of Nvidia’s total sales in 2020 were from its cloud and data centers segment (up from 27% in 2019), driving overall revenue growth for the company 20 percentage points higher than the industry. Nvidia’s preparation for long-term shifts toward cloud computing created anticipation advantage, which contributed to its recovery speed and recovery extent.

“When remote work made the cloud more popular—thus driving the need for more accelerated computing—Nvidia was in a powerful position to capitalize.”

Nvidia’s outperformance reflects not only growth in its existing offerings, but also future growth value from investments in the next wave of high-performance semiconductors. In 2020, Nvidia’s R&D intensity was 1.5 times the industry average across a range of high-potential initiatives. For example, growth in its desktop workstation GPUs propelled professional visualization revenue to more than half a billion by the second quarter of 2021, up 156% from the year prior. While only accounting for 8% of total revenue, the segment has become the platform for launching the world’s first 3D, real-time simulation and collaboration platform—revolutionizing visual rendering and solidifying Nvidia’s leadership in professional visualization.

Additionally, although automobiles are Nvidia’s smallest segment, throughout the last year it has announced an $8 billion pipeline to bring autonomous driving and AI technologies to the world’s largest automobile manufacturers. And in September 2020, Nvidia announced the industry’s largest deal in history, agreeing to acquire Arm Limited (a leader in smartphone chips, a new industry for Nvidia) from SoftBank for $40 billion. Nvidia’s bold moves to redefine and elevate
standards across a growing number of categories have created the shaping advantage that drives its recovery extent.

LESSONS FROM COVID

Our analysis of competitive dynamics during COVID, as illustrated by these case studies, confirms our view that resilient companies are better able to thrive in crises. However, the way in which companies navigate shocks to create competitive advantage can vary significantly depending on the crisis.

Our historical analysis indicates that over the past 25 years, outperformance during crises was primarily driven by withstanding the immediate impact of the shock. For the 12 months after a shock, the lower impact of the shock accounted for 63% of relative TSR, faster recovery speed accounted for 23%, and greater recovery extent accounted for the remaining 14%. Yet for the new winners emerging from COVID, the primary contributors to outperformance have been significantly different. On average, new winners did not outperform because they withstood the immediate impact of the shock; instead, they outperformed due to their faster recovery speed and, most importantly, their greater recovery extent. For the 12 months after the COVID shock, 9% of their outperformance was driven by lower impact, 27% by their faster recovery speed, and 64% by their greater recovery extent. For the 18 months after the shock, their greater recovery extent contributed even more to their overall outperformance (78%). (See Exhibit 10.)
The new winners that emerged from the COVID crisis were able to react and recover more quickly and to a far greater extent than their peers, even if the initial effects of the shock were equally or more severe for them as compared to their competitors. What did new winners consistently do that drove their recovery?

**New winners didn’t just get lucky—they thought long term.** It is easy to assume that Expedia got lucky with private accommodations or that Kroger got lucky with its digital capabilities. But what appears to be luck is instead the result of strategic decisions that new winners made to act on emerging trends and shifts that were already visible before the pandemic. They took these trends seriously; when they noted shifts, they acted to stay ahead of them.

Our proprietary natural language processing analysis of SEC filings and annual reports indicates that new winners’ language was rated 12% higher in long-term orientation relative to the average. By preparing for long-term shifts, new winners demonstrated superior anticipation advantage over their peers: although this did not significantly help cushion the immediate impact of the shock, it supported
their recovery speed and recovery extent. New winners were prepared for disruptions in their industries, which allowed them to better react to them. As a result, they recovered two to three times faster than their industry, on average.

**New winners didn’t focus only on lessening the impact of the crisis—they thought of it as an opportunity for growth.** Companies such as American Eagle, Dell, or BJ’s did not view the crisis as only a negative event and resilience as the short-term minimization of negative impact; instead, they viewed it as an opportunity to outperform competitors by learning faster from changing circumstances and doubling down on shifts.

Their adaptation advantage—their agility in securing scarce resources or shifting their portfolio mix toward new sources of growth—helped them achieve superior revenue growth over their competitors. In the second quarter of 2020, new winners achieved year-over-year revenue growth that was 28 percentage points higher than underperforming companies. As the pandemic progressed, that gap widened to 64 percentage points for second quarter year-over-year growth in 2021—reflecting the new winners’ recovery speed and greater extent of recovery.

**New winners didn’t just react to unfolding events in their industries—they shaped them.** The COVID crisis changed the world. Some of those changes will be reversed, but many will not—among other reasons, because new winners shaped the new normal. Companies such as Nvidia and Square influenced ecosystems of customers and partners to redefine industry standards—to their long-term advantage.

New winners invested in defining the futures of their industries during the pandemic by building new partnerships and launching industry-shaping products. The R&D intensity of new winners grew two to three times between the second quarter of 2019 and the same period in 2021—while those who newly underperformed declined by a third. The new winners’ shaping advantage helped them define a new normal post-COVID, one that solidified their outperformance in
the long term. Several benefits have already been realized, and many are still to come.

As company performance diverged during the pandemic, new winners were able to benefit from the crisis by leveraging dynamic capabilities—those which depend on anticipation, adaptation, and shaping—to outperform their industries.

The new winners have shown that crises are not exercises in damage mitigation, but powerful competitive opportunities which can be seized by the nimble. Building the capabilities of resilience has paid off not just in the current crisis; it also positions these companies well to weather future shocks.

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Authors

Martin Reeves
Managing Director & Senior Partner, Chairman of the BCG Henderson Institute
San Francisco - Bay Area

Yuval Shmul
Alumna

David Zuluaga Martínez
Principal, BCG Henderson Institute Ambassador
New York

1 Pre-shock performance represents the 18 months prior to the COVID shock (August 2018 to Feb. 2020). Post-shock performance represents the 18 months following the COVID shock (Feb. 2020 to August 2021). Top companies evaluated as of August 2018 and August 2021. Data based on public information available at the time of analysis.

2 We define underperforming companies as those in the third and fourth quartiles for the 18 months prior to the COVID shock.

3 More severe COVID shocks are defined as those in the bottom quartile of shocks, representing over 37% decline to their trough. Average decline to trough across all industries was 30%.

4 The seven industries are: hotels, resorts, and cruises (GICS code 25301020); food retail (30101030); data processing and outsourced services (45102020); hypermarkets and supercenters (30101040); apparel retail (25504010); technology hardware, storage, and peripherals (45202030); and semiconductors (45301020).

5 R&D intensity defined as R&D spend as a percent of revenues.

6 Deal awaits regulatory approval.

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