Collaborative advantage: Activating the power of many

By Eamonn Kelly and Jason Girzadas
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As economic and societal forces continually reshape the business environment, we’re entering an age of profound discontinuity. Here we explore two meaningful opportunities to reframe your strategy for success in the next decade.

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In recent years, the world has witnessed extraordinary and foundational shifts: increasingly vivid manifestations of climate change, as scientific theory has been steadily affirmed by newly lived reality; rising inequality, accompanied by a resurgence in populism and nationalism, and a trend toward increasingly autocratic leadership; increased polarization and a decline of trust across many societies; new and impactful civic movements challenging old injustices; millions of human lives lost, and almost all lives disrupted by a severe global pandemic; and the steady demise of the post–World War II world order, now tragically accelerating as the horrors of war return once again to Europe.

Today, as we hope that COVID-19 will soon transition to a manageable endemic status, many business leaders are preparing for a return to something resembling “business as usual.” But we should also prepare for continued seismic change ahead, as the world—and the business environment—moves through inevitable further surprises. We believe that over the next decade, business leaders will experience several major discontinuities—shifts that fundamentally undermine and sometimes reverse long-standing “truths” and orthodoxies that have held powerful sway and shaped our thinking, choices, and strategies for decades.

Some of these are already in plain sight. First, from the mid-1990s, a widespread belief took hold that the sole purpose and responsibility of a corporation was to maximize short-term shareholder value. This notion became almost unchallengeable, profoundly informing the priorities and behaviors of most businesses. Today, mounting evidence of the increasingly severe costs of economic and social externalities has dramatically undermined this conviction, and more and more business leaders are publicly embracing a far more balanced model of stakeholder capitalism that includes the needs and interests of customers, employees, suppliers, communities, and our shared natural environment. Even some of the institutions that, in the past, most relentlessly advocated for the primacy of shareholder value now instead exhort leaders to adopt an authentic environmental, social, and governance agenda as a central business driver.

Similarly, for several decades, economic globalization has been a powerful, continuous, and largely uncontested force that spread progress, growth, and prosperity, and generated remarkable, new opportunities for many businesses. A rapidly growing global middle class created new customers, while increasingly educated and skilled workforces provided wage-arbitrage opportunities. Widespread deregulation, the convergence of standards, and the reduction of trade barriers also contributed substantially to a relatively benign international business environment. Now, geopolitical turmoil, increased government intervention, the disruption of supply chains from various sources, and growing protectionist instincts in many parts of the world are putting significant stress on this very system, in which most of us have honed our leadership skills and business strategies.

These discontinuities will undoubtedly require leaders to innovate radically—in new ways and with new mindsets. Fortunately, continued advances in technology will provide significant, new opportunities and capabilities. In fact, developments over the next decade will likely astonish. Paradoxically, the inevitable end of Moore’s Law as it hits its physical limits is driving critical, new investments in new materials such as graphene, expected to displace silicon, while advances in chip specialization, design, and architecture are steadily securing significant performance gains. Quantum computing, biological computing, and artificial neural networks are already emerging, and software continues to “eat the world.” Together, these technologies are reinventing even our thousand-year–old model of scientific discovery, with the exponential growth of digitized data and increasingly powerful learning algorithms enabling the automated discovery of correlation and causation.

The possibilities and capabilities that new science and technology will generate over the next decade are quite literally defying human imagination today.

Absolutely critically but perhaps less visibly, how will we innovate to create value and secure sustainable growth will also change very substantially. Two key “softer” shifts are underway today that will help reframe most business and organizational models in the years ahead. We believe most business leaders should commit to more deeply exploring and activating both.

From “the theory of the firm” to “the theory of the ecosystem”

Adam Smith first observed the key role of the division of labor in driving productivity and growth. Technological progress and the increased specialization of work resulted in the growing complexity of economies in meeting human and societal needs. Similarly, Ronald Coase, in his seminal 1937 essay, “The nature of the firm,” introduced microeconomics and the essential role of the firm, “introduced microeconomics and the essential role of firms (primarily, the management of transaction and coordination costs).” Both were theories that helped shape business as we know it today. But more than 80 years later, these traditional views of industry structure and the role of individual firms might be less useful in understanding and leading the value-creation systems that now reshape the economy.

Advances in digitization, datafication, connectivity, and specialization are steadily dissolving old structures and blurring old boundaries by enabling cross-industry and cross-firm collaboration and cocreation. Previously distinct industries are converging to form dynamic, human-centric ecosystems that address fundamental human and societal needs and wants in newly possible—and typically more effective, precise, accessible, and sustainable—ways.
Within these ecosystems, individual businesses—alongside government, academic and philanthropic actors, and consumers—collaborate, compete, and evolve together, with diminishing transact and coordination challenges, and growing levels of interdependence and vital shared interests. Consider health and wellness: Physical and mental well-being are fundamental human needs, and have been the focus of discovery, innovation, and huge investment for centuries. But for too many in the United States and around the world, health care is inaccessible, either demanding a disproportionate share of their income or simply positioned beyond their reach.

The COVID-19 pandemic has accelerated the emergence of the new ecosystem that will transform this critical part of our societies and economies. Telemedicine usage soared, while tech and data companies rapidly developed and activated new track-and-trace systems. Pharma and biotech companies forged new collaborations, while blending and integrating vaccine manufacture and distribution capabilities. Governments, foundations, civic institutions, public health agencies, pharmacies, and citizens funded, mobilized, and staffed mass vaccination programs. Media companies raised awareness and information.

Globally, around 12 billion vaccine doses have been administered from a standing start in 18 months, with many billions being injected every day. There’s no denying the appalling inequity in the timing of the rollout process, and that mistakes have been made and lessons learned. But the sheer scale, speed, and effectiveness of this massively complex undertaking have provided testament to the growing capabilities and power of multiactor collaboration, which will only grow and strengthen over time.

As a result, highly autonomous and fully vertically integrated organizations could be fading into history. Over the coming decade, the concept of a “self-contained firm” as a useful unit of value creation likely will decline even further. While every business will continue to need its own strategy and vision to inform its own choices and priorities, these increasingly need to be anchored to the ecosystems within which the business operates. By focusing on collective strategies, we can more effectively integrate our capabilities in alliances for mutual benefit. This will not be simple. Strategy in a fast-changing world is already hard enough; collaborating with multiple entities to create shared ecosystem—wide strategies might feel a little like learning to play three-dimensional chess. New strategic tools and methods will be required, and new relationship norms must evolve.

The rise of networked power

Greatly amplified capabilities for connection and collaboration are not only transforming our economy through the growth of ecosystems but also greatly strengthening networked models of power. This matters profoundly. Power—who has it, how they get and use it, the rules they set with it, how they treat those who don’t have it, and the checks and balances they face if they abuse it—has always critically defined our societies, economies, and lives. Throughout history, the default modality of power has been consistently hierarchical and centralized, and operated primarily through command-and-control systems. The powerful institutions that have ordered our societies have been built primarily upon these defaults.

Yet very different power modalities have also helped shape human life—and frequently driven change. Networked, decentralized, autonomous, and collaborative models of power have frequently emerged as strong but temporary forces, often to tackle the abuse of traditional power and drive change and reform. Movements such as #MeToo and Black Lives Matter in the United States have triggered foundational societal changes that have impacted the behaviors and priorities of many major businesses. Greta Thunberg, lacking any formal authority or even organization, has catalyzed millions of youth activists in response to climate change.

The default toward traditional hierarchical power models is simple to explain: They’re effective in getting things done and are stable and enduring. But they also tend to lack speed, flexibility, agility, responsiveness, and adaptability—all important qualities in times of significant change. This explains why, over the last few decades, most large organizations have launched initiatives aimed at decentralizing, delaying, empowering, or dissolving silos. The sheer strength of the default power systems explains why these efforts have often resulted in new layers, different silos, and recentralizing systems. But over the coming decade, the conditions are in place for the defaults to be reset, at societal, economic, and organizational levels.

Twenty-five years ago, many expected that the internet would catalyze massive decentralization and shift power toward networks and away from formal institutions. Some of the more utopian aspirations of the 1990s have certainly not been realized—and the pace of change has, perhaps, been slower than some expected. But there should be no mistaking the significant impact of the internet on shifting power and influence. Platforms such as eBay, Etsy, and Shopify have enabled new levels of distributed economic activity, with tens of millions of active participants. Open-source intelligence tools and platforms are becoming stronger and, along with a variety of citizen-led investigative organizations, are playing a major role today in tackling disinformation.

Power is already shifting dramatically, but even greater change lies ahead. Trust in many old, centralized institutions is declining rapidly, eroding their authority and gatekeeping roles. Exponentially growing volumes of digitized data are becoming more openly available to more people. Gen Z, the first generation of digital natives, has reached adulthood with deep personal convictions regarding the need for social and environmental change. Web 3.0 and crypto networks are laying the foundations and establishing the capabilities for a decentralized digital economy.

The macro challenges and opportunities that lie ahead of us all demand multidimensional, multiactor collaborations that defy centralized coordination and control. Business (and other) leaders can, of course, choose to resist the rise of networked power models, but the costs, in terms of slow innovation and weaker collaboration, could prove to be high. Bold action will be required from business leaders as we endeavor to forge a shared future that’s productive and sustainable, meritocratic and equitable, profitable and purposeful, logical and human-centric, and competitive but also deeply collaborative. Those who activate and amplify their agency by adopting new mindsets and innovating new tools and approaches to unleash the growing power of ecosystems, while blending hierarchical with networked power, will have disproportionate impact and will better secure their own sustained growth.

For more insights, visit www.deloitte.com/us/ageofdiscontinuity
Endnotes

Where global execs stand on making health equity a business priority


The potential impact of a broken DEI promise

1. Jennifer Tonti and Jill Mizell, “95% of Black Americans agree that it’s important for companies to promote racial equity: 80% believe they can do more,” JUST Capital, April 1, 2021.


Addressing the link between financial, physical, and emotional health


4. According to the 2017 FDIC National Survey of Unbanked and Underbanked Households, “underbanked” are defined as those who have a checking or savings account and used one of the following products or services from an alternative financial services provider: money orders, check cashing, international remittances, payday loans, refund anticipation loans, rent-to-own services, pawn shop loans, or auto title loans.


6. Megan Leonhardt, “Payday loans can have interest rates over 600%—here’s the typical rate in every U.S. state,” CNBC, February 16, 2021.


Climate change breeds climate anxiety


3. Leon Pieters et al., Who is setting the pace for personal sustainability?, Deloitte Insights, April 4, 2022.

Making smartphones live longer—and greener

1. We have used a range of publicly available information to arrive at this prediction. For CO2 emissions per device and the split by production, use, transport, end-of-life processing, see Apple, iPhone 12 product environmental report, October 13, 2020; Huawei, “Product environmental information,” accessed April 25, 2022; Google, Pixel 5: Product environmental report, accessed October 6, 2021. For 2022 smartphone shipments information, see International Data Corporation, “Smartphone shipments to grow 5.5% in 2021 driven by strong 5G push and pent-up demand, according to IDC,” March 10, 2021.

2. The market for mobile phone insurance is forecast at US$29.5 billion globally in 2022, with a base value of US$23.3 billion in 2020, and a CAGR of 12.6%. Grand View Research, Mobile phone insurance market size, share & trends analysis report by coverage, by phone type, by region, and segment forecasts, 2021–2028, April 2021.

Data-protection tech that helps AI fulfill its potential

1. This article and Deloitte Insights Magazine are independent publications and have not been authorized, sponsored, or otherwise approved by Apple Inc.


Automation won’t end the labor shortage


2. Ibid.

3. Ibid.

The new supply chain equilibrium


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Why reporting workplace well-being metrics is a good idea


Employee health contributes to organizational health


5. Steve Hatfield, Jen Fisher, and Paul Silverglade, The C-suite’s role in well-being:
Smart cities, smarter public health

5. United Nations, “68% of the world population projected to live in urban areas by 2050, says UN,” May 16, 2018.
10. Ibid.
11. Ibid.
15. Antunes, Barroca, and de Oliveira, Urban future with a purpose.
16. Ibid.
17. Ibid.

The importance of sharing success—and stress—metrics

3. Ibid.

Incentives are key to breaking the cycle of cyberattacks on critical infrastructure

7. For a description of how increasing tech balkanization encourages nation-state cyberattacks, see Jesse Goldhammer et al., Leading the way with an adversary focus: Government’s role in deterring cyberattacks, Deloitte Insights, August 4, 2021. For more on how geopolitical tensions can drive cyberattacks, see CISA Insights, “Increased geopolitical tensions and threats,” January 6, 2020.
15. Our categorization of incentives comes from Stephen Levitt and Stephen Dubner’s book Freakonomics, in which they categorize “three basic flavors of incentive: economic, social, and moral.” Our categorization of the levers that can shape those incentives is a combination of Lawrence Lessig’s norms, markets, laws, and architecture, and Bruce Schneier’s moral, reputational, institutional, and security.
16. Catalin Cimpanu, “Netherlands can use intelligence or armed forces to respond to ransomware attacks,” Record, October 7, 2021; Sean Gallagher, “Candid camera: Dutch hacked Russians hacking DNC, including security cameras,” ARS Technica, January 26, 2018.
21. Ibid.
23. The inherent tension between wanting more/better services and where funding for those services should come from can be seen in research by the Pew Research Center. Pew Research Center, “Little public support for reductions in federal spending,” April 11, 2019; Pew Research Center, “In a politically polarized era, sharp divides in both partisan coalitions,” December 17, 2019.
26. Examples of such exercises and tools include those from the E-ISAC (Maggie Miller, “Hundreds participate in cyber grid cyberattack simulation amid increasing threats,” Hill, November 18, 2021) and FS-ISAC (FS-ISAC, “Exercises: Build stronger plans and a more resilient business,” accessed May 12, 2022).


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Investing in creative potential

1. An ecological approach is one that is focused on the relationship between the individual and the systems in which they act, a relationship that is seen as interdependent. Ecological psychology is an embedded, situated, and nonrepresentational approach pioneered by J. J. Gibson and E. J. Gibson.

2. The Four P’s framework—where creativity is framed as an emergent property of person, process, place (press in the original), and product—was first discussed in M. Rhodes, “An analysis of creativity,” The Phi Delta Kappan 42, no. 7 (1961): pp. 305–10.

3. Rhodes’s original article calls this setting “press” rather than “place,” the idea being that there are pressures (or influences) on our behaviors. While it’s true that the social and physical context we find ourselves in influences our creative behavior; it is also true that some of these influences are not necessarily environmental. Consequently, it is common for press to be replaced by place, as we have throughout this essay, as place is a more intuitive term; ibid.

4. A useful, and short, definition for innovation is “the economic exploitation of creativity.”


7. Problem-posing is a technique where an issue is framed and reframed to try and identify and define the core challenge. It is commonly used in both education pedagogy and design.

8. It’s for this reason that the 1978 Superman film has a long section at the start showing the challenges Clark Kent faces when trying to fit into society while having superpowers.


10. What we have referred to as “cognitive diversity” is often called “functional diversity” in the literature; ibid.

11. Thanks to Peter Williams—a charted accountant—for the analogy.

12. Traditionally, this has been approached through office-space design, from inspirational decor to collaborative tools such as stages, small auditoriums, and floor-to-ceiling whiteboards. But increasingly, place can be just as much virtual as physical as organizations invent new ways to collaborate digitally, perhaps even in the imagined metaverse of coming years.

13. The first report in this series, Unshackling the creative business, discussed how creativity in business is contingent, in that the creativity of one team depends on the creativity of others; see Peter Evans-Greenwood et al., Unshackling the creative business: Breaking the tradeoff between creativity and efficiency, Deloitte Insights, April 9, 2021.


15. The authors developed on “investment opportunity” in the previous essay in the series Setting the stage for creative performance. The intention with “investment opportunity” is to put creativity on an equal footing with efficiency in an organization’s operating model by creating a metric for creativity to balance cost-benefit; see Peter Evans-Greenwood et al., Setting the stage for creative performance: Improving creativity in business by measuring creativity, Deloitte Insights, October 29, 2021.


20. We might compare this to the Four-C Developmental Trajectory for creativity, which breaks the development of creativity into a journey from Mini-C (personal creativity) through Little-C (everyday creativity) and Pro-C (professional creativity) to Big-C (legendary creativity). See Ronald A. Beghetto, James C. Kaufman, and John Baer, Teaching for Creativity in the Common Core Classroom (New York: Teachers College, Columbia University, 2014), pp. 21 and 27.

21. Such as a pandemic. Indeed, this series was triggered by the observation (toward the end of the first year of the pandemic) that many otherwise “creative” organizations struggled to respond creatively, while some organizations not particularly known for their creativity provided creative and innovative responses.

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Renewable transition: Separating perception from reality


2. Deloitte analysis of data from Table 1.1 from EIA, “Electric power monthly,” accessed May 10, 2022.


7. For global cost decline, see International Renewable Energy Agency (IRENA), Renewable power generation costs in 2020, June 2021, p. 3; for US cost decline, see Mark Bolinger, Utility-scale wind and solar in the US: Comparative trends in deployment, cost, performance, pricing, and market value, Electricity Markets and Policy Department at Lawrence Berkeley National Laboratory, December 8, 2020, p. 21.

8. Digitalization refers to applying information and communications technology to the electric grid. This may involve connecting smart meters, sensors, and other devices to monitor grid activity, analyzing the data collected, applying AI, and using software to manage, control, and automate operations.

9. IRENA, Renewable power generation costs in 2020, p. 11.


11. IRENA, Renewable power generation costs in 2020, p. 18.


13. IRENA, Renewable power generation costs in 2020, p. 18.


16. Electric power systems in regions with high wind-power contributions have operated reliably without added storage and with
little or no increase in generation reserves (see American Clean Power Association, AWEA US wind industry annual market report, year ending 2013, 2013). MISO has been able to integrate huge amounts of wind without adding power plants to back up its renewable energy production, partly because MISO is a large balancing area with many different energy resources available (see Glen Anderson, “Integrating renewable energy,” National Conference of State Legislatures, June 20, 2016). The IEA could not be any clearer: No additional dispatchable capacity ever needs to be built because VRE is in the system. On the contrary, to the extent of the capacity credit of VRE, its addition to the system reduces the need for other capacity (see American Clean Power Association, “News roundup: A carbon-free Iowa energy boom, renewable integration is easy, wind and solar work together,” March 5, 2014).

17. Variable renewable energy (VRE) refers to utility-scale wind and solar resources as well as distributed solar PV. Distributed wind is also a VRE, but volumes are low, and data was not available for this analysis.


19. Ibid.


30. MISO, “Corporate fact sheet.”


32. Ibid.


35. California ISO, Root cause analysis: Mid-August 2020 extreme heat wave, January 13, 2021. While some have attributed California’s electricity supply shortages to VRE, the causes appear more related to demand surges from unprecedented multistate heat waves coinciding with wildfires that constrained transmission and triggered systemwide failures (for more details, see Ken Silverstein, “Green energy is not among the culprits behind California’s energy crisis,” Forbes, September 8, 2020). Nevertheless, California’s plans to prevent future shortages include accounting for the state’s changing generation mix.


48. Ibid.

49. Ibid.

50. IEA, The role of critical minerals in clean energy transitions, May 2021.


65. Anmar Frangoul, “Renewable electricity generation is growing—but it’s not enough to meet rising demand, IEA says,” CNBC, July 15, 2021.


68. Edison Electric Institute, “The clean energy transformation: Electric companies are leading the way,” accessed May 10, 2022.


70. Deloitte analysis of data from S&P Global Market Intelligence.

71. Joseph Rand et al., Queued up: Characteristics of power plants seeking transmission interconnection as of the end of 2020, Lawrence Berkeley National Laboratory, May 2021, p. 3.


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The end note: The shifting balance between health, safety, and financial concerns


2. Ibid.

3. Ibid.
We’re still in a dual-front crisis, according to the Deloitte Global State of the Consumer Tracker. However, after lagging behind for the better part of two years, financial stress is now overpowering health and safety concerns as the primary determinant of consumers’ decision-making by quite a strong margin.

Following omicron, global pandemic anxiety subsided dramatically among the 23,000 respondents across 23 countries who participated in our monthly consumer survey. Consumers’ perceived safety of doing everyday things like going to the store quickly reached two-year highs, and it continues to improve with each passing month. At the same time, record inflation continued unabated, exacerbated by geopolitical conflict. And with government stimulus programs no longer around to help consumers make ends meet, financial sentiment metrics have begun flashing warning signals. Globally, financial anxiety is high—as is concern around inflation, and consumers’ level of savings and credit card debt. In some countries, including the United States, China, and England, discretionary spending intentions are weakening.

In many ways, consumer businesses face similar challenges compared to early pandemic days. They still need the agility to respond to rapidly changing consumer behavior. And few can predict the extent of the financial headwinds that lie ahead.

Even as the pandemic gradually fades, many companies are finding that prepandemic financial and forecasting models no longer work. The “new normal” remains elusive.

The shifting balance between health, safety, and financial concerns

Some research and insights have a short shelf life, while others continue to gain color and context. In each issue of Deloitte Insights Magazine, we look back on research we published and ideas we pitched, and evaluate whether they’ve stood the test of time.

By Stephen Rogers
Managing director of Deloitte’s Consumer Industry Center

What we said then

“In the span of a few months, what started as a global health crisis morphed into an economic one as well. It’s been more than a century since the world has seen these two forces so intertwined. We do not expect to see a return to normal, or even a new normal, until total concern descends from its elevated level and financial concerns overtake those of immediate health and safety.”

In the throes of a dual-front crisis: Establishing the road to a global consumer recovery, Deloitte Insights, April 2020.

What we say now

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