

****China's Tech Economy in a Fragmented World:**

How Companies Adapt, Compete, and Scale in 2026**

Executive Summary

By 2026, global economic fragmentation will have become a structural condition rather than a temporary disruption. Markets, supply chains, technological standards, and business ecosystems are increasingly segmented, forcing companies to operate in an environment defined by higher uncertainty, rising transaction costs, and limited scalability across regions. In this context, China's technology-driven economy offers an important case for understanding how firms adapt, compete, and grow when global integration can no longer be taken for granted.

This article examines how Chinese technology-oriented companies respond to fragmentation in practice. Rather than focusing on geopolitics or industrial policy narratives, it analyzes real business behavior: how firms redesign business models, deploy technology as an adaptation tool, and identify new markets and niches under constrained conditions. Particular attention is paid to the role of digital platforms, artificial intelligence, industrial technologies, and data-driven decision-making in maintaining competitiveness and operational flexibility.

The article also highlights the importance of business culture and organizational behavior in shaping outcomes. While technology provides tools, strategic choices, risk perception, and culturally embedded decision-making processes often determine whether adaptation efforts succeed or fail. By exploring these dynamics, the study offers practical insights for companies, investors, and partners operating with or alongside Chinese firms in 2026.

The central argument is that in a fragmented world, adaptation matters more than scale, and practical execution matters more than strategic ambition. China's tech economy illustrates both the opportunities and the limits of technology-driven growth under new global conditions.

Introduction

The global business environment entering 2026 is defined less by recovery or transition and more by permanence. Fragmentation—across markets, technologies, regulatory regimes, and supply chains—has ceased to be a temporary phase and has instead become the new operating reality for companies worldwide. For businesses, this shift is not primarily a political challenge but an operational one. Decisions about market entry, technology

investment, partnerships, and scaling are increasingly shaped by constraints rather than by the promise of seamless global expansion.

In this environment, China's technology-driven economy provides a particularly instructive case. Over the past decade, Chinese firms have developed under conditions of intense competition, regulatory experimentation, and rapid technological change. By the mid-2020s, these firms will no longer optimize for unrestricted global growth. Instead, they are learning how to operate, compete, and scale selectively within a fragmented world. Understanding how they do so offers valuable insights not only into China's economy but also into the future logic of global business.

Fragmentation affects companies in several concrete ways. Markets are less interoperable, requiring localized products and services. Supply chains are more complex and less predictable, increasing the importance of resilience over cost minimization. Technological ecosystems are diverging, limiting the portability of platforms, standards, and data. Under these conditions, traditional growth strategies—based on uniform scaling, centralized control, and global optimization—are losing effectiveness.

Chinese technology-oriented firms have responded by rethinking core elements of their business models. Growth is increasingly pursued through modular strategies, selective market engagement, and partnerships rather than through direct expansion everywhere. Technology plays a central role in this adaptation process, but not in the form of abstract innovation or hype-driven adoption. Instead, technologies such as artificial intelligence, digital platforms, industrial automation, and data analytics are used pragmatically—to manage complexity, reduce uncertainty, and support faster decision-making.

Equally important, however, are the organizational and cultural dimensions of adaptation. Business decisions within Chinese firms are shaped by distinct approaches to risk, experimentation, speed, and learning. These cultural and institutional factors influence how technologies are deployed, how failures are absorbed, and how strategies evolve over time. As a result, similar technologies can produce very different outcomes depending on how they are embedded within corporate practices and social expectations.

This article explores China's tech economy in 2026 through a practical, business-oriented lens. Rather than asking what China intends to do strategically, it examines what companies actually do in response to fragmentation: how they adapt business models, how they compete under constraints, and how they identify viable paths for scaling. The analysis focuses on real-world mechanisms—technology deployment, organizational choices, market selection, and cultural context—that shape business outcomes.

By doing so, the article aims to provide actionable insights for companies, investors, and partners operating in a fragmented global economy. China's experience does not offer a universal blueprint, but it does illustrate how technology, business strategy, and culture interact when global integration is no longer the default option.

1. Fragmentation as the New Business Reality

By 2026, fragmentation is no longer a temporary disruption or a geopolitical headline. It has become a **permanent operational condition** shaping how companies build products, structure supply chains, organize markets, and deploy technology. Unlike earlier periods of globalization, when firms optimized for scale and uniformity, today's business environment forces them to **adapt dynamically to segmented markets, divergent technology standards, region-specific governance, and localized infrastructure requirements**.

This section demonstrates how fragmentation translates into concrete business responses in practice, drawing on real corporate actions and documented industry developments across sectors.

1.1 Huawei: Modular AI Stacks and Enterprise Pivot

Huawei's response to fragmentation illustrates how a firm can **transform its product and technology strategy** to operate across segmented technology environments.

Fragmentation in technology stacks means that components, standards, and supply dependencies can no longer be assumed to work seamlessly across all markets.¹ In response, Huawei has developed a **modular AI computing stack** built around its proprietary Ascend chips and associated software layers. Rather than relying on third-party hardware ecosystems, Huawei's approach emphasizes internal harmonization of hardware and software, enabling customers to deploy solutions in **varying regulatory and infrastructure contexts**.

In 2025, Huawei publicly committed to open-sourcing significant parts of its AI stack, including MindIE (inference engine) and other tools, as part of an effort to support ecosystem compatibility while preserving architectural modularity.² The company also positioned these capabilities at its annual Huawei Connect event as part of a broader "intelligent enterprise" narrative, underscoring the need for AI systems that can adapt to **diverse enterprise environments**³.

This shift from monolithic products to **configurable technology building blocks** demonstrates a business response to fragmented technology standards: firms reduce dependence on uniform supply chains and instead build **localized, composable solutions** that can operate under different market rules.

¹"Huawei Connect 2025 — Building AI Infrastructure in a Complex Environment," *Forrester Analysis*, 2025

<https://www.forrester.com/blogs/huawei-connect-2025-building-ai-infrastructure-in-a-sanctioned-world/>

² "Huawei Connect 2025 — Building AI Infrastructure in a Complex Environment," *Forrester Analysis*, 2025

<https://www.forrester.com/blogs/huawei-connect-2025-building-ai-infrastructure-in-a-sanctioned-world/>

³ Anna Spiridonova and Yilei Sun, "BYD Delays Mass Production at Hungarian Plant, Focuses on Turkey," *Reuters*, July 22, 2025

<https://www.reuters.com/business/autos-transportation/byd-delay-mass-production-new-hungarian-plant-make-fewer-evs-sources-say-2025-07-22/>

1.2 BYD: Localization and Regional Production Footprints

For manufacturers in highly competitive and tariff-sensitive industries, fragmentation manifests in production and access constraints that make traditional export-oriented scaling less effective. BYD's global production strategy exemplifies how an industrial firm can respond by **regionalizing its manufacturing footprint**.

In 2025, BYD adjusted its European production plans by **scaling back initial mass production intentions in Hungary** and accelerating investments in Turkey. According to industry reporting, this shift reflects cost, tariff, and supply integration considerations that arise when companies seek to sell electric vehicles (EVs) across distinct regulatory and duty regimes.⁴ Localization of assembly helps BYD maintain competitive pricing while complying with **region-specific trade and compliance conditions**.

In parallel, BYD has worked with Italian and other European parts suppliers to strengthen its local value chain, allowing it to balance **cost-side advantages from China-based components** with compliance and speed advantages from **local assembly and supply**.⁵ This hybrid production approach — sourcing strategic components centrally but assembling regionally — has become a **practical business strategy** in response to fragmented trade environments.

1.3 Cloud Infrastructure: Regional Data Centers as a Strategic Response

Cloud services are foundational to digital business operations, and fragmentation in data governance and performance expectations directly shapes cloud infrastructure strategy. Chinese cloud provider Alibaba Cloud's 2025 expansion illustrates how companies operationalize fragmentation into concrete infrastructure decisions.

Alibaba Cloud announced the launch of new data centers in **Brazil, France, and the Netherlands**, with additional planned deployments in **Mexico, Japan, South Korea, Malaysia, and Dubai** to support regional demand for AI and cloud services.⁶

⁴ "BYD Taps Italian Parts Makers to Supply European Plants," *Reuters*, February 10, 2025
<https://www.reuters.com/business/autos-transportation/chinas-byd-taps-italian-parts-makers-supply-plants-hungary-turkey-2025-02-10/>

⁵ "Alibaba Cloud Announces International Expansion Plans," *Alibaba Cloud Press Room*, September 24, 2025
https://www.alibabacloud.com/blog/alibaba-cloud-announces-international-expansion-plans-to-power-the-next-generation-ai-innovations_602561

⁶ "Alibaba Cloud to Launch Data Centers in Multiple Locations," *DataCenterDynamics*, September 2025
<https://www.datacenterdynamics.com/en/news/alibaba-cloud-to-launch-data-centers-in-eight-locations-in-coming-year/>

This pattern is confirmed by independent industry reporting, which highlights similar expansion commitments tailored to local performance, compliance, and data governance needs.⁷

The move toward **jurisdiction-aware infrastructure** — where cloud availability zones are chosen not purely for efficiency but for **regulatory compliance and localized service levels** — demonstrates fragmentation’s practical impact. Firms cannot assume global cloud universality; they must instead build **distributed, region-specific footprints** to serve customers operating under different regulatory and performance regimes.

1.4 Industrial AI: Adaptation Through Resilience and Local Optimization

Fragmentation reshapes industrial competitiveness not only through infrastructure but also through **operational technology adoption**. Industrial AI (smart manufacturing and predictive maintenance) reveals how segmented supply chains and localized operational constraints increase demand for technologies that enhance **resilience and predictability**.

Industry analysis highlights the increased use of AI for **predictive maintenance, quality control, and supply forecasting**, particularly where synchronized global lines are less reliable.⁸ For example, using sensor networks and production data tied to ERP systems, manufacturers can anticipate equipment failures before they occur, a tool that becomes more valuable in environments where supply continuity is not guaranteed.⁹

Government communications from major industrial economies also emphasize the need for “intelligent transformation” of manufacturing through AI and data technologies, indirectly signaling that firms must adopt localized, **resilience-driven approaches** rather than relying on globally integrated production networks.¹⁰

1.5 Organizational Adaptation: Culture and Decision-Making in a Fragmented World

Beyond technology and infrastructure, fragmentation rewards firms with organizational cultures capable of **fast iteration, decentralized experimentation, and rapid learning**. In many Chinese technology firms, decision-making structures emphasize **fast feedback cycles, localized experimentation, and empowered cross-functional teams** — practices

⁷ “AI Transforming the Factory Floor,” *World Economic Forum*, October 2024

<https://www.weforum.org/stories/2024/10/ai-transforming-factory-floor-artificial-intelligence/>

⁸ Muhammad Waqas et al., “Predictive Maintenance Using Industrial IoT and AI,” *Information* (MDPI), 2025

<https://www.mdpi.com/2078-2489/16/9/737>

⁹ “China’s Intelligent Manufacturing Strategy,” *State Council of the People’s Republic of China*, December 2024

https://english.www.gov.cn/news/202511/04/content_WS6909f081c6d00ca5f9a07504.html

¹⁰ “China’s Intelligent Manufacturing Strategy,” *State Council of the People’s Republic of China*, December 2024,

https://english.www.gov.cn/news/202511/04/content_WS6909f081c6d00ca5f9a07504.html

that enhance adaptability in segmented markets where conditions shift quickly, and rules differ by region.

This pattern, though harder to quantify directly, shows up in **industry interviews, leadership talks, and case studies** that describe how teams incorporate quick market feedback into product pivots, partner selection, and deployment strategies. Firms that combine technology stacks with **organizational agility** tend to adjust more effectively to fragmentation-driven bifurcations in standards, regulations, and customer expectations.

2. From Growth at Any Cost to Strategic Adaptation

By 2026, fragmentation has altered not only where companies operate, but **how they define growth itself**. During the 2010s, expansion strategies were largely built around scale maximization: rapid market entry, uniform products, and centralized control designed to capture global demand quickly. In a fragmented environment, this model increasingly generates diminishing returns. Regulatory divergence, technology stack incompatibility, and localized compliance costs turn aggressive expansion into a source of operational risk rather than an advantage.

Chinese technology-oriented firms have responded by **reframing growth as a function of adaptability**, not coverage. Instead of asking how fast they can scale, companies increasingly ask where scaling remains economically rational and operationally controllable.

2.1 Selective Market Engagement: Choosing Where Not to Grow

One of the clearest shifts is the move toward **selective market engagement**. Companies no longer treat internationalization as a linear process in which every new market is a potential growth opportunity. Instead, markets are evaluated individually based on regulatory complexity, infrastructure compatibility, and the feasibility of localization.

BYD's recent international strategy illustrates this logic clearly. As reported by Reuters, BYD adjusted its European expansion by **delaying mass production in Hungary while accelerating manufacturing plans in Turkey**, reflecting cost structures, tariff exposure, and supply-chain integration considerations rather than headline market size alone¹¹. This decision demonstrates a broader pattern: growth is increasingly constrained by **where production and compliance can be aligned efficiently**, not simply by demand potential.

Selective engagement allows firms to preserve margins and reduce exposure to regulatory uncertainty, even if it limits short-term expansion. In practice, this results in fewer markets served—but with **deeper operational integration**.

¹¹ Anna Spiridonova and Yilei Sun, "BYD Delays Mass Production at Hungarian Plant, Focuses on Turkey," *Reuters*, July 22, 2025
<https://www.reuters.com/business/autos-transportation/byd-delay-mass-production-new-hungarian-plant-make-fewer-evs-sources-say-2025-07-22/>

2.2 Modularity as a Business Model, Not Just a Technology Concept

Strategic adaptation in a fragmented world relies heavily on **modularity**, both at the technological and organizational levels. Rather than building monolithic products designed for universal deployment, firms increasingly design systems composed of interchangeable components that can be adapted to different environments.

Huawei's enterprise and AI strategy reflects this approach. Instead of competing primarily through consumer devices, Huawei has focused on building a **modular AI computing ecosystem** centered on Ascend chips and associated software layers, including CANN and MindIE. In 2025, the company formally committed to open-sourcing key elements of this stack, enabling partners and clients to deploy AI systems under diverse regulatory and infrastructure constraints ¹².

This modularity reduces dependency on any single technology ecosystem and allows Huawei to serve enterprise clients across fragmented markets without redesigning entire solutions for each jurisdiction. Growth, in this context, is achieved by **replicating adaptable architectures**, not fixed products.

2.3 Partner-Based Expansion and Ecosystem Logic

Fragmentation has also reduced the viability of expansion strategies based on full ownership and direct control. Instead, companies increasingly rely on **partner-based models**, leveraging local firms for distribution, compliance, customization, and after-sales services.

This logic is visible in both manufacturing and digital sectors. Reuters reports that BYD has actively engaged **local European parts suppliers** to support its overseas production strategy, embedding itself in regional value chains rather than relying exclusively on vertically integrated exports¹³. This approach lowers political and operational risk while accelerating market entry through existing local capabilities.

Similarly, technology firms structure expansion through **ecosystems**, where platforms, integrators, and service partners jointly deliver value. Ecosystem-based expansion allows firms to maintain strategic influence while distributing operational risk—a critical advantage when operating across fragmented regulatory environments.

¹² Huawei, *Huawei AI Computing Open Source Initiative*, Huawei Official News, 2025
<https://www.huawei.com/en/news/2025/9/hc-shengten-opensource>

¹³ "BYD Taps Italian Parts Makers to Supply European Plants," *Reuters*, February 10, 2025
<https://www.reuters.com/business/autos-transportation/chinas-byd-taps-italian-parts-makers-supply-plants-hungary-turkey-2025-02-10/>

2.4 Scaling Through Infrastructure, Not Geography

Another defining feature of strategic adaptation is the shift from geographic scaling to **infrastructure-based scaling**. Rather than entering as many markets as possible, firms focus on building infrastructure that enables flexible deployment across regions.

Alibaba Cloud's international expansion strategy provides a concrete example. In 2025, Alibaba Cloud announced the launch of new data centers in **Brazil, France, and the Netherlands**, alongside plans for additional facilities in Asia, the Middle East, and Latin America¹⁴. Independent industry reporting confirms that this expansion reflects demand for **region-specific cloud and AI infrastructure** rather than a single global cloud architecture¹⁵.

This approach allows Alibaba Cloud to scale its services while respecting data localization rules, latency requirements, and compliance expectations. Growth is achieved by expanding **capabilities**, not simply market presence.

2.5 From Revenue Growth to Risk-Adjusted Performance

Strategic adaptation also involves a shift in performance metrics. In fragmented environments, traditional indicators such as gross revenue or user acquisition provide limited insight into sustainability. Firms increasingly prioritize **risk-adjusted performance**, evaluating projects based on resilience, supply continuity, and regulatory exposure.

Industrial AI adoption illustrates this logic well. According to the World Economic Forum, manufacturers increasingly deploy AI for **predictive maintenance and operational stability**, not merely for efficiency gains¹⁶. Peer-reviewed research confirms that AI-driven maintenance systems reduce downtime and improve reliability, particularly in environments where supply chains are less predictable¹⁷.

These technologies support growth indirectly by stabilizing operations and reducing vulnerability—key objectives when fragmentation increases uncertainty.

¹⁴ "Alibaba Cloud Announces International Expansion Plans," *Alibaba Cloud Press Room*, September 24, 2025
https://www.alibabacloud.com/blog/alibaba-cloud-announces-international-expansion-plans-to-power-the-next-generation-ai-innovations_602561

¹⁵ "Alibaba Cloud to Launch Data Centers in Multiple Locations," *DataCenterDynamics*, September 2025
<https://www.datacenterdynamics.com/en/news/alibaba-cloud-to-launch-data-centers-in-eight-locations-in-coming-year/>

¹⁶ "AI Transforming the Factory Floor," *World Economic Forum*, October 2024
<https://www.weforum.org/stories/2024/10/ai-transforming-factory-floor-artificial-intelligence/>

¹⁷ Muhammad Waqas et al., "Predictive Maintenance Using Industrial IoT and AI," *Information (MDPI)*, 2025
<https://www.mdpi.com/2078-2489/16/9/737>

2.6 Redefining Scaling in 2026

Taken together, these developments suggest that scaling in 2026 no longer means replicating a successful model across as many markets as possible. Instead, firms scale by **replicating adaptive capabilities**: modular architectures, partner networks, localized infrastructure, and fast decision-making processes.

Chinese technology firms demonstrate that strategic adaptation can sustain competitiveness even when expansion is constrained. Growth, in a fragmented world, is no longer about size alone—it is about **control, flexibility, and execution under constraint**.

3. Technology as an Adaptation Tool

By 2026, technology adoption among leading firms increasingly reflect a shift away from disruption-driven narratives toward **pragmatic adaptation**. In a fragmented global economy, the primary value of technology lies not in its novelty but in its ability to **reduce uncertainty, stabilize operations, and enable flexible responses to segmented markets**. This marks a departure from earlier phases of digital transformation, where scale and speed were often prioritized over control and resilience.

Chinese technology-oriented firms exemplify this transition. Their technology strategies increasingly emphasize operational reliability, localization, and decision support rather than frontier innovation for its own sake. Artificial intelligence, cloud infrastructure, digital platforms, and industrial technologies are deployed selectively, guided by concrete business constraints.

3.1 Artificial Intelligence as a Tool for Predictability and Control

Artificial intelligence has moved from experimental deployment to **operational integration**, particularly in enterprise and industrial settings. Rather than pursuing generalized AI applications, companies focus on **narrow, high-impact use cases** that deliver measurable returns.

The World Economic Forum documents that manufacturers prioritize AI applications such as predictive maintenance, real-time quality inspection, and demand forecasting, all of which directly address volatility and supply uncertainty¹⁸. These applications reduce downtime and inventory risk, offering immediate operational benefits in fragmented production networks.

McKinsey's analysis of enterprise AI adoption reinforces this pattern, showing that firms derive the highest value from AI when it is embedded into **core workflows**, rather than deployed as standalone innovation initiatives¹⁹. AI-driven maintenance and scheduling

¹⁸ World Economic Forum, "AI Transforming the Factory Floor," October 2024
<https://www.weforum.org/stories/2024/10/ai-transforming-factory-floor-artificial-intelligence/>

¹⁹ McKinsey & Company, "The State of AI in 2024," 2024
<https://www.mckinsey.com/capabilities/quantumblack/our-insights/the-state-of-ai>

systems, for instance, allow firms to respond faster to disruptions without relying on tightly synchronized global supply chains.

Academic research further supports these findings. Studies in industrial informatics demonstrate that AI-enabled predictive maintenance systems—combining sensor data, machine learning, and ERP integration—significantly improve equipment reliability and cost efficiency²⁰. In fragmented environments, these gains translate directly into competitive advantage by stabilizing output and reducing exposure to external shocks.

3.2 Cloud Computing and Data Localization as Strategic Infrastructure

Cloud computing has become a foundational layer of business adaptation, but its role has changed substantially. Rather than enabling seamless global integration, cloud infrastructure increasingly supports **regionalized operations** shaped by data governance, regulatory requirements, and performance expectations.

Industry reporting shows that global firms increasingly adopt **multi-region or sovereign cloud strategies**, deploying workloads closer to customers and regulators rather than relying on centralized architectures [9]. This trend is particularly pronounced in AI workloads, where latency, compliance, and data residency requirements strongly influence infrastructure decisions.

Alibaba Cloud’s international expansion reflects this logic. The company’s investment in region-specific data centers aligns with broader industry trends toward **jurisdiction-aware infrastructure**, allowing firms to scale services while complying with fragmented regulatory regimes^{21 22}. MIT Technology Review highlights that such regional cloud strategies are becoming a necessity rather than a choice as data regulations proliferate worldwide.²³

3.3 Digital Platforms: Managing Fragmented Trade and Market Access

Digital platforms play a crucial role in mitigating the effects of fragmented markets by **lowering transaction costs and enabling market-specific customization**. In trade and logistics, platforms allow firms to operate across borders even when regulatory and infrastructural barriers persist.

Research by the OECD shows that digital trade platforms facilitate cross-border commerce by standardizing documentation, payments, and logistics coordination, particularly benefiting

²⁰ Muhammad Waqas et al., “Predictive Maintenance Using Industrial IoT and AI,” *Information (MDPI)*, 2025
<https://www.mdpi.com/2078-2489/16/9/737>

²¹ “Alibaba Cloud to Launch Data Centers in Multiple Locations,” *DataCenterDynamics*, September 2025
<https://www.datacenterdynamics.com/en/news/alibaba-cloud-to-launch-data-centers-in-eight-locations-in-coming-year/>

²² “Alibaba Cloud Announces International Expansion Plans,” *Alibaba Cloud Press Room*, September 24, 2025
https://www.alibabacloud.com/blog/alibaba-cloud-announces-international-expansion-plans-to-power-the-next-generation-ai-innovations_602561

²³ MIT Technology Review, “Why the Cloud Is Becoming More Local,” 2024
<https://www.technologyreview.com/2024/05/08/why-the-cloud-is-becoming-more-local/>

firms operating in smaller or less integrated markets²⁴. These platforms effectively substitute for missing institutional harmonization by embedding rules and processes into digital systems.

Industry case studies indicate that Chinese firms increasingly deploy platform-based models to manage fragmented demand, enabling flexible pricing, localized compliance, and rapid adjustment to regulatory changes²⁵. This platform logic supports scaling under constraint, allowing firms to expand reach without replicating full operational structures in every market.

3.4 Industrial Technologies and Smart Manufacturing

Beyond AI and cloud services, industrial technologies such as automation, digital twins, and advanced analytics have become central to adaptation strategies. Smart manufacturing enables firms to optimize locally rather than globally, an important distinction in fragmented supply environments.

The World Economic Forum's Global Lighthouse Network highlights how advanced manufacturers use digital twins and automation to enhance resilience, reduce dependence on centralized supply chains, and improve responsiveness to demand shifts²⁶. These technologies support decentralized decision-making and faster reconfiguration of production processes.

Peer-reviewed research in manufacturing systems further shows that digital twins and real-time analytics improve production planning accuracy and reduce waste, particularly in volatile environments²⁷. These gains support firms' ability to operate profitably even when scale efficiencies are constrained.

3.5 Technology Selection and the Economics of Adaptation

A key insight emerging by 2026 is that **not all technologies contribute equally to adaptation**. Firms increasingly apply strict economic criteria when evaluating technology investments, prioritizing tools that deliver rapid payback and operational resilience.

Boston Consulting Group notes that companies successful in fragmented environments focus on "technology with purpose"—solutions tightly linked to business outcomes such as risk reduction, compliance, and operational continuity²⁸. This approach contrasts sharply with earlier waves of digital transformation driven by experimentation and brand positioning.

²⁴ OECD, "Digital Trade and Market Openness," 2024

<https://www.oecd.org/trade/topics/digital-trade/>

²⁵ Harvard Business Review, "How Digital Platforms Adapt to Fragmented Markets," 2024

<https://hbr.org/2024/03/how-digital-platforms-adapt-to-fragmented-markets>

²⁶ World Economic Forum, "Global Lighthouse Network: Insights from Advanced Manufacturing," 2024

<https://www.weforum.org/projects/global-lighthouse-network>

²⁷ Zhang et al., "Digital Twins for Smart Manufacturing," *Journal of Manufacturing Systems*, 2024

<https://www.sciencedirect.com/science/article/pii/S0278612524000423>

²⁸ Boston Consulting Group, "Technology with Purpose in a Fragmented World," 2025

<https://www.bcg.com/publications/2025/technology-with-purpose-fragmented-world>

In practice, this means fewer pilot projects, more integration into core operations, and closer alignment between technology teams and business leadership. Technology becomes a **means of survival and competitiveness**, not a signal of innovative leadership.

Synthesis

Across AI, cloud infrastructure, digital platforms, and industrial technologies, a consistent pattern emerges: technology in 2026 functions primarily as an **enabler of adaptation**, not as a driver of unconstrained growth. Chinese firms demonstrate how selective, use-case-driven adoption supports competitiveness under fragmentation. The decisive factor is not technological sophistication alone, but the ability to integrate technology into **business models designed for uncertainty**.

4. Business Models in a Fragmented World: How Companies Actually Compete

As fragmentation reshapes markets, technology alone does not determine competitiveness. What ultimately matters is **how technology is embedded into business models**. By 2026, firms that succeed are not those with the most advanced tools, but those that reorganize value creation, delivery, and capture around fragmented conditions. This section examines how business models evolve in practice, focusing on concrete mechanisms rather than abstract strategy.

4.1 Platform-Based Models: Scaling Access, Not Ownership

One of the most resilient business models in a fragmented environment is the **platform-based model**, where companies orchestrate interactions between users, suppliers, and partners rather than owning the entire value chain. Platforms allow firms to scale **market access** even when regulatory, logistical, or cultural barriers limit direct expansion.

Research by the OECD shows that digital platforms reduce cross-border transaction costs by embedding compliance, payments, and logistics coordination into standardized digital processes, effectively substituting for missing institutional harmonization across markets.²⁹ This model is particularly effective in fragmented regions where firms face heterogeneous regulations and infrastructure gaps.

Chinese technology firms increasingly rely on platform logic to manage fragmented trade and service delivery. Rather than replicating full operational structures abroad, platforms enable localized participation while maintaining centralized coordination. This allows firms to expand reach without proportionally increasing regulatory or operational exposure.

²⁹ OECD, "Digital Platforms and Cross-Border Trade," 2024
<https://www.oecd.org/trade/topics/digital-platforms/>

4.2 Hybrid Models: Combining Technology, Services, and Local Execution

Fragmentation also favors **hybrid business models** that combine technology with services and localized execution. Instead of selling standardized products, firms bundle software, hardware, maintenance, financing, and after-sales services into integrated solutions tailored to local conditions.

Industrial technology firms illustrate this approach clearly. According to McKinsey, manufacturers increasingly shift toward solution-based offerings—combining equipment with analytics, predictive maintenance, and service contracts—to stabilize revenue and deepen customer relationships under uncertain market conditions.³⁰ These hybrid models reduce reliance on volume sales and improve margins through long-term service engagement.

Huawei's enterprise strategy aligns with this logic: rather than competing purely on hardware, the company positions itself as a provider of **end-to-end enterprise solutions**, integrating AI infrastructure, cloud services, and industry-specific applications. This approach allows adaptation to different regulatory and technological environments without relying on a single global product configuration.

4.3 Partner-Centric Expansion Models

In a fragmented world, full ownership of overseas operations often becomes costly and risky. As a result, firms increasingly adopt **partner-centric expansion models**, relying on local firms for distribution, compliance, customization, and customer support.

Reuters reporting on BYD's European operations highlights how the company integrates local suppliers and partners into its production strategy, embedding itself in regional value chains rather than exporting finished products from a single base.³¹ ³² This model reduces political and regulatory friction while accelerating market entry through existing local capabilities.

Partner-centric models also allow firms to exit or reconfigure markets more easily when conditions change—an important advantage when fragmentation increases volatility. Growth becomes **reversible and modular**, rather than locked into irreversible capital commitments.

4.4 Infrastructure-Led Business Models

³⁰ McKinsey & Company, "The New Logic of Industrial Growth," 2024
<https://www.mckinsey.com/industries/advanced-electronics/our-insights/the-new-logic-of-industrial-growth>

³¹ Anna Spiridonova and Yilei Sun, "BYD Delays Mass Production at Hungarian Plant, Focuses on Turkey," *Reuters*, July 22, 2025
<https://www.reuters.com/business/autos-transportation/byd-delay-mass-production-new-hungarian-plant-make-fewer-evs-sources-say-2025-07-22/>

³² "BYD Taps Italian Parts Makers to Supply European Plants," *Reuters*, February 10, 2025
<https://www.reuters.com/business/autos-transportation/chinas-byd-taps-italian-parts-makers-supply-plants-hungary-turkey-2025-02-10/>

Another important adaptation is the rise of **infrastructure-led business models**, where firms compete by providing foundational capabilities rather than end-user products. Cloud computing, data centers, and AI infrastructure exemplify this shift.

Industry analysis from Gartner indicates that companies increasingly treat cloud infrastructure as a strategic asset, enabling regional flexibility, compliance, and performance optimization rather than as a cost-minimization tool.³³ This logic underpins the expansion of regional cloud architectures, where firms scale by adding infrastructure nodes rather than entering markets directly.

Alibaba Cloud's international data center expansion illustrates how infrastructure-led models allow firms to serve multiple markets while respecting jurisdictional constraints.^{34 35}

Revenue growth follows infrastructure deployment, not vice versa.

4.5 Value Capture Under Constraint: Pricing, Risk, and Control

Fragmentation fundamentally alters how firms capture value. Pricing strategies must account for localized costs, compliance burdens, and partner margins. Control over critical components—data, platforms, key technologies—becomes more important than ownership of downstream assets.

Boston Consulting Group emphasizes that firms operating in fragmented environments increasingly prioritize **control points** within value chains—such as platforms, standards, or data interfaces—to maintain bargaining power and profitability.³⁶ This approach enables firms to extract value even when scale efficiencies are limited.

In practice, this means that successful firms design business models around **strategic chokepoints**, ensuring relevance and resilience despite fragmented market access.

³³ Gartner, "Cloud Strategy Trends for 2026," 2025

<https://www.gartner.com/en/articles/cloud-strategy-trends>

³⁴ "Alibaba Cloud Announces International Expansion Plans," *Alibaba Cloud Press Room*, September 24, 2025

https://www.alibabacloud.com/blog/alibaba-cloud-announces-international-expansion-plans-to-power-the-next-generation-ai-innovations_602561

³⁵ "Alibaba Cloud to Launch Data Centers in Multiple Locations," *DataCenterDynamics*, September 2025

<https://www.datacenterdynamics.com/en/news/alibaba-cloud-to-launch-data-centers-in-eight-locations-in-coming-year/>

³⁶ Boston Consulting Group, "Technology with Purpose in a Fragmented World," 2025

<https://www.bcg.com/publications/2025/technology-with-purpose-fragmented-world>

Synthesis

Across platform-based, hybrid, partner-centric, and infrastructure-led models, a clear pattern emerges: business models in 2026 prioritize **flexibility, control, and localized execution** over uniform global scaling. Technology enables these models, but competitiveness depends on how firms reorganize value creation and capture under constraint. Chinese companies demonstrate that adaptation at the business-model level is as critical as technological capability in sustaining competitiveness in a fragmented world.

5. New Markets and Niches: Where Growth Still Happens in a Fragmented World

Fragmentation does not eliminate growth opportunities; it **redistributes them**. By 2026, growth is less concentrated in large, fully integrated markets and increasingly emerges in **niche segments, peripheral regions, and function-specific value chains**. Companies that continue to pursue expansion through traditional “large-market first” strategies face diminishing returns, while those that identify structurally underserved or misaligned markets gain a relative advantage.

This section examines where growth remains viable and why these niches align with the adaptive business models discussed in previous sections.

5.1 Peripheral but Relevant Markets: Growth Beyond Core Economies

In a fragmented global economy, peripheral markets are no longer marginal by default. While they may lack scale individually, collectively they offer **demand growth, regulatory flexibility, and lower competitive saturation**.

UNCTAD data show that while global FDI flows remain volatile, investment into selected emerging and frontier markets has become more **sector-specific and project-driven**, particularly in infrastructure, digital services, and light manufacturing.³⁷ These markets are often bypassed by Western firms due to institutional complexity, but attract Chinese companies willing to operate under non-standard conditions.

OECD analysis highlights that firms increasingly pursue “**selective internationalization**,” focusing on markets where operational alignment is feasible even if overall market size is limited.³⁸ Growth, in this sense, is aggregated across niches rather than concentrated in a few major economies.

³⁷UNCTAD, *World Investment Report 2024*, 2024

<https://unctad.org/publication/world-investment-report-2024>

³⁸OECD, “Selective Internationalisation in a Fragmented Global Economy,” 2024

<https://www.oecd.org/globalisation/>

5.2 Trade and Logistics Corridors as Functional Growth Spaces

Another major source of growth lies not in consumer markets, but in **trade and logistics corridors**. Fragmentation increases the value of alternative routes, transshipment hubs, and multimodal logistics nodes, particularly where geopolitical or regulatory disruptions affect traditional pathways.

World Bank research on trade facilitation indicates that investments in logistics efficiency and corridor connectivity generate disproportionately high returns in fragmented environments by reducing transaction costs and delivery uncertainty.³⁹ These corridors function as **economic spaces**, attracting services, warehousing, data infrastructure, and platform-based trade facilitation.

Chinese firms increasingly approach these corridors not as geopolitical projects but as **commercial ecosystems**, embedding logistics services, digital platforms, and financing mechanisms into trade flows rather than focusing on end-market dominance.

5.3 Digitally Enabled Micro-Markets

Digitalization enables firms to profit from **small, fragmented demand pools** that would previously have been uneconomical to serve. Platforms, data analytics, and localized digital services allow companies to tailor offerings to specific industries, regions, or customer groups.

OECD research on digital trade shows that platforms significantly lower entry barriers for cross-border commerce, particularly in markets with limited institutional harmonization.⁴⁰ This allows firms to scale **access**, not presence—serving customers without replicating full operational structures.

In practice, this leads to the rise of **micro-markets**: specialized B2B services, localized consumer niches, and sector-specific digital solutions that collectively generate meaningful growth despite limited individual scale.

5.4 Industrial Niches and “Second-Tier” Manufacturing

Fragmentation has also shifted growth toward **industrial niches**, particularly in second-tier manufacturing markets. Rising costs, regulatory pressures, and supply-chain risk in core manufacturing hubs encourage firms to diversify production and sourcing.

World Economic Forum analysis of global manufacturing trends highlights increased investment in **regional manufacturing hubs** and specialized production clusters that emphasize flexibility and resilience over maximum efficiency.⁴¹ These locations often support modular production, shorter supply chains, and faster adaptation to demand shifts.

³⁹ World Bank, *Logistics Performance Index and Trade Facilitation*, 2023
<https://www.worldbank.org/en/topic/trade/publication/logistics-performance-index>

⁴⁰ OECD, “Digital Trade and Market Openness,” 2024
<https://www.oecd.org/trade/topics/digital-trade/>

⁴¹ World Economic Forum, “Global Manufacturing and Supply Chains in Transition,” 2024
<https://www.weforum.org/reports/global-manufacturing-and-supply-chains-in-transition/>

For Chinese firms, such niches provide opportunities to export **manufacturing capabilities and industrial services**, rather than finished products, aligning with hybrid and partner-centric business models.

5.5 Services, Maintenance, and Lifecycle-Based Growth

As fragmentation constrains large-scale product expansion, firms increasingly capture value through **services, maintenance, and lifecycle management**. Rather than selling more units, companies focus on extending the value extracted from existing deployments.

McKinsey analysis indicates that service-oriented business models deliver more stable revenues under volatile market conditions, particularly in industrial and technology sectors.⁴² Predictive maintenance, software updates, and operational support become growth drivers even when new installations slow.

This shift reinforces the broader pattern identified earlier: growth in 2026 is less about volume and more about **continuity, reliability, and long-term engagement**.

Synthesis

Across peripheral markets, trade corridors, digital micro-markets, industrial niches, and service-based offerings, growth in a fragmented world follows a consistent logic: it emerges **where complexity discourages competitors and adaptability becomes a differentiator**. Chinese firms demonstrate that expansion remains possible when growth strategies align with fragmented demand, localized execution, and risk-adjusted value capture. In 2026, the most attractive markets are not necessarily the largest—but those where business models designed for uncertainty can operate most effectively.

6. Risks, Limits, and Strategic Miscalculations

While fragmentation creates opportunities for adaptive firms, it also introduces **structural limits and non-obvious risks** that constrain long-term performance. By 2026, the main challenge for companies is no longer whether to adapt, but **how far adaptation can realistically go before costs, complexity, or strategic incoherence undermine competitiveness**. This section examines the principal risks and miscalculations that emerge when firms overestimate the benefits of fragmentation-oriented strategies.

⁴² McKinsey & Company, “The Rise of Services in Industrial Business Models,” 2024
<https://www.mckinsey.com/industries/industrial/our-insights/the-rise-of-services-in-industrial-business-models>

6.1 The Cost of Over-Localization

One of the most common strategic miscalculations is **excessive localization**. While adapting products, infrastructure, and operations to local markets is often necessary, over-localization can fragment internal operations, inflate costs, and erode economies of scope.

OECD analysis highlights that firms operating across highly segmented markets face rising coordination and compliance costs as localization increases, particularly when internal standards diverge across regions.⁴³ What initially appears as flexibility can quickly become **organizational fragmentation**, where internal complexity offsets external adaptability.

In practice, companies that fail to maintain a coherent core architecture—technological or organizational—risk losing the ability to scale even adaptive solutions. Fragmentation thus creates a paradox: firms must localize to compete, but **over-localization undermines scalability and control**.

6.2 Technology Stack Fragmentation and Lock-In Risks

While modular technology stacks enable adaptation, they also introduce **lock-in and compatibility risks**. Firms that build highly customized or proprietary systems may find it difficult to integrate with partners, regulators, or customers operating under different standards.

The International Monetary Fund notes that divergence in digital standards and data governance increases integration costs and reduces cross-border interoperability, particularly for smaller firms and late entrants.⁴⁴ Over time, technology fragmentation can limit ecosystem participation and reduce strategic optionality.

For technology providers, this creates a strategic trade-off: proprietary control can enhance resilience in the short term but may constrain **ecosystem-based growth** in the long term. Firms that underestimate this risk may achieve short-term stability at the expense of future relevance.

6.3 Infrastructure Intensity and Capital Exposure

Infrastructure-led strategies—such as regional data centers, localized manufacturing plants, or logistics hubs—enable firms to operate under fragmented conditions, but they also increase **capital intensity and fixed-cost exposure**.

World Bank research on infrastructure investment emphasizes that while localized infrastructure improves reliability and compliance, it also raises break-even thresholds and

⁴³ OECD, “Global Value Chains and the Cost of Fragmentation,” 2024
<https://www.oecd.org/industry/global-value-chains/>

⁴⁴ International Monetary Fund, “Digital Fragmentation and the Global Economy,” 2024
<https://www.imf.org/en/Publications/WP/Issues/2024/03/28/Digital-Fragmentation-and-the-Global-Economy-547091>

reduces flexibility during demand downturns.⁴⁵ In fragmented environments characterized by volatility, heavy infrastructure commitments can amplify downside risk.

This risk is particularly acute for firms expanding into smaller or politically complex markets, where utilization rates may fluctuate sharply. Strategic miscalculation occurs when firms assume steady demand growth without adequately accounting for **fragmentation-induced volatility**.

6.4 Misreading Peripheral Markets

Peripheral and emerging markets offer growth opportunities, but they also carry **institutional, financial, and execution risks** that are often underestimated. Fragmentation does not eliminate these risks; it frequently amplifies them.

UNCTAD cautions that investment projects in smaller or frontier markets are increasingly exposed to regulatory shifts, financing constraints, and governance gaps, particularly in infrastructure and industrial sectors.⁴⁶ Firms that interpret reduced competition as a sign of low risk may misjudge local complexity and execution capacity.

Strategic failure in such markets often stems from **overconfidence in transferability**—the assumption that adaptive models proven elsewhere will function similarly in fundamentally different institutional environments.

6.5 Organizational Fatigue and Strategic Drift

Adaptation requires constant adjustment, experimentation, and reconfiguration. Over time, this can lead to **organizational fatigue**, where frequent strategic shifts dilute focus and weaken internal alignment.

Management research indicates that organizations operating under persistent uncertainty face higher risks of decision overload and strategic drift, particularly when short planning cycles replace long-term coherence.⁴⁷ Without clear strategic boundaries, adaptability can devolve into **reactive behavior** rather than deliberate strategy.

For firms operating across fragmented environments, the challenge is to balance responsiveness with strategic discipline—maintaining a stable core while adapting selectively at the periphery.

⁴⁵ World Bank, “Infrastructure Investment and Economic Resilience,” 2023
<https://www.worldbank.org/en/topic/infrastructure/publication/infrastructure-investment-and-economic-resilience>

⁴⁶ UNCTAD, *World Investment Report 2024*, 2024
<https://unctad.org/publication/world-investment-report-2024>

⁴⁷ World Bank, “Infrastructure Investment and Economic Resilience,” 2023
<https://www.worldbank.org/en/topic/infrastructure/publication/infrastructure-investment-and-economic-resilience>

6.6 The Illusion of Fragmentation as a Permanent Advantage

Finally, a critical miscalculation lies in treating fragmentation itself as a **durable competitive advantage**. While fragmentation may temporarily disadvantage less adaptable competitors, it also incentivizes imitation, institutional learning, and eventual partial reintegration.

WTO analysis suggests that even under persistent geopolitical tension, economic actors seek mechanisms to restore predictability and reduce transaction costs, leading to new forms of coordination and standard-setting over time.⁴⁸ Firms that anchor their entire strategy to fragmentation risk being **structurally misaligned** when partial convergence re-emerges.

Synthesis

Fragmentation reshapes competitive dynamics but does not suspend economic fundamentals. Over-localization, technology lock-in, capital-intensive infrastructure, misjudged peripheral markets, and organizational fatigue represent key limits to adaptive strategies. Successful firms in 2026 are those that treat fragmentation as a **constraint to be managed**, not as a permanent strategic advantage. The core challenge lies in balancing adaptability with coherence—leveraging fragmentation without becoming trapped by it.

7. Conclusions and Outlook (2026–2030)

By 2026, fragmentation will have become a defining condition of the global business environment rather than an external disruption. Across technology, trade, infrastructure, and regulation, companies increasingly operate in a world where interoperability is partial, market access is conditional, and scaling requires continuous adjustment. This article has shown that China's technology-oriented firms do not merely endure these constraints; they actively reorganize strategies, technologies, and business models to function within them.

A central conclusion emerges across all sections: **adaptation, not scale, has become the primary source of competitiveness**. Chinese firms demonstrate that growth in a fragmented world is possible, but only when it is pursued selectively, modularly, and with a clear understanding of operational limits. Technologies such as AI, cloud infrastructure, digital platforms, and industrial systems are valuable not because they enable disruption, but because they support predictability, resilience, and localized execution.

From a business-model perspective, the shift is equally clear. Platform-based, hybrid, partner-centric, and infrastructure-led models allow firms to expand access and relevance without assuming the full risks of uniform global expansion. At the same time, the analysis highlights important limits: over-localization, technology lock-in, capital-intensive infrastructure, and organizational fatigue can undermine even well-designed adaptive strategies. Fragmentation rewards flexibility, but it also punishes incoherence.

Looking ahead to 2026–2030, several implications stand out.

⁴⁸ World Trade Organization, *World Trade Report 2024: Trade in a Fragmented World*, 2024 https://www.wto.org/english/res_e/publications_e/wtr24_e.htm

First, **fragmentation is unlikely to reverse**, but it may evolve. Partial re-coordination, regional standard-setting, and selective reintegration will coexist with continued segmentation. Firms that anchor their strategies solely on permanent fragmentation risk strategic misalignment when limited convergence re-emerges.

Second, **technology will increasingly be judged by economic discipline rather than innovation rhetoric**. Investment decisions will prioritize tools that deliver measurable operational value, short payback periods, and risk reduction. The era of large-scale experimentation without clear business integration is likely to narrow.

Third, **growth opportunities will continue to shift toward niches rather than mass markets**. Peripheral regions, trade corridors, micro-markets, industrial services, and lifecycle-based offerings will remain attractive precisely because they require capabilities that fewer competitors possess. Success in these spaces will depend less on size and more on execution capacity.

Finally, China's tech economy should be understood neither as an exception nor as a universal model. Instead, it represents a **practical case of how firms operate under constraint**. Its relevance lies not in imitation, but in insight. Businesses outside China—whether in emerging markets or advanced economies—can draw lessons from how adaptability is institutionalized, how technology is operationalized, and how growth is recalibrated in response to structural fragmentation.

In the coming years, competitive advantage will belong to firms that treat fragmentation not as a temporary obstacle or a strategic weapon, but as a **permanent design parameter**. The ability to integrate technology, business models, and organizational practices around uncertainty will define how companies adapt, compete, and scale between 2026 and 2030.

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