The Nokia Metamorphosis: From Emotional Architecture to IP Sovereignty

Jobert J. Placiente

MBA / DBA Department, College of Business and Accountancy, Tarlac State University, Philippines

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EXECUTIVE SUMMARY

The decline of Nokia is often simplified as a failure to respond to the smartphone revolution. While this explanation is widely repeated in business literature, it overlooks deeper organizational and behavioral mechanisms that may have shaped the company's strategic trajectory. This study interprets Nokia's decline as being influenced by organizational structure, internal communication patterns, emotional dynamics, and strategic identity rigidity. Rather than treating these as direct causal variables, the analysis uses them as interpretive lenses to understand how strategic decisions were formed during the smartphone transition period.

The study introduces the concept of the "emotional architecture of decline," which explains how organizational fear, uncertainty, hierarchical pressure, and defensive communication may become embedded in managerial systems and influence decision-making processes (Ashkanasy & Dorris, 2017; Barsade & Knight, 2015). In this framing, emotions are treated not as isolated causes but as interacting organizational forces that shape information flow and strategic interpretation. These constructs are used as analytical lenses for interpreting historical evidence rather than as empirically isolated variables.

By 2007, Nokia controlled approximately 38% of the global mobile phone market (Gartner, 2008). However, between 2007 and 2013, the company experienced a dramatic decline, culminating in the sale of its handset division to Microsoft in 2013. Rather than treating this outcome as a simple organizational collapse, this study interprets Nokia's decline as a strategic transition process shaped by changing technological ecosystems and evolving organizational identity (Helfat & Peteraf, 2015).

The study further conceptualizes Nokia's post-smartphone transformation as an "IP-as-a-Proxy Pivot," where intellectual property, telecommunications infrastructure, and network systems collectively replaced consumer devices as primary sources of long-term value creation (Haskel & Westlake, 2018). In its post-divestiture phase, Nokia has increasingly shifted toward infrastructure-based value creation, particularly in 5G and emerging 6G ecosystems.

INTRODUCTION

The history of Nokia is frequently presented as one of the most remarkable corporate success stories in global business history. Founded in 1865 as a pulp and paper enterprise in Finland, Nokia gradually evolved into a multinational technology corporation and became one of the dominant firms in global mobile telecommunications during the late 1990s and early 2000s.

During this period, Nokia devices became synonymous with reliability, accessibility, durability, and long battery life. In both developed and emerging markets, Nokia established itself as the dominant global mobile phone brand. This sustained market leadership created a strong perception of long-term organizational stability and strategic invulnerability.

However, the global mobile industry changed fundamentally after the launch of the Apple iPhone in 2007. Mobile phones were no longer evaluated primarily as communication devices but increasingly functioned as digital computing platforms integrated with software ecosystems, applications, and cloud-based services.

Simultaneously, Google's Android operating system accelerated the transition toward ecosystem-driven competition.

In this new environment, competitive advantage no longer depended solely on hardware engineering quality. Instead, value creation increasingly emerged from developer ecosystems, software integration, user experience, and platform governance (Gawer & Cusumano, 2014). Firms capable of attracting both developers and consumers into their ecosystems gained cumulative long-term strategic advantages.

Although Nokia recognized these industry changes, the company struggled to respond with sufficient speed and organizational coordination. Existing studies often attribute Nokia's decline to technological inertia or strategic miscalculation. However, while prior research (e.g., Vuori and Huy, 2016; Helfat and Peteraf, 2015) has examined cognitive and behavioral mechanisms in organizational decline, fewer studies integrate emotional dynamics, communication filtering, and identity continuity within a unified interpretive framework.

This study addresses this gap by examining Nokia's decline through organizational behavior, emotional architecture, and strategic identity transformation, focusing on how organizational systems interpreted and acted upon strategic information under uncertainty. Rather than arguing that Nokia lacked technical capability or market awareness, the study focuses on how organizational systems interpreted, filtered, and acted upon strategic information under conditions of uncertainty.

According to Weick, Sutcliffe, and Obstfeld (2005), organizations frequently fail not because environmental signals are absent, but because those signals are interpreted too slowly, cautiously, or defensively. Between 2007 and 2013, evidence from prior studies suggests that Nokia's internal structure became increasingly centralized, while communication channels became more filtered and hierarchical. These conditions likely contributed to a growing divergence between external market developments and internal leadership interpretation, particularly in how technological disruption was understood and acted upon within organizational hierarchies. Consequently, this study shifts analytical attention from external competition alone toward the internal dynamics of organizational communication, identity continuity, emotional architecture, and strategic sensemaking.

RESEARCH QUESTIONS

This study seeks to answer the following questions:

1. How did internal emotional dynamics contribute to Nokia's strategic decline during the smartphone transition period?

2. How did organizational structures and communication systems shape Nokia's strategic responses to technological disruption?

3. How did identity continuity influence Nokia's transformation from a handset manufacturer into an infrastructure and intellectual property-focused enterprise?

4. How can the Nokia case contribute to broader theories of organizational adaptation, strategic decline, and institutional transformation?

METHODOLOGY

Research Design

This study employs a qualitative historical-longitudinal case study methodology to examine Nokia's strategic decline and subsequent transformation between 2000 and 2026. A case study approach is appropriate because it allows an in-depth examination of organizational behavior, leadership dynamics, strategic decision-making, and institutional transformation within a real-world context (Yin, 2018).

The study adopts an interpretive analytical orientation, focusing on how organizational actors interpreted technological disruption, communicated strategic concerns, and responded to structural uncertainty during periods of rapid industry change.

Data Sources

The study utilizes multiple archival and secondary data sources to ensure analytical triangulation and historical consistency. These sources include:

- Nokia Annual Reports (2000–2025)
- Gartner and IDC mobile market reports
- Scholarly journal articles related to Nokia, organizational decline, and strategic management
- Executive interviews and public statements from former Nokia leaders including Stephen Elop and Jorma Ollila
- Harvard Business Review analyses
- Reuters and Bloomberg business reports
- Telecommunications policy documents from the European Commission
- Prior organizational studies examining Nokia's internal communication systems

The study also incorporates market share statistics, infrastructure investment trends, patent portfolio information, and historical financial performance indicators.

Analytical Framework

The analysis integrates concepts from organizational behavior, strategic management, and institutional adaptation theory. Specifically, the study draws upon:

- Sensemaking Theory (Weick, 1995)
- Organizational Silence and Psychological Safety (Morrison, 2014; Edmondson & Lei, 2014)
- Strategic Inertia and Dynamic Capabilities (Helfat & Peteraf, 2015)
- Ecosystem and Platform Competition Theory (Jacobides et al., 2018)
- Intangible Economy Theory (Haskel & Westlake, 2018)

This multidisciplinary framework allows the study to interpret Nokia's decline not merely as technological disruption but as an interaction between emotional systems, organizational structures, and strategic identity. Data were analyzed using thematic narrative synthesis. First, archival materials were systematically reviewed and organized chronologically (2000–2026). Second, open coding identified recurring themes related to organizational structure, emotional dynamics, communication patterns, and strategic decision-making. These codes were then grouped into higher-order analytical categories aligned with the study's theoretical framework.

Triangulation was achieved by cross-validating patterns across annual reports, executive statements, and independent industry datasets, thereby strengthening interpretive reliability.

Due to the interpretive nature of this study, coding consistency was ensured through iterative reading, memoing, and repeated cross-checking of emerging themes. Post-2023 data were included strictly for interpretive extension of Nokia's strategic trajectory rather than predictive forecasting.

Operational Definitions of Core Concepts

Phantom Alignment

- Phantom alignment refers to a proposed conceptual condition in which organizational leaders may perceive strategic alignment, while underlying misalignment, uncertainty, or operational issues remain hidden within lower organizational levels. This condition may emerge when employees avoid communicating negative information due to fear of conflict or consequences. Morrison (2014) explains that organizational silence can restrict upward information flow, while Edmondson and Lei (2014) emphasize that low psychological safety reduces open communication. In Nokia's case, Vuori and Huy (2016) suggest that middle managers often softened negative market signals, contributing to an appearance of coherence despite internal fragmentation.

Emotional Architecture

- Emotional architecture refers to a conceptual lens describing the collective emotional conditions within an organization, such as fear, uncertainty, and psychological pressure, that may influence communication patterns and decision-making processes. Prior research shows that emotions in organizations can shape information flow and strategic responsiveness (Ashkanasy & Dorris, 2017; Barsade & Knight, 2015). Edmondson and Lei (2014) further suggest that low psychological safety reduces openness in communication. In Nokia's context, Vuori and Huy (2016) indicate that emotional pressures may have contributed to delayed or filtered reporting of operational issues.

Identity Continuity

- Identity continuity refers to the ability of an organization to preserve its core identity and institutional purpose even while undergoing major strategic or structural changes. According to Albert and Whetten (1985), organizational identity reflects the central and enduring characteristics of a company. Whetten (2006) further argued that organizations often attempt to maintain legitimacy and continuity during periods of transformation. In Nokia's case, although the company exited the smartphone business, it maintained its broader identity as a telecommunications and innovation-oriented firm by shifting toward network infrastructure, research, and intellectual property systems.

ANALYSIS

1. Market Risk

Nokia's market decline can be interpreted as a failure to adapt to ecosystem-based competition. During the early mobile era, firms primarily competed through hardware quality, manufacturing efficiency, battery performance, and pricing strategies. However, after 2007, the industry transitioned toward platform-centered competition where software ecosystems and network effects became more strategically important than hardware alone.

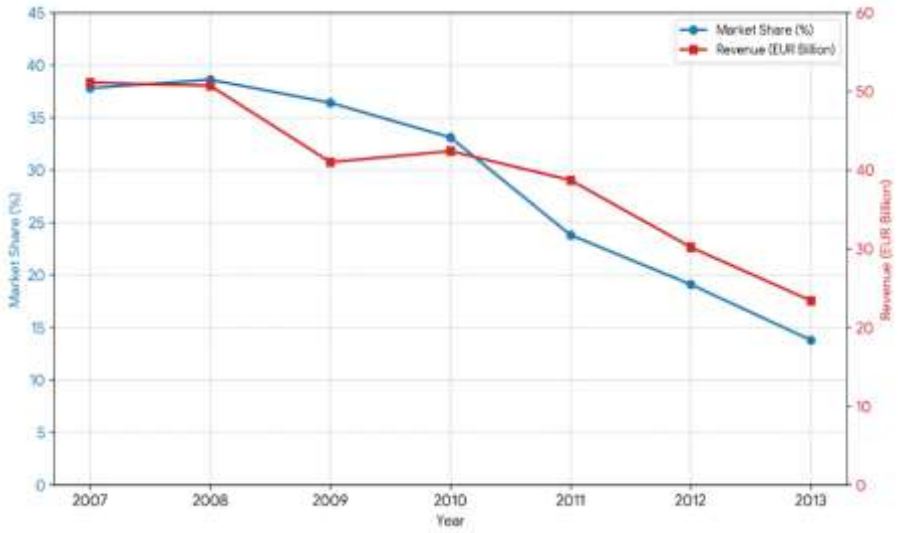
Apple and Google successfully developed ecosystems that integrated consumers, developers, and digital services into expanding technological networks (Parker et al., 2016). Nokia's Symbian operating system, however, became increasingly fragmented and difficult for developers to support efficiently.

By 2010, Android's global market share had surpassed Symbian, and Nokia's competitive position weakened rapidly (IDC, 2011). As developers abandoned Symbian, the platform lost consumer attractiveness, which further discouraged future developer participation. This self-reinforcing decline demonstrates the importance of ecosystem scalability in platform competition.

This situation strongly reflects Christensen's (1997) concept of the Innovator's Dilemma, where dominant firms remain heavily committed to existing strengths while underestimating emerging competitive models.

Figure 1 demonstrates a synchronized decline in both Nokia's global market share and revenue between 2007 and 2013. The pattern highlights a structural collapse rather than isolated performance fluctuations, reinforcing the argument that the decline was ecosystem-driven rather than product-specific.

Figure 1: Nokia Market Share and Revenue Decline (2007–2013)



The pattern reinforces the argument that Nokia's decline was structurally embedded within ecosystem dynamics, consistent with platform theory (Parker et al., 2016).

To better illustrate the scale and speed of Nokia's market decline during the smartphone transition period, the following table presents a summary of its global market share and financial performance from 2007 to 2013.

Table 1: Nokia Market Share and Financial Decline (2007–2013)

Year	Global Smartphone/Phone Market Share	Revenue (EUR Billion)	Key Event
2007	~38% (peak dominance)	51.1	Pre-iPhone dominance peak
2008	~32%	50.7	Android emerging
2009	~35%	40.9	Early smartphone disruption
2010	~34%	42.4	iOS/Android acceleration
2011	~22%	38.7	Stephen Elop "burning platform" memo
2012	~14%	30.2	Rapid Symbian collapse
2013	<5% (smartphone segment)	12.7	Microsoft handset sale

Note. Data for market share adapted from Mobile Device Market Share Reports (2007–2013), by Gartner. Revenue data compiled from Annual Reports (2007–2013), by Nokia Corporation. Additional market analysis provided by International Data Corporation

Table 1 shows the gradual but accelerating decline of Nokia's market position and financial performance between 2007 and 2013. In 2007, Nokia was at its peak with approximately 38% global market share, reflecting

its dominant position in the mobile phone industry. However, as smartphone ecosystems led by Apple and Android expanded, Nokia's market share steadily declined year by year. This decline is also reflected in its revenue trend, which dropped significantly from over €50 billion in 2007 to around €12 billion by 2013. The table highlights that Nokia's decline was not sudden but progressive, reinforcing the argument that the company experienced a structural rather than an abrupt failure.

2. Organizational Risk

One of the most critical internal factors contributing to Nokia's decline was the deterioration of internal communication quality. Vuori and Huy (2016) demonstrated that fear significantly influenced Nokia's organizational behavior during the smartphone transition period.

Senior executives feared losing global market leadership, while middle managers feared career consequences associated with reporting operational problems or challenging leadership assumptions. Consequently, information became increasingly filtered as it moved upward through organizational hierarchies.

Negative operational realities were often softened, delayed, or reframed using optimistic language. Over time, leadership decisions became increasingly disconnected from operational realities.

As psychological safety weakened (Edmondson & Lei, 2014), employees became less willing to challenge assumptions or communicate strategic concerns openly. This study conceptualizes this condition as phantom alignment, where organizations appear strategically unified despite growing internal dysfunction. Phantom alignment is therefore understood as a condition in which perceived strategic consensus at the leadership level masks underlying misalignment across operational layers of the organization.

From a systems perspective, this represented a breakdown in organizational feedback loops (Ashby, 1956). Without accurate feedback, organizational self-correction became increasingly difficult.

Importantly, Nokia's communication failure was gradual rather than sudden. It emerged over years of accumulated pressure, hierarchical rigidity, and organizational fear.

In his 2011 internal memo, CEO Stephen Elop stated that "we are standing on a burning platform," describing Nokia's urgent need for radical transformation. The memo, later published by Nokia and widely archived in business media, marked a turning point in organizational awareness of strategic decline (Nokia Corporation, 2011; BBC News, 2011).

Similarly, former Chairman Jorma Ollila reflected on Nokia's strategic transition, emphasizing that the company's challenge was not lack of capability but the difficulty of adapting to platform-based competition. He noted that Nokia "underestimated the speed of ecosystem change" (Ollila, 2015, para. 4)

These executive accounts support the argument that Nokia's decline was not a sudden failure, but a prolonged misalignment between strategic awareness and organizational execution capacity.

3. Competition Risk

Competition within the telecommunications industry gradually evolved beyond commercial rivalry and became increasingly connected to geopolitics and national security.

By the 5G era, telecommunications infrastructure had become strategically important for governments worldwide. Infrastructure providers were evaluated not only based on technical capability but also on political trustworthiness and institutional alignment (Seaman, 2020).

Concerns surrounding Chinese vendors such as Huawei and ZTE led several Western governments to reconsider supplier relationships in critical digital infrastructure systems. Within this geopolitical environment, Nokia gained strategic relevance as a European-based infrastructure provider perceived as politically stable and institutionally trustworthy (European Commission, 2020).

Consequently, modern telecommunications competition increasingly involves geopolitical legitimacy, cybersecurity concerns, and state-level institutional trust rather than purely commercial competition.

4. Financial Risk and the IP-as-a-Proxy Pivot

The sale of Nokia's handset division to Microsoft in 2013 is frequently interpreted as a symbol of corporate failure. However, this study argues that the sale also represented a strategic restructuring process.

Following the divestiture, Nokia increasingly focused on intellectual property licensing, telecommunications infrastructure, and network systems. According to Nokia's 2024 Annual Report, the company held more than 26,000 patent families globally.

Unlike consumer hardware markets characterized by rapid technological obsolescence, patent licensing and infrastructure systems generate more stable and predictable revenue streams.

This transition reflects the broader rise of the "intangible economy," where competitive value increasingly emerges from knowledge systems, data, intellectual property, and technological infrastructure rather than physical products alone (Haskel & Westlake, 2018).

The study conceptualizes this transformation as the "IP-as-a-Proxy Pivot," where intellectual property functions as a substitute mechanism for long-term strategic competitiveness after product-market decline.

ALTERNATIVES AND DECISION CRITERIA

By the late 2000s, Nokia was no longer facing a simple product decision. Instead, it was standing at a **deep identity crossroads**,a situation where the company had to decide not only what to produce, but what kind of firm it wanted to become. Internally, executives understood that the mobile phone industry was shifting toward software ecosystems, yet there was no shared agreement on how Nokia should respond. This lack of alignment reflects what Jacobides, Cennamo, and Gawer (2018) describe as **ecosystem uncertainty**, where firms struggle to identify their position in changing value networks.

Three strategic alternatives emerged within leadership discussions. Each one represented not just a business option, but a different version of Nokia's future identity.

Alternative 1: The Android Alliance

The first option was to adopt Android as Nokia's operating system. This would have immediately connected Nokia to the growing Google-led ecosystem and solved its software weakness.

However, this option created strong internal resistance. Many leaders believed that adopting Android would turn Nokia into a **hardware supplier inside another company's system**, reducing its ability to control its own future. In strategic terms, this reflects concerns about **loss of architectural control** (Jacobides et al., 2018). While financially logical, the option was emotionally and strategically difficult because it meant giving up independence.

Alternative 2: Premium Reinvention Strategy

The second option was to reposition Nokia as a premium or luxury mobile brand. This strategy aimed to compete on design, exclusivity, and high-end customer experience.

However, this approach conflicted with Nokia's reality. Its global operations, cost structure, and large-scale production systems were not built for niche luxury markets. Pfeffer and Salancik's (1978) resource dependence theory helps explain this limitation: firms cannot easily escape the constraints of their existing resources and structure. In structural terms, Nokia was too large and too globally integrated to become a boutique brand.

Alternative 3: Infrastructure Sovereignty (Selected Path)

The third option was less visible at first but gradually became the most practical: moving away from consumer phones and focusing on telecommunications infrastructure, patents, and network systems.

This path aligned with Nokia's strongest hidden assets, its research capabilities, Bell Labs expertise, and large intellectual property portfolio. Over time, this option became the only strategy that made both economic and structural sense. It allowed Nokia to move from a **consumer-facing firm to a backbone infrastructure provider**, reducing direct exposure to fast-changing consumer markets.

Decision Criteria in Practice

Although Nokia did not formally apply a single decision model, four key criteria shaped the final outcome:

- **Control vs. Dependency:** Whether Nokia could still shape its own ecosystem (Teece, 2014)
- **Scale vs. Profitability:** Whether to prioritize mass markets or stable margins (Porter, 1985)
- **Identity Continuity:** Whether Nokia could remain "Nokia" without phones (Whetten, 2006)
- **Geopolitical Positioning:** Whether the firm would remain strategically relevant in global infrastructure systems (Farrell & Newman, 2019)

Over time, only the infrastructure path satisfied all four conditions at once.

CONCLUSION

Nokia's decline is often told as a simple story of technological failure. However, this case shows a more complex reality: Nokia did not fail because it lacked technical capability or market awareness, but because it struggled to turn awareness into coordinated action.

At the core of this breakdown was a failure of **sensemaking**, where organizations struggle to interpret and act on complex information under uncertainty (Weick, 1995; Weick et al., 2005). Even though Nokia had access to market signals about Apple and Android, those signals were filtered through internal layers of hierarchy, fear, and outdated assumptions.

This study also shows that Nokia's internal environment made it difficult for employees to speak openly. As Morrison (2014) explains, organizations often experience "silence," where employees avoid sharing bad news to protect themselves. In Nokia's case, this created a situation where leaders received incomplete or overly optimistic information.

As a result, Nokia's decision-making became disconnected from reality. Strategies were executed based on partial information, while operational teams faced growing technical and market problems. This gap between leadership perception and operational reality weakened the firm's ability to respond effectively.

However, the case does not end with failure. Nokia's later transformation shows that decline can also create space for reinvention. After exiting the smartphone market, the company restructured itself around infrastructure, telecommunications systems, and intellectual property. This shift supports Helfat and Peteraf's (2015) view that firms can recover when they are able to reconfigure their resources in new ways.

In conclusion, Nokia's story is not only about missing a technological shift. It is about how internal communication, identity, and decision-making structures can determine whether a company adapts, or slowly disconnects from reality.

SUGGESTIVE ACTION PLAN BY THE PROPONENT

This section presents a suggestive action plan by the proponent, offering an interpretive scenario of Nokia's potential strategic trajectory based on current developments in digital infrastructure, 6G evolution, and geopolitical competition in telecommunications. The discussion is not intended as a prescriptive corporate roadmap, but as an analytical extension of the study's findings on strategic identity transformation and infrastructure repositioning.

The proposed trajectory is organized into three phases.

Phase 1: Stabilization (2026–2027)

The first phase focuses on organizational stabilization and internal simplification. At this stage, Nokia may benefit from streamlining its organizational structure and reducing unnecessary layers of decision-making complexity. This is particularly relevant for large infrastructure firms where communication delays can affect strategic responsiveness.

The firm may also continue strengthening its financial stability through patent licensing arrangements and long-term contractual agreements. Rather than pursuing aggressive expansion, this phase emphasizes operational discipline, organizational clarity, and the consolidation of existing capabilities.

Phase 2: Expansion into Critical Infrastructure (2027–2028)

The second phase reflects a potential deepening of Nokia's role within global digital infrastructure systems. This includes continued investment in 6G research, artificial intelligence-enabled network optimization, and enhanced collaboration with state actors, telecommunications operators, and enterprise partners.

In this interpretive scenario, Nokia may increasingly function not merely as a technology vendor, but as a strategic infrastructure partner embedded within national digital ecosystems. In such a position, reliability, cybersecurity assurance, and institutional trust become more critical than product cycle speed or consumer-facing innovation.

Phase 3: Structural Embedding and Systemic Lock-in (2028–2030)

The final phase represents long-term structural embedding. Nokia may progressively deepen its integration into national and industrial digital infrastructures, increasing switching costs for large-scale clients and institutional partners.

This trajectory is consistent with the concept of network lock-in effect, where early structural positioning can lead to long-term competitive advantage (Arthur, 1989; Shapiro & Varian, 1999). In this context, value creation shifts further away from physical product sales toward systemic indispensability within critical digital operations.

Rather than competing for market visibility, the firm's strategic relevance may increasingly depend on its embeddedness within essential technological systems that support government, industry, and global communications infrastructure.

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