# Divergent Paths to Modern Governance: A Meta-Analysis of Saudi Arabia's Transformation Journey

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ABSTRACT: The Kingdom of Saudi Arabia's transformation under Vision 2030 represents one of the most ambitious national modernization projects of the twenty-first century, characterized by rapid institutional restructuring, accelerated economic diversification, and a digital-first governance model. This study conducts a meta-analysis of The Kingdom's transformation using the Tessema Pillars of Organizational Transformation and Agility (TPOTA) and the Tessema Multiple Intelligence Framework (TMIF), demonstrating how leadership alignment, cultural adaptation, organizational learning, and multidimensional intelligence collectively shaped national reform. The analysis highlights that Saudi Arabia's approach differs markedly from the UAE's more gradual, federated transformation model, offering a unique opportunity to compare two effective yet divergent modernization pathways. The findings reveal that Saudi Arabia integrated structural reforms with human capability development and the expansion of its digital ecosystem, establishing a coherent institutional architecture grounded in Vision Realization Programs, centralized coordination mechanisms, and data-driven governance. Through TPOTA, the study evaluates how leadership, culture, learning systems, knowledge management, and intelligence development supported transformation. At the same time, TMIF illuminates the roles of intellectual, emotional, spiritual, cultural, and social intelligences in shaping adaptive governance. The intersection of the agile mindset and sustainability further demonstrates how national systems can balance rapid change with long-term institutional resilience. Comparative

insights from the UAE show that while both countries achieved significant progress in economic diversification, digital governance, and social modernization, their strategies reflect distinct governance philosophies: Saudi Arabia's centralized, fast-paced reforms versus the UAE's incremental, innovation-driven evolution. Together, these cases expand theoretical understanding of national transformation and demonstrate how the Tessema frameworks can be applied to evaluate systemic change. This meta-analysis contributes to the literature on public-sector transformation by providing a comprehensive model for analyzing how governance structures, human capabilities, and cultural dynamics interact to produce sustainable national development.

KEYWORDS: government transformation, organizational transformation, digital government, Saudi Arabia vision 2030, Tessema pillars, multiple intelligence framework, digital governance and institutional modernization, agile and sustainable governance

## Introduction

In April 2016, Saudi Arabia launched Vision 2030, one of the most ambitious national transformation initiatives of the twenty-first century. Under the leadership of Crown Prince Mohammed bin Salman, the Kingdom embarked on a comprehensive reform program to fundamentally reshape its economy, society, and governance. Building on decades of administrative evolution, Vision 2030 represented a decisive shift from incremental modernization toward rapid, systemic transformation implemented at unprecedented speed and scale. The establishment of the Council of Economic and Development Affairs (CEDA) provided the governance backbone for aligning ministries, monitoring priorities, and coordinating implementation across government institutions (Saudipedia, 2022). Saudi Arabia's approach offers a compelling counterpoint to the evolutionary, gradualist model pursued by the United Arab Emirates. Whereas the UAE advanced reforms progressively over three decades, the Kingdom opted for accelerated restructuring, driven by centralized leadership, institutional redesign, digital modernization, and strategic mega-projects. Vision Realization Programs (VRPs), including the National Transformation Program, the Human Capability Development Program, and the Quality of Life Program, structured national reform into coordinated portfolios that address economic diversification, governance modernization, and human capital development (Government of Saudi Arabia, 2024). This architecture aligns with scholarly findings emphasizing the importance of organizational values, leadership, and cultural alignment for sustainable transformation (Alemu, 2025b; Tessema, 2025c).

A defining feature of the Saudi model is its adoption of digital transformation as a national imperative. The creation of the Saudi Data and AI Authority (SDAIA) positioned AI, data governance, and digital platforms as foundational enablers of institutional performance (Saudi Data & AI Authority, 2023). This reflects global evidence that knowledge management systems and

digital governance significantly enhance innovation, learning capacity, and organizational effectiveness (Alemu, 2025a).

As structural, digital, and economic reforms accelerated, social modernization unfolded in parallel. Legal reforms expanded women's empowerment, reshaped labor-market participation, and strengthened youth engagement, signaling recognition that economic transformation requires cultural and social readiness. Mega-projects such as NEOM, Qiddiya, and the Red Sea Project, spearheaded by the Public Investment Fund (PIF), symbolized a new development philosophy that seeks not only to diversify the economy but to create new sectors, innovation hubs, and global competitiveness platforms (Public Investment Fund, 2023).

This meta-analysis applies the Tessema Pillars of Organizational Transformation and Agility (TPOTA) and the Tessema Multiple Intelligence Framework (TMIF) to examine how leadership, institutional architecture, cultural dynamics, digital systems, and multidimensional intelligence interact to shape national transformation (Tessema, 2025a; Tessema, 2025c). It explores the central questions confronting modern states: How do nations overcome structural path dependencies? What governance architectures enable coordinated reform? How do digital systems catalyze modernization? Moreover, how do intellectual, emotional, spiritual, social, and cultural intelligence influence transformation outcomes? The study concludes with comparative insights on the UAE model and its implications for global transformation governance.

## Problem Statement

Despite remarkable progress, Saudi Arabia's transformation highlights a broader global challenge: most governments continue to center their transformation on digital modernization while overlooking the organizational, cultural, structural, leadership, and knowledge-based foundations required for sustained change. Research shows that many digital initiatives fail when institutions lack the leadership alignment, learning systems, and cultural readiness necessary to support them (Alemu, 2025a; Tessema, 2025). The argument aligns with Kotter's (1995) finding that 70% of transformation initiatives fall short of expectations, partly because they do not address fundamental organizational dynamics.

Around the world, public sectors still struggle with fragmented structures, rigid legacy systems, and siloed decision-making practices that impede agility, innovation, and strategic coherence (Peters, 2018). Even in technologically advanced states, the pace of digital disruption now exceeds institutional capacity to adapt, raising concerns regarding sustainability, workforce readiness, and systemic resilience. Rising citizen expectations intensify this challenge as competitiveness increasingly depends on integrated service delivery, digital maturity, and advanced data capabilities. Saudi Arabia recognized that digital transformation alone is insufficient without addressing organizational learning, culture, leadership, and

values, core elements emphasized in both the Tessema Pillars and contemporary scholarship on sustainable transformation (Alemu, 2025b; Tessema, 2025). Through entities such as SDAIA and the Digital Government Authority (DGA), the Kingdom institutionalized digital governance and introduced leadership development, national training programs, and new performance measurement systems that reflect a more holistic approach (Saudi Data & AI Authority, 2023.

These dynamics reveal a central problem facing modern governments: How can nations build the structural coherence, cultural alignment, learning capacity, and multidimensional Intelligence required to operate as adaptive, future-ready institutions? Without an integrated institutional architecture, such as CEDA's coordination model and ADAA's performance management systems, transformation risks fragmentation, inconsistency, and diminished long-term impact. Saudi Arabia is successfully addressing these challenges, yet it will require ongoing capability development, leadership training, agile coaching, and professional development to sustain progress ensure transformation remains resilient over time.

## Significance of the Study

This study is significant because Saudi Arabia provides one of the few contemporary examples of rapid, systemic national transformation undertaken with coherent institutional architecture, strong political will, and a digitally enabled reform ecosystem. The Kingdom demonstrates how governments can integrate governance redesign, digital infrastructure, leadership development, and economic diversification into a unified national strategy (Government of Saudi Arabia, 2024; Saudi Data & AI Authority, 2023). These mechanisms resonate with research showing that values-driven leadership, effective knowledge systems, and cultural alignment accelerate sustainable organizational outcomes (Alemu, 2025a, 2025b; Tessema, 2025b).

Saudi Arabia's transformation also highlights the interdependence of social and economic reform. Initiatives such as the Human Capability Development Program illustrate how skills development, workforce modernization, and talent pipelines serve as strategic prerequisites for competitiveness and innovation (Vision 2030, 2021). Mega-projects such as NEOM and Qiddiya integrate technology, sustainability, culture, and economic diversification, representing how flagship initiatives can reshape national identity and strengthen global positioning (Public Investment Fund, 2023).

Furthermore, the study contributes to transformation theory by demonstrating that effective modernization does not rely on a single universal model. Saudi Arabia's rapid, state-led transformation contrasts with the UAE's gradual, federated approach, yet both achieved strong outcomes through alignment of leadership, institutional coordination, cultural adaptation, and knowledge systems. Integrating the Tessema Pillars and TMIF provides deeper

insight into why transformation succeeds: it requires leadership intelligence, cultural competence, organizational learning, and a strong foundation of values-driven governance (Tessema, 2025c; Tessema, 2019). This study also enhances global scholarship and provides practical guidance for governments seeking to design holistic transformation strategies that balance digital modernization with organizational readiness, human capability, and long-term institutional agility.

## Historical Foundations: The Historical Roots of the Arabian Peninsula

The Arabian Peninsula has served as a strategic crossroads for trade, culture, and Spirituality for millennia. Archaeological evidence reveals civilizations dating back more than 10,000 years, with early settlements in Al-Ula, Tayma, Najran, and the Eastern Province. These ancient societies were profoundly shaped by the Peninsula's defining environmental conditions: sparse rainfall, vast deserts, limited arable land, and critical trade routes connecting ancient Yemen, Abyssinia, Mesopotamia, Persia, and Africa.

This challenging landscape produced social systems built around resilience, adaptation, and interdependence. Tribal structures emerged as the dominant form of political organization, bound by lineage, kinship, and customary law ('urf). These tribes formed the bedrock of Arabian society before the emergence of modern states, creating governance patterns that would influence institutional development for centuries.

Mecca developed into one of the most significant trading and pilgrimage hubs in the ancient world due to its central location on the incense and spice routes and its guardianship of the Kaaba. Medina (Yathrib) became the birthplace of Islamic governance in 622 CE following the Prophet Muhammad's migration (Hijra), establishing the first Islamic city-state based on principles of justice, consultation (shura), and social welfare. Islam formed not only a religious framework but also a political, administrative, and legal foundation for governance in the Arabian Peninsula. These early Islamic governance principles, emphasizing consultation, accountability, and social responsibility, later influenced the formation of the Saudi state and continue to shape its institutional values.

### *Formation of the Saudi State: A Three-Century Journey*

The political unification of central Arabia began in 1744 with an alliance between Imam Muhammad ibn Saud, ruler of Diriyah, and Sheikh Muhammad ibn Abd al-Wahhab, a religious reformer advocating a return to the foundational principles of Islam. This alliance created the First Saudi State (1744–1818), which expanded across Najd, parts of the Hijaz, and eastern Arabia before being dismantled by the Ottoman Empire in 1818. The Saudi family reestablished rule in Riyadh under Turki bin Abdullah during the Second Saudi State (1824–1891), but tribal conflict and external pressures led to internal fragmentation. The Al Saud eventually lost control of Riyadh in 1891, forcing the family into temporary exile.

The modern Kingdom began when Abdulaziz ibn Abdul Rahman Al Saud (Ibn Saud) retook Riyadh in 1902. Over the next three decades, he unified Najd, Hijaz, the Eastern Province, and southern regions through a combination of military campaigns, tribal diplomacy, and strategic alliances. In 1932, Ibn Saud declared the establishment of the Kingdom of Saudi Arabia, consolidating disparate regions into a unified state. During this foundational phase, Saudi Arabia's leadership focused on stabilizing tribal relations, establishing basic governance institutions, creating early security structures, and managing Hajj pilgrimage routes and trade. Economically, however, the Kingdom remained underdeveloped until the discovery of oil transformed its trajectory.

### The Oil Era and Rise of the Rentier State (1938–1980s)

The discovery of oil in Dammam Well No. 7 in 1938 fundamentally altered the course of Saudi history. Between the 1950s and 1970s, oil revenue expanded rapidly, enabling modern infrastructure development, creation of ministries and public institutions, free education and healthcare, subsidized services, massive public employment, and the emergence of Riyadh, Jeddah, and Dammam as modern urban centers. Saudi Arabia became one of the world's largest oil exporters and a founding member of OPEC, positioning itself as a critical player in global energy markets. This economic model, standard in oil-rich states, was characterized by heavy reliance on oil exports for government revenue, state-led welfare and employment programs, limited taxation, a private sector dependent on state spending, and considerable inflows of foreign labor.

While this rentier state structure supported stability and rapid modernization, it also limited economic diversification, productivity growth, and private-sector competitiveness (Ross, 2012). The government became the primary economic actor, creating path dependencies that would prove challenging to overcome. Citizens developed expectations of state provision without taxation, while the private sector remained oriented toward government contracts rather than competitive markets.

### Structural Pressures (1980 – 2010) - Late 20th and Early 21st Century

From the 1980s through 2010s, long-term structural pressures revealed the limitations of the oil-reliant model across multiple dimensions.

**Demographic Surge**: Saudi Arabia's population grew dramatically from 6 million in 1970 to over 30 million by 2010, creating challenges with youth unemployment, rising demand for education, pressure on housing and healthcare, and a critical need for job creation beyond government sectors. With 70% of the population under 35 by 2015, the Kingdom faced the imperative of creating millions of new employment opportunities in an economy structured around state employment and oil rents.

**Economic Volatility**: Oil price volatility exposed severe fiscal vulnerabilities. The oil price crashes of 1986, 1998, 2008, and particularly 2014–2016 caused sharp declines in government revenue and revealed the unsustainability of a fiscal system built on oil rents. Each crisis demonstrated the risks of over-reliance on a single commodity, yet structural reform remained incremental and insufficient.

**Institutional Inefficiencies**: Before Vision 2030, government institutions faced bureaucratic fragmentation, slow decision-making, overlapping mandates among agencies, weak performance measurement systems, and limited digital capabilities. These institutional deficiencies created bottlenecks that slowed policy implementation and reduced government effectiveness.

**Global Economic Shifts**: The world economy was transitioning into knowledge sectors, technological innovation, AI-driven industries, renewable energy, and global value-chain competition. Saudi Arabia risked falling behind if it did not modernize its economic base and develop competitive advantages beyond natural resources. The rise of renewable energy technologies also threatened the long-term value of hydrocarbon reserves.

**Gulf Regional Competition**: Neighboring UAE and Qatar were rapidly transforming their economies in tourism, aviation, logistics, finance, and education. Saudi Arabia needed to respond competitively to maintain regional leadership and attract global investment. The success of Dubai and Abu Dhabi in building diversified economies demonstrated viable pathways for Gulf states to reduce oil dependency.

**Early Reform Attempts (2003–2015)**: Saudi Arabia initiated multiple reform initiatives in the early 2000s, including the National Dialogue Series under King Abdullah, judicial modernization, education reform (Tatweer), municipal elections, labor-market nationalization efforts, and the expansion of women's participation in selected sectors. These reforms produced meaningful progress in specific areas but lacked comprehensive coordination, a unified national vision, implementation capacity, and mechanisms for institutional transformation. By 2015, it became clear that incremental reforms were insufficient to address the scale of the challenges ahead. The 2014–2016 oil price collapse served as a critical catalyst, triggering a fiscal crisis and forcing recognition that fundamental structural transformation could no longer be delayed.

**The Context for Transformation (2014-2016)**: The 2014-2016 oil price crisis created both necessity and opportunity for comprehensive reform. The sharp budget deficit, depletion of foreign reserves, and strains on welfare spending demanded immediate action. Combined with demographic pressures and the need for social modernization to enable economic diversification, the Kingdom faced a decisive moment requiring bold, systemic transformation.

### Vision 2030: The Architecture of Transformation: A Paradigm Shift in State Purpose

In 2016, Crown Prince Mohammed bin Salman launched Vision 2030, presenting a cohesive, measurable, institutionally grounded national transformation project with clear economic, social, and governmental objectives. Unlike earlier reform attempts, Vision 2030 represented not merely a reform program but a nation-building transformation, fundamentally reshaping Saudi Arabia's identity, institutions, and long-term trajectory.

Vision 2030 is founded on three core pillars, each targeting a distinct dimension of national renewal.

#### Pillar 1: A Vibrant Society

This pillar recognizes that economic transformation must be supported by a socially dynamic population and improved quality of life. Priorities include cultural heritage preservation, expansion of entertainment and sports, increased public participation, tourism development, and urban lifestyle redesign. Saudi Arabia's cultural liberalization, including concerts, cinemas, and public events, reflects an intentional strategy to strengthen national identity while opening society. The focus on quality of life acknowledges that attracting global talent and retaining domestic human capital requires competitive urban environments, cultural amenities, and social freedoms comparable to international standards. This social transformation is not peripheral to economic goals but essential for their achievement.

#### Pillar 2: A Thriving Economy

Saudi Arabia seeks to transition from a resource-dependent economy to a diversified, private-sector-driven system. Key components include raising SME contribution to GDP to 30% (Sidra Capital, 2024), increasing women's labor force participation from 20% to 35% (Atlantic Council, 2023), developing tourism, logistics, mining, and manufacturing sectors, attracting foreign direct investment, supporting entrepreneurship and innovation, and reforming labor markets to enhance flexibility and competitiveness. This economic pillar aligns with global research showing that diversified economies are more resilient to external shocks and generate sustainable employment growth (Hausmann & Hidalgo, 2013; IMF, 2022). The emphasis on private sector development represents a fundamental shift from the state-centered economic model that characterized the oil era.

#### Pillar 3: An Ambitious Nation

This pillar focuses on government efficiency, transparency, and performance through institutional restructuring, accountability and governance mechanisms, digital transformation, public sector capability building, and anti-corruption reforms. The emphasis on performance indicators reflects global best practices in

public administration and the New Public Management movement (OECD, 2019; Hood, 1995).

## The Governance Engine Behind Vision 2030

Vision 2030's success depends critically on its institutional architecture, which integrates strategic planning, policy coordination, delivery mechanisms, and performance monitoring. Saudi Arabia created a unique governance model built around four institutional pillars.
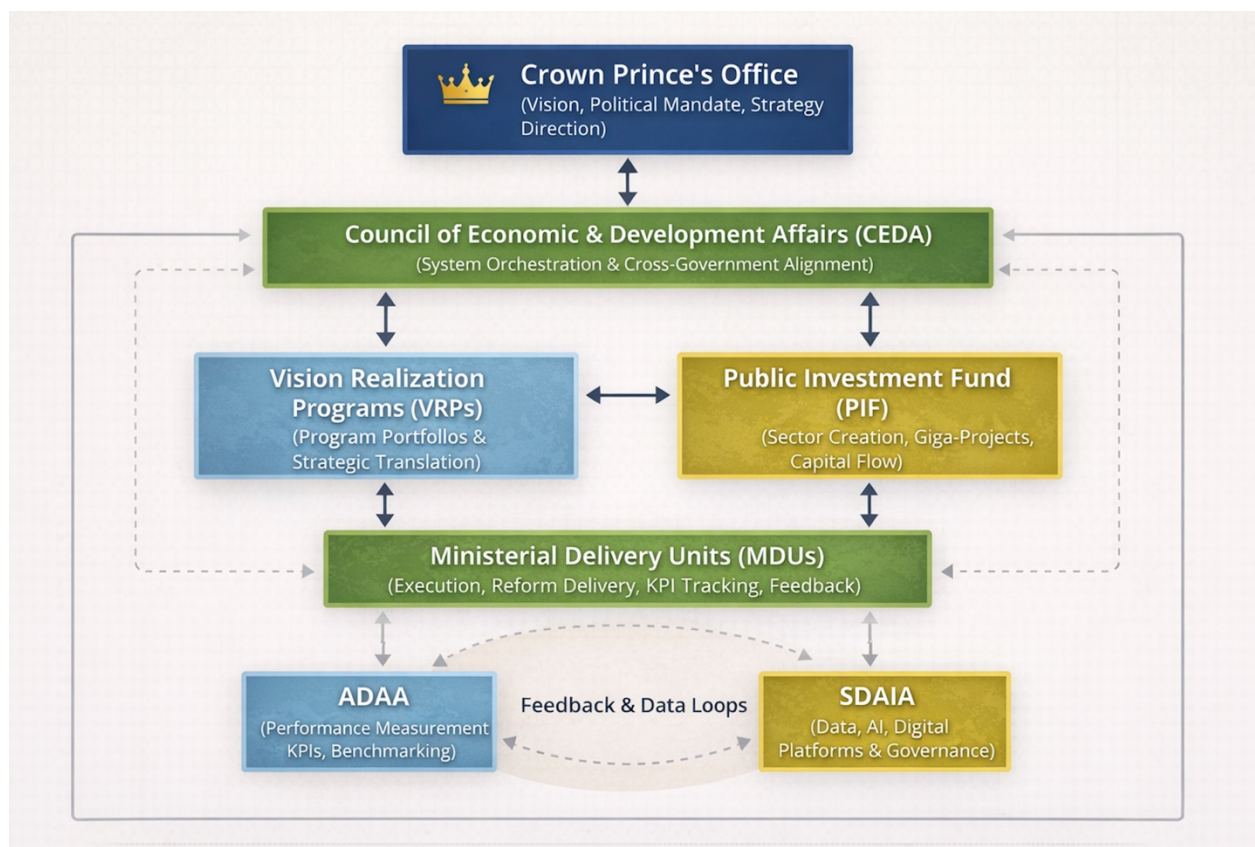


Figure 1. Vision 2030 Governance System: Coordinated, Adaptive, and Feedback-Driven Architecture (Tessema et al, 2025).

Note: This systems map illustrates Saudi Arabia's Vision 2030 governance as an integrated, non-linear transformation system rather than a traditional hierarchical bureaucracy. Strategic direction and political mandate originate at the Crown Prince's Office, while the Council of Economic and Development Affairs (CEDA) functions as the system orchestrator, synchronizing policy, programs, and institutions. Vision Realization Programs (VRPs) translate strategy into coordinated portfolios, while the Public Investment Fund (PIF) operates as a parallel economic engine creating new sectors through giga-projects. Line ministries retain policy stewardship and regulatory authority, with Ministerial Delivery Units (MDUs) embedding execution capacity and reform delivery within institutions. Horizontal enablers ADAA (performance measurement) and SDAIA (data, AI, and digital governance), provide continuous feedback loops that inform decision-making, enable adaptation, and reinforce accountability. The architecture reflects a governance system characterized by centralized strategic intent, distributed execution, and real-time learning, enabling rapid yet sustainable national transformation.

## CEDA: The Council of Economic and Development Affairs

CEDA functions as the "center of government" for transformation, responsible for aligning national strategies, managing inter-ministerial coordination, evaluating progress on key initiatives, removing bureaucratic obstacles, and approving new policy directions. CEDA operates similarly to Singapore's Prime Minister's Office or the UAE's Executive Council, providing high-level, agile coordination that can cut across ministerial silos (Rahman, 2019). This centralized coordination mechanism addresses a critical weakness of previous reform efforts: the inability to achieve coherent action across fragmented bureaucratic structures. CEDA's authority derives directly from crown leadership, enabling it to override institutional resistance and enforce accountability.

## Vision Realization Programs (VRPs)

To operationalize Vision 2030, Saudi Arabia created 13 Vision Realization Programs, each overseeing strategic domains: National Transformation Program (NTP), Fiscal Balance Program, Quality of Life Program, Financial Sector Development Program, Human Capability Development Program, National Industrial Development & Logistics Program (NIDLP), Housing Program, and multiple Tourism and Culture Programs. Each VRP serves as a program management layer between ministries and CEDA, translating strategic objectives into concrete initiatives with defined timelines, budgets, and performance metrics. This structure addresses the significant inefficiency of pre-2016 governance: fragmentation and lack of integration across related policy domains.

## Ministerial Delivery Units (MDUs)

Every ministry was required to establish a Delivery Unit responsible for implementing Vision 2030 initiatives, tracking key performance indicators (KPIs), coordinating with CEDA and ADAA, and ensuring the timely delivery of mandated reforms. This approach mirrors delivery-unit models pioneered in the UK under Tony Blair and subsequently adapted in Singapore and the UAE. Delivery units serve as internal change agents within ministries, bringing project management discipline and performance orientation to traditionally bureaucratic environments. They create direct accountability channels from front-line implementation to central oversight.

## ADAA: The National Performance Measurement Center

ADAA introduced a performance culture into the public sector by setting national KPIs aligned with Vision 2030 objectives, monitoring execution across ministries, benchmarking Saudi Arabia against global standards, publishing progress dashboards for public transparency, and supporting data-driven decision-making.

ADAA represents a fundamental shift from a compliance-based public sector culture to a performance-based one, consistent with New Public Management principles emphasizing outcomes over processes (Hood, 1995). The public transparency of performance data creates accountability pressure and enables citizens to track progress against stated objectives.

This four-pillar governance architecture consisting of CEDA for strategic coordination, VRPs for programmatic integration, MDUs for ministerial execution, and ADAA for performance measurement, constitutes a sophisticated institutional infrastructure for managing complex transformation. The architecture embodies principles of centralized strategy with distributed execution, creating both coherence and agility.

**Theoretical Foundation: The Tessema Frameworks**

Organizational transformation in the twenty-first century requires a research-driven understanding of how institutions build the capabilities needed to navigate volatility, complexity, and continuous change. Drawing on fifteen years of empirical research, peer-reviewed publications, and practitioner experience across global organizations, Dr. Dereje Tessema developed two complementary models: the *Tessema Pillars of Organizational Transformation and Agility (TPOTA)* and the *Tessema Multiple Intelligence Framework (TMIF)*. These frameworks offer a unified lens for diagnosing readiness, guiding implementation, and sustaining long-term transformation. Unlike traditional approaches that prioritize structural or technological fixes, the Tessema Frameworks position human capability, learning systems, and cultural alignment at the center of sustainable change (Tessema, 2025a, 2025b).

Many transformation initiatives fail because they overlook the human dimensions of change, how people think, feel, collaborate, and adapt under pressure. The TMIF model highlights this gap by integrating personal, emotional, cultural, social, and spiritual Intelligence into the transformation process. This perspective explains why organizations struggle with change even when strategies and technologies are strong: transformation is fundamentally a behavioral and relational process. Validated across government, nonprofit, and corporate settings worldwide, the two frameworks demonstrate the interconnectedness of leadership, culture, learning, knowledge management, intelligence, and an agile mindset as drivers of sustainable change. Their systems-thinking approach underscores that transformation emerges not from isolated reforms but from the coordinated development of multiple capabilities working in synergy (Alemu, 2025a; Tessema, 2025c).

Together, TPOTA and TMIF provide leaders with a comprehensive roadmap for building resilient, adaptive, and future-ready institutions. By integrating the structural and human dimensions, the frameworks respond to the

demands of modern organizational environments, characterized by rapid technological evolution, societal shifts, and heightened expectations for innovation. They offer a scalable methodology that supports long-term, systemic change grounded in organizational capability development and human intelligence.

### The Tessema Framework for Organizational Transformation and Agility

At the core of the Tessema transformation model is the recognition that transformation is not a linear series of reforms, but a multidimensional process shaped by interconnected capabilities. The Tessema Pillars of Organizational Transformation (TPOTA) articulates five pillars: Leadership, Knowledge Management, Organizational Learning, Intelligence, and Culture, which together form the architecture of transformation (Tessema, 2025b). These pillars are activated through an Agile Mindset, providing the adaptive capacity needed in dynamic environments (Denning, 2017; Tessema, 2025a). Organizational Sustainability forms the foundation of the model, ensuring that changes endure beyond initial implementation.
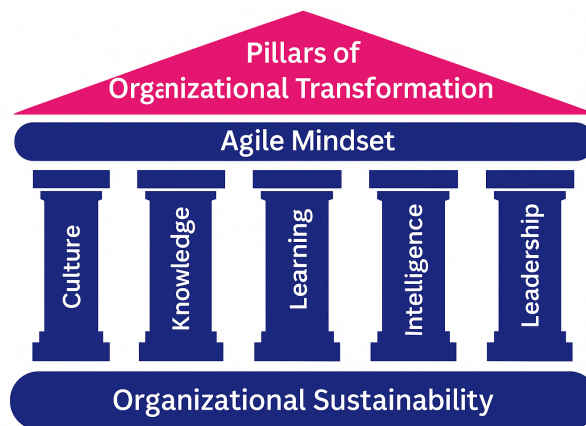
Figure 2. The Tessema Pillars of Organizational Transformation and Agility
*Source: Tessema (2025b).*

**Leadership:** The engine of transformation. Building on transformational leadership theory, the framework emphasizes that leaders must create a compelling vision, mobilize resources, align teams, and maintain momentum during uncertainty (Bass & Riggio, 2006). In TPOTA, leadership extends beyond senior executives to include mid-level champions and distributed leadership coalitions. Leaders must demonstrate foresight, emotional intelligence, and political acumen to influence culture, guide learning, and ensure institutional coherence (Tessema, 2025b).

**Knowledge Management:** The systematic acquisition, organization, and use of knowledge to support decision-making and accelerate change. Drawing from Davenport and Prusak (1998), the framework integrates explicit knowledge (documents, data, and systems) with tacit knowledge derived from employee experience. Tools such as communities of practice, knowledge repositories, and

after-action reviews help organizations avoid repeated mistakes and coordinate across departments. In large-scale reforms, knowledge management strengthens institutional memory and disseminates best practices efficiently (Tessema, 2025b).

**Organizational Learning:** The capability to adapt, innovate, and replace outdated practices. While knowledge management addresses information systems, learning focuses on behavior, reflection, and sense-making (Argyris & Schön, 1996). Learning organizations create psychological safety (Edmondson, 2019), encourage inquiry, and promote double-loop learning that questions underlying assumptions. This pillar determines whether new behaviors become institutionalized or whether old patterns return once external pressure subsides (Tessema, 2025b).

**Intelligence:** The intelligence pillar is directly tied to TMIF and highlights the importance of cognitive, emotional, social, cultural, and spiritual intelligence in navigating complex change (Tessema, 2025c). Cognitive intelligence enables analytical reasoning; emotional intelligence fosters empathy and resilience; social intelligence supports collaboration; cultural intelligence facilitates cross-cultural communication; and spiritual intelligence grounds transformation in purpose and ethical clarity (Ang & Van Dyne, 2008; Earley & Ang, 2003). This multidimensional intelligence portfolio strengthens adaptability and ensures that institutions manage both technical and human challenges effectively.

**Culture:** Culture shapes behavior, expectations, and informal norms. Research shows that transformation fails without cultural alignment (Beck et al., 2001). TPOTA requires leaders to reinforce new behaviors through structures, incentives, communication, and modeling. Cultural transformation ensures that new systems and strategies take root and remain sustainable over time (Tessema, 2025b).

**The Agile Mindset as a Unifying Orientation:** It integrates the five pillars and supports rapid experimentation, responsiveness, and iteration (Denning, 2017). It shifts organizations away from rigid hierarchy toward decentralized decision-making, customer-centricity, and continuous improvement. For institutions accustomed to stability and predictability, this represents a significant cultural transition. However, in conditions of uncertainty, agility becomes essential for maintaining relevance and operational effectiveness (Tessema, 2025a).

**Organizational Sustainability as the Foundational Layer:** Sustainability in the Tessema Framework refers to an institution's ability to endure financially, operationally, ethically, and culturally over the long term (Tessema, 2025a). Sustainable transformation builds capabilities that evolve beyond the initial reform cycle, ensuring that change remains embedded and scalable.

## The Tessema Multiple Intelligence Framework (TMIF)

TMIF complements TPOTA by detailing the human-capability dimensions necessary for transformation. Designed as an inverted wedding cake, TMIF

incorporates five layers of intelligence: Intellectual (IQ), Emotional (EQ), Spiritual (SQ), Cultural (CQ), and Social Intelligence (SI) (Tessema, 2025a). These layers represent progressively expanding spheres of influence—from individual cognition to collective leadership.
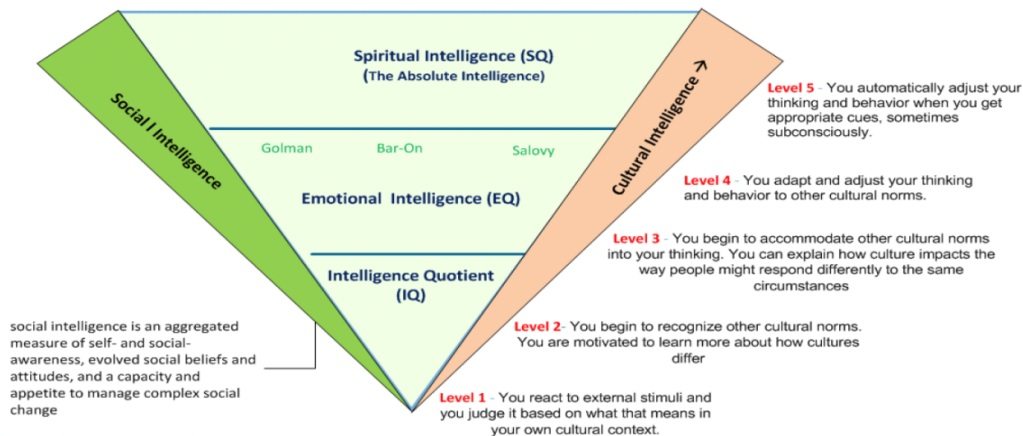


Figure 3. The Tessema Multiple Intelligence Framework diagram

*Source: Tessema (2025a).*

**Intellectual Intelligence (IQ):** IQ provides analytical and problem-solving capabilities foundational to transformation. Research on adaptive intelligence reinforces that IQ alone is insufficient; it must be complemented by creativity and practical reasoning (Sternberg, 2020; Gardner, 1983).

  **Emotional Intelligence (EQ):** EQ enables leaders to manage emotions, empathize, and build trust (Goleman, 1995). Research demonstrates that EQ is essential in managing resistance and strengthening collaboration during change (Alemu, 2025b).

  **Spiritual Intelligence (SQ):** SQ adds meaning, purpose, and ethical orientation. In public-sector reform, SQ ensures that transformation aligns with societal values and long-term well-being (Zohar & Marshall, 2000; Tessema, 2025b).

  **Cultural Intelligence (CQ):** CQ strengthens cross-cultural collaboration and helps leaders navigate diverse organizational environments (Earley & Ang, 2003). It is particularly crucial in globalized institutions and national transformations.

  **Social Intelligence (SI):** SI represents the capacity to collaborate, influence networks, and operate effectively within complex systems (Goleman, 2006). TMIF positions SI as the capstone capability enabling collective intelligence and systems-level change (Tessema, 2025c).

  Together, TMIF and TPOTA create a unified, human-centered transformation methodology. TMIF operationalizes the intelligence pillar of TPOTA and enhances leadership, learning systems, culture, and knowledge

management. Their alignment demonstrates that sustainable transformation requires not only structural reforms but comprehensive human capability development.

## Discussion

### *Analysis of Saudi Arabia's Transformation Through the Tessema Frameworks*

Unlike many nations that adopt gradual reform or focus narrowly on technology, The Kingdom of Saudi Arabia pursued an integrated organizational transformation, mobilizing leadership, culture, learning, knowledge systems, and multiple forms of intelligence best understood through the Tessema Pillars of Organizational Transformation and Agility (TPOTA) and the Tessema Multiple Intelligence Framework (TMIF).

### *Transformation Through the Tessema Pillars*

Applying the TPOTA framework provides a structured lens for understanding how the Kingdom achieved national-scale modernization at unprecedented speed. The global statistic that nearly 70 percent of major transformations fail, often because institutions prioritize digital upgrades over foundational organizational change, underscores the significance of Saudi Arabia's approach (Kotter, 1995). By contrast, the Kingdom combined leadership alignment, cultural renewal, cross-government learning systems, advanced knowledge management, and human intelligence development, strengthened by an explicit Agile Mindset and a commitment to long-term sustainability (Alemu, 2025a; Tessema, 2025b). These pillars formed the core architecture, enabling systemic reform rather than superficial modernization.

### Leadership and Vision as Catalysts

Leadership, the first TPOTA pillar, served as the anchor of Saudi Arabia's transformation. Vision 2030 articulated a unified national narrative, clarifying priorities across economic diversification, public-sector efficiency, and social modernization. Crown Prince Mohammed bin Salman's personal visibility and unwavering sponsorship signaled that transformation was non-negotiable. Institutional mechanisms reinforced this leadership foundation: The Council of Economic and Development Affairs coordinated reform; Vision Realization Programs operationalized priorities; and ADAA, the National Center for Performance Measurement, institutionalized accountability (Saudipedia, 2022). Together, these structures exemplified the TPOTA principle that leadership alignment, clarity of purpose, and sustained commitment form the backbone of systemic transformation (Tessema, 2025b).

*Cultural Transformation and Societal Renewal*

Culture, the second TPOTA pillar, was both an enabler and outcome of transformation. Saudi Arabia transitioned from a hierarchical, compliance-oriented administrative culture to one emphasizing innovation, entrepreneurship, and measurable outcomes. Social reforms, including increases in women's workforce participation, opening cultural and entertainment sectors, and empowering youth, were not peripheral; they were essential prerequisites for economic diversification and societal adaptability (Government of Saudi Arabia, 2024). These reforms demanded emotional sensitivity, cultural awareness, and generational diplomacy, demonstrating the relevance of EQ and CQ within TMIF. As Tessema (2025b) and Alemu (2025b) emphasize, culture determines whether transformation takes root or stalls; Saudi Arabia's cultural shift fundamentally expanded its human-capital base and economic potential.

*Organizational Learning and Capability Development*

The third TPOTA pillar, Learning, emerged as a distinguishing feature of the Saudi model. The Kingdom institutionalized learning ecosystems through global benchmarking, strategic partnerships, and coordinated capability development initiatives including programs in tourism, technology, public administration, and advanced manufacturing aligned workforce development with national goals. Scholarship programs, technical academies, and revamped public-sector training demonstrated the systemic learning mechanisms described by Alemu (2025a), who notes that effective knowledge ecosystems drive sustainable innovation and public-sector excellence. Saudi Arabia's learning architecture also reflected Agile principles: experimentation, iteration, pilot testing, and rapid feedback.

*Knowledge Management and Data-Driven Governance*

The fourth TPOTA pillar, Knowledge Management, became a structural backbone of reform. SDAIA led a comprehensive data governance and AI strategy that integrated digital platforms, national data lakes, and interoperable government systems (Saudi Data & AI Authority, 2023). Unified portals such as Absher enabled seamless service delivery, while giga-projects such as NEOM used sophisticated project-management knowledge systems to manage complex infrastructure. Tessema (2025a) emphasizes that knowledge infrastructure is the enabling system that sustains transformation across sectors; Saudi Arabia's emphasis on data, analytics, and digital governance exemplifies this principle.

*Intelligence Development and Adaptive Capacity*

The fifth pillar, Intelligence, directly connects TPOTA to TMIF. Saudi Arabia built capability across all five dimensions of intelligence necessary for transformation. IQ was evident in the technical sophistication of digital systems, economic planning, and giga-project engineering. EQ was required to manage

public sentiment around rapid social reforms. SQ provided meaning and cohesion, grounding modernization within Islamic values and intergenerational purpose. CQ enabled ministries to design culturally sensitive services and to develop globally competitive sectors, such as tourism. SI facilitated coordination across hundreds of agencies and international partners. These dimensions collectively enhanced national adaptability, the essence of the Agile Mindset, allowing the Kingdom to pivot during crises such as COVID-19 while maintaining strategic direction.

### Agile Mindset and Organizational Sustainability

Saudi Arabia's emphasis on speed, iteration, and adaptability exemplified the Agile Mindset integrated within TPOTA. Policies were launched quickly, assessed, and refined. When privatization strategies required adjustment or when COVID-19 disrupted timelines, the government responded flexibly. Complementing agility was the foundation of sustainability: diversified revenue sources, expanded human capability, environmental initiatives such as the Saudi Green Initiative, and institutional capacity-building to ensure long-term resilience. This reflects Tessema's (2025a) finding that sustainability must be embedded within organizational transformation to prevent regression or dependency on external conditions. Table 1 (below) shows the mapping of TOPTA pillars with the Agile mindset and Sustainability.

Table 1. Mapping of TOPTA pillars with the Agile mindset and Sustainability

| TPOTA Pillar | Agile Mindset Contribution | Sustainability Contribution |
|---|---|---|
| Leadership | Enables fast decisions, adaptive governance | Ensures leadership development pipelines and institutional continuity |
| Learning | Promotes rapid experimentation, feedback loops | Embeds lifelong learning capacity into national systems |
| Culture | Supports shift from compliance to innovation | Reinforces social cohesion during rapid change |
| Knowledge Management | Encourages real-time data use | Builds long-term institutional memory and capability |
| Intelligence | Enhances adaptive capability | Ensures resilience and long-term strategic foresight |

### Human Capability and Saudi Arabia's Transformation: A TMIF Perspective

TMIF deepens the analysis by demonstrating how human capabilities enabled institutional reform. Intellectual Intelligence (IQ) supported technical excellence in digital architecture, economic modeling, and mega-project planning. Emotional Intelligence (EQ) strengthened change management, social cohesion, and responsible communication. Spiritual Intelligence (SQ) connected transformation

to national purpose, identity, and shared values. Cultural Intelligence (CQ) enabled the Kingdom to navigate internal diversity and design offerings for a global audience. Social Intelligence (SI) empowered leaders to build coalitions, coordinate across agencies, and mobilize public support (Tessema, 2025a). These capabilities collectively formed the human foundation of Saudi Arabia's adaptive, resilient governance model.

## Transformation Phases and Outcomes

Saudi Arabia's national transformation has unfolded across multiple phases since 2016, each phase expanding the scope of institutional modernization, economic diversification, and societal change envisioned under Vision 2030 (Government of Saudi Arabia, 2016). These phases reflect an intentional sequencing strategy: first, stabilizing and restructuring government institutions; then, catalyzing economic diversification; and ultimately, integrating advanced digital and AI capabilities across all sectors.

### Phase 1 (2016–2018): Foundational Reform and Institutional Consolidation

The first phase focused on restructuring the Saudi state's institutional architecture to support coordinated transformation. Ministries were merged or reorganized to reduce duplication and sharpen strategic focus. For example, the Ministry of Industry and Mineral Resources was separated from the Ministry of Energy to prioritize industrial expansion. At the same time, the Ministry of Investment (MISA) was rebranded to attract global capital. Similarly, the Ministry of Communications and Information Technology expanded its mandate to lead the digital government agenda. These reforms strengthened role clarity, improved accountability, and positioned state institutions to deliver on Vision 2030 commitments (Government of Saudi Arabia, 2016).

Fiscal reform was another defining feature of this phase. Saudi Arabia introduced a value-added tax (initially 5% and later 15%), reduced costly subsidies on fuel, electricity, and water, and applied excise taxes on tobacco and sugary beverages. Medium-term expenditure frameworks and international debt issuances enhanced fiscal sustainability and reduced vulnerability to oil price volatility. These measures aligned Saudi fiscal policy with international recommendations for resource-rich economies and contributed to long-term macroeconomic stability (IMF, 2022).

A landmark anti-corruption initiative in 2017 further reinforced institutional credibility. The campaign signaled a strong stance against financial misconduct, resulting in high-profile investigations and asset recoveries. The initiative represented a significant departure from historical norms and served key domestic functions by establishing accountability expectations, recovering misappropriated funds, and strengthening investor confidence (Chelbi, 2024).

## Phase 2 (2018–2021): Economic Diversification and Private Sector Growth

The second phase accelerated economic diversification, led by the Public Investment Fund's (PIF) giga-projects, including NEOM, Red Sea Global, and Qiddiya, which aimed to create new economic sectors in tourism, entertainment, advanced manufacturing, sustainability, and urban innovation. The opening of tourism via the 2019 e-visa marked a historic policy shift, allowing visitors from over 49 countries to enter the Kingdom for leisure purposes for the first time. This reform catalyzed tourism supply chains, hospitality investments, and cultural programming, transforming a previously closed tourism ecosystem into a rapidly emerging global destination.

Labor market reforms were equally transformative. The Labor Mobility Initiative and partial Kafala reforms enabled expatriates to change employers more easily, modernized contract systems, and strengthened labor protections. These changes enhanced Saudi Arabia's competitiveness, addressed long-standing human rights concerns, and encouraged private-sector dynamism. Social reforms played a crucial role in economic diversification, particularly through the rise in female workforce participation, which increased from 20% to 35% (Atlantic Council, 2023) by 2023. Expanded women's mobility, entrepreneurship programs, leadership pathways, and employment access opened new sectors and significantly increased the national labor supply. These gender reforms represent one of the most rapid workforce transformations globally and serve as a critical enabler of Saudi Arabia's GDP growth targets.

## Phase 3 (2019–Present): Digital Transformation and AI Integration

Saudi Arabia's third phase marks its emergence as a global leader in digital government. The creation of the Saudi Data and AI Authority (SDAIA) in 2019 provided centralized oversight for AI strategy, national data governance, cloud migration, and digital infrastructure. SDAIA's organizational ecosystem, including the National Data Management Office, the National Information Center, and the National Center for AI, reflects the "dynamic capabilities" required to rapidly integrate new technologies into governance systems (Teece, 2018).

In line with the creation of the SDAIA, a suite of advanced digital platforms revolutionized citizen-government interaction. Absher now delivers more than 160 services and reduces wait times and in person appointments significantly. Tawakkalna, initially a COVID-19 response tool, has evolved into a national digital identity platform. Nafath introduced unified authentication across government and private-sector portals, while Etimad modernized procurement, enhancing transparency and reducing corruption risk. Ehsan leveraged AI-supported auditing tools to ensure the integrity of charities and their social impact. These innovations contributed to Saudi Arabia's vast digital enablement across government services.

Digital infrastructure investments, including extensive 5G coverage, fiber networks, cloud expansion, and the National Data Bank, position the Kingdom as a leading digital and AI-driven economy, reinforcing the foundations for smart cities, sustainable tourism, fintech, and industrial automation.

### Sectoral Transformations and National Strategic Engines

The Public Investment Fund serves as the financial anchor of diversification, growing from $150 billion in 2015 to more than $700 billion by 2024 (SWFI, 2023). Through companies such as SEVEN, SAMI, NEOM Company, Red Sea Global, Qiddiya Investment Company, and Rua Al-Madinah, PIF drives sector creation in entertainment, tourism, manufacturing, logistics, mining, renewable energy, and creative industries. Its international investments, such as Uber, Lucid Motors, SoftBank Vision Fund, and major sports ventures, advance technology transfer, global partnerships, and economic returns.

### Industrial Expansion and Mining Growth

The National Industrial Development and Logistics Program (NIDLP) aims to position Saudi Arabia as a global logistics and manufacturing hub. Investments have expanded pharmaceutical production, automotive components, aerospace cooperation, hydrogen technologies, and defense manufacturing. Mining reform, supported by a modern legal framework, seeks to unlock an estimated $1.3 trillion in mineral wealth (UNCTAD, 2023) and elevate mining as a strategic sector for the post-oil era.

### Logistics and Aviation Ambitions

The National Transport and Logistics Strategy aims to place Saudi Arabia among the world's top logistics hubs, supported by 59 logistics zones, expanded port and airport capacity, liberalized cargo markets, and integrated rail networks. The aviation strategy, including Riyadh Air, aims to serve more than 330 million passengers annually by 2030, directly challenging regional competitors.

### Tourism Transformation

Tourism has become a signature success of Vision 2030. Investments in heritage restoration, such as Diriyah Gate, AlUla, and Jeddah Historic District, mirror global best practices in cultural-led development. Entertainment infrastructure, including Riyadh Season festivals attracting millions of visitors, bolsters soft power and domestic economic activity (Nye, 2004). Hospitality expansion aims to add 500,000 hotel rooms by 2030. Remarkably, the Kingdom surpassed 100 million visitors in 2022, eight years ahead of target.

### Giga-Projects as Economic Catalysts

Giga-projects redefine Saudi Arabia's development model. NEOM represents the pinnacle of innovation, spanning advanced manufacturing, renewable energy, clean

mobility, robotics, biotechnology, and smart-city design. Red Sea Global demonstrates regenerative tourism. Qiddiya builds a regional entertainment and sports hub, and Diriyah Gate anchors Saudi cultural identity. These projects generate new industries, accelerate technology transfer, and create long-term employment ecosystems.

*Investment Climate Modernization*

Saudi Arabia has transformed its investment climate through modernization of commercial law, bankruptcy reforms, 100% foreign ownership in many sectors, and the Regional Headquarters Program, which has already attracted dozens of multinational companies. These reforms reposition Riyadh as a competitive global business hub.

## Comparison Between Saudi Arabia and UAE Transformation Models

Saudi Arabia and the United Arab Emirates (UAE) are among the most successful national transformation efforts in the Middle East. However, their pathways differ fundamentally in pace, structure, and governance design. The UAE's model reflects an evolutionary approach driven by federated governance, incremental reforms, and private-sector-led diversification (Al Suwaidi, 2019). Dubai and Abu Dhabi functioned as policy laboratories, enabling iterative innovation and gradual cultural liberalization over nearly three decades. By contrast, Saudi Arabia pursued a revolutionary model centered on Vision 2030, characterized by centralized dissemination of initiatives, rapid execution, accelerated social reforms, and state-driven economic development through institutions such as the Public Investment Fund (Government of Saudi Arabia, 2016; IMF, 2022). Both approaches have proven effective within their respective governance contexts, demonstrating that national transformation succeeds when leadership vision, institutional alignment, and political commitment operate in concert, even when reform pathways differ significantly.

Despite different starting points, both countries now converge toward similar strategic outcomes: diversified economies, globally competitive digital governments, more diverse workforces, and expanding cultural and economic ecosystems. The UAE maintains a socially liberal, highly cosmopolitan environment supported by an expatriate-majority population. In contrast, Saudi Arabia, home to a large youth- and citizen-majority demographic, relies on rapid capability-building, workforce transformation, and large-scale social modernization (World Bank, 2021). These differences illustrate key theoretical implications: gradual transformation, as in the UAE, supports stability and sustained consensus, while rapid transformation, as in Saudi Arabia, generates momentum but places greater adaptive pressure on institutions. Nevertheless, both cases show that successful transformation depends on visionary leadership,

robust knowledge management, cultural adaptability, and alignment between national strategy and societal readiness (Tessema, 2025).

In governance architecture, the UAE's federal system promotes decentralized innovation, allowing emirates to tailor economic and social policies to local needs before scaling nationally. Saudi Arabia's centralized framework enables synchronized reform through the Council of Economic and Development Affairs (CEDA) and Vision Realization Programs (VRPs), accelerating implementation and leveraging strong coordination mechanisms. Economically, the UAE diversified gradually through aviation, logistics, tourism, and financial services, while Saudi Arabia used state-led developmentalism to kickstart aviation, mining, entertainment, and tourism sectors while giga-projects such as NEOM, Red Sea Global, and Qiddiya create entirely new economic ecosystems (UNCTAD, 2023).

Socially, the UAE has advanced women's empowerment and cultural openness over the decades with an expatriate-majority population. In contrast, Saudi Arabia implemented one of the fastest social liberalizations in modern history, vastly expanding the entertainment offerings available, expanding the e-visa system to 45+ nations, and doubling female workforce participation within six years. Digitally, both Saudi Arabia and the UAE have pioneered e-government initiatives, rapidly achieving global leadership in AI, data governance, and cybersecurity (World Bank, 2022). Although their mechanisms differ, both nations demonstrate that multiple evolutionary or revolutionary pathways can achieve world-class transformation outcomes when strategically aligned with leadership vision and national priorities. Table 2 (below) summarizes the transformation dimension between the two countries.

Table 2. Comparative Approaches to National Transformation: Saudi Arabia vs. UAE

| Transformation Dimension | Saudi Arabia Approach | UAE Approach |
|---|---|---|
| Governance Structure | Centralized, top-down execution under Vision 2030; rapid alignment across ministries. | A federal system with autonomous emirates that enables policy experimentation and gradual reform. |
| Leadership Model | Transformational, assertive leadership enabling accelerated policy shifts and social reforms. | Consensus-driven leadership emphasizing stability and incrementalism. |
| Economic Diversification | State-led developmentalism through PIF, giga projects, and sector creation. | Private-sector-led diversification through free zones, logistics, financial services, and tourism. |
| Foreign Investment Strategy | RHQ Program, SEZs, and PIF co-investments to attract global firms. | Long-standing free zones with 100% foreign ownership and streamlined regulations. |

| Transformation Dimension | Saudi Arabia Approach | UAE Approach |
|---|---|---|
| Social Reform | Rapid, top-down reforms, including women's empowerment, entertainment sector expansion, and cultural liberalization. | Gradual social opening shaped by cosmopolitan expatriate majority demographics. |
| Digital Transformation | Centralized AI and data governance under SDAIA; accelerated digital platform rollout. | Early adoption of e-government; decentralized digital innovation across emirates. |
| Urban Development | Large-scale giga-projects (NEOM, Red Sea, Qiddiya) redefining future cities. | Market-driven mega-projects (Palm Jumeirah, DIFC) supporting tourism and global finance. |

## Lessons for Government and Organizational Transformation

Saudi Arabia's transformation journey under Vision 2030 provides a set of strategic lessons for leaders managing large-scale organizational/government change. These insights align with established research in public-sector reform, leadership, systems transformation, and digital modernization, demonstrating broad applicability across governmental and corporate contexts.

### *Lesson 1: Vision and Urgency Must Coexist*

Vision 2030 was effective because it combined a compelling long-term direction with apparent urgency driven by economic and demographic pressures (Government of Saudi Arabia, 2016). Kotter (1995) emphasizes that successful transformation requires both a strategic vision and an urgency-generating narrative that moves stakeholders to action. Vision without urgency leads to inertia, while urgency without vision results in short-term reactions. Saudi Arabia's approach balanced both forces, illustrating how organizations must articulate where they are going and why change cannot wait.

### *Lesson 2: Institutional Architecture Determines Execution Quality*

Transformation succeeded not only because of strategy, but because Saudi Arabia built a strong execution architecture, including central coordination (CEDA), ministry delivery units, and performance systems such as ADAA (Government of Saudi Arabia, 2016). Research on public-sector reform shows that implementation quality depends on governance structures, role clarity, and coordination mechanisms (Andrews et al., 2017; Peters, 2018). Without institutional alignment, even well-designed plans fail in execution. Saudi Arabia's model demonstrates that organizational transformation requires aligning structures, processes, and accountability systems to strategic goals.

*Lesson 3: Digital Transformation Is Foundational, Not Supplemental*

Saudi Arabia treated digital transformation as the core operating system of modern governance. Digital platforms such as Absher and Tawakkalna improved transparency, efficiency, and citizen experience (Saudi Data & AI Authority, 2023). OECD research shows that digital maturity is foundational for modern service delivery and evidence-based decision-making (OECD, 2024). Digital transformation is not an IT add-on but a systemwide capability requiring investment in infrastructure, data governance, and workforce skills (West, 2021). Saudi Arabia's model reinforces that digital readiness determines whether institutions can innovate and adapt.

*Lesson 4: Economic Diversification Requires Creating New Sectors*

Saudi Arabia's diversification strategy focused on building entirely new sectors, tourism, entertainment, smart cities, and advanced manufacturing, consistent with developmental-state approaches where governments catalyze new economic ecosystems (Amsden, 2001; Rodrik, 2008). Organizational transformation similarly requires developing new capabilities rather than merely optimizing existing operations. Vision 2030 illustrates that lasting diversification demands long-term investment, ecosystem building, and capability development (Public Investment Fund, 2023).

*Lesson 5: Social Reform Enables Economic Reform*

Economic modernization required corresponding social change, including women's empowerment, youth participation, and cultural openness. Evidence shows that social inclusion and gender equality significantly influence economic performance and innovation capacity (World Economic Forum, 2023). Organizational change literature likewise highlights culture as a core driver of transformation, shaping behaviors, norms, and productivity (Schein, 2017). Saudi Arabia demonstrates that economic reforms cannot succeed without cultural and social readiness.

*Lesson 6: Leadership Commitment Accelerates Change*

Saudi Arabia's rapid progress reflects sustained commitment from senior leadership, a factor repeatedly identified as crucial in large-scale transformation (Heifetz & Linsky, 2002; Kotter, 1995). Strong leadership aligns institutions, reduces resistance, and maintains momentum in the face of obstacles. Saudi ministries followed Vision 2030 because leadership signaled that transformation was non-negotiable (Government of Saudi Arabia, 2016). Organizations similarly require visible executive sponsorship, resource allocation, and accountability to accelerate change.

### Lesson 7: Mega-Projects Can Build New Organizational Identities

Saudi giga-projects like NEOM and Qiddiya function not only as economic initiatives but as identity-shaping projects that communicate ambition and redefine national purpose (Public Investment Fund, 2023). Research shows that symbols and flagship initiatives help embed cultural change and strengthen organizational identity (Hatch & Schultz, 2002). For institutions, visible transformational projects help inspire employees, attract talent, and demonstrate commitment to a new strategic direction.

### Lesson 8: Effective Communication Reduces Resistance

Saudi Arabia invested heavily in communication to build public support, reduce uncertainty, and engage youth. Change-management research consistently emphasizes communication as a critical enabler of stakeholder alignment and resistance reduction (Armenakis & Harris, 2009). Transparent, consistent messaging helps organizations clarify purpose, address concerns, maintain momentum, and build trust. Saudi Arabia's communication strategy shows that transformation requires ongoing dialogue, not one-time announcements.

### Lesson 9: Data and AI Are Critical Organizational Capabilities

Saudi Arabia's early investment in AI governance, cloud infrastructure, and cybersecurity positioned the nation at the forefront of digital readiness (Saudi Data & AI Authority, 2023). Studies demonstrate that data and AI capabilities are now foundational for innovation, efficiency, and competitive advantage (Brynjolfsson & McAfee, 2017; OECD, 2024). Organizations must therefore treat data as a strategic asset and AI as a long-term capability, not a future optional tool.

### Lesson 10: Transformation Requires Talent Pipeline Development

Human capability development was central to Vision 2030's design and rollout (Vision 2030, 2021). Workforce reskilling, education reform, and sector academies reflect the global finding that organizations cannot transform faster than their people can learn (Senge, 2006). Saudi Arabia's approach illustrates that talent pipelines, training systems, and learning cultures are essential infrastructure for sustained transformation.

### Lesson 11: Global Partnerships Accelerate Organizational Learning

Saudi Arabia actively partnered with global universities, technology firms, and international consultants to accelerate knowledge transfer. Research shows that external partnerships broaden organizational learning, reduce development time, and introduce best practices (Inkpen & Tsang, 2005). Transformation is faster and more effective when organizations combine internal commitment with external expertise and diverse perspectives.

*Lesson 12: Transformation Is Continuous, Not Episodic*

Vision 2030 illustrates that transformation is an evolving, multi-decade journey requiring continuous adaptation. Modern change theory stresses that systems must develop long-term learning capacity rather than implement one-time reforms (Burnes, 2017). Organizations must institutionalize feedback loops, performance monitoring, and learning systems to remain agile. Sustainable transformation becomes a capability, not a temporary project.

## Conclusion

Saudi Arabia's transformation under Vision 2030 represents one of the most sweeping and rapidly executed national reform agendas in contemporary governance. In less than a decade, the Kingdom restructured its administrative architecture, diversified its economy, and modernized its digital ecosystem while accelerating social reforms that reshaped national identity and global perception (Government of Saudi Arabia, 2016). What distinguishes the Saudi model is the unprecedented speed, institutional coordination, and resource mobilization that underpin the change, driven by entities such as the Council of Economic and Development Affairs (CEDA), the Public Investment Fund (PIF), and the Saudi Data and AI Authority (SDAIA). Through the combined lenses of the Tessema Pillars of Organizational Transformation and Agility (TPOTA) and the Tessema Multiple Intelligence Framework (TMIF), it becomes clear that Saudi Arabia concurrently strengthened leadership capacity, organizational learning, cultural adaptation, knowledge systems, and multidimensional intelligence to sustain this reform trajectory (Tessema, 2025a; 2025b; Alemu, 2025a).

     Across these frameworks, several core enablers shaped transformation outcomes. Leadership capacity was reinforced through centralized direction, consistent messaging, and clear accountability embedded in Vision 2030. Organizational learning expanded through global partnerships, experimentation, and institutionalized knowledge development, reflecting findings that learning ecosystems are essential for public-sector innovation (Alemu, 2025a). Cultural transformation accelerated as norms regarding gender roles, performance, and social participation shifted significantly. Likewise, knowledge management advanced through the development of integrated digital platforms, data governance structures, and real-time decision systems, illustrating the centrality of information architecture in national transformation (Tessema, 2025b). TMIF dimensions, intellectual, emotional, spiritual, social, and cultural intelligence, further enabled adaptability, cohesion, and practical reform execution across ministries and sectors.

     The results between 2016 and 2025 are substantial. Economically, Saudi Arabia increased non-oil revenues, expanded SME contributions, and attracted multinational headquarters at unprecedented rates, supported by PIF-led sector

creation and global investment strategies. Social reforms produced significant gains in women's empowerment, cultural participation, and youth engagement, while large-scale tourism development surpassed targets years ahead of schedule. Internationally, Saudi Arabia strengthened its geopolitical influence, showcased its ambitions through giga-projects such as NEOM and Diriyah Gate, and positioned itself as a rising leader in digital transformation and smart-city innovation. Despite these achievements, challenges remain, including sustaining institutional capacity beyond leadership cycles, deepening private-sector competitiveness, managing generational cultural change, and navigating geopolitical pressures and human-rights critiques (IMF, 2022; Chelbi 2024).

Significantly, the Saudi experience expands organizational and national transformation theory. It demonstrates that rapid, systemic transformation is achievable under conditions of centralized governance, cohesive institutional architecture, strong leadership commitment, and significant financial resources. The Kingdom's model, integrating CEDA, Vision Realization Programs, ministerial delivery units, and performance measurement systems, offers a replicable blueprint for orchestrating multi-sector reform. Saudi Arabia's digital-first strategy illustrates how technology can function as the backbone of national transformation rather than an auxiliary tool. Furthermore, the Kingdom's approach reveals that sustainable reform requires simultaneous alignment of economic, social, cultural, and digital transitions rather than sequential implementation. Through the TMIF lens, the Saudi case reinforces that national transformation ultimately succeeds when intellectual, emotional, spiritual, social, and cultural intelligences develop in parallel, producing a resilient, adaptive, and purpose-driven society (Tessema, 2025a; Alemu, 2025b).

## References

Alemu, B. A. (2025a). Leveraging knowledge management for sustainable innovation: Advancing public health leadership interventions. *Health Economics and Management Review*, *6*(1), 22–38. https://doi.org/10.61093/hem.2025.1-02

Alemu, B. A. (2025b). The influence of organizational values and leadership in promoting sustainable practices: A meta-analysis. *Business Ethics and Leadership*, *9*(1), 79–94.

Al Suwaidi, Amna Ahmad., & Rahman, Mohammad Habibur. (2019). *Organizational Culture, Leadership and Performance in Dubai Municipality*. Future Governments.

Amsden, A. (2001). *The rise of "the rest": Challenges to the West from late-industrializing economies*. Oxford University Press.

Andrews, M., Pritchett, L., & Woolcock, M. (2017). *Building state capability: Evidence, analysis, action*. Oxford University Press.

Ang, S., & Van Dyne, L. (2008). *Handbook of cultural intelligence: Theory, measurement, and applications*. Routledge.

Argyris, C., & Schön, D. A. (1996). Organizational learning II: Theory, method, and practice. Addison Wesley.

Armenakis, A. A., & Harris, S. G. (2009). Reflections: Our journey in organizational change research and practice. *Journal of Change Management*, *9*(2), 127–142.

Atlantic Council (2023). The rising female workforce in Saudi Arabia and its impact on the private sector. Atlantic Council's Women Innovators Fellowship (WIn). https://www.atlanticcouncil.org/event/the-rising-female-workforce-in-saudi-arabia-and-its-impact-on-the-private-sector/

Bass, B. M., & Riggio, R. E. (2006). *Transformational leadership* (2nd ed.). Psychology Press.

Beck, D. E., Cowan, C., & Wilber, K. (2001). *Spiral dynamics: Mastering values, leadership, and change*. Blackwell.

Brynjolfsson, E., & McAfee, A. (2017). *Machine, platform, crowd: Harnessing our digital future*. W. W. Norton.

Burnes, B. (2017). *Managing change* (7th ed.). Pearson.

Chelbi, Oumeyma., Beschel Jr, Robert P. (2024). *The Saudi Anticorruption Drive Moves Beyond Frying a Few Big Fish*. Middle East Council on Global Affairs. https://mecouncil.org/blog_posts/the-saudi-anticorruption-drive-moves-beyond-frying-a-few-big-fish/

Davenport, T. H., & Prusak, L. (1998). *Working knowledge: How organizations manage what they know*. Harvard Business School Press.

Denning, S. (2017). The age of Agile. *Strategy & Leadership. 45*, 3-10. https://doi.org/10.1108/SL-12-2016-0086

Earley, P. C., & Ang, S. (2003). *Cultural Intelligence: Individual interactions across cultures*. Stanford University Press.

Edmondson, A. (2019). The Fearless Organization: Creating Psychological Safety in the Workplace for Learning, Innovation, and Growth. John Wiley & Sons.

Gardner, H. (1983). *Frames of mind: The theory of multiple intelligences*. Basic Books.

Goleman, D. (1995). *Emotional Intelligence*. Bantam Books.

Goleman, D. (2006). *Social Intelligence: The new science of human relationships*. Bantam Books.

Government of Saudi Arabia. (2016). *Vision 2030 Kingdom of Saudi Arabia*. https://www.vision2030.gov.sa

Government of Saudi Arabia. (2024). *Vision 2030 Annual Report 2024*. https://www.vision2030.gov.sa/media/25042025ev1/En-Annual%20Report-Vision2030-2024.pdf

Hatch, M. J., & Schultz, M. (2002). The dynamics of organizational identity. *Human Relations, 55*(8), 989–1018.

Heifetz, R. A., & Linsky, M. (2002). *Leadership on the line: Staying alive through the dangers of leading*. Harvard Business Review Press.

Hood, C. (1995). The "new public management" in the 1980s. *Accounting, Organizations and Society, 20*(2–3), 93–109.

Hausmann, R., & Hidalgo, C. (2013). *The atlas of economic complexity*. MIT Press.

IMF. (2022). *Saudi Arabia: 2022 Article IV consultation report*. International Monetary Fund.

Inkpen, A. C., & Tsang, E. W. K. (2005). Social capital, networks, and knowledge transfer. *Academy of Management Review, 30*(1), 146–165.

Kotter, J. P. (1995). *Leading change: Why Transformation Efforts Fail*. Harvard Business School Press.

Nye, J. S. (2004). *Soft power: The means to success in world politics*. PublicAffairs.

OECD (2019), *Government at a Glance 2019*. OECD Publishing. https://doi.org/10.1787/8ccf5c38-en

OECD (2024), *Enabling Digital Innovation in Government: The OECD GovTech Policy Framework*, OECD Digital Government Studies. OECD Publishing. https://doi.org/10.1787/a51eb9b2-en

Peters, B. G. (2018). *The politics of bureaucracy* (7th ed.). Routledge.

Public Investment Fund. (2023). *Our Investments: Giga Projects*. https://www.pif.gov.sa/en/our-investments/giga-projects/.

Rahman, H. (2019). Performance management in integrated public service settings. *Journal of Public Administration, 47*(3), 445–463.

Rodrik, D. (2008). *Normalizing industrial policy* (Working Paper No. 3). Commission on Growth and Development.

Ross, M. (2012). *The oil curse: How petroleum wealth shapes the development of nations*. Princeton University Press.

Saudi Data & AI Authority. (2023). *Saudi Data and AI Authority.* https://sdaia.gov.sa

Saudipedia. (2022). *Council of Economic and Development Affairs (CEDA)*. https://saudipedia.com/en/article/152/government-and-politics/government-    affairs/council-of-economic-and-development-affairs-ceda

Schein, E. H. (2017). *Organizational culture and leadership* (5th ed.). Wiley.

Senge, P. (2006). *The fifth discipline: The art and practice of the learning organization*. Doubleday.

Sidra Capital. (2024) *Unlocking Saudi SMEs Growth Potential: IPOs as Catalysts for Growth*. https://sidracapital.com/insight/unlocking-saudi-smes-growth-potential-ipos-as-catalysts-for-growth-and-innovation/

SWFI Sovereign Wealth Fund Institute. (2023). *Sovereign wealth fund rankings*. https://www.swfinstitute.org

Sternberg, R. J. (2020). *Adaptive Intelligence: Surviving and thriving in times of uncertainty*. Cambridge University Press.

Teece, D. J. (2018). *Dynamic capabilities and strategic management: Organizing for innovation and growth*. Oxford University Press.

Tessema, D. B. (2025a). From personal to social intelligence: A sustainable organizational transformation—Analysis based on Tessema's Multiple Intelligence Framework. *Land Forces Academy Review, 30*(1), 82–98. https://doi.org/10.2478/raft-2025-0006

Tessema, D. B. (2025b). Pillars of organizational transformation and sustainability: Leadership, learning, culture, and knowledge management as key success factors in environmental public health. *Health Economics and Management Review, 6*(1), 1–22. https://doi.org/10.61093/hem.2025.1-01

Tessema, D. B. (2025c). Enhancing corporate sustainability through emotional Intelligence. *Scientia Moralitas Conference Proceedings*, 59–69.

UNCTAD. (2023). *World Investment Report 2023*. United Nations.

Vision 2030. (2021). *Human Capability Development Program*. Vision Realization Programs.

West, D. M. (2021). *Turning point: Policymaking in the era of artificial intelligence*. Brookings Institution Press.

World Bank. (2021). *Digital government indicators*. World Bank Group.

World Bank. (2022). *Open Data Maturity Index*. World Bank Group.

World Economic Forum. (2023). *Global gender gap report 2023*. WEF.

Zohar, D., & Marshall, I. (2000). *Spiritual Intelligence: The Ultimate Intelligence*. Bloomsburry.