



Building Scalable Digital Health Platforms for National Transformation: Aligning with Saudi Vision 2030

Executive Summary

As Saudi Arabia embarks on its ambitious Health Sector Transformation Program (HSTP), the nation is transitioning from fragmented healthcare delivery to an integrated, cluster-based model aligned with Vision 2030. This transformation demands a robust digital health infrastructure capable of supporting both national strategic priorities and the operational needs of Health Holding Company (HHC) clusters. This whitepaper examines how platform-based healthcare architectures enable national transformation by aligning technology solutions with Saudi Arabia's four strategic pillars: Person-Enabled Health, Predictive Analytics, Interoperability & Data Integration, and Governance & Quality Excellence. Persivia's comprehensive platform offers a proven, AI-powered solution designed to meet these dual requirements by providing the foundational architecture for national-level excellence while delivering the essential capabilities each cluster needs to succeed.

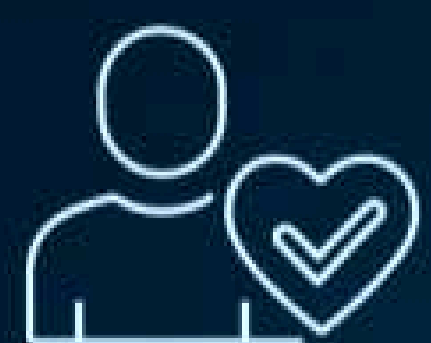


Introduction

Saudi Arabia is transforming its healthcare system to align with Vision 2030 goals. This transformation requires a digital health infrastructure that can support both national strategic objectives and the operational needs of individual Health Holding Company (HHC) clusters.

The Foundation: Saudi Arabia's Four Strategic pillars

The HSTP is built upon four foundational pillars that will define the future of healthcare delivery in the Kingdom:



Person-Enabled Health:

Patient-centric pathways and real-time care plans.



Predictive Analytics:

AI at scale with CDC-backed outbreak and digital twin models.



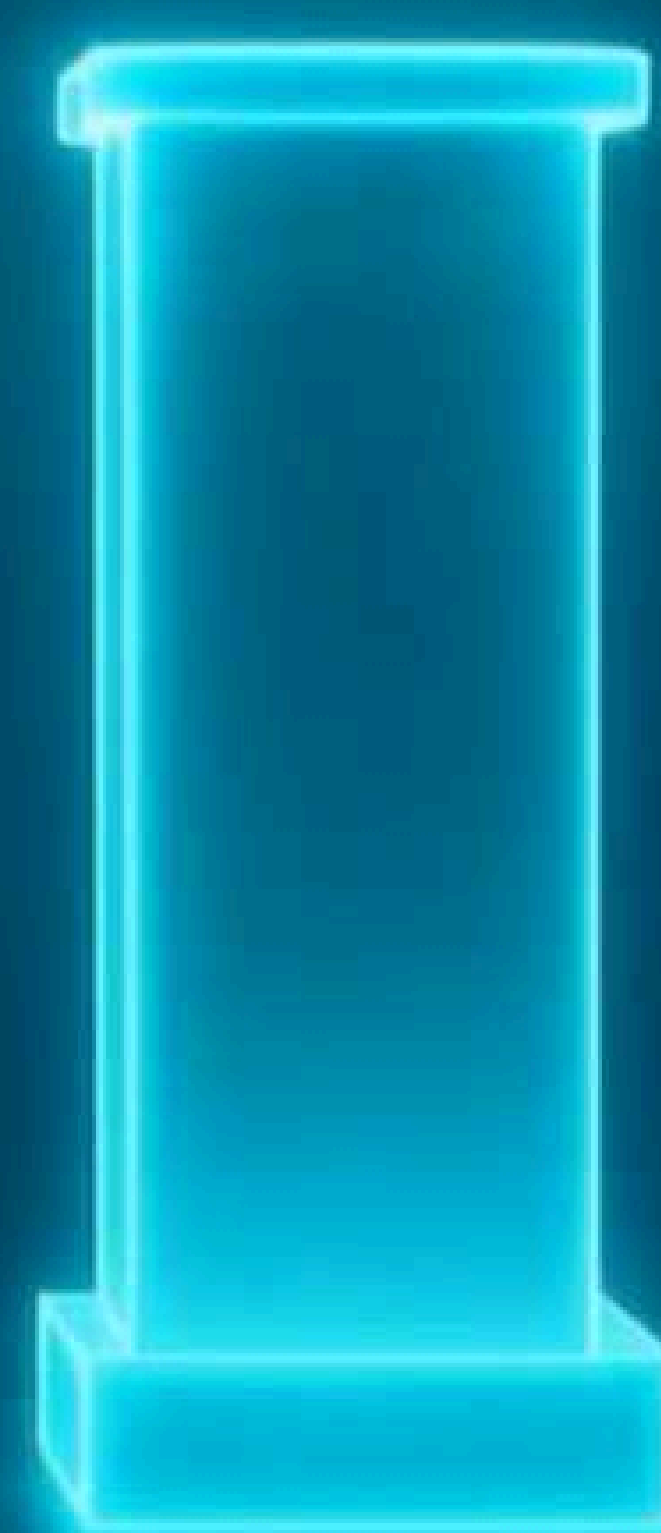
Governance & Workforce:

Explainable AI and quality reporting to empower providers.



Interoperability:

Seamless integration across NPHIES, registries, and health clusters.



How AI and Analytics Accelerate National Health Goals

AI and analytics serve as the engine that can help achieve HSTP's core objectives:

<h3>1. Population Health</h3> <p>AI algorithms analyze integrated patient data to proactively identify high-risk patients and recommend personalized interventions. This capability is fundamental to realizing the preventive goals of the Modern Care Model.</p> 	<h3>2. Quality Management</h3> <p>Analytics embedded directly into clinical workflows provide real-time decision support and streamline quality reporting. This aligns with the Ministry of Health's new role as a regulator focused on ensuring high standards of care.</p> 	<h3>3. Operational Efficiency</h3> <p>AI automates burdensome administrative tasks like documentation and coding, freeing up clinicians' time. It also provides sophisticated cost and utilization analytics, allowing Health Clusters to identify savings opportunities.</p> 
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The Persivia Solution: A Complete Ecosystem for National Transformation

Persivia offers CareSpace®, an integrated digital health platform with an AI-ready architecture that addresses both the strategic priorities of Saudi Arabia's national healthcare transformation and the operational requirements of individual HHC clusters.

Designed to serve as the digital backbone for healthcare transformation, CareSpace® delivers:

✓ Integrated Data Fabric

The platform's foundational pillar solves data fragmentation by ingesting information from hundreds of diverse sources and using AI to create a single, complete longitudinal patient record. Built with seamless API integration capabilities, CareSpace® is architected for full interoperability with NPHIES and other national systems.

✓ Soliton® AI Engine

Advanced AI analyzes vast, real-time datasets across the care continuum to identify high-risk patients, predict future health issues, and recommend timely interventions by supporting both population health initiatives and emergency preparedness.

✓ Security & Compliance

Top-tier security certifications including HITRUST and SOC2, ensuring data protection and regulatory compliance that meets international standards and supports the Ministry of Health's governance requirements.

✓ Unified Patient Record

CareSpace® provides the unified patient record, population health analytics, quality reporting, risk adjustment and care management workflows that each cluster needs to operate effectively as an ACO.

✓ Point-of-Care Solution

CareTrak® is an EHR-agnostic tool that embeds intelligence directly into clinical workflows, delivering patient-specific insights, care gap alerts, and risk coding recommendations at the point of care. This approach ensures high clinician adoption while preventing provider burnout.

✓ Scalable Architecture

Proven ability to scale rapidly across large networks, as demonstrated by deployments serving thousands of providers and millions of patients in complex U.S. health systems.

Proven Results: AI-Enabled Outcomes at Scale

CareSpace® has delivered transformative results in complex healthcare environments like Saudi Arabia's cluster-based model.



Challenge:

Unify data across 1,140+ practices to enable coordinated care and value-based outcomes

Measurable Results:

\$34M Medicare Savings

Through improved care coordination and preventive interventions

100% Quality Score Improvement

Enhanced physician performance metrics

90% Operational Efficiency Gain

Streamlined workflows and reduced administrative burden

Conclusion: A Strategic Partner for Healthcare Transformation

Saudi Arabia's healthcare transformation requires more than technology. It demands a comprehensive ecosystem that supports strategic goals at the national level while providing practical capabilities for cluster operations. Persivia delivers an integrated solution. A robust platform with AI-ready architecture that strengthens the data foundation nationally, combined with the specific modules and capabilities each cluster needs to succeed. This approach positions Saudi Arabia to achieve its Vision 2030 healthcare objectives efficiently and effectively, with a proven partner experienced in large-scale health system transformation.

📞 978-856-4600 ✉ info@persivia.com 🌐 www.persivia.com