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Foreword

The Kingdom of Saudi Arabia is rapidly advancing in healthcare innovation and the adoption of cutting-edge medical technologies, embracing Al-driven diagnostics, precision medicine, and the use of advanced medical devices. This progressive approach is a cornerstone of Saudi Vision 2030, particularly through the Health Sector Transformation Program, which aims to build a "Vibrant Society" by prioritising the health of every citizen. The Program is dedicated to restructuring the health sector, and emphasises cooperation between public and private health bodies to achieve improved health outcomes.

Its four strategic objectives - facilitating access to health services, improving the quality and efficiency of services, promoting health risk prevention, and enhancing traffic safety - are crucial in driving the Kingdom's health sector forward. Since the launch of Saudi Vision 2030, the Saudi population has experienced significant health improvements, demonstrating the Kingdom's enhanced readiness to face health crises. However, the current healthcare model still leans heavily towards treatment rather than prevention, focusing more on addressing diseases than preventing them.

The integration of GenAl into healthcare has the potential to transform the industry significantly. Adoption of large language models (LLMs) will ensure a significant technological advancement, capable of reducing the time spent on manual tasks, such as searching for and compiling information. However, for this to be realised, leaders must first assess their operations, talent, and technological capabilities. The Kingdom's commitment to investing in healthcare innovation and adopting advanced technologies reflects a forward-thinking vision. As progress continues to accelerate, these efforts will not only elevate the quality of healthcare but also ensure a sustainable and healthy future for all citizens.



Lina Shadid

Health Industries Leader,
PwC Middle East

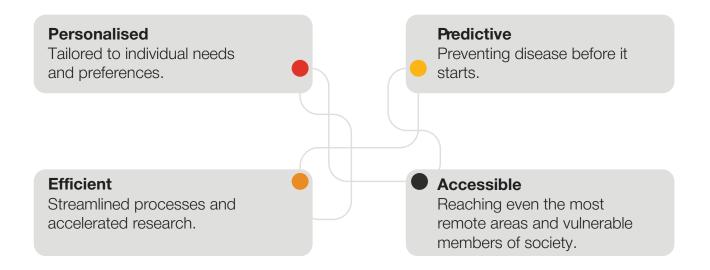
Introduction

Generative AI (GenAI) has been the biggest tech disruptor in recent times, offering potential opportunities and challenges across all industries, including the public and private sectors.

The overall economic impact of GenAl is estimated to reach almost \$24 billion per year by 2030 in the GCC region¹. Its greatest impact is expected to be felt in Saudi Arabia and the UAE, with a potential \$17.5 billion combined annual growth in the next few years. Healthcare is anticipated to be among the foremost industries to be affeceded by the rise of GenAl in the region, alongside media and entertainment, banking and financial services, IT and telecommunications.

In the Kingdom, with Vision 2030 goals guiding economic diversification and public service enhancement, the healthcare sector is embracing cutting-edge technologies to pioneer healthcare innovation and boost research and development initiatives. GenAl is set to accelerate and amplify this evolution. With its power to translate complex and unstructured data into meaningful insights, GenAl empowers healthcare professionals from across the whole healthcare ecosystem to make more informed, holistic and tailored decisions to enhance precision medicine and improve patient outcomes. GenAl's impact spans the entire spectrum of healthcare today; enhancing population health management, preventive care and wellness initiatives, improving diagnostic accuracy, chronic care management, facilitating drug research and development, improving costs and operational eciencies, and even predicting outbreaks and epidemics.

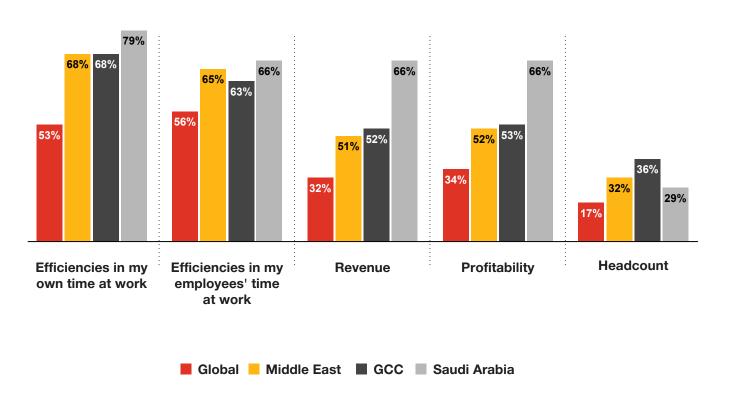
By embracing the possibilities of GenAl, while addressing its challenges responsibly, organisations can future proof their healthcare systems and ensure that care is:



PwC Middle East's <u>28th Annual CEO Survey</u>: <u>Saudi Arabia findings</u> reveals strong enthusiasm for GenAl across the Kingdom, with 81% of CEO's having adopted it in the last 12 months². Trust is also high, with 57% of CEOs saying they trust having the technology embedded in key processes to a large or very large extent – exceeding the global average of 33%. And GenAl implementation is yielding tangible results - two thirds of CEO's have already reported increases in profitability, revenue and workforce efficiencies due to GenAl.

With the health industry suffering an increasing strain on workforce capacity and resourcing, GenAl will prove a useful tool to augment the healthcare professionals of the future. By relieving the administrative burden, it will give them back more time to care for patients while also enhancing the speed, quality and range of medical data for timely and more holistic decision-making.

To what extent did generative Al increase or decrease the following in your company in the last 12 months? (Increased)





Healthcare organisations in Saudi Arabia need to move quickly but responsibly on Al. While it presents a transformative opportunity to reshape healthcare for the better, it must be harnessed ethically and responsibly. There are challenges around data privacy, bias, and ethical considerations that need to be addressed to ensure responsible and trustworthy use. Healthcare professionals also need to be adequately trained and equipped to collaborate effectively with GenAl tools.

Personal data protection and data privacy:

Ensuring robust data security measures to prevent unauthorised access, breaches, and misuse of sensitive healthcare data is critical.

Regulation and guidelines:

Complexities involved in establishing comprehensive Al healthcare policies, regulations and guidelines.

Shortage of skilled workforce:

GenAI integration with healthcare demands professionals with tech and domain knowledge, which is critical for developing and deploying GenAI solutions that address real-world healthcare problems. Lack of such professionals can limit the full potential of GenAI in healthcare.

Cultural hesitancy:

Resistance in acceptance of GenAl-driven healthcare methods by professionals and patients.

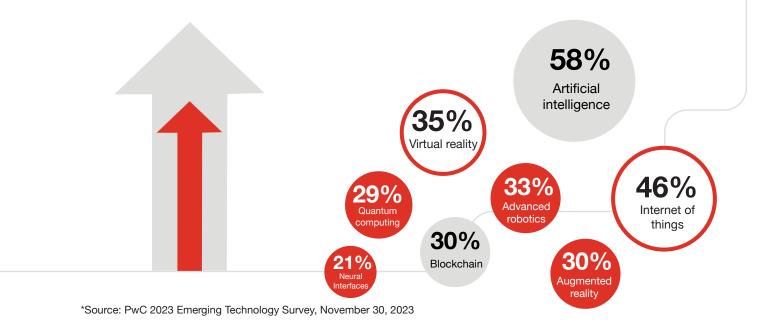
This report explores the impacts, challenges, and key strategic considerations healthcare organisations in Saudi Arabia need to take, to enable the successful adoption of GenAl to enhance their existing services and evolve new offerings into the future.

Reimagining healthcare through GenAl

01

According to the <u>PwC 2023 Emerging Technology survey</u>, Al has emerged as the top priority for investment among organisational leaders.³

Where does your company plan to prioritise investment in emerging technology over the next 12 months?

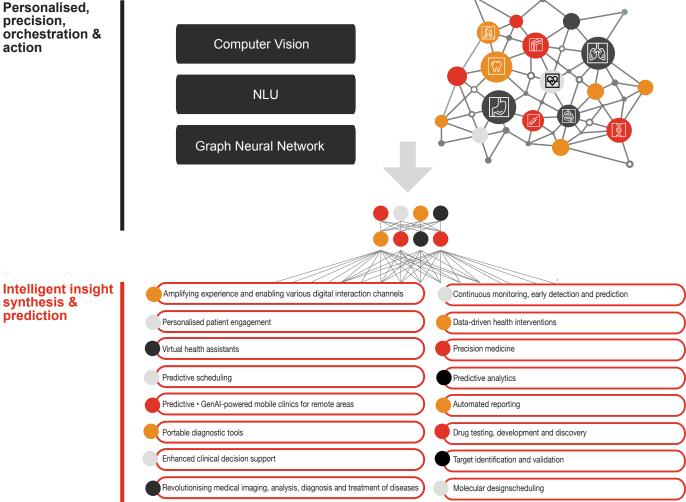


Across the GCC, the healthcare industry is evolving its care delivery models to more value-driven, community-centred care, and moving away from siloed clinical-focussed insights to more holistic healthcare ecosystems. The application of AI and GenAI harnesses the power of the huge variety of data types available, analysing and synthesising this with unprecedented accuracy to arrive at personalised, predictive and efficient healthcare solutions.

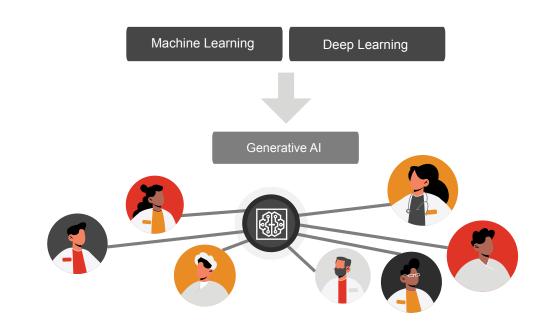


Applications of AI elevating the science and execution of population health

Personalised, precision, orchestration & action



Diverse data integration & contextualisation





Guided by Vision 2030, GenAl has tremendous potential to fundamentally reshape the Kingdom's healthcare landscape and improve patient outcomes and accessibility, including;

Amplifying experience, enabling various digital interaction channels:

GenAl enhances user experience by enabling various digital interaction channels and providing personalised care, enhanced accessibility and automation. For example, there are mobile apps that are now using GenAl to analyse images of skin lesions and provide real-time risk assessments for skin cancer. A study published by Fierce Healthcare suggests that at a healthcare career marketplace, GenAl has driven a 20% increase in interview acceptance by nurses through customised responses and messages.⁵

Innovating and improving workflow efficiencies:

GenAl can play a pivotal role in redesigning workflows to streamline business processes, prioritising user-friendliness, accessibility and increasing cost effectiveness.

Revolutionising diagnosis and treatment of diseases:

Healthcare professionals can harness GenAl tools to make clinical recommendations and carry out targeted interventions that are specifically tailored to improve patient outcomes. According to a study by MassgeneralBrigham, ChatGPT has demonstrated promising usability in ongoing clinical decision support, achieving an accuracy of up to 77% in making a final diagnosis.⁶

Let's examine some of the key use-cases in action.



Medical imaging and diagnosis

GenAl can analyse medical images, such as MRI and CT scans, to detect abnormalities. It can scrutinise skin images to identify signs of skin cancer with higher accuracy and efficiency than traditional diagnostic methods, enhancing patient outcomes. For example, a leading digital pathology company has already integrated GenAl into its products to improve the accuracy and efficiency of prostate cancer detection.⁷

Hospitals are also leveraging Generative Adversarial Network (GAN) models to transform low-quality scans into high-resolution images, making it easier for radiologists to spot anomalies and make informed decisions. This provides a significant boost in anomaly detection accuracy, setting a new standard in medical imaging. Integrating GenAl also helps to address quality and standardisation issues caused by variations in imaging protocols and practices, as well as access and availability issues due to concentration of resources in major cities.

Healthcare organisations in Saudi Arabia can leverage the GenAl in medical imaging and diagnosis for addressing some of the key challenges, including:

- Quality and standardisation issues caused by variations in imaging protocols and practices.
- Access and availability issues due to concentration of resources in major cities.





Drug discovery

Healthcare organisations in the Kingdom face a high burden of chronic diseases⁸, and by analysing large-scale genomic, biological, and chemical data GenAl can identify novel disease targets and prioritise promising candidates for further investigation. GenAl algorithms can reveal complex relationships between genes, proteins, and diseases that traditional methods might miss, leading to previously overlooked therapeutic targets. It aids in designing novel molecular structures and predicting their potential biological impacts with high accuracy. This method can accelerate drug discovery, enhancing the precision with which new compounds are identified and assessed. It complements traditional exhaustive screenings, streamlining the discovery process and potentially leading to significant cost and time savings.

A UK-based biotech company is using GenAl to analyse patient tissue and employ functional precision oncology to improve patient outcomes.⁹ Another leading tech company is offering a set of GenAl cloud services that enable customisation of Al foundation models to accelerate drug discovery and research in genomics, chemistry, biology, and molecular dynamics.¹⁰ The Kingdom can overcome the key challenges in drug discovery by introducing:

- GenAl-enabled virtual labs and simulations that can reduce the need for big capital expenditures.
- Virtually simulating drug-target interactions and predicting therapeutic efficacy, reducing the need of extensive upfront experimental trials.



GenAl-powered mobile clinics for remote areas

GenAl has the potential to significantly improve healthcare accessibility in remote areas of the Kingdom where there is a shortage of medical professionals. By equipping mobile clinics with GenAl technology, essential medical services such as diagnostics, telemedicine, medication dispensing, and health education can be provided effectively. This technology enables on-site health support and remote consultations, enhancing healthcare delivery in underserved regions.

Leading healthcare organisations around the world increasingly adopting GenAl-powered chatbots that offer patients¹¹ around the clock access to medical information and support, improving patient engagement and satisfaction by providing timely answers and guidance on health-related queries, thereby optimising the use of healthcare resources.

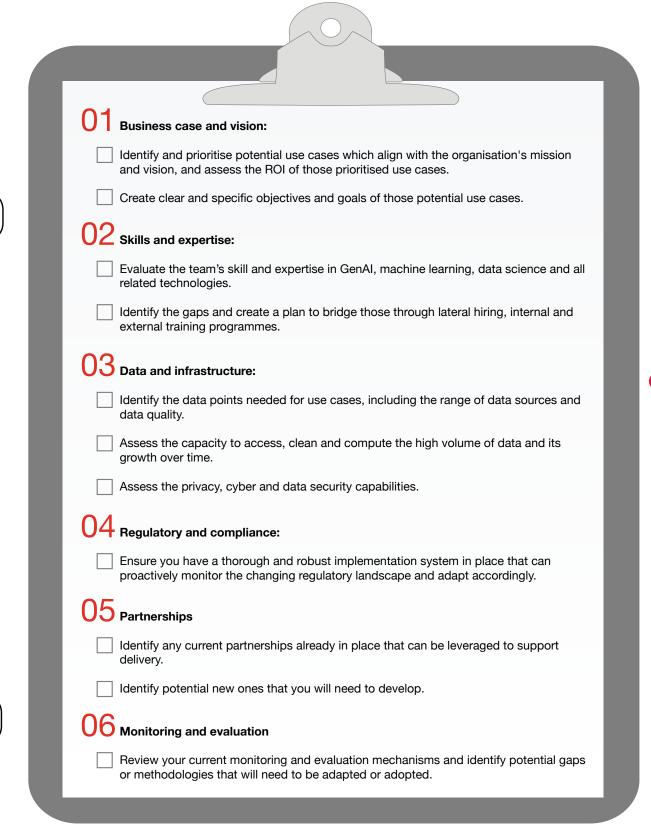


Predictive, personalised care

Saudi Arabia can leverage GenAl to analyse vast amounts of patient data, including medical history, genetics, and lifestyle factors, to create personalised risk assessments and leverage clinical pathways to suggest potential treatment plans. This can lead to earlier disease detection, more effective interventions, and improved patient outcomes. Researchers around the globe have developed a deep learning algorithm that can predict the possibility of complications after surgery¹² and recommend personalised treatment plans based on identified risk factors.

GenAl readiness assessment:

In order to get started and take advantage of these opportunities to reimagine healthcare, it is important to first ensure your organisation, infrastructure, stakeholders and resources are fully prepared and ready to effect change. A thorough assessment and robust planning are essential for a successful implementation outcome. The following checklist will help you to assess your organisation's level of readiness across the key parameters.



Once organisations have completed their readiness assessment and mapped out a path forward, it is time to start on the journey to GenAl adoption.

Adopting and scaling GenAl in healthcare

02

The following steps ensure that organisations can successfully adopt and scale GenAl in healthcare, driving innovation and ensuring sustainable, ethical, and effective implementation.

01



Business case and vision

- Develop clear guidelines
 - Create guidelines and protocols for responsible GenAl development, deployment, and use. Ensure these address data privacy, security, ethical considerations, and regulatory compliance.
- Understand strategic implications
 - Assess technology maturity: Understand GenAl and its underlying technologies to inform strategic decisions. Evaluate the impact on organisational and commercial strategies, as well as on people, culture, ethics, and purpose.
 - Industry benchmarking: Analyse how other organisations and regions are responding to GenAl. Identify strategic opportunities and areas within core business functions where GenAl can create significant value.
 - **Define a strategic vision:** Envision how GenAl will support the health sector, enhance patient outcomes, and align with ethical principles and risk thresholds.

Focus on value creation

- **Identify use cases:** Determine the most valuable and functional GenAl use cases across the organisation, leveraging industry insights and technical expertise.
- Evaluate benefits and risks: Assess the benefits and risks of each GenAl use case, considering ethical, regulatory, operational, and cybersecurity factors. Prioritise based on viability, feasibility, and potential ROI.
- **Develop a technical roadmap:** Create a roadmap and vendor assessment for developing use cases into Proofs of Concept (PoCs) to demonstrate GenAl's value.



Invest in workforce skills and expertise

- Assess workforce readiness: Evaluate the organisational structure, operating model, employee skills, leadership capabilities, and readiness for GenAl integration.
- **Design training programmes:** Develop training programmes to equip the workforce with the necessary skills to understand, utilise, and interpret GenAl outputs. Partner with universities and research institutions for specialised training.
- Assess impact: Analyse the impact of GenAl on key roles using industry benchmarks and qualitative modelling. zxUpdate employee personas to align with the organisation's GenAl vision.
- **Build use cases:** Design and implement use cases in human capital and workforce domains, such as HR operations and talent recruitment.

03



Strengthen data and infrastructure

- Evaluate data quality: Evaluate the current state of your data to ensure it meets the
 necessary standards of scale, maturity, quality, and confidentiality required for
 effective GenAl implementation. Create a harmonised data fabric.
- Strengthen data security: Implement robust data security measures to protect sensitive healthcare information, ensuring compliance with regulatory standards and maintaining patient confidentiality.
- **Invest in infrastructure:** Invest in robust, interoperable health data systems.
- Optimise data management: Develop and maintain a comprehensive data management strategy that supports efficient data collection, storage, and retrieval. Utilise advanced data governance practices to ensure data integrity and accessibility.
- Focus on the tech vision: Develop a refreshed tech and data vision to leverage Al across operating models and geographies, maximising previous investments in cloud platforms and open Application Programming Interfaces (APIs).
- Leverage advanced technologies: Integrate GenAl with your data infrastructure to harness its full potential. Ensure that your systems can handle the computational demands of Al technologies and support seamless data integration.

04



Ensure regulatory compliance

- **Govern processes:** Implement end-to-end GenAl governance processes, operating models, and artefacts. Establish a GenAl council to oversee policies and priorities.
- Create regulatory awareness: Understand existing and emerging regulatory standards and practices. Assess the fitness and maturity of governance, compliance, and risk management processes.

05



Foster strategic partnerships

- Strengthen collaborations: Promote innovation through partnerships with the government, private sector, research centres, and academia. Allocate research and development funding to keep pace with global Al advancements.
- Boost global cooperation: Exchange expertise with global AI and healthcare leaders to establish common standards for data collection, model development, and legal and ethical considerations (see appendices for Ethical AI governance framework).

06



Monitor and evaluate performance

- **Monitor performance:** Regularly monitor the performance and effectiveness of GenAl solutions, collecting feedback from healthcare professionals and patients and identify potential biases in Al models to ensure fairness and responsible Al.
- Educate the workforce: Create awareness of potential uses and limitations of AI, as well as its potential impacts on society and the environment.
- Regularly review and update your data policies: Keep pace with technological advancements and evolving industry standards. Aim for continuous optimisation to maximise data value and business outcomes.





Here is a breakdown of the mandatory regulations governing the use of government data in GenAl tools:

Fairness

Stakeholders must take necessary actions to eliminate bias, discrimination, or stigmatisation of individuals, communities, or groups in the design, data, development, deployment, and use of GenAl systems. To ensure consistent systems that are based on fairness and inclusiveness, GenAl systems should be trained on data that is cleansed from bias and is representative of affected minority groups.

Users must:

- Carefully evaluate the created content to ensure alignment with the Kingdom of Saudi Arabia's regulations, values, and ethics. This evaluation must also include comprehensive and careful scrutiny of biases or stereotypical associations.
- Make efforts to obtain a comprehensive understanding of the data used to train the tool, including knowing the source of the data, its contents, and how it is selected and prepared.
- Enhance users' understanding and awareness of bias, the importance of diversity and inclusion, anti-racism, values and ethics, to improve their ability to identify biassed content.

Reliability and safety

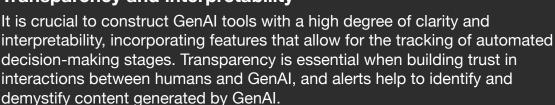
Ensure that GenAl systems adhere to set specifications, operating consistently as intended throughout its life cycle. Reliability serves as a measure of the credibility and dependability of the system in carrying out its specific functions and achieving intended results. Ensuring quality necessitates a multi-faceted approach encompassing monitoring, human supervision, and user education to effectively harness the capabilities of GenAl and reduce associated risks. A reliable and safe working system should have built-in mechanisms to prevent harm.

Users must:

- Identify and assess content generated with GenAl to ensure that users are prepared to address potential reliability issues and have the ability to verify content using other sources.
- Seek to understand the quality and sources of training data used by a GenAl system to enhance content reliability.
- Encourage supplementing content created with GenAl with information from trusted sources to ensure accuracy.



Transparency and interpretability





Users must:

- Communicate clearly and meaningfully when using GenAl to interact with the public.
- · Notify beneficiaries when messages or content is created with GenAl.
- Provide alternative, non-automated communication channels for beneficiaries who prefer human interactions.
- Use watermarks to help beneficiaries identify content created with GenAl.

Accountability and responsibility

Designers, developers, users, and evaluators of GenAl tools have ethical responsibility for decisions and actions that may lead to potential risks and negative impacts on individuals and communities. Adopting a GenAl system may carry legal and ethical implications, requiring comprehensive consideration including, but not limited to, the risk of infringement of intellectual property rights, concerns about data protection, and the potential for human rights violations.



Users must:

- Consult with relevant legal professionals to assess the risks associated with the use of GenAl tools and find a way to avoid or reduce these risks.
- Comply with relevant legislation, including the Personal Data Protection Law, and protect user rights.
- Ensure that content created with GenAl tools respects intellectual property rights and adheres to copyright legislation.

Privacy and security



Comply with the relevant regulatory requirements, including the protection of personal data, robust cybersecurity standards issued by the National Cybersecurity Authority, and the Data Classification Policy¹⁶. GenAl tools should be designed using mechanisms and controls that enable managing and monitoring the results throughout the system's life cycle.

Users must:

- Refrain from entering any data classified as restricted or higher (restricted, secret, and top secret).
- Implement strict data protection measures in accordance with the provisions of the Personal Data Protection Law.
- Check the privacy policies of these tools, including their disclosure and sharing terms.
- Assess the risks arising from the use of tools, including data leakage, misinformation, deepfake, bias, and decisions affecting the safety of individuals.
 Risk levels are classified as follows in accordance with the Al Ethics Principles stated by SDAIA:

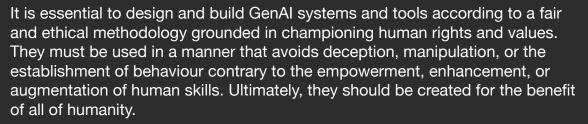
<u>Little or no risk:</u> There are no restrictions on Al systems that pose little or no risk, such as spam filters but, it is recommended that these systems be ethically compliant.

<u>Limited risk:</u> Al systems that pose limited risks, such as technical programs related to function, development, and performance, are subject to the application of the Al Ethics principles mentioned in this document.

<u>High risk:</u> All systems that pose high risks to basic rights must undergo pre-and post-conformity assessments, and in addition to adhering to ethics, the relevant statutory requirements must be considered.

<u>Unacceptable risk:</u> Al systems that pose an unacceptable risk to people's safety, livelihoods, and rights, such as those related to social profiling, exploitation of children, or distorted behaviour, that are likely to occur are not allowed.

Humanity





Social and environmental benefits

This principle ensures that GenAl systems and tools support social good and environmental sustainability, avoiding harm and promoting progress, to benefit individuals and the wider community. With a focus on sustainable goals and objectives, GenAl systems should neither cause nor accelerate harm or otherwise adversely affect human beings but rather contribute to empowering and complementing social and environmental progress while addressing associated social and environmental ills. They should ensure the protection of social good as well as environmental sustainability, contributing to the Kingdom's sustainable development.







The way forward

For initial pilots in Saudi's healthcare sector, it is critical to prioritise alignment with strategic goals and focus on core business processes. Players must choose use cases offering moderate value that can be readily replicated. This approach prioritises learning from successful pilots and ensures long-term sustainability of GenAl implementation.

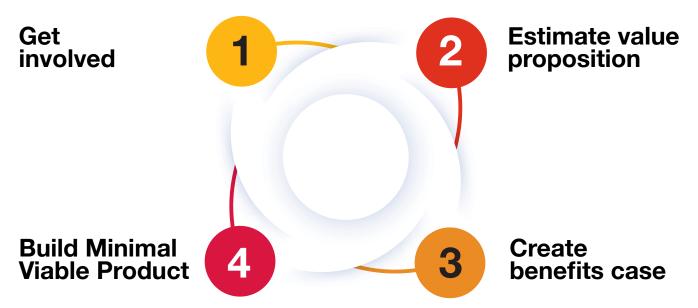
This starts with getting involved. As a first step, get educated and allow yourself to understand what GenAl can and cannot offer you, given the context and background of your healthcare organisation. We suggest creating a small task force that can start to explore use cases and champion the concept.

You can also determine the applications that are most relevant to your healthcare organisation. Organisations can create a group of cross-functional leaders, including, but not limited to, those who oversee data and technology, to determine the value that GenAl (and Al more broadly) could bring to their respective divisions.

It is important to create a clear benefits case, leveraging lessons learned and existing case studies. Ensure there is a clear understanding of the desired outcomes, and how the use cases will add additional value and contribute towards the achievement of a target such as the Quadruple Aim¹⁷.

And finally, build a Minimal Viable Product (MVP) before going for wider implementation. During this, embed trust with regulators, stakeholders, and clients through risk mitigation strategies for cybersecurity, privacy and compliance. The MVP will serve as a foundation for broader deployment, setting a precedent for success and scalability in GenAl initiatives.

Keep mindful of the emerging legislation for GenAl as the use-cases continue to evolve - for example future Gen-Al powered applications and devices may also be subject to medical device regulation.





GenAl has tremendous potential to fundamentally reshape the healthcare landscape in the Kingdom, improving patient outcomes and empowering a healthy and vibrant society under Vision 2030. It offers a path towards a more personalised, efficient, and accessible healthcare system. Ensuring its successful integration requires a robust framework for technology adoption, including ethical governance, strategic partnerships, and continuous skills development that will position the Kingdom at the forefront of healthcare innovation.



"GenAl is redefining the boundaries of healthcare, enabling us to unlock unprecedented levels of precision, personalisation, and potential in patient care. It's not just a tool; it's a catalyst transforming the future. We must all act to navigate this latest frontier in health, and reimagine healthcare in the Kingdom of Saudi Arabia."

Tariq Beshtawi, Partner, Health Industries, PwC

Appendices Ethical Al governance

GenAl offers both opportunity and risk, with some of the key risks entering the realm of ethics and responsibility including:

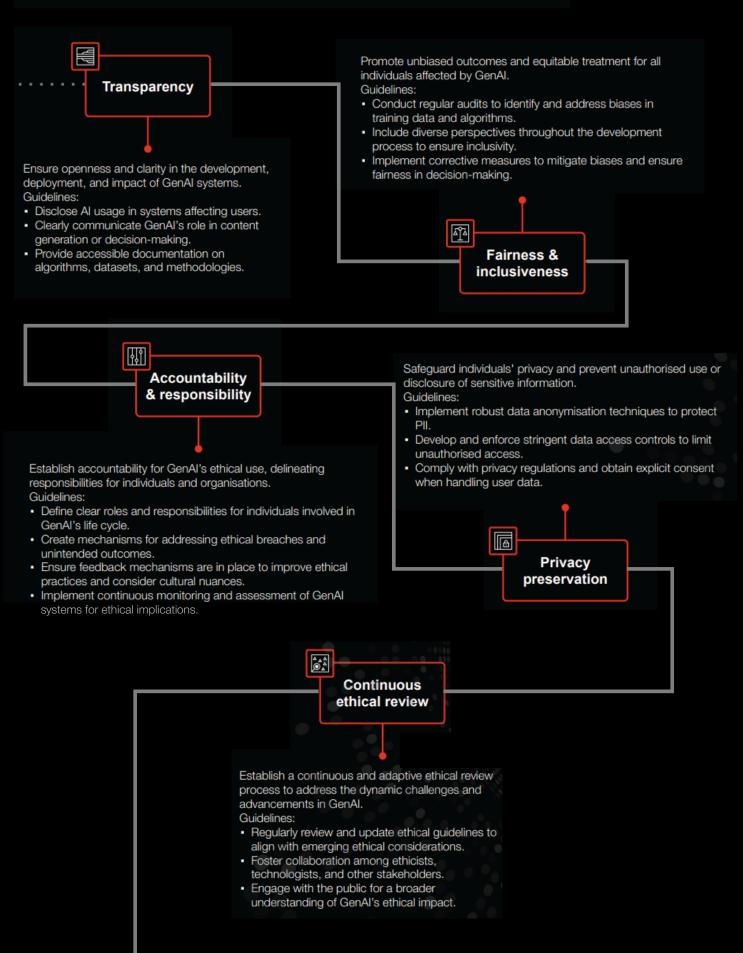
- Distribution of harmful content
- · Copyright and legal exposure
- Data privacy violations
- Sensitive information disclosure
- Amplification of existing bias
- Deepfakes
- Hallucinations
- Data provenance concerns

As we find ourselves on the brink of an era influenced by GenAI, it is crucial for healthcare leaders across the region to ensure the responsible and ethical utilisation of this transformative technology in their organisations. The path towards integrating GenAI demands a collective effort that goes beyond mere technological advancements; it requires a comprehensive approach to the ethical considerations too.

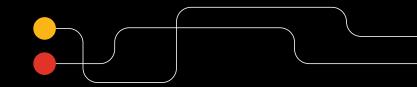
PwC Middle East has developed the below ethical framework for responsible use of GenAl, to help ensure that the development and use of GenAl in organisations includes a careful ethical analysis, ensures open dialogue, and a commitment to balancing competing values to ensure that the technology is used to benefit humanity.¹⁸ This framework can be used alongside the Al Ethics Principles stated by SDAIA to guide GenAl development in healthcare.



Ethical framework for responsible use of GenAl



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PwC and the Health Sector Transformation Program (HSTP) collaborated on this white paper to deliver critical insights on the future of healthcare, emphasising the role of Generative AI in enhancing medical services. This collaboration supports Vision 2030, aiming to revolutionise the healthcare sector by integrating AI-driven solutions to improve patient care, operational efficiency, and advance innovation in healthcare delivery.

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