

# Medical Technology – An engine of innovation

July, 2024





The landscape of MedTech has witnessed notable progress and spurred remarkable advancements in the realm of patient care. The field of MedTech is vast and encompasses technologies employed in the diagnosis, treatment, and improvement of a person's health. From prosthetics to radiation therapies, MedTech has changed healthcare for the benefit of patients and health care providers. The integration of artificial intelligence (AI) and machine learning algorithms has further augmented the potential of advanced medical technology. These systems can analyse profuse medical device data, recognize patterns, and offer actionable insights.

By harnessing AI, advanced medical technology furnishes personalised treatment recommendations, empowering healthcare providers to deliver precise medical care and achieve superior patient outcomes. The global MedTech market size is projected to grow at a CAGR of 4.4% during 2023-33 supported by the rising frequency of chronic diseases, aging population, and increased investments in emerging markets<sup>1</sup>. The U.S. is the largest medical device market in the world, comprising over 40% of the global MedTech market<sup>2</sup>. The revenue of the MedTech companies witnessed a decline after the COVID-19 pandemic owing to the pandemic aftereffects, shifting geographical influence, macroeconomic volatility, and rising costs. The Venture Capital (VC) financing for the MedTech sector is expected to witness a modest uptick and return to pre-COVID levels in 2024. Despite the challenges posed by cybersecurity, the global MedTech sector is anticipated to sustain its growth momentum due to increasing awareness of healthcare, rapidly evolving technological advancements, and faster pace of M&A deals.

The MedTech sector in the GCC region is still evolving, with Saudi Arabia and UAE spearheading the regional peers in terms of technological advancements. The Medical Devices sector in Middle East and Africa is expected to grow at a steady pace and record a CAGR of 2.68% between 2024-29<sup>3</sup>. The expansion of key players in the countries, government regulation supporting the operations of the MedTech companies in the region and faster pace of R&D developments by the regional players foster the sector expansion. Additionally, the governments are increasingly spending on healthcare, thus turning the GCC countries into an interesting space for medical device manufacturers. In the long term, the GCC MedTech sector is expected to track the global technological developments in the field of medicine.

Saudi Arabia's potential to emerge as a hub for medical devices drives the strong growth forecast for the country's MedTech sector in the long term. The government's support for R&D (research and development) in the healthcare sector, encouraging adoption of AI-driven diagnostics, precision medicine, and advanced medical technology, is becoming more prevalent within both public and private sectors. Saudi Arabia's establishment of NPHIES (National Platform for Healthcare Information Exchange Services) in 2020 is a key to adoption of latest technologies such as AI (Artificial Intelligence) and ML (Machine Learning) in healthcare.

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## **Overview of MedTech**

MedTech, or Medical Technology, is a broad field and covers technologies used in diagnosis, patient care, treatment, and improvement of a person's health. The technologies encompass both low- and high-risk Medical Technology - from tongue depressors, surgical gloves and medical thermometers to insulin pumps, pacemakers and in vitro diagnostics.

The medical technology falls under healthcare and is dedicated to providing patient care using technology. MedTech provides the equipment, tools, and devices which are employed to diagnose and treat a patient. Medical technology assist healthcare professionals to diagnose and treat patients with a higher level of accuracy and in a well-timed manner and improve the quality of life of patients.

The evolution of MedTech has been continuous and dates to ages. Before more intricate technologies came into the picture, people relied on folk medicine, and magical practices for healing and revival from diseases and injuries.



<sup>&</sup>lt;sup>1</sup> Future Market Insights

<sup>&</sup>lt;sup>2</sup> Advanced Medical Technology Association <sup>3</sup> Market Data Forecast

### **Evolution of MedTech**

Daniel Gabriel Fahrenheit invented the mercury-in-glass

Wilhelm Conrad Roentgen, a German engineer and

An American engineer, Philip Drinker, created the iron lung, a device that breathes for polio patients who can no longer

Willem J. Kolff, a Dutch physician invented the artificial kidney, which evolved into modern dialysis machines.

Raymond Damadian discovered how to use magnetic

resonance imaging for medical diagnosis. By 1977,

A 3D printer is used for first ever skull transplant.

Damadian completes construction of the first whole-body

physicist, discovered X-rays.

### 300-500 CF

The Greeks and Romans set the patterns of modern surgical instruments with new tools, often made of bronze.

### 1851

1714

thermometer.

1895

1929

1943

1974

MRI scanner.

2014

2019

breathe on their own.

Hermann von Helmholtz, a German physicist, invented the ophthalmoscope to examine the retina and other parts of the interior of the eye.

### 1903

Willem Einthoven, a Dutch physician, refined the electrocardiogram developed by a British physiologist and devised an instrument to record the heart's electrical impulses.

### 1937

The Soviet scientist Vladimir Demikhov made the first artificial heart. It was transplanted into a dog, which survives for two hours after the surgery.

### 1970s

Computer technology started to merge with medical technology; it is now used to store medical records, control instruments, and perform robotic surgery.

### 1982

The first permanent artificial heart was implanted at the University of Utah. Until then artificial hearts had served as a bridge to transplantation.

2016

2022

The first ever artificial pancreas was created

The complete human genome is sequenced.

### 3D-print heart from human patient's cells.

Source: Yale University

The digitalization of the medical device sector has advanced over the past five decades, since the use of computers in early 1970s. Medical Technology have increasingly incorporated digital technology and algorithms such as large language models as standard components with the evolution of cloud computing and AI in the 21st century. However, MedTech sector is in the early stage of digital maturity and no single market player has developed a digital ecosystem comprising multiple players and steps across the value chain.

### Digitalization in MedTech – An ongoing revolution

**Digital imperatives** for MedTech clusters

- Companies that sell medical aids are fairly mature regarding their use of digital in pricing and customer access. However, they can make continued progress by looking at other industries such as FMCG players that apply digital to understand the needs of different customers. FMCG companies have made sizable investments in data and analytics, generating an attractive return on investment.
- Diagnostics companies are strong in their use of digital in the product portfolio and in advanced business models. However, diagnostics companies are expected to shift away from selling primarily through sales reps and develop more digital sales channels to be more cost-efficient.
- Surgical products companies are reasonably mature in their use of digital products and sales channels. The opportunity for these companies is to apply new tools and solutions to manufacturing processes, enabling greater customization.

- Some medtech companies are regional players that want to globalize. These companies are likely to focus on using digital to improve pricing where their capabilities lag behind those of globalized competitors with a more diverse base of customers across different regions.
- Each market has different sales configurations. Regional players should invest in digital pricing management tools and concepts to improve pricing and manage complexity as they expand into new geographic markets.

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**Digital imperatives for** diversifying the customer base

 Medtech companies that are trying to diversify their customer base also need to build up digital capabilities. In addition to digitalising their business model, digitization is imperative when it comes to the dimensions of market and customer access, value chain, and processes.

Source: Strategy&

COVID-19 has brought the MedTech sector to the limelight with increased demand for diagnostic tests, personal protective equipment (PPE), ventilators, and other critical medical supplies. According to a survey conducted by Supplyframe (Sourcing and supply chain focused company headquartered in Los Angeles), lack of alternatives, supply shortages and production delays were the key challenges faced by the sector during the pandemic. However, the sector was characterized by innovation and collaborations across the world during the crisis.

**Digital imperatives for** geographic expansion



### **Reimaging MedTech for the COVID-19 pandemic**

New business models and virtual health

- According to an EY poll, 80% of doctors in the U.S did not use virtual health in their patient relationships at the beginning of 2020. However, six months later, 95% had expanded their use of virtual media. The transition to virtualized medical business models grew at a faster during the pandemic.
- Online customer service, webinars, digital media, and virtual consultations were used by healthcare organisations to respond to patient demands in realtime.
- Remote healthcare became one of the top priorities for chronic diseases.

## $\mathbf{2}$ New diagnostic testing opportunities

- Due to the need for quickly discovering and isolating those who are infected by the virus, organizations developed COVID-19 diagnostic tests that provide fast results.
- Many companies developed solutions that were more flexible than the traditional PCR tests.
- For example, Colorimetrix developed experiments in which a single drop of blood from a finger prick is combined with a solution in a test tube and scanned using a mobile application. The outcome is interpreted by an algorithm, and the test subject will learn right away if their body has formed antibodies
   against COVID-19.

# 3 Changes in the healthcare supply chain

- One of the major supply chain challenges during the pandemic was vaccine production and delivery due to the necessity for ultra-cold supply chains.
- Supply chains became more intertwined than they have ever been and supplies of related materials remained scarce.

# $\mathbf{4} \mathbf{>} \mathbf{The \ rise \ of \ remote \ medical \ device \ design}$

- Remote medical device development gained momentum due to the need to cut down on physical contact. There were increased efforts to collaborate on medical device design and production across the world.
- Medtech companies were compelled to depend more on external sources for developing medical technology as a result of the pandemic.
- According to study by Technavio, medical device outsourcing services are expected to rise to USD 39.25 billion by 2024.



# **Global MedTech Sector**

The global MedTech market size is projected to grow at a CAGR of 4.4% during 2023-33 driven by the rising frequency of chronic diseases.<sup>4</sup> Chronic diseases such as diabetes, cardiovascular disease, and obesity are on the rise around the world, and MedTech is increasingly being employed to aid people manage these conditions. Aging population worldwide, heightened focus on preventive care, including early detection and diagnosis of diseases and growing demand for digitalised healthcare services in emerging markets further propel the sector expansion. Regulatory environment around the world is tightening to ensure safety, efficacy, and quality of Medical Technology.

### Global MedTech Market size



Source: Statista

The total value of Venture Capital (VC) deals in the MedTech sector amounted to USD 21 billion in 2023 - down by 31.1% y/y from USD 30.5 billion in 2022 due to the higher interest rate environment. The number of VC financing deals was also down by almost 30% y/y in 2023 compared to the previous year. However, the fall was less significant when compared to 2022, when the value of VC deals fell by 57.4% y/y. The value of VC deals reached USD 49.3 billion in 2021 owing to 0% base interest rate and COVID-19 pandemic.

<sup>4</sup> Future Market Insights

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### Medical Technology – An engine of innovation





Source: GlobalData's Medical Technology Intelligence Center

The future trends of the sector are reflective of the swift pace of development of medical technologies observed over the past few years. As MedTech companies realize the benefits of analytics, AI, and new digital technologies, the MedTech sector is likely to witness a new wave of opportunities for increased growth and market share. Conversely, new regulatory guidelines and cybersecurity concerns are likely to impede development of new products.

### **Key Market Trends**

### **Development of advanced technologies**

- Advances in digital technologies, such as robotic surgery units and 3D printing, have led to uptake of digital devices in the industry. This has been coupled with increasing clinical evidence for the benefits of digital applications in chronic diseases.
- In 2017, major MedTech companies began collaborating with startup digital device manufacturers and global technological companies such as Google, Apple and IBM. For example, Medtronic has collaborated with IBM Watson, Qualcomm and Glooko to create an integrated diabetes management program that allows patients to track their blood sugar levels and receive appropriate therapeutic doses of insulin.



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### Long-term investment in emerging markets

- Emerging markets are likely to see increased usage of medical technology in the coming years due to government healthcare initiatives, high prevalence of chronic diseases, increased insurance coverage and affordability.
- The growing medical awareness in these countries have made them perceive as good investment opportunities. The market share of emerging markets in the MedTech industry is expected to increase, encouraging key market players to make long-term investments.
- In addition, stringent regulatory guidelines in developed regions such as the U.S. and Europe have shifted the focus of major MedTech companies to emerging countries such as China, India and Brazil.

### Moving towards a value-based reimbursement model

- The value based reimbursement model is likely to replace the fee for-service model completely, suggesting that doctors will receive their payments based on the outcomes of the treatment for patients.
- Hence, companies are investing money in developing medical technology that offer superior therapeutic results.

### Increase in M&A and strategic partnerships

M&A has become a driving force of MedTech industry growth. MedTech companies have invested considerably in M&A in order to maximize the number of therapeutic segments in which they operate.

M&A is focused on the development of innovative Medical Technology, expansion into different geographies and increase in market share, together with accelerated revenue growth.

### Increase in aging population

According to the National Institutions of Health, the number of people aged 65 or above is expected to reach 1.6 billion.

An aging population is increasing the need for medical technology especially those used in the diagnosis and treatment of orthopedic, cardiovascular and eye disorders.

The MedTech sector is expected to grow at an appreciable pace in all regions across the world. The rate of growth may vary based on the adoption of R&D process, compliance with the evolving regulatory requirements and pace of implementation of latest trends in the sector.

### Market drivers and Barriers across countries

Geographies	Market drivers	Barriers
North America	<ul> <li>Investment in development of advanced technologies</li> <li>Aging population</li> <li>High prevalence rate of chronic diseases</li> </ul>	<ul> <li>Stringent regulatory norms</li> <li>Investment by local investors in emerging markets</li> </ul>
Europe	<ul> <li>Rise in mergers and acquisitions</li> <li>Inclination of MedTech companies towards development of AI based technologies</li> </ul>	<ul> <li>Changing regulatory environment Stringent and frequent screening by notified bodies making it difficult for companies to enter the European market.</li> <li>High cost of development of advanced technologies</li> </ul>
Latin America	<ul> <li>Availability of cheap and skilled labor</li> <li>Rise in patient awareness</li> </ul>	<ul> <li>Increase in the complexity of approval process</li> <li>High cost of advanced technologies</li> </ul>
Asia-Pacific	<ul> <li>Expansion in insurance coverage</li> <li>Economic expansion of middle- class population</li> <li>Initiatives taken by government to improve healthcare infrastructure</li> <li>Aging population and increased incidence of diseases</li> </ul>	<ul> <li>High cost of advanced technologies</li> <li>Lack of development of advanced technologies</li> <li>Poor accessibility of medical device in rural areas</li> </ul>
Middle East and Africa	<ul> <li>Increased burden of lifestyle-related disorders such as diabetes and cardiovascular diseases</li> <li>Expanded insurance coverage</li> <li>Increase in healthcare expenditure</li> </ul>	<ul> <li>Challenging regulatory processes</li> <li>Non-transparent regional political environment hinders foreign companies to enter into MEA markets</li> <li>Availability of regulatory documents in only the local language makes documentation difficult</li> </ul>

### Source: IQVIA MedTech

MedTech in the MENA and GCC region

The medical technology sector in the Middle East and Africa (MEA) is expected to sustain its growth momentum in the long term fostered by the expansion of key players in the countries, government regulation supporting the operations of the MedTech companies in the region and faster pace of R&D developments by the regional players. In GCC region, the MedTech sector is witnessing continued traction as the healthcare providers are increasingly fostering technology as the major focus of their business strategy.



Source: Market Data Forecast

Saudi Arabia's digital health sector is the largest in the Gulf Cooperation Council (GCC) region, at about one billion U.S. dollars of revenue in 2024. Digitalization of healthcare services is facilitated through the integration of new technologies and increased personalization. The degree of digitalization varies across the GCC region. Saudi Arabia and UAE lead the GCC region in terms of adoption of technology in the medical sector.

### Estimated revenue of the digital health in GCC countries in 2024





Alike the global scenario, the MedTech sector in the GCC region was transformed with the onset of the COVID-19 pandemic. The pandemic has increased the adoption of molecular diagnostic devices and equipment, focussing on the power of sequencing-based diagnostic testing. Following the pandemic, key players in the GCC region are directing their efforts on improving their operational and business presence in the molecular diagnostic market via developing new and innovative technologies and strategic acquisitions of the emerging companies in the medical device sector.

### Developments in the MedTech industry post the COVID-19 pandemic

The UAE's health regulators have increased the adoption of new and smart medical technology to modernize their healthcare ecosystem after the pandemic.

Investments in medical technology has witnessed a steady surge after the crisis. UAE-based Vezeeta and Okadoc raised USD 50 million in February 2020. Also, Abu Dhabi's tech ecosystem, known as Hub 71, added 15 newer companies to their program, supporting the private and public MedTech sector.

Source: Duphat



In 2020, Dubai Health Authorities launched eight "smart" robots to sterilize government-run hospitals and clinics. This contributes to UAE's goal of making advancements in the medical device technology field.

In certain GCC countries, start-ups like Bahrain-based Doctri worked consistently for addressing problems by the pandemic. They provided free consultations in collaboration with the WHO, along with launching services across the GCC region.

For improving the MedTech industry within the GCC region, the government and regulators have improvised procurement, import processes and liberalized restrictions on Medical Technology. Various government initiatives taken by the GCC countries during the pandemic have a major impact on the current medical devices sector.

### Government initiatives supporting MedTech

Introduction of smart monitors and Al-associated Medical Technology in UAE to imporve the patient outcome

Introduction of innovative electronic platforms such as GHAD in Saudi Arabia that had replaced the existing medical device systems for listing, registration, and establishment of licensing.



Ease in Government quidelines related to Medical Technology

### Source: Duphat

The future of the GCC MedTech industry looks bright with continued digitization of healthcare services, increasing consumer demand for telehealth solutions, and relentless innovation by market players.

### Future of GCC MedTech industry



Continuous innovation due to rapidly evolving technology. The technological progress is expected to aid in seizing new opportunities, address evolving challenges, and drive sustainable growth in the digital health sector.



Adoption of wearable technologies among patients for preventive care

Launching social infrastructure projects in line with Saudi Vision 2030 to improve healthcare systems via privatization

Harnessing the power of Data Analytics, healthcare providers are expected to identify trends, predict disease outbreaks, and personalize treatment

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Collaborative partnerships among governments, healthcare providers, technology vendors, and regulatory bodies to develop interoperable solutions, share best practices, and overcome barriers to adoption.

# MedTech in Saudi Arabia

Saudi Arabia's MedTech sector is poised for continuous growth due to rising ubiquity of chronic diseases such as cancer and diabetes, increasing customers' preference for wearable devices and growing government healthcare expenses. In addition, the government of Saudi Arabia is spearheading digital health initiatives, channelling significant investments into healthcare IT and digital transformation.



Source: Market Research Future

Information technology has transformed the healthcare sector and sharing of medical data has opened a whole new dimension of opportunity for the industry in Saudi Arabia. The reluctance of people as well as medical institutions in sharing medical data due to privacy and security concerns and gaps in existing solutions to harness the potential of the medical data have been the key reasons behind the implementation of NPHIES (National Platform for Healthcare Information Exchange Services) in Saudi Arabia in 2020.



### **National Platform for Healthcare Information Exchange Services**



### Source: Brookings

Saudi Arabia's Medical Technology sector is expected to grow at a CAGR of 4.1% between 2022-27 and reach a market value of SAR 8.4 billion (USD 2.2 billion) by 2027.<sup>5</sup> Saudi Vision 2030 is anticipated to be the key driver of the Medical Technology industry growth. The key targets of Heath Sector Transformation program include improving geographical distribution of health services, expanding the use of digital health technologies and improving the quality of health services. Adoption of best practices and the introduction of high-level commodities are fuelling the medical device industry in KSA.

![](_page_8_Figure_13.jpeg)

### Saudi Arabia – An emerging hub for Medical Technology

### Saudi Vision 2030 initiatives for healthcare

![](_page_9_Figure_4.jpeg)

Source: Fitch, Omnia health

The Kingdom of Saudi Arabia espoused "Vision 2030" as a strategy for economic development and national growth. To fulfill this, the Kingdom launched a national transformation program (NTP) as outlined in "vision 2030" in June 2016. The health care transformation is one of the eight themes of the NTP's. Some of the major challenges the programme aims to address are the rates of avoidable injury and non-communicable disease that remain high by regional and international standards.

![](_page_9_Figure_7.jpeg)

### Source: Various

The business-friendly environment for medical sector has resulted in a wave of innovative homegrown start-ups in the Saudi Arabia. These startups are harnessing the power of AI to create innovative healthcare solutions that not only cater to the local population but also hold the potential to make a global impact.

### Healthcare startups in Saudi Arabia

![](_page_9_Picture_11.jpeg)

![](_page_9_Picture_12.jpeg)

![](_page_9_Picture_13.jpeg)

![](_page_9_Picture_14.jpeg)

Source: F6s

The Saudi Patient Safety Center to promote the patient safety concepts, support the healthcare practitioners, analyze data, publish reports, and propose legislation related to patient safe

![](_page_9_Picture_17.jpeg)

![](_page_9_Picture_18.jpeg)

The National Biotechnology Strategy will aid in advancement of vaccines, bio-manufacturing & localization, genomics, and plant optimization

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Saudi National Institute of Health (SNIH) aims to facilitate medical research and clinical trials at a national level and oversee and support all translational research and clinical trials

# Spotlight: "UDAWI"

Udawi Company is one of Riyadh Valley Company's investments, through fund investments from FLAT6LABS. Founded in 2020, Udawi is a digital healthcare platform headquartered in Saudi Arabia that offers healthcare services at subsidised cost. There is no subscription fee to join the Udawi platform.

![](_page_10_Picture_4.jpeg)

### Benefits of "UDAWI" platform

![](_page_10_Figure_6.jpeg)

### Source: UDAWI website

There are more than 2,500 health facilities, including hospitals, clinics and pharmacies linked to the Udawi platform. Payment for health services is made through the platform via the link received in text message to ensure that the discount is reflected in the prices.

### Working of "UDAWI" Platform

![](_page_10_Figure_10.jpeg)

# Conclusion

The long history of patient-centered innovation in the MedTech sector has improved the quality of healthcare services available to people around the world. The USD 42 billion R&D investment in MedTech during 2022 is evidence of the sector being prioritized despite the macroeconomic challenges. The MedTech sector has empowered the healthcare sector to embrace the latest technologies resulting in reduced cost and superior range of services to the patients.

A noteworthy stride in the MedTech sector is the integration of smart features and data analytics. Many Medical Technology now incorporate advanced data processing capabilities, delivering real-time insights, and assisting healthcare professionals in making informed decisions. By leveraging data collected by these devices, healthcare providers can offer personalised treatments and care plans tailored to individual patient needs and health conditions.

These technologies have also been increasingly employed to improve the quality of mental health services offered to the patients. Emotion-based algorithms and virtual assistants to deliver psychological support, information, and resources and diagnostic support screening tools, both self-guided and assisted, to gather data for psychological assessment have evolved in the field of counselling psychology.

The near future of healthcare services is poised for massive change, due to artificial intelligence. Al simplifies the lives of patients, medical professionals, and hospital administrators by carrying out those tasks that are typically done by humans, but in fewer time and at a fraction of the cost.

Powered by data and technological innovation, the proliferation of mobile apps, augmented reality and cloud computing, today's healthcare is human-powered health, driven by technological innovation. The integration of the technologies will undoubtedly continue to evolve, driven by ongoing advancements and the needs of a changing world. The medical sector is expected to increase collaboration that connects their people and their patients for seamless digital transformation in the future.

![](_page_11_Picture_0.jpeg)

![](_page_11_Figure_1.jpeg)

### Vision

To be the regional leader in knowledge-based investment and technology.

![](_page_11_Picture_4.jpeg)

### Mission

Riyadh Valley Company is a strategic investor, focused on leveraging the local capabilities, investing locally and globally in growth - stage businesses to create financial and strategic returns that will support the future of economic development in the Kingdom.

![](_page_11_Picture_7.jpeg)

Renewable energy& Sustainable Recourses Information & Communication Technology

The Core Focus Areas of RVC

Healthcare Investment

**Venture Capital Investments** 

### **Strategic Investments**

![](_page_11_Figure_10.jpeg)

### **Enriching Innovation Ecosystem**

Attract dist	inguished scientists a	nd consulta
Prepare stu	Idents for work experi	ence throug
Supporting	Scientific Research a	nd technolo
Enhance th	e environment to supp	port the kno

![](_page_11_Figure_13.jpeg)

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![](_page_11_Figure_16.jpeg)

FinTech

Education

Logistics and Trasportation

**Commercial Projects** 

**Residential Projects** 

Mixed-use Projects

ants

gh training

ogy industry

wledge economy

### **Knowledge Investment Portfolio**

![](_page_12_Figure_3.jpeg)

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### Strategic Investment Portfolio

![](_page_13_Picture_3.jpeg)

23

SPC سدير للندويرة

Sudair Pharma Company Project Research center and offices

![](_page_13_Picture_6.jpeg)

ELM Information Security Company Project Research & Innovation center

1910-00-0

Al-sorooh Al-Mubarakah Company Project Offices project

![](_page_13_Picture_11.jpeg)

Four Directions Company Project Office project

![](_page_13_Picture_14.jpeg)

محد المقارية MajdReaLEstate Majd Real Estate Company Project

Offices project

Laggo Liblic Derma Clinic Derma Clinic Company

(DAM)

Project

Healthcare project

![](_page_13_Picture_20.jpeg)

Derma Clinic Company Project Residential project

![](_page_13_Picture_22.jpeg)

City Lights Real Estate Company Project Mixed-use project

![](_page_13_Picture_24.jpeg)

RC

Qasr Alaaredh Company Project Building

![](_page_13_Picture_27.jpeg)

Sahat Al-Ardh Company Project Mixed-use project

SAHAT W

![](_page_13_Picture_29.jpeg)

![](_page_13_Picture_30.jpeg)

NMR Real Estate Company Project Mixed-use project

![](_page_13_Picture_32.jpeg)

Takween Altanmia Company Project

![](_page_13_Picture_34.jpeg)

![](_page_13_Picture_35.jpeg)

Four Directions Company Project Commercial project

![](_page_13_Picture_37.jpeg)

![](_page_13_Picture_38.jpeg)

The Esplanade Project Commercial project

![](_page_13_Picture_40.jpeg)

![](_page_13_Picture_41.jpeg)

Arrowad Education Company Project

Educational project

![](_page_13_Picture_44.jpeg)

![](_page_13_Picture_45.jpeg)

Obeikan Company Project Commerial project 24

![](_page_13_Picture_47.jpeg)

![](_page_13_Picture_48.jpeg)

### Dur Alkuttab Company Project Educational project

![](_page_13_Picture_50.jpeg)

![](_page_13_Picture_51.jpeg)

U WALK Project Commercial project

![](_page_13_Picture_53.jpeg)

![](_page_13_Picture_54.jpeg)

Almaarefa University Project

Buliding project

![](_page_13_Picture_57.jpeg)

![](_page_13_Picture_58.jpeg)

Office building project