



QATAR'S ARTIFICIAL INTELLIGENCE SECTOR EXECUTIVE SUMMARY

SME INDUSTRY SERIES 2024

As part of Qatar's efforts to strengthen the private sector and advance the country's entrepreneurship, SME, and innovation ecosystems in line with its National Vision 2030, Qatar Development Bank (QDB) continues to play a central role as a growth partner for entrepreneurs—supporting them from ideation to execution.

Through its SME Industry Series, QDB publishes sector-focused reports that provide Qatari entrepreneurs with valuable insights such as market demand analysis, competitive landscape assessments, and information on existing market players, enabling them to make informed decisions regarding market entry and business development.

This summary presents an overview of Qatar's Artificial Intelligence (AI) sector, covering technologies which drive innovation, enhance efficiency, and boost productivity across industries, particularly benefiting SMEs in Qatar. It provides key market insights, emerging trends, an overview of the local ecosystem, and highlights potential opportunities for SMEs to adapt to market changes and strengthen their competitive edge in Qatar's evolving economy.

The detailed report, on which this summary is based, is available on the QDB website.

AI is a powerful tool that is advancing rapidly. It is capable of performing tasks that have traditionally required human intelligence, such as decision-making, problem-solving and language comprehension

AI MARKET SEGMENTATION

Machine Learning

- Supervised Learning
- Unsupervised Learning
- Reinforcement Learning

Natural Language Processing

- Speech Recognition
- Language Translation
- Sentiment Analysis

Autonomous & Sensor Technology

- Autonomous Vehicles
- Autonomous Process Systems
- Autonomous Health Systems

Robotics & Automation

- Autonomous Mobile Robots
- Automated Guided Vehicles
- Articulated Robots (Robotic Arms)
- Hybrid Robots

Computer Vision

























- Image Classification
- Object Detection
- Facial Recognition

Generative AI

- Generative Adversarial Networks
- Transformers
- Variational Autoencoders
- Large Language Models
- Recurrent Neural Networks

This report segments the AI market based on six key technologies.

LEADING FIRMS

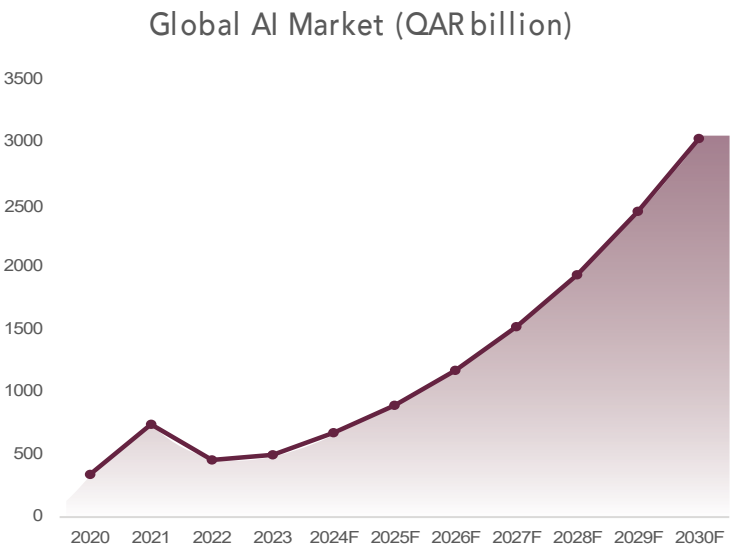
Machine Learning					
Natural Language Processing					
Computer Vision					
Robotics & Automation					
Autonomous & Sensor Technology					
Generative AI					

*Please note the list of entities provided is not exhaustive

This report does not cover hardware aspects related to robotics, Enterprise Resource Planning (ERP) software like Systems, Applications & Products in Data Processing (SAP) or web development services for designing websites.

The global AI market is projected to reach QAR 3,026 billion by 2030, growing faster than Internet-of-Things (IoT) and public cloud sectors

GLOBAL AI MARKET



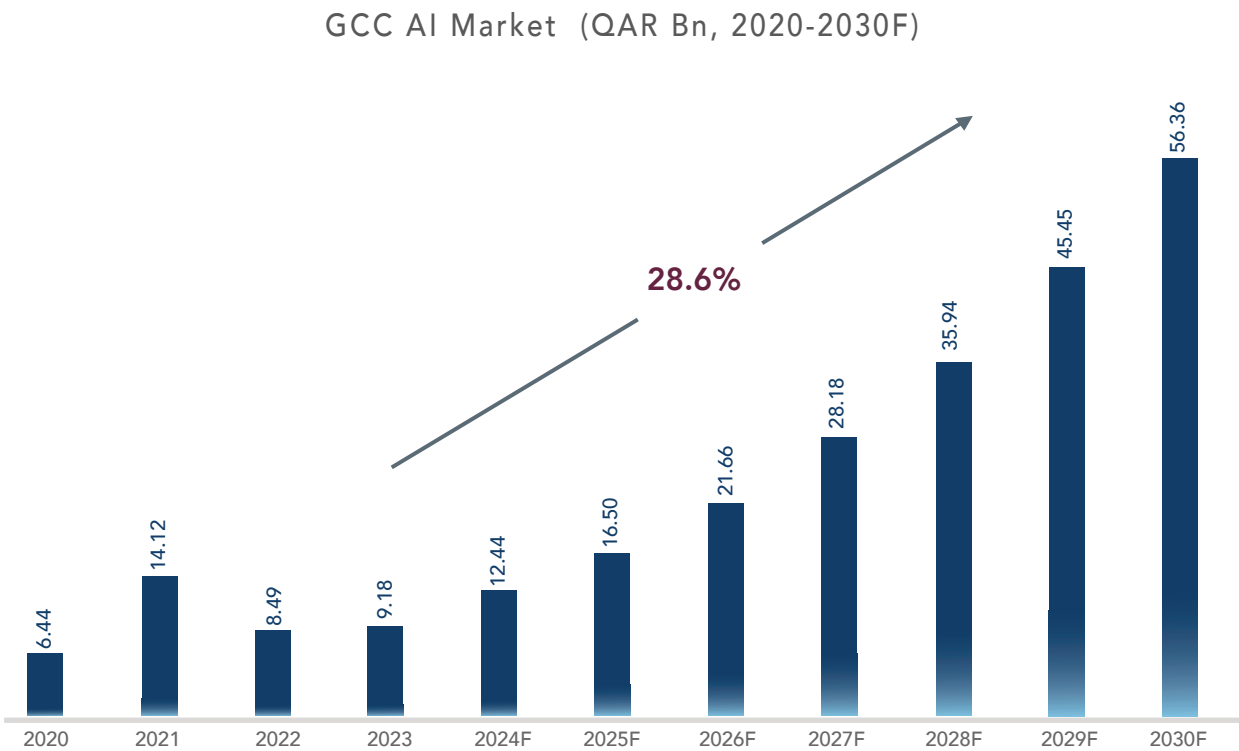
The global AI market is expected to grow with a **CAGR of ~28.5%** from 2024 to 2030

With this growth, the Global AI market is expected to reach over **QAR 3,000 Bn by 2030**

Source: Statista

In line with global trends, the GCC AI market is expected to experience significant growth

GCC'S AI MARKET GROWTH









The GCC market is expected to grow at a **CAGR of 28.6%** to **~56 Bn by 2030**

This surge is driven by increasing AI adoption across sectors like financial services, healthcare, and smart cities

Source: Statista

GCC member states are progressing in their AI readiness, as indicated by Oxford Insights 2023 Global AI Readiness Index

GCC'S AI STRATEGIC DIRECTION

GCC State	National AI Strategy	Key Government Body	Notable Education Initiative	Global AI Readiness Index (2023)
 UAE	National Strategy for Artificial Intelligence	UAE Artificial Intelligence, Digital Economy and Remote Work Applications Office	Mohamed bin Zayed University of Artificial Intelligence (MBZUAI)	70.42
 KSA	National Strategy for Data & AI (NSDAI)	Saudi Data & AI Authority (SDAIA)	King Abdulaziz University of Science of Technology (KAUST)	67.04
 Qatar	Qatar's National AI Strategy (2019)	Qatar's AI Committee (Led by MCIT)	Hamad Bin Khalifa University (HBKU)	63.59
 Oman	The National Program For AI And Advanced Technologies	Ministry of Transport, Communications and Information Technology	Sultan Qaboos University	58.94
 Bahrain	N/A	Information & eGovernment Authority	Nasser Artificial Intelligence Research and Development Centre (NAIRDC)	56.13
 Kuwait	Kuwait's National AI Strategy	Central Agency for Information Technology (CAIT)	Kuwait College of Science & Technology (KCST)	49.86

AI could generate up to **QAR 546** billion

Or approximately **7%** of the GCC's combined GDP

LOCAL AI ECOSYSTEM

Source: Company Websites
*Please note the list of entities provided is not exhaustive.

Sector Developers

This group formulates policies that establish industry standards, ensure regulatory compliance, and facilitate licensing platforms. Academia drives research and educational programs to nurture talent and develop a skilled workforce. Entities like the Qatar Research Development and Innovation (QRDI) Council and HBKU's Qatar Computing Research Institute (QCRI) contribute to the research, development, and application of AI in Qatar. Universities provide academic programs, and research opportunities in AI, machine learning, and big data analytics.

Sector Enablers

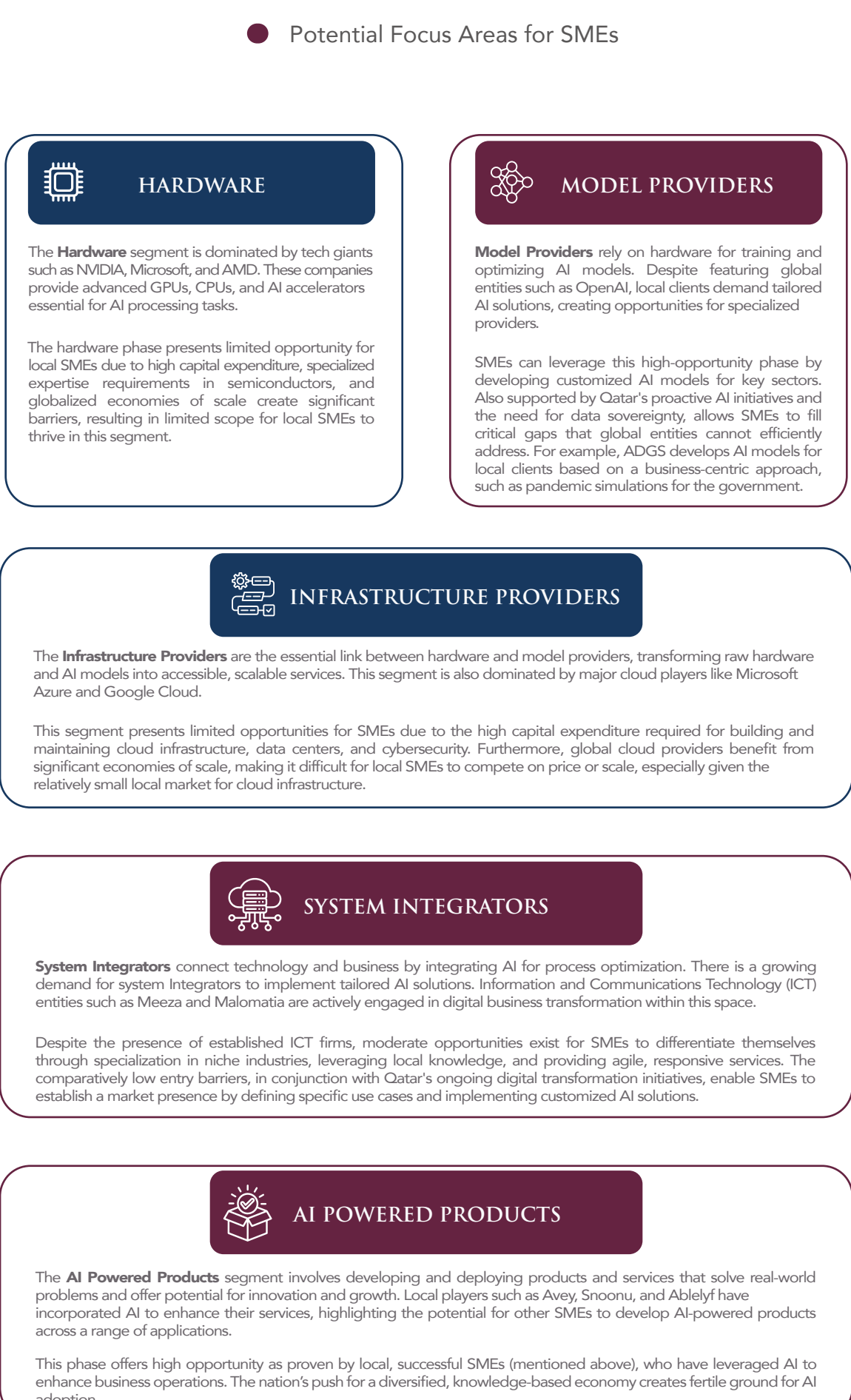
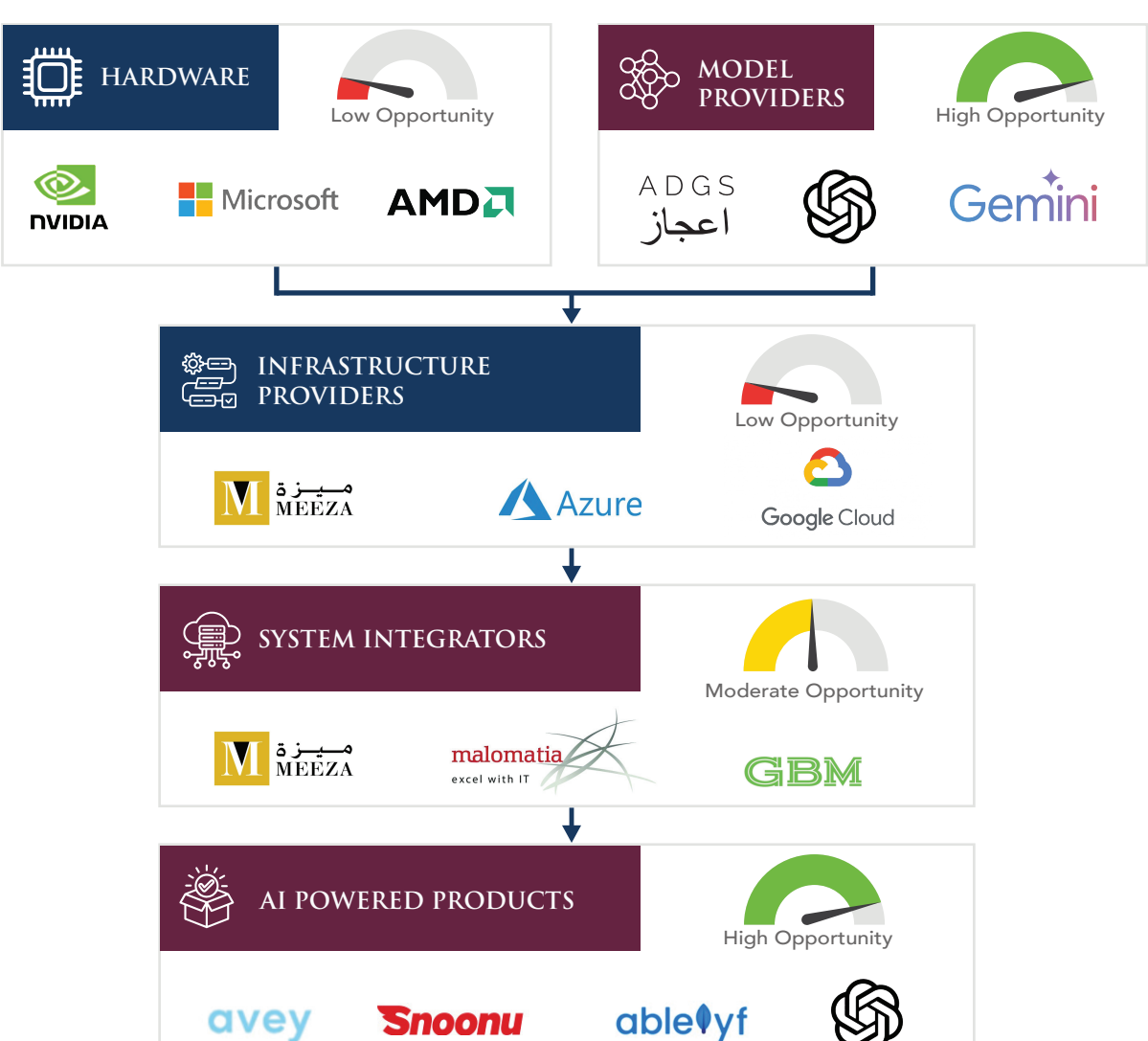
Sector Enablers provide the infrastructure, talent development and incubation support to foster AI development in the region. Leading technology entities such as Microsoft and Google offer infrastructure and AI technologies across multiple industries. Talent development initiatives, such as those operated by Elev8, focus on equipping the workforce with necessary skills. Entities like the Qatar Business Incubation Centre (QBIC) and TASMU provide incubation services and workshops. Invest Qatar and QDB facilitate access to funding by providing support to startups and SMEs, enabling them to pursue innovative AI ventures.

Delivery Stakeholders

These entities play a key role in the application and commercialization of AI technologies. They leverage AI in sectors such as healthcare, e-commerce, and Information Technology (IT) services, enhancing operational efficiency, customer experience, and well-being. AI product developers create tailored AI solutions like Murshid and Kanari.ai, monetizing via SaaS or sales, while AI integration providers like Malomatia offer custom AI services for businesses, charging project or consulting fees. Local e-commerce player, Snoonu, has used AI to optimize its logistics system.

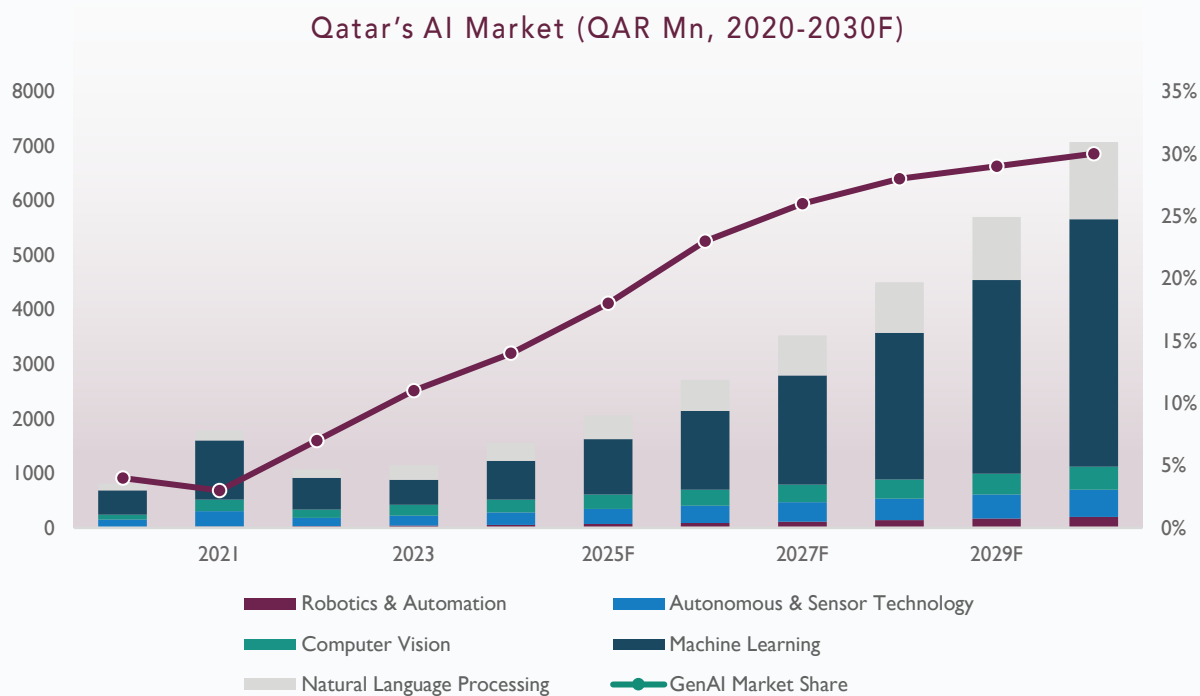
Qatar's AI sector value chain encompasses a series of interconnected stages, ranging from foundational hardware and models to AI powered products

QATAR'S AI VALUE CHAIN



Despite being in its nascent stage, Qatar's AI market is set for success, driven by strategic initiatives and key investments

LOCAL AI MARKET



In 2024, Qatar's AI market is expected to reach **QAR 1.55 billion**, growing at a CAGR of **~28.66%** from 2024 to 2030

Machine Learning dominates the local AI market, offering SMEs tools for analytics, insights, and optimization.

Generative AI will rise after 2026, focusing on content creation and personalized marketing

Source: Statista, NDS3, National AI Strategy, Digital Agenda 2030

MCIT has spearheaded the development of the AI sector. The government plans to launch a comprehensive AI strategy to boost its AI capabilities. This includes building local talent and attracting global experts to accelerate sector growth.

SUPPORT FOR SMES IN QATAR



Financial Support

In addition to retail banking institutions, QDB offers support through technology financing, including "Minha for Digital Transformation" for emerging firms and "Technology and Digitalization Solution Financing" for mature set ups. Furthermore, QSTP provides funding for innovative digital projects, depending on their specific nature and development stage.



Advisory & Mentorship Services

The entities listed under sector enablers in Qatar's Local AI Ecosystem provide support to SMEs. Additionally, QDB and its subsidiaries, such as QBIC, offer comprehensive assistance to SMEs throughout their development journey in enabling sectors. QSTP and MCIT also support SMEs in the AI space, including prototype development and mentorship through QSTP's XLR8 program, as well as incubation via MCIT's Digital Incubation Center.



Infrastructure & Technological Resources

The entities listed under Technology Providers in Qatar's Local AI Ecosystem highlight key contributors to local infrastructure and resources. Additionally, Qatar supports AI through initiatives such as the Ooredoo-NVIDIA AI collaboration, QSTP's advanced labs for AI development, Microsoft's data center region, and Google's cloud region, in partnership with MCIT and the Qatar Free Zones Authority (QFZA).



Education, Training & Networking

Local institutions play a key role in AI training and research, with QCRI at HBKU and Qatar University leading initiatives in AI research. The Ministry of Education plans to integrate AI into the national education system, while the HBKU-Huawei AI ICT Hub supports growth and innovation among SMEs. Networking opportunities in the market are facilitated by events such as the Qatar Web Summit, and the MCIT National Skilling Program focuses on advancing digital upskilling initiatives.

Source: Primary Research, Entity Websites

AI's disruption potential in Qatar offers SMEs the chance to identify new opportunities. By tapping into transformative, promising, and emerging applications, particularly in Healthcare and Financial Services

AI DISRUPTION AND SME OPPORTUNITY IDENTIFICATION

Transformative Potential



Healthcare



Financial Services

Promising Potential



Manufacturing



E-commerce



Technology, Media and Telecommunications

Emerging Potential



Automotive



Energy



Transportation

A SWOT analysis of Qatar's AI sector highlights strengths in infrastructure, government support, and talent, along with challenges and growth opportunities

SWOT ANALYSIS

Strengths

The local AI sector benefits from an established technological infrastructure and proactive government support. The government's QAR 9 billion investment in AI and partnerships with companies like Microsoft can drive innovation and integration.



Weaknesses

Qatar's AI sector faces challenges like reliance on imported technology and limited pool of skilled professionals in AI implementation, highlighting the need for local talent development and retention.

Threats

Threats include lagging behind global and regional AI leaders due to capability gaps. Additionally, the presence of these players and the remote nature of AI services pose challenges for local companies.




Opportunities

Qatar, with 99% internet penetration and 2.7 million users, offers an AI-conducive environment. Opportunities include developing tailored AI solutions in transformative sectors like healthcare and financial services, investing in local talent, and leveraging government support and initiatives to foster AI research, innovation, and entrepreneurship.


As Qatar's AI sector is gaining momentum, it offers potential opportunities for SMEs to establish a presence in this emerging market. The following recommendations aim to support SMEs to engage effectively with Qatar's AI market

STRATEGIC INVESTMENTS




Qatar has positioned itself as an important participant in the MENA and global AI landscapes, developing AI solutions that align with its long-term strategic objectives. The adoption of AI across sectors like healthcare, financial services, and transportation marks a significant transformation in the country's technological infrastructure.

GOVERNMENT SUPPORT




The Government is heavily investing in AI to harness its transformative potential. At the Qatar Economic Forum, the Government announced a QAR 9 billion (USD 2.47 billion) incentive package aimed at boosting investments in technology, innovation, and AI, driving Qatar's digital transformation.

SMART CITY INITIATIVES



Qatar is advancing its Smart City initiatives with AI to drive innovation and efficiency. The Google Cloud region in Doha boosts AI capabilities, while the Municipality's Smart Cities Solutions project uses AI to improve infrastructure. The "Smarter Qatar" report and discussions at the Katara Tech Forum highlight AI's role in digital transformation and urban development, positioning Qatar as a leader in smart city advancements.

ARABIC LANGUAGE FOCUS



As an Arabic-speaking nation, Qatar prioritizes AI for Arabic language processing, leveraging its extensive Arabic content for AI model development. Initiatives like QCRI's Arabic speech-to-text tools, the Farasa suite, and the "Fanar" project are enhancing linguistic models and preserving Arab identity in AI applications, underscoring Qatar's strategic focus on this area.

KEY RECOMMENDATIONS FOR SMES

1

Leverage Government Support

SMEs can benefit from government support through advisory services, training programs, government-led AI initiatives, and networking events. Additionally, aligning business models with Qatar's National AI Strategy, NDS3 and the DA 2030 can support SMEs grow and sustain within the AI landscape.

2

Target High-Potential Sectors

SMEs should target industries with high AI transformation potential, such as healthcare and financial services. Developing AI solutions that address specific challenges within these sectors and collaborating with established players can provide valuable industry insights and facilitate market entry. Additionally, addressing local market needs by developing Arabic language AI capabilities and culturally relevant solutions ensures relevance and acceptance within Qatar.

3

Invest in Talent Retention

While Qatar has taken steps to cultivate a skilled workforce, the nascent state of the local sector presents opportunities for improvement in workforce retention. SMEs should partner with Qatari academic institutions to facilitate direct talent acquisition, offer internships and training programs specifically designed to cultivate local AI expertise, and increase retention of skilled professionals in the sector.

4

Adopt Ethical AI Practices

Prioritizing ethical AI practices by adhering to Qatar's ethical AI guidelines as published by MCIT, implementing robust data protection and privacy measures, and staying informed about evolving regulatory frameworks is essential for building trust and ensuring compliance. Additionally, fostering transparency in AI systems by acknowledging potential biases in AI models and engaging with stakeholders on their ethical implications will further strengthen public confidence in these technologies.

5

Build Partnerships and Innovate

Building strategic partnerships can enhance an SME's capabilities and market reach. Collaborating with larger tech companies and research institutions, joining AI-focused business networks and associations, and engaging in knowledge-sharing initiatives with other SMEs can create synergistic opportunities and drive innovation. Moreover, embracing continuous innovation by investing in ongoing research and development, regularly updating AI models and technologies, and quickly adapting to emerging trends will help SMEs maintain a competitive edge.

By implementing these strategic recommendations, SMEs can effectively engage with Qatar's AI market, build sustainable businesses, and contribute to the country's digital transformation.