



Issue 2

June 2017

Qatar National Vision 2030

Building Qatar's knowledge-economy

Qatar-UK Business & Investment Forum

Reaffirming Qatar-UK ties

Qatar Charity UK

Empowering British communities

Embassy of the State of Qatar
in the United Kingdom





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Foreword

A few words from the Ambassador

I am delighted to present the second edition of the Q Magazine, showcasing Qatar's ambitious 2030 National Vision (QNV 2030) to transform and diversify into a knowledge-based economy.

Launched nearly ten years ago, QNV 2030 sets a roadmap for our future – one that puts social, human, environmental and economic development at the forefront of our growth. At the core of this plan is our goal to create a society in Qatar that is inclusive and benefits all citizens and residents. But we could not have set out on such an important journey without the help of our international allies – such as Britain.

The UK has always played a critical role in developing Qatar's economy. Now they are helping us transform it into one based on knowledge and innovation. In March this year, during the Qatar-UK Business & Investment Forum, UK Prime Minister Theresa May solidified this historic relationship with a new Memorandum of Understanding between the State of Qatar and the UK Government.

The Forum itself was a testament to both countries' enduring commitment to one another's future progress, and I was honoured to see our National Vision at the forefront of many of the discussions throughout the two-day event.

In this spirit, the second edition of Q Magazine will explore how Qatar – and its partners – are making our National Vision a reality. As we saw at the Qatar-UK Forum, achieving our Vision will require more than just economic investment. It is about fostering and exchanging knowledge and ideas.

This idea of human and social exchange – particularly between Qatar and the UK – is a common theme among many of the stories. They take in English Premier League club Tottenham Hotspur's partnership with Aspetar, Qatar's FIFA-accredited Medical Centre of Excellence, and Qatar National Research Fund and the UK Government's work to bring together hundreds of Qatari and UK researchers.

We are incredibly proud of the progress we have already made towards achieving our 2030 Vision and I'm delighted to share just some of these stories with you here.

Yousef bin Ali Al-Khater,

Ambassador of the State of Qatar to the United Kingdom

Twitter @Amb_AlKhater

Qatar At A Glance:

From the Discovery of Oil Through to Today's Diversifying Economy



1939

Qatar's oil reserves discovered



1950s

Qatar's infrastructure expanded and modernised with oil revenues



1971

World's largest gas field discovered in Qatar



1977

Qatar University founded with four colleges dedicated to Education; Humanities & Social Sciences; Sharia Law & Islamic Studies; and Science

1995

Qatar Foundation for Education, Science and Community Development founded by His Highness the Father Emir and Her Highness Sheikha Moza bint Nasser

1998

Virginia Commonwealth University School of the Arts becomes the first international educational institution to open its doors in Education City. It was soon followed by Cornell Medical College, Texas A&M University, HEC Paris, University College London, and many others

2006

Qatar hosts the 15th edition of the Asian Games, welcoming a record 45 participating nations and over 9,500 competitors to Doha

2010

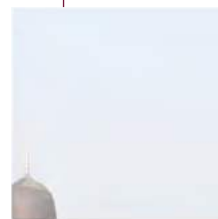
Qatar wins the bid to host the 2022 World Cup, in line with the country's vision to become a global hub for sports, science, and technology

2013

His Highness the Father Emir hands power to his son, Sheikh Tamim bin Hamad Al-Thani, who becomes the eighth Emir of Qatar

2017

Qatar prepares to launch its National Development Strategy 2017-2022, seeking to empower Qataris to participate in a knowledge-based economy



2005

Qatar Investment Authority founded to manage oil and gas surpluses and minimise risk from Qatar's reliance on energy revenues

Qatar Financial Centre founded to offer a world-leading environment for businesses across a wide range of sectors to develop and expand

2008

Qatar launches its National Vision 2030 aiming to transform Qatar into an advanced society capable of achieving sustainable development

2011

Qatar launches its National Development Strategy 2011-2016, deepening the country's commitment to increasing the well-being of all citizens through education, healthcare, social protection, and opportunity

2014

Qatar wins bid to host the 2019 IAAF World Championships as the country's status as a global hub for sports is further solidified



| *Doha*

Qatar National Vision 2030:

A Roadmap for Qatar's Future

Few countries have experienced such a dramatic transformation over the past century as Qatar. Once an unknown pearl on the Arabian Peninsula, Qatar has undergone a period of rapid growth and development. Today, Qatar is at a crossroads. Its substantial wealth presents immense opportunities, and also equips it to address some of the future's most pressing challenges.

Qatar has been blessed with a wealth of natural resources, but we have long recognised the need to build a diverse and sustainable economy, one that is based on knowledge, not carbon fuels. That is why, in October 2008, we launched our Qatar National Vision 2030 (QNV 2030).

QNV 2030's aim is simple: to “transform Qatar into an advanced country by 2030, capable of sustaining its own development and providing for a high standard of living for all its people for generations to come.”

It seeks to build a bridge between the present and the future, and provide a roadmap for successful and sustainable development.

Four pillars underpin this vision: human, social, economic, and environmental.

Human: Qatar recognises that its future success will depend on its citizens. That is why Qatar is establishing modern, world-class education, and health systems. These investments aim to unlock the potential of the next generation of Qatari men and women so they have the skills and knowledge they will need to prosper in the century ahead.

Social: Qatar's vision is to build a safe, stable, and more equal society. The State will promote tolerance, openness, and humanitarianism, celebrate its national and artistic heritage, and will also seek to empower women to participate fully in the political and economic spheres. At the global level, Qatar will seek to increase international cooperation, and work with its allies to celebrate and enhance religious and cultural exchange and coexistence.

Economic: Qatar's aims are threefold. First, it will ensure sound economic management to create an attractive business climate. Second, it will ensure that it responsibly exploits its hydrocarbon resources, so that “future generations inherit ample means to meet their aspirations.” Third, Qatar will spearhead a transition towards a knowledge-based economy to remain competitive for generations to come.

Environmental: Finally, Qatar seeks to strike a balance between meeting its development needs and protecting the environment. To do this, the State will build institutions and a legal system that will preserve and protect the environment. This will be underpinned by sustainable policies for urban and infrastructure development.

Qatar's national development plan is more than just a vision. It is the roadmap to guide the country towards a prosperous and sustainable future.

القطري

QATAR - UK BUSINESS
& INVESTMENT FORUM
قطر و المملكة
للأعمال والإستثمار

لندن - LONDON

27th March 2017 - ٢٠١٧ مارس



QATAR - UK BUSINESS
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منتدى قطر و المملكة
المتحدة للأعمال والإستثمار

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Qatar-UK

Business & Investment Forum



| *Qatar-UK Business & Investment Forum*

International trade and investment form a key part of Qatar's future growth and diversification, and the UK is one of Qatar's most valued global economic partners. This is why in March 2017, the State of Qatar and the UK's newly founded Department of International Trade hosted the Qatar-UK Business & Investment Forum in London and Birmingham.

The Forum highlighted the strong ties between the two countries and also showcased new opportunities in the bilateral relationship. Qatar's

2030 National Vision was a pillar throughout the event, with both UK and Qatari officials emphasising the country's ambitious development goals.

Speaking about the country's long-term vision, His Excellency the Prime Minister Sheikh Abdullah Bin Nasser Al-Thani stated that "Qatar is going through an historic era in its quest to achieve sustainable development," and that "this quest to transform into a knowledge-based economy requires a remarkable level of expertise in

the fields of education, research and training, in which the UK is a pioneer." The Forum explored areas for collaboration between the two countries as Qatar progresses towards its 2030 Vision, and resulted in a new Memorandum of Understanding between the UK Government and the State of Qatar, affirming Britain's pledge to support Qatar's ambitious goals.

Speaking about the MoU, UK Prime Minister Theresa May remarked that it would deepen "co-operation between our governments and our

businesses across a wide range of vital areas including education and healthcare, science, research and innovation, tourism and culture, transport, energy, financial services and the development of small businesses.”

As a signal of its continued commitment to the UK and its vital role as a long-term partner, Qatar pledged a £5 billion increase in its investments in Great Britain over the next three to five years. The announcement came shortly before the UK triggered Article 50 and officially began the process for Britain to exit the European Union. Speaking less than 24 hours before this historic moment, UK Prime Minister Theresa May referred to the Forum as a “prestigious conference which comes on the eve of one of the most significant moments that the United Kingdom has faced for many years” and stated that Qatar “will play a significant role in shaping a brighter future for Britain.”

The Forum reaffirmed both the UK and Qatar’s long-term commitment to deepening bilateral relations and trade ties as they each work to transform their economies for the future. In his closing speech, UK Secretary of State for International Trade Liam Fox called the event a “spectacular success,” and highlighted the “solid” and “dependable” nature of this partnership.

The State of Qatar opened the conference in London, showcasing the commercial and investment opportunities for UK businesses in Qatar as it continues to diversify its economy, while the UK Department for International Trade hosted the final day in Birmingham, highlighting business and investment opportunities throughout the entire country.

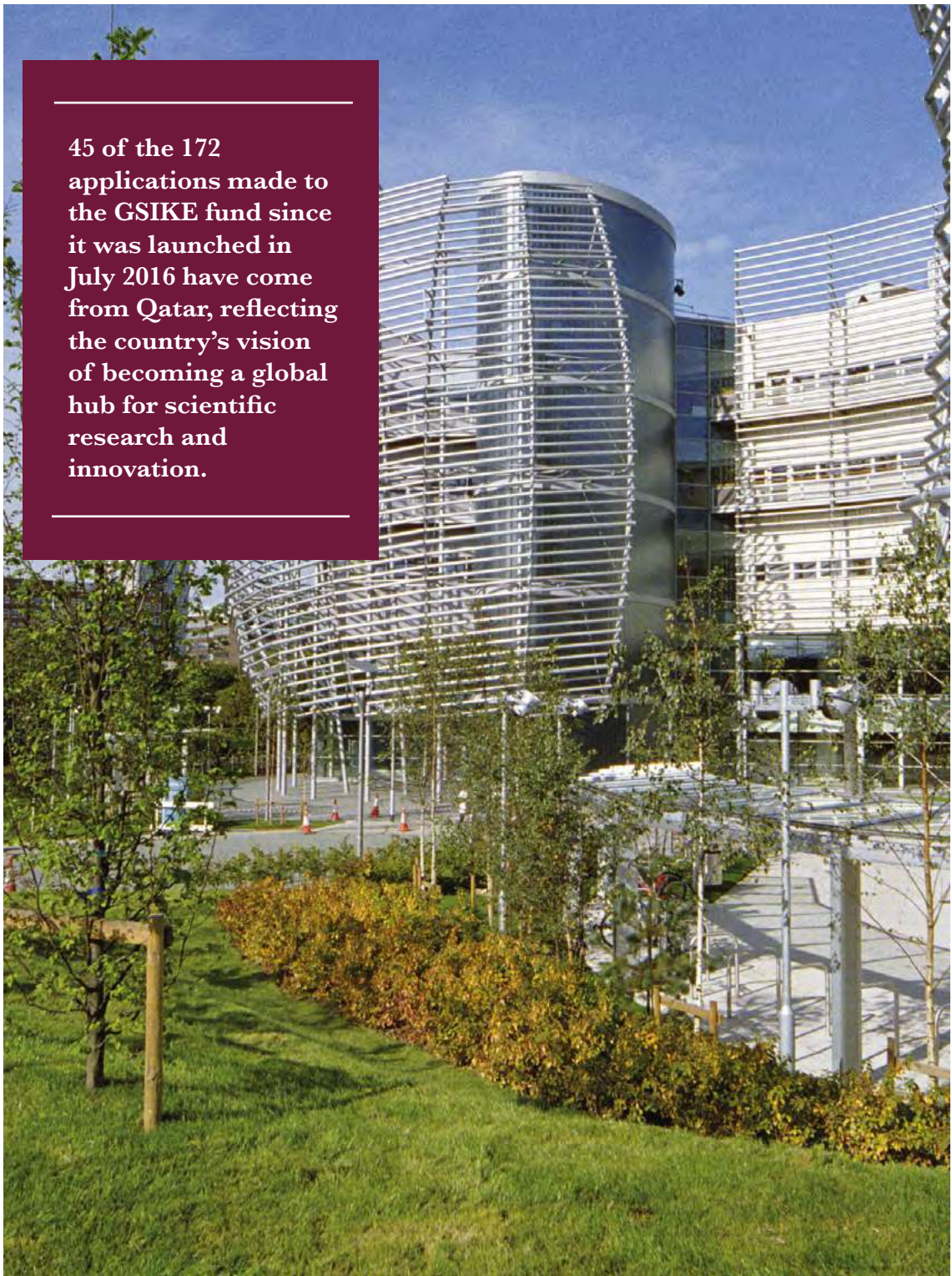
With panels ranging from the future of the oil and gas industry to infrastructure and regeneration, the Forum was a testament to both countries’ commitment to strengthening economic relations for the long-term future.

The forum boasted the largest ever delegation from Doha, and included speeches on both days from His Excellency the Prime Minister of Qatar Sheikh Abdullah bin Nasser bin Khalifa Al-Thani. Other attendees from the Qatar delegation included Minister of Finance, His Excellency Ali Shareef Al-Emadi; Minister of Economy and Commerce, His Excellency Sheikh Ahmed bin Jassim bin Mohammed Al-Thani; Minister for Energy and Industry, Dr Mohammed Saleh Abdulla Al-Sada; CEO of Qatar Investment Authority, His Excellency Sheikh Abdulla bin Mohammed bin Saud Al-Thani; and CEO of Qatar Airways, His Excellency Akbar Al-Bakr.

| UK Prime Minister Theresa May at the Qatar-UK Business & Investment Forum



45 of the 172 applications made to the GSIKE fund since it was launched in July 2016 have come from Qatar, reflecting the country's vision of becoming a global hub for scientific research and innovation.



| *Research facilities at Newcastle University*

Qatar University and Newcastle University Join Forces on Renewable Energy Research

UK and Qatari scientists will soon be working together on a cutting-edge research project on renewable energy. This follows the award of a £400,000 grant from the UK's Gulf Science, Innovation and Knowledge Economy Programme (GSIKE).

Bringing together leading researchers from Qatar University and the University of Newcastle in northeast England, the project aims to better understand the combustion processes for the renewable energy resource, biogas. Obtained from landfill, animal and human bio-waste, this energy source offers huge potential for electricity generation and the automotive industry.

The Qatar-Newcastle project is just one example of how the UK and Qatar are joining forces to find solutions to shared global challenges.

For His Excellency Ajay Sharma, UK Ambassador to the State of Qatar since November 2015, "research and development is a key

element of the UK's relationship with Qatar and one which we want to develop further." Mr Sharma also sees great potential for cooperation in other research fields, for example, pairing Qatar's energy expertise with the UK's world-leading supercomputer modelling.

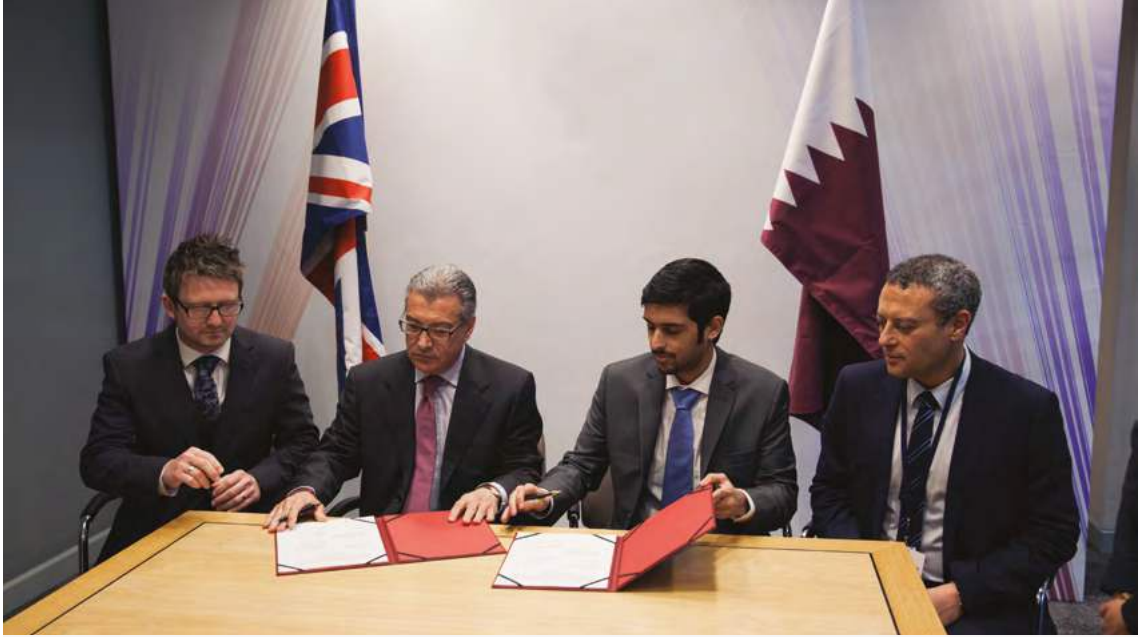
In fact, research and development is one of the areas identified in the

Memorandum of Understanding signed by the UK and Qatar's Prime Ministers at the Qatar-UK Business & Investment Forum in March this year.

By working together and building long-term partnerships, the UK and Qatar can build the foundations for decades of collaboration and discovery.



| Newcastle University



| Signature of Qatar-UK Memorandum of Understanding

Qatar and the UK: *A Deep Scientific Connection*

Science and innovation have a huge role to play in both the Qatar and UK economies. It is no surprise then that both countries are seeking to find new areas for cooperation across a range of research fields.

According to the UK government-backed Science and Innovation Network (SIN), Qatar, one of thirty countries with which SIN works, is a leader in terms of scientific and innovative ambition. Qatar's research priorities are managed by the Qatar National Research Fund (QNRF), which oversees a national programme to support the country's international research engagement.

Over the past 10 years, QNRF has distributed over £600 million

to support partnerships around the world. In the UK alone, more than 130 joint projects with UK universities have been awarded grants by QNRF, with each individual grant amounting to around £725,000 over three years.

While the focus of these projects varies, QNRF has sought to drive research and innovation in the fields of energy, environment, health, social sciences, and cyber-security.

One of the most successful of these joint projects is the Carbonates and Carbon Storage Centre, supported by Qatar Petroleum, Shell, and Qatar Science and Technology Park. The project aims to conduct pioneering research to better understand carbonate reservoirs in

Qatar and support the deployment of clean carbon capture technology. Based in the UK, the project is currently Imperial College London's largest overseas research investment.

Both Qatar and the UK are also seeking new opportunities to foster knowledge-sharing and exchange. Throughout 2016, QNRF and the UK Government co-funded a series of workshops to bring together hundreds of Qatari researchers with their UK counterparts. Each workshop focused on a different topic in line with Qatar's national research priorities, including connected healthcare, big data management, and entrepreneurship.

Tottenham Hotspur and Aspetar Partnership



| Tottenham Hotspur memorabilia

In September 2016, English Premier League club Tottenham Hotspur signed a partnership agreement with Qatar's FIFA-accredited Medical Centre of Excellence, Aspetar. The partnership gives the team priority access to the hospital's advanced sports medicine services and facilities.

Medical screening, research, athlete rehabilitation, and orthopaedic surgery will all be on offer to the north London team. The club will also collaborate with Aspetar on areas including athlete performance and nutrition.

Dr Shabaaz Mughal, Tottenham's Head of Medical and Sports Science, foresees a rewarding partnership that will ensure Tottenham players can perform at optimal level: "We are always examining ways we can enhance our players' health and performance in order to ensure they realise their full potential on the pitch and this partnership can only help us further in achieving this."

Aspetar is the first specialised Orthopaedic and Sports Medicine Hospital in the Gulf region and it services the needs of sports clubs and federations throughout the State of Qatar. It also has a formal relationship with French football club Paris Saint-Germain and following the partnership with Tottenham, the hospital is now looking to establish an exclusive agreement with one club in every top European league.



| Qatar Charity project in Syria



قطر الخيرية
QATAR CHARITY
UNITED KINGDOM

Qatar Charity UK

Qatar Charity is Qatar's largest NGO and focuses its work on humanitarian and development programmes to fight global poverty – regardless of faith, race, gender, or political beliefs. Since 1992, Qatar Charity has empowered communities across the world to shape their own future, and now, Qatar Charity UK is doing the same in Britain.

Qatar Charity's UK branch, QCUK, works to support and empower the most disadvantaged people in the UK and continental Europe through social and economic advancement. To achieve this, it has set itself the ambitious goal of becoming the main charitable partner for businesses in Britain. QCUK provides investors and companies a platform to increase the effectiveness of their corporate social responsibility activities and philanthropic contributions.

In light of the ongoing Syrian conflict, QCUK has worked closely with British organisations to provide holistic support packages to refugees resettling in the UK. In Birmingham, QCUK has supported Syrian refugees by providing job assistance, English language classes, trauma counselling, and economic support.

QCUK has also been working with the Refugee Council, one of Britain's leading refugee charities, to support 195 Syrian children and families in the UK. Their joint "New Neighbours Programme" provides English and maths classes, professional development workshops, and therapeutic support to Syrian refugees in the UK.

Looking beyond refugee resettlement, QCUK views education as the key to a better future. By launching the "Educational Empowerment Programme," QCUK supports young people from disadvantaged backgrounds, and follows them throughout their education – ensuring they have the support needed to succeed.

QCUK represents yet another platform for Qatari-British collaboration, and one where both countries can work together to empower communities in the UK, and around the globe.

From Shell Centre to Southbank Place

Shell Centre occupies one of the most desirable addresses in London. Located on the banks of the Thames opposite the Houses of Parliament and Westminster, and adjacent to the London Eye, it is perhaps one of the most iconic developments in the capital.

Built between 1957 and 1962, Shell Centre houses the central London headquarters of Royal Dutch Shell. Over time, the estate has occupied a symbolic place in the city's history due to its impressive proportions, and the tradition of displaying a countdown clock for the capital's New Year's Eve celebrations.

In 2011, Qatari Diar and the Canary Wharf Group (in which Qatar has a 28% stake) won the rights to redevelop the 134,000 m² area for a record-breaking £300 million on a 999-year lease.

A year later, the two partners announced their plans to redevelop the area, now named "Southbank Place," to build 790 flats, over 46,000 m² of office space, and more than 7,000 m² of commercial area in line with the most stringent standards of sustainable development. Various new public spaces will also be built in the area.

The project, as described by Qatari Diar CEO Mohammed Bin Ali Al-Hedfa, will serve to "enhance an area in need of a renaissance" and place the "South Bank at its rightful place, at the capital's heart."

This ambitious project will transform one of London's flagship developments into a modern centre, at the crossroads of some of the city's most important transport hubs and tourist attractions.



| Southbank Place on the River Thames, London





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Challenge 22: The Supreme Committee’s Annual Innovation Award



XLR8

Held biannually, XLR8 is Qatar Science & Technology Park's signature accelerator programme, designed to provide aspiring regional entrepreneurs with intensive training, coaching, and mentorship.

Qatar Science & Technology Park

“XLR8”

The XLR8 programme supports budding entrepreneurs to adapt their idea or product to the market, capture interest from potential customers, and pitch to investors for support.

Over three months, Qatar Science & Technology Park’s (QSTP) network of mentors and coaches guide up to 30 teams of five entrepreneurs as they assess the commercial potential of their idea, and transform it into a viable product.

The programme not only provides guidance and mentoring, but also a first-class working space for innovators to turn their idea into reality. XLR8 even provides financial support as teams work to create their commercially viable product.

Based just outside the centre of Doha in Ar-Rayyan, QSTP is fast growing into an international hub for scientific and technological innovation. The park’s very environment is designed to foster innovation and collaboration, with fully-furnished communal offices and dedicated buildings.

QSTP is not only a hub for research and innovation, it also houses Qatar’s first-ever free zone, designed to attract investment and stimulate exciting technological advancement. It already counts among its members global technology companies including Microsoft, Cisco, Vodafone, and Mitsubishi.

QSTP and the XLR8 programme underline Qatar’s commitment to encouraging fresh thinking, entrepreneurship, and cutting-edge innovation as the basis for the country’s rapidly diversifying economy.

In the words of its Managing Director, Dr Maher Hakim, QSTP “enhances the potential for Qatar to make significant contributions to the regional and global technology industry through actively sponsoring the development of viable, home-grown tech products and services.”

Q&A with Aysha Al-Mudahka, CEO of Qatar Business Incubation Centre

Why was Qatar Business Incubation Centre (QBIC) established?

QBIC was established in order to provide all the necessary means that will help Qatari entrepreneurship to thrive and flourish – including funding, office space, mentorship, and guidance.

Today, it has grown into a leading mixed-use business incubation centre providing business support services to help entrepreneurs and companies who either have an idea to start a business, or want to grow an existing scalable company.

It is backed by respected government institutions that are seen as leaders in promoting entrepreneurship in Qatar: Qatar Development Bank and Nama.

Why is QBIC's work important as Qatar moves forward to become a knowledge-based economy?

The Government of Qatar is keen on developing and heavily investing in the private sector, as in the long run this diversification is what aids Qatar in transforming into a knowledge-based economy. This is also the vision of one of our founders, Qatar Development Bank, which strives to diversify the market by supporting and creating a strong SME sector. QBIC supports that vision by providing incubation opportunities. We support innovative start-ups and provide them with the tools that they need in order to grow their businesses.

QBIC's goal is to foster innovative ideas and help create the next business leaders of the country. Since our

establishment three years ago, we have become one of the largest incubation centres in the region. We have aligned our strategy with Qatar National Vision 2030, and are therefore focused on carefully targeted sectors.

For example, we have partnered with Qatar Tourism Authority (QTA) to set up a specialised incubator, QBIC Tourism, which focuses on incubating start-ups in the tourism sector. We have also partnered with Ooredoo Qatar to set up the specialised incubator “Digital and Beyond,” which focuses on supporting start-ups which will provide digital solutions.

Of which QBIC achievements are you most proud?

Here at QBIC, we're particularly proud of all our incubated start-ups' achievements. Their success is our success and nothing makes us happier than to see them prosper and grow.

Some of our start-ups have reached new heights this year that are particularly noteworthy, including Trifoglio, a local brand which aspired to reach international markets.

Trifoglio produces fine leather bags and jewellery inspired by the clover flower. They recently exhibited their products at the Doha Jewellery and Watches Exhibition alongside globally-renowned brands. Their booth was visited by members of the royal family including His Highness the Emir, Sheikh Tamim bin Hamad Al-Thani.

Oola Sports is another example: a brand that designs comfortable and trendy sportswear for women whilst



| *Qatar Business Incubation Centre*

being mindful of the culture in Qatar and the region. Despite being a newly incubated start-up, they have already acquired a broad base of loyal female customers. Her Highness Sheikha Moza bint Nasser recently wore Oola's attire on Qatar's National Sports Day, and continues to show an interest in the local brand.

What does QBIC seek to achieve?

Put simply, QBIC's mission is to develop the next QAR 100 million companies in Qatar.

The Government of Qatar is keen on developing and heavily investing in the private sector, as in the long run this diversification is what aids Qatar in transforming into a knowledge-based economy.

Starting-up in Doha

Encouraging an entrepreneurial spirit and supporting young businessmen and women is a key component of the Qatar National Vision.



| *Entrepreneurs*

Startup Weekend UNI Doha, which took place between 13 and 15 October 2016, is a prime example of how Qatar's institutions are investing in the next generation by supporting and mentoring aspiring students.

This particular event – a collaboration between the Qatar Development Bank, QSTP, INJAZ Qatar and Hamad Bin Khalifa University – saw 40 participants from across Qatar form teams to develop viable business ideas, before pitching them to veteran entrepreneurs and experts.

Each team was guided by a specialist, who helped participants to test and develop their ideas and prepare for the final presentations to a panel of judges. The panel consisted of representatives from each of the four host partners, and the teams' ideas were judged on their innovativeness, creativity, and viability.

Prizes of QAR25,000, QAR15,000 and QAR5,000 were awarded to the top three ideas. The winners, from Georgetown University in Qatar, created a prototype for an e-commerce website called AhlanGifts.com, specialising in Arabian-themed gifts such as fragrances like oud and bukhoor. The idea simplifies the gift-buying experience, and expands Arab-themed gifts to a new audience.



| Hamad International Airport, Doha

Qatar Mobility Innovations Centre

The first of its kind in the region, Qatar Mobility Innovations Centre (QMIC) seeks to address challenges in the areas of transport, healthcare, the environment, and sports by pioneering smart mobility systems and services.

QMIC aims to use locally-engineered innovations and knowledge to create technology-based industries that address local and regional challenges.

Among the challenges currently being addressed by QMIC's team of researchers and thinkers are how to improve Qatar's traffic systems, rethinking local postal delivery systems, and deploying automated vehicle systems in the region.

The centre's flagship smart living product is Masarak™, a suite of transportation and logistics solutions developed in partnership with Qatar's Ministry of Municipality and Environment. Masarak's suite of products and services tackle major daily challenges on Qatar's roads, such as traffic congestion, workflow



delays, and road hazards. They include a popular mobile app that helps drivers assess traffic conditions and select the shortest and fastest routes.

QMIC is a locally-conceived yet widely-influential set-up that represents the best of QNV 2030 in practice – knowledge-based innovation driving forward a diversifying economy. And its reach is extending beyond Qatar's borders, with January 2017 seeing the signature of a partnership with Belgian enterprise, SmartEnds.

First Edition of *Shop Qatar Festival*



| Al Hazm Mall, Doha

Qataris have long been aware of the wealth of local talent and creativity their country has to offer.

As Qatar's diverse retail sector witnesses an exciting boom, these home-grown talents are finally being recognised internationally.

It was with this in mind that the Shop Qatar Festival was conceived. January's month-long shopping festival showcased 42 small businesses through 30 pop-up

shops across five malls. Visitors were also treated to concerts, comedy shows, and family entertainment programmes.

Modelled on the successful Dubai Shopping Festival, Shop Qatar was lauded for positioning Qatar as a shopping destination, while showcasing the work of Qatari designers and supporting local businesses.

The festival was developed as part of the Qatar National Tourism

By all accounts, the first Shop Qatar Festival was a resounding success.

Strategy, which aims to see the tourism industry contribute more than 5% to Qatar's GDP by 2030. Shop Qatar is one of several programmes helping to reach this target, while boosting the retail industry and helping diversify the country's economy.

By all accounts, the first Shop Qatar Festival was a resounding success. Qatar witnessed a significant increase in visitors, the hospitality sector enjoyed almost a three quarters occupancy rate, and the country's retail and tourism sectors were energised.

As Qatar looks towards its second Shop Qatar Festival, this economic and cultural event looks set to grow in importance and help cement the country's position as a global retail hub.

From ‘Will Do’ to ‘Can Do’: *Qatar’s Promising Ecosystem for Young Filmmakers*

December 1st 2016 was a proud day for Qatar’s filmmakers, Qataris and those who call this nation home, when a record 17 films “Made in Qatar” screened at the fourth Ajyal Youth Film Festival, presented by the Doha Film Institute (DFI).

In Qatar, a small but growing number of people are committed to pushing beyond hobby filmmaking, resulting in a steady growth of the country’s film industry as nationals and non-residents step forward to make films locally.

Qatari writer and director Hend Fakhroo says the transformation to the nation’s film industry has been remarkable – and it is not just about the numbers. “It is the production values, and the audience response that our films receive; the landscape has changed for the good. It is a shift from the days when people used to say ‘we will someday do films,’ to now, young people in Qatar making a statement with films made here.”

Only a few years ago, the scenario was different. Then, it was not

only difficult to find talented professionals and support crew, but also challenging to present a film to a wider audience if it did not belong to the traditional Hollywood or Bollywood fare. Qatar today offers the support and guidance needed for young filmmakers and there is a clear vision to develop the country’s film industry.

Annual industry event Qumra, launched three years ago, supports the growth of the Qatari and



| Qumra, Doha



| *Qumra, Doha*

regional film communities, and is fast gaining ground as a serious space for mentoring new filmmakers from the Middle East and beyond. A DFI initiative, Qumra lays the foundations to support new projects and provides a nurturing space where filmmakers can learn their craft, develop their skills, and present their work to audiences around the globe.

This year, Qumra featured 33 projects from 25 countries including 12 films from Qatar, five feature films and seven shorts in various stages of production. These stories, the fruits of the continuous work that DFI has undertaken with these filmmakers, lay the foundations of a new era in Qatar's young film industry. Participants highlighted the role that Qumra plays in facilitating networking opportunities with international film experts, and for making a tangible difference to their projects across all aspects of film production – from script consultation to international film festival outreach.

Speaking about the assistance that he has received via DFI and Qumra, Fahad Al-Kuwari, the brains behind short film “Angels, Spiders and other Miserable Creatures,” said: “It is very important for us as filmmakers to interact with experts and industry professionals. Qumra

serves as productive time spent with all colleagues as we share insights and experiences. Thanks to Qumra, we are now able to curate our projects in a better way.”

Qumra expands on the DFI's existing support mechanisms for filmmakers, taking it beyond financial contributions into a more meaningful level of support. Since its inception, DFI has launched initiatives that nurture emerging talents and aid the new generation of filmmakers, making a positive impact in Qatar and the region in setting the foundations for a vibrant film industry and taking local stories to the world.

Emerging filmmaker Rawda Al-Thani, currently making the short film “Reem Planted a Flower,” describes the influence of DFI's initiative on her career: “I started my journey to film in college with my colleague at Northwestern University in Qatar. I look for local themes from our culture and take it as a story for my films. It is amazing to have this opportunity to develop my film through Qumra. It has been a great support – the workshops and masterclasses helped me have a better understanding of filmmaking.”

The Growing Success of Qatari Women in the Workplace

The last 10 years have seen some important developments in the journey of Qatari women – both at school and in the workplace.

Fields that were previously dominated by men are now industries where women are flourishing. From engineering, to oil and gas, women are holding senior positions across both the private and the public sector.

Today, well over half of Qatari women are economically active and around 20% of senior management positions are held by women. There is also a growing number of female entrepreneurs and business owners who are pursuing new and creative ideas with the support of organisations such as Qatar Development Bank.

Qatar Development Bank provides female entrepreneurs with support to develop and pursue their business ideas, including training, market research and, crucially, securing capital. Meanwhile, Qatar Foundation is also working with young female

entrepreneurs to help them build their client base and promote their services.

These developments reflect the evolving role of women in Qatar and the country's commitment to promoting and supporting their active involvement in the economy as part of its 2030 National Vision.

At the heart of this Vision is a focus on ensuring young women and girls have the right educational opportunities. Each year, more and more women are going on from school to pursue further education. In fact, Qatar University's 2016 graduating class comprised almost 75% women. This year, the class looks set to match this impressive statistic again.

Qatar knows that if its economy is to flourish in the post-oil and gas world, the whole of its citizenry, men and women, must play their part. This will require the right conditions and support for everyone to adapt, innovate, and thrive – which is precisely the environment Qatar is working to create.



| Participants at the Qatar-UK Business & Investment Forum



| Secretary-General of the Supreme Committee for Delivery & Legacy, Hassan Al-Thawadi

Challenge 22:

The Supreme Committee's Annual Innovation Award



In 2015, the Supreme Committee for Delivery & Legacy established the annual innovation award – Challenge 22. The award aims to promote regional innovations that at the same time enhance the infrastructure and visitor experience for the 2022 World Cup.

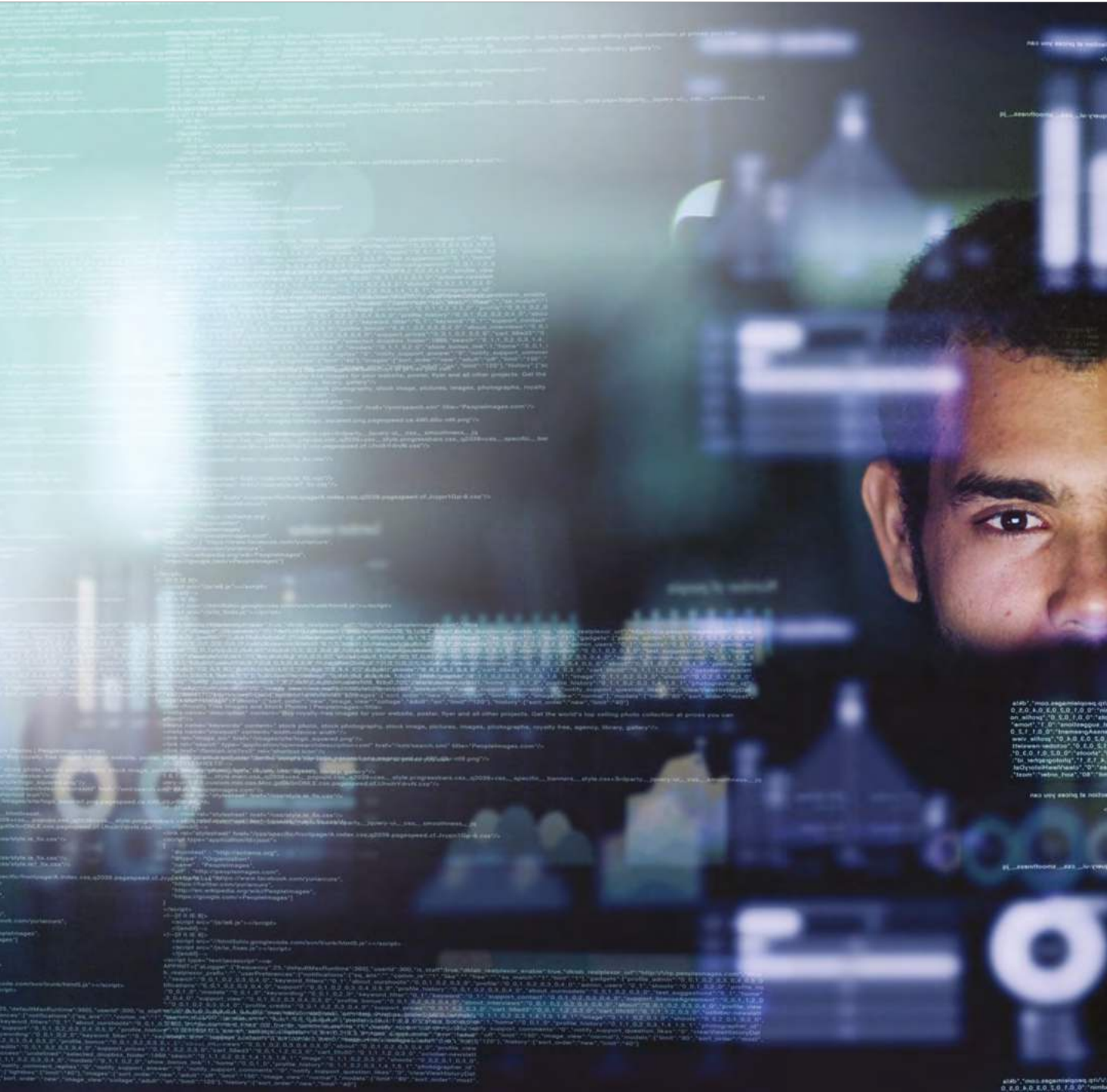
The Challenge 22 award is currently focused on challenges in various fields, such as sustainability, health and safety, tourism experience, and the “internet of things.”

The sustainability challenge aims to create sustainable outcomes in design, construction, and operation. Health and safety focuses on promoting the well-being of the employees involved. Tourism experience centres on improving the visitor experience and contributing to the long-term diversification of the regional economy. “Internet of things” aims to identify how the internet can create a more accessible, safer, and better tournament experience.

Challenge 22 offers mentorship and opportunities to the participants involved. The competition begins by accepting proposals from throughout the region via a travelling roadshow. Once the participants are filtered, semi-finalists are then mentored by leading scientists and researchers to help develop and refine their proposals.

The contestants are then assessed, and a number of finalists are flown to Doha for business development workshops and further opportunities to develop their networks and skills. The winners are awarded £11,500 and have the chance to apply for a grant of up to £75,000 to develop their idea.

Challenge 22 helps encourage innovation across a broad range of areas and allows people from across the region to contribute to the success of the 2022 World Cup, and Qatar’s long-term future.



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Science and Technology

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Qatar Foundation: *Two Decades of Unlocking Human Potential*

“Scientific research is a human activity that goes beyond geographical and political boundaries to establish the universality of knowledge for the progress and prosperity of mankind.”

– Her Highness Sheikha Moza bint Nasser, Chairperson, Qatar Foundation.

Founded by His Highness Sheikh Hamad Bin Khalifa Al Thani, the Father Emir, and Her Highness Sheikha Moza bint Nasser, Qatar Foundation (QF) has worked for more than two decades to build human capacity and develop Qatar’s sustainable and diversified economy. Since its inception in 1995, Her Highness Sheikha Moza has worked to transform a vision into an organisation dedicated to building a prosperous nation.

By driving forward its core mission areas of education, research and development, and community development, QF has successfully brought about the human, social, and economic growth of Qatar. With a focus on developing programmes in these three core areas, QF has more than 50 centres that nurture Qatar’s next generation of leaders. At its heart, QF’s mission is to invest in Qatar’s most valuable resource: its people.

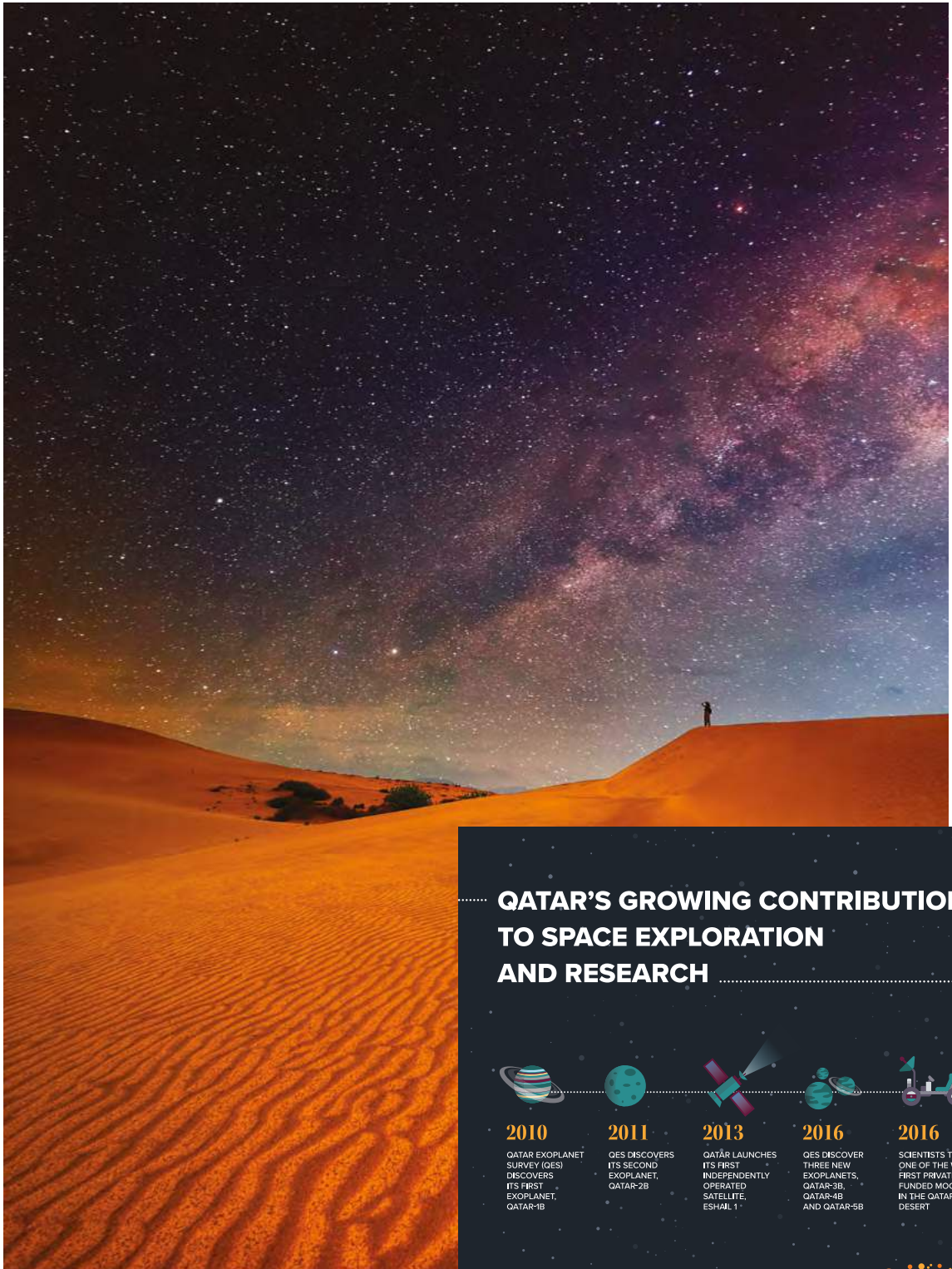
At the heart of QF’s success is pioneering forethought and a culture that embraces the importance of advancement and inspires an enduring commitment to human achievement. This culture directly impacts Qatar’s capacity for innovation, science, and technology, taking it to a higher level.

This nurturing environment has provided a platform for celebrating existing achievements and exploring future successes. For example, QF’s Annual Research Conference (ARC), established in 2010, convenes a range of leaders in science and research to share knowledge and insight. The conference brings together global perspectives and applies them to local issues, resulting in a network which provides the necessary impetus for transformative research.

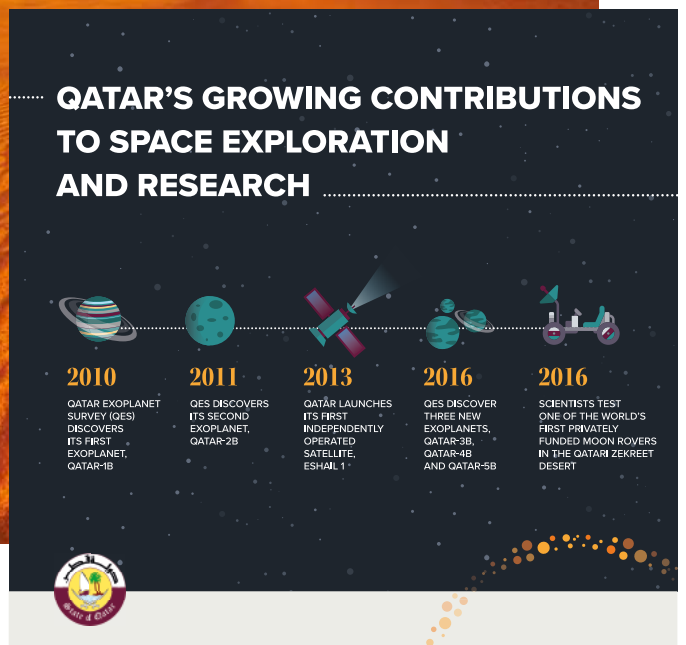
Each year, Her Highness Sheikha Moza bint Nasser invites thinkers from around the world to meet and discuss research challenges and establish a sustainable system within Qatar to address these challenges. Issues discussed include sustainable energy, water security, healthcare, cyber-security, and social needs – and how these issues can be addressed through innovation.

The ARC conferences have resulted in forward-thinking research initiatives, including the Qatar National Research Strategy (QNRS) and the Qatar National Cancer Research Strategy. Since its inception, QF has been central to helping Qatar become a nation that stands as a vanguard for productive change in the region.





| Desert



Qatar and the Final Frontier

Over the past decade, Qatar Exoplanet Survey (QES) has made significant discoveries in the fields of space exploration and research.

Founded by the Qatar National Research Fund (QNRF), QES uses innovative space exploration technology to expand the known universe and discover new exoplanets – planets that orbit stars other than the sun.

In 2010, QES' base in New Mexico discovered a new exoplanet, named Qatar-1b. This was followed by a second exoplanet in 2011 and as of 2017, QES has identified five previously undiscovered exoplanets.

In addition to helping humanity charter the universe, Qatar is also pursuing advances in the field of space monitoring. This includes launching Qatar's first independently operated satellite in 2013, Es'hail 1. This satellite was the first step in a mission to develop a sustainable national satellite industry, and Es'hail 2 is expected to launch in 2018.

Closer to earth, Qatar has also opened up its unique terrain for testing innovative space exploration technology. The terrain of the Zekreet Desert resembles in many respects that of the moon, and Qatar recently welcomed scientists to trial one of the world's first privately-owned moon rovers.

As scientists across the world continue to push further into the unknown, Qatar is determined to play its part and be a driver for progress and discovery in the field of space research.

How Innovation is Improving Delivery of Public Services in Qatar



| *The Pearl, Qatar*

In August 2016, Qatar's Supreme Committee for Delivery & Legacy launched the Middle East's first "Nudge Unit," a team of specialised behavioural scientists drawing on economic and psychological research to drive and improve public policy.

Qatar's new Behavioural Insights Unit (QBIU) has since taken a lead role in policy experimentation and is helping develop policies to navigate Qatar and the region towards improved public service delivery.

QBIU, in cooperation with a UK Government-owned social purpose company, The Behavioural Insights Team, presented its initial findings at the November 2016 World

Innovation Summit for Health in Doha.

The report covered three parts: quality of life and well-being of citizens, public health, and the delivery of healthcare. It also explored how behavioural insights can be applied to public policies and the design of public services in a range of sectors.

David Halpern, Chief Executive of The Behavioural Insights Team said, "Behavioural factors – such as diet, smoking, and accidents – now account for the majority of healthy years of life lost. Yet these behavioural factors have received comparatively little attention, and

the behavioural models within the medical community remain surprisingly undeveloped."

Later this year, QBIU plans to host the Middle East's first-ever "behavioural exchange" event. This top-level meeting of globally-renowned speakers, academics, and practitioners will aim to deliver further ground-breaking results to help improve delivery of public services.

Technological Breakthroughs at Qatar Shell Research & Technology Centre

The Qatar Shell Research & Technology Centre (QSRTC) is a vital part of Shell's R&D network and the wider energy sector's research and development community.

Opened in 2008, the centre has a £75 million decade-long investment plan that focuses on bringing cleaner burning and more efficient fuels to the energy market. In order to achieve this, QSRTC collaborates actively with global industry leaders such as Qatar Airways and Qatar Petroleum, as well as government departments including Qatar's Ministry of Municipality & Environment.

Through its large-scale investments and close partnerships in Qatar and beyond, QSRTC is able to deliver ground-breaking advances for the energy sector. One major outcome from the centre's research has been the development of a new aviation fuel – the first new fuel to be licensed for use in the industry for more than two decades.

QSRTC is also pioneering new research to understand Qatar's subsurface, which holds tremendous potential for



| Shell Aviation Fuel

oil, gas, and water reserves. This includes a £55 million, 10-year research project in conjunction with Imperial College London, Shell, and Qatar Petroleum.

Qatar recognises that the world will need a mix of energy resources to meet growing global demand. Through the work of QSRTC and its partners in Qatar and abroad, the future looks bright for cleaner and more efficient energy sources.





4

Education and Sport

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WISE: *World Innovation Summit for Education*

Education is the driver of human development and Qatar Foundation's World Innovation Summit for Education (WISE) is a celebration of innovative and collaborative educational projects that work to build a prosperous future.

Since 2009, WISE has built a thriving, global, and multi-sectoral community, which generates fruitful dialogue and productive partnerships to deliver quality education. WISE works towards bridging the gap between the education systems currently in place and those required to meet the needs of future generations.

Through an annual conference held in Doha, and a range of initiatives, WISE is a platform for creative thinking, debate, and purposeful action. As the world's challenges appear increasingly intractable, QF and WISE champion the belief that education is the key to addressing these challenges: poverty, conflict, challenging geographies, and inequality, to name a few.

WISE's initiatives include an "Accelerator" programme to support and develop innovation in the field of education. Through mentorship programmes, WISE selects projects with the potential for scalability, with a view to increasing impact and addressing specific needs.

The programme allows Qatar to share learnings in the field of education to a global audience, with the current cohort of applicants hailing from countries as diverse as Canada, the Philippines, the Netherlands, and Australia.

WISE also seeks to recognise those providing an outstanding, world-class contribution to education through the WISE Prize for Education. Every year, laureates are awarded £385,000 to continue their exemplary work and advocate for education worldwide. Previous winners include Dr Sakena Yacoobi, Ms Ann Cotton, Ms Vicky Colbert, Dr Madhav Chavan, and Sir Fazle Hasan Abed.

Dr Yacoobi, for example, founded the Afghan Institute of Learning, an organisation that provides teacher training to Afghan women to support education for children. Dr Chavan received an award for his role as CEO-President of Pratham, an organisation that reaches three million primary school-aged children in India every year.



| Michelle Obama speaking at the 2015 WISE Summit, Doha

Education is the key to addressing these challenges: poverty, conflict, challenging geographies and inequality, to name but a few.



Programming a Digital Future for Qatar

On 27 January 2017, 15 teams of students were hosted by Carnegie Mellon University in Qatar (CMU-Q) to compete in a 24-hour CarnegieApps Hackathon.

The Hackathon followed in the footsteps of last year's successful competition. This year marked the first time, however, that universities outside of Qatar also sent students to participate, with teams from as far afield as India and Australia, bringing a global edge to the event.

Under the guidance of Dan Phelps, Associate Professor of Information Systems at CMU-Q, the event gave students an opportunity to exhibit their programming prowess.

Over the course of the 24 hours, students worked around-the-clock to develop software for the five different prizes at stake: best design, most technically challenging app, best overall app, best rookie team, and best humanitarian technology. The final prize was a

new category for 2017 backed by competition sponsor Education Above All's "Protect Education in Insecurity and Conflict" programme.

According to Professor Dan Phelps, the competition allows students to "demonstrate everything they have learned ... tackle one of the challenges ... and apply their skills to help solve that problem in a real world context."

The "best humanitarian technology" prize challenged teams to consider the particular issue of children's safety in conflict-zone schools. The winning team was awarded for innovative software that predicts regions where an attack is imminent or possible by collecting information and specific trend data from the web.

The competition is another example of Qatar's commitment to a digital future, encouraging students to use technology and innovation to solve pressing global issues.



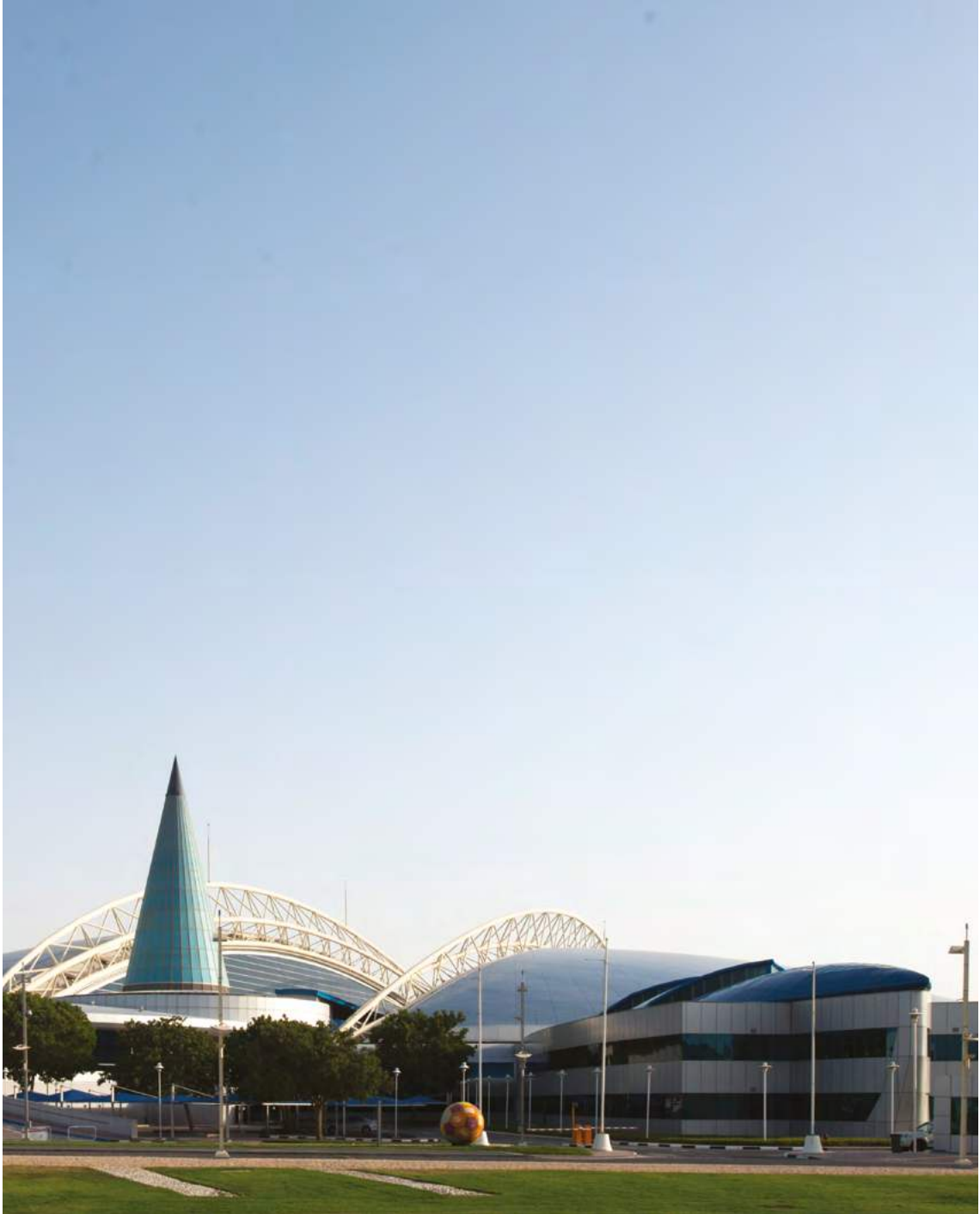
World-Leading Research: *Aspetar Sports Medicine & Injury Research Centre*

The Sports Medicine & Injury Research Centre at Qatar's Aspetar clinic brings together a team of world-leading researchers focused specifically on furthering the understanding of sports medicine and injuries.

The centre places a strong focus on its multidisciplinary approach, with dedicated departments for Sports Medicine, Surgery, Rehabilitation, and Radiology. One of its key focus areas is the study of musculoskeletal injuries, such as hamstring injuries, which are common across a range of sports.

Over the past six years the centre has been working with The Qatar Stars League to record injuries and illnesses in Qatar's first football division. This has provided the study with a significant amount of data on injury incidence and patterns in professional football. Once completed, it is hoped the study will provide the required clinical evidence to support the effectiveness of common therapies for muscle injuries such as Platelet-Rich Plasma (PRP).

The centre's research findings are frequently published in international peer-reviewed publications and the team regularly presents their knowledge at forums and conferences held by world-leading stakeholders in sports medicine and exercise sciences.



| *Aspire Academy, Doha*

Royal Ascot and Qatar: *A Model Partnership*



| QIPCO, Royal Ascot

Royal Ascot. Often those two words are enough to set horseracing fans' hearts beating faster. Few sporting venues can match the rich heritage and history of Ascot Racecourse. Over the past 300 years, Ascot has established itself as a national institution; with Royal Ascot becoming the centrepiece of the British social calendar and the ultimate stage for the best racehorses in the world. The fashion, the glamour, and the ceremony define the festival as much as the debates over which horse will win the next race.

In 2014, it was announced that Qatari investment body QIPCO Holdings would be the first-ever commercial partner of Royal Ascot. The 10-year partnership will see QIPCO sponsor some of the biggest races during the royal week, the highlight of the racing calendar.

Royal Ascot is far from the limit of Qatar's association with British horseracing. Since 2011, QIPCO has also been the backer for the "Champions Series" of the 35 top British flat races, as well as an increasing number of the races themselves. Over that time, the total prize money for those contests has risen 50% to £17.4 million.

Qatar's investment allows British racing to attract the very best runners, keeping horseracing as the second best attended sport in the UK, and British racing as the envy of the racing world. The long-term nature of the partnership with Royal Ascot will ensure it remains the highlight of the racing calendar and the pinnacle of British sport for years to come.



QIPCO's investment allows British racing to attract the very best runners.





5

Sustainability

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Arab Future Cities Summit Qatar

Building a Sustainable Future:

Qatar Green Building Council



| Downtown Doha

Qatar Green Building Council (QGBC) is a non-profit organisation providing leadership in environmentally sustainable practices for green building design and development in Qatar.

Established in 2009 by Her Highness Sheikha Moza bint Nasser, QGBC is part of Qatar Foundation. Its mission is threefold: to generate awareness, create understanding

and initiate education; to develop a clear set of environmental and green building guidelines; and to support and pursue research and development.

Qatar's National Vision 2030 makes clear that to be sustainable, the country's development needs must be balanced with the protection and preservation of the environment. To support this, QGBC focuses

on a number of areas to raise awareness and build capacity. This includes focusing on technical expertise development, research and development, and sustainability education and training. It works with a range of experts and government stakeholders to increase awareness and knowledge of green building practices, and build the capacity of industry professionals.

Qatar Sustainability Week, which will take place in October-November this year, is a QGBC initiative that serves as a unique platform to promote Qatar's sustainability vision, as well as allowing for the wider community to engage with those leading the change. It is also an opportunity for stakeholders to showcase their innovative and practical solutions to the environmental challenges faced by Qatar and the wider region.

Qatar Moving Towards Agricultural Self-Reliance

With a dry, subtropical desert climate, low annual rainfall, and hot summers, Qatar might not appear to be the natural environment for growing fresh produce. However, thanks to a pioneering new state-funded farming system that needs no soil and recycles water, Qatar is aiming to grow 70% of its own vegetables by 2023.

Smart greenhouses with no soil and a “dry air cooling system” with no water required: this is arguably the most advanced hydroponic system in the world. Pilot projects using tomatoes have been highly successful, and peppers, strawberries, herbs, and flowers are all expected to grow well under cover.

This hydroponic technology, developed by a Qatar-Spain collaboration, can also be deployed outdoors. Although limited to Qatar’s cooler months, a range of vegetables including broccoli, corn, and courgette are expected to thrive.

This innovative approach is helping Qatar produce its own safe, abundant, and sustainable food supply. Although not yet fully self-sufficient, Qatar’s reliance on imported food is drastically decreasing as these new farming techniques spread across the country.

When deployed indoors, the new technology even permits year-round vegetable production, and at a fraction of present costs due to its low energy consumption.

Agricultural self-reliance is an important component of Qatar’s long-term vision as its economy expands and diversifies. However, it’s not just about being self-sufficient. A sustainable food supply requires a sustainable environment and Qatar continues to pursue new environmentally-friendly technologies to support its development.



Safe and Sustainable: *Qatar's State-of-the-Art Transport Systems*

Qatar is already paving the way for new innovative metropolitan traffic systems in the region through developments such as the Doha Metro and the Expressway Programme – the world's largest road and infrastructure project.

Now Qatar is also building a new tram system in Education City. Education City is an environmentally-smart city, well on its way to becoming the main educational hub in the region.

Creating a car-free zone in Education City, the QF Tram System is a ground-breaking project aiming to ensure safety and air quality for students and employees alike. It connects the various parts of Education City, including several universities, cultural spots, and residential areas, in an environmentally friendly and safe way, and serves as a model for future urban development for the region.

Qatar has taken a lead role in promoting more sustainable transport systems in the region. The Global Forum for Traffic Safety and Sustainable Transport Systems, organised by Qatar University in collaboration with the National Traffic Safety Committee, brings together Qatari and international experts in sustainable traffic to exchange expertise and best practice in the field.

These initiatives show how Qatar is using its rapid growth and development as an opportunity to pioneer and trial new ideas in the area of sustainable transport and its integration within the wider urban fabric.



| The Corniche, Doha



Arab Future Cities Summit Qatar



| View from above, Doha

The Arab Future Cities Summit Qatar is an annual opportunity to explore the future of urban spaces, covering topics such as smart cities, connected transport, and cyber-security.

Hosted by Qatar's Ministry of Transport & Communications and the Ministry of Municipality & Environment, the summit brings together experts from across a range of diverse fields.

This year's event took place in Doha under the theme "Advanced Technology Transforming Qatar's Future." It focused on initiatives that will support Qatar's national cyber-security capabilities, as well as on the challenges of providing a safe online environment as Qatar transforms its urban fabric into a smart one.



Qatar National Vision 2030 outlines goals that are integral to the Arab Future Cities Summit, such as how to adopt sustainable policies for urban expansion and preserve the natural heritage of Qatar, while also ensuring Qatar's place as a global hub for commerce, academia and cultural exchange.

Speaking at the opening of the event, the Chief Operating Officer of international telecoms provider Ooredoo, Yousuf Abdulla Al-Kubaisi, praised QNV 2030 as a "bold vision for nationwide digital transformation, centred on advanced technology infrastructure that fuels smart citizens and the digital economy."

Given the rapid expansion of Information and Communications Technology, Qatar is making sure

it is responsive to changes and developments in these areas, including Digital Citizen Engagement, Smart Government Management, and Data-Driven Infrastructure.

Projects and initiatives such as Lusail, Education City, the state-of-the-art Doha Metro, and the infrastructure around the 2022 World Cup are testament to the country's ambition to be at the forefront of new practices and technologies and develop a smart and sustainable urban ecosystem.





Photos courtesy of:

Royal Dutch Shell

Qatar Foundation

Qatar Tourism Authority

With thanks to *Ambassador Yousef bin Ali Al-Khater*

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Q | Issue 2 | June 2017



Issue 2



Issue 2

Produced by the Government Communications Office of the State of Qatar
June 2017