



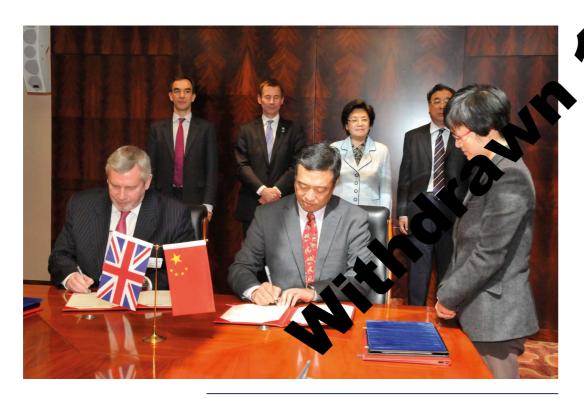








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Delivering reform through digital health	
The NHS and Healthcare UK	



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Howard Lyons, Managing Director of Healthcare UK and DG Gao Weizhong, Director General of International Health Exchange Centre of China (IHECC) sign the memorandum of understanding between the two organisations, witnessed by (left to right) Andrew Key, Minister & Deputy Head of Mission, the British Embassy Beijing, the Rt Hon Jeremy Hunt MP, Secretary of State for Health, Ms Li Bin, Minister of the National Health and Family Planning Commission (NHFPC) and Mr Ma Xigowei, Vice Minister of the NHFPC.

Since Healthcare UK was launched at the beginning of 2013, I have been privileged to visit China on a number of occasions to help develop partnerships between Chinese and UK public and private sector healthcare organisations. This culminated in December in the signing by our Secretary of State and the Chinese Minister of Health of two significant Memoranda of Understanding between the UK Systement of Health and the National Health Species Republic of China.

On be an if Healthcare UK, I was able to sign MoUs with the International Health Exchange and to-operation Centre of the Ministry of Health and the Health Bureau of Zhejiang Province which identify a number of areas for collaboration aimed at strengthening artnerships between our respective health sectors. Other UK organisations signed MoUs with Chinese private and public companies paving the way for increased trade between our two countries.

China and the UK share many goals. These include providing high quality healthcare for all citizens, planning and delivering services for the rapidly growing elderly population, and adapting services to manage the rising burden of non-communicable diseases, including diabetes, respiratory conditions, cancer and dementia. The changing healthcare needs of our respective populations are placing enormous demands on our health systems and infrastructure.

The healthcare reforms initiated by China seek to develop a system providing "safe, effective, convenient and affordable" healthcare to both rural and urban residents by 2020. Having established near-universal insurance coverage, improving the quality and choice of healthcare services is a priority for China in 2013-2017.

Many of the areas of focus for the reforms such as improved service delivery, more effective public health and better hospital management, correspond with areas of expertise within the UK's National Health Service (NHS) and its commercial healthcare sector.

Since the formation of the NHS in 1948, the UK has invested billions of pounds in constantly upgrading the quality of healthcare for the people of Great Britain. The UK's primary care system is internationally renowned for providing the best possible care for families in a cost-effective way. What the NHS and its commercial partners offer is unique in both its quality and breadth, drawing on this long experience of running the world's largest integrated health system. Now for the first time, through Healthcare UK, organisations in China are able to access the know-how this investment has created for the benefit of patients and their families.

The British Government signalled its ambition to foster strong international partnerships by creating Healthcare UK, a joint initiative between UK Trade & Investment, the Department of Health and the NHS in England. Healthcare UK was established to link UK expertise with the healthcare requirements of countries around the world such as China. It aspires to provide an overview of what the NHS, UK industry and academia as a whole can practically offer to China in order to deliver high-quality care. It is already helping UK healthcare organisations to work effectively with Chinese national and provincial governments and a wide range of local healthcare providers.

This short brochure summarises the UK's capabilities and innovative approaches relevant to China, including elderly care provision, training and development for healthcare professionals, and advances in hospital infrastructure and digital health.

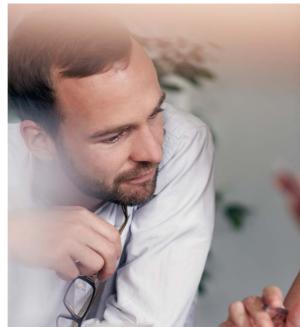
I trust you will find this brochure of interest. I also hope it will encourage you to explore areas for cooperation. Our professional advisors at the British Embassies and Consulates throughout China are at your service.

Healthcare UK, on behalf of the British healthcare sector, is looking forward to the opportunity of building on our existing relationships and agreements in China to create further value-added collaborations of enduring mutual benefit.

Howard Lyons, Managing Director, Healthcare UK

#### **Developing world class hospital infrastructure**





China has stated that a priority for 2013-2017 is to improve quality of healthcare and central to this is the provision of hospitals and their efficient use.

Outside of the Tier 1 cities, it is recognised that the healthcare infrastructure in China is in urgent need of modernisation. At the same time, China's health needs are changing. Conditions that have traditionally been common in the West, but not in China, are increasing. Cancer, obesity, diabetes, heart disease and the growing elderly population in China are all placing great demands on the existing healthcare infrastructure.

China is seeking to achieve its goal of delivering high quality healthcare infrastructure in a planned and structured way that responds to the evolving health needs of its population. China is looking to analyse and understand these new health needs to enable coordinated delivery of world class hospitals, in the right locations.

90% of interactions with doctors in hospitals in China, in contras where 90% of interactions are of integrating primary care and providing hig is available to assist Cl na ing demand for systems for me ng sensitive to d models of care.

ars' experience in planning healthcare services in the tor. Through the development of consortia that will bring together the unique talents of the NHS, partnered with the outstanding skills of the private sector, the UK can apply all of its long history and experience to the benefit of Chinese hospital owners, patients and staff.

British organisations have considered how they might support developments at the provincial county or municipal level, seeking Chinese partner organisations such as level 3A hospitals for joint ventures. For example, in December 2013, Sinophi Healthcare signed contracts for hospital management and hospital investment in China. These included a joint venture with Huai'an First People's Hospital, one of the biggest hospital Jiangsu Province, and an agree build a 1,000 bed oncology hos

#### **Strategic service** and business pla

UK expertise is ideally to map existing th needs of the population, f care, develop business els, funding packages, feasibility studies that cts to be taken forward with e and enable resources to be used ost effectively to improve healthcare for the ople of China.

#### **Design services and Public Private** Partnerships (PPP)

The UK's designers and project managers have created outstanding and innovative hospital buildings all over the world. Britain has also been at the forefront globally in designing hospitals that are sustainable, energy efficient and low carbon.



The UK has also led the world in the development of PPP as a procurement route. With over 20 years' experience, our PPP specialists are able to assist with developing and introducing PPP models to hospital projects in China. PPP brings the benefits of private sector investment and expertise, improved efficiency and transfer of risk from the public to the private sector.

#### **Construction services and equipping**

Working in a consultancy capacity, the UK's construction experts are able to bring to China the benefit of their expertise in areas such as decanting, modularisation and offsite construction, to improve the efficiency of construction and minimise costs.

In addition, the UK's extensive medical equipment supply chain can provide everything needed to fit out a hospital, from scanners to surgical supplies and pharmaceuticals.

#### **Service improvement**

China's desire to improve healthcare provision does not only mean building new hospitals – there is much that can be achieved within existing hospitals. The UK is well placed to help China drive up the quality of both clinical care and hospital management. The UK's NHS hospitals and consultancy practices are able to provide quality audits, improvement plans and education programmes that will allow China to benefit from the UK's unique skills and experience.

#### Hospital management and operation

By combining the skills and expertise of the UK's private hospital, support services and NHS sectors, UK consortia can offer China hospital management and operation services that can deliver both improved clinical, financial and support services efficiency and higher quality clinical care for patients.

ranked medical centre, Pingtan

**Union Hospital, Fujian: Arup** 

education and research.

Located in China's Western Coast
Economic Zone the Pingtan Union Hospital
will be a grade-A hospital designed with
reference to international standards,
serving as a centre of medical care,

Arup was responsible for reviewing all architectural and MEP layout designs. The hospital building will be served by a central utility plant to improve the sustainability and reliability for this first-ranking medical centre.

Arup has introduced sustainable strategies to enhance daylight use and to reduce water, materials and energy consumption. Energy efficient features have been adopted, including high efficiency chillers with heat recovery, demand control of fresh air supply, heat energy reclaim of exhaust air and a building energy management system. A high performance façade will be installed to reduce cooling load.





# Upgrade and expansion of a major hospital Hong Kong Sanatorium and Hospital: Arup

With more than 400 beds and numerous specialty centres offering diagnostic and therapeutic services, Hong Kong Sanatorium and Hospital is a renowned private hospital established in 1922, consisting of two buildings sited on a hill slope.

Arup has provided structural, civil engineering and geotechnical services for the schematic design of the Photosum 4 and 5 redevelopment of the Yayana structural, civil engineering and geotechnical services.

Arup also provided the TP aineering for the programming real sign of the enabling and upon works in preparation for the hospital featile. The project involved the detailer are not all services to enable a size to road to be constructed.

arup.com



#### **Architects**

BDP

Foster + Partners
rphy Phillips
effian Bradley Architects
Swanke Hayden Connell
Architects
TFP/Ryder

#### **Consultant Engineers**

Arup Gleeds

Mott MacDonald

#### Consultancy

Boultbee & Co EC Harris

New Level Group

PwC China Business Group

#### Contractors

Blue Sky Building

#### **Health Planning**

ArcHealth

Capita Symons

**Fusion Health** 

Strategic Healthcare Planning

#### **Hospital Management**

**Orient Asian Partners** 

#### **National Health Service**

Great Ormond Street Hospital for Children NHS Foundation Trust

Guy's & St Thomas' NHS

Foundation Trust

Kings College Hospital NHS

Foundation Trust

North West London Hospitals

NHS Trust

Royal Free London NHS

Foundation Trust

#### **Provider/Developers**

China Britain Healthcare Consulting

Excalibur

Mhealth

Sinophi

#### Caring for older people

Due to an increase in life expectancy and fewer births per capita, China's elderly population will grow substantially in the coming years, with studies estimating a third of the population being over 60 by 2050.

With a smaller population of working age people supporting a larger elderly population, planning for the future is now critical to China's long term progress.

China's Twelfth Five Year Plan (2011- 2015) proposed the expansion of care for older people as well as maintaining responsibilities of the family, targeting in-home care as well as residential, doubling the number of government residential home beds and establishing Management Centres responsible for guidance and monitoring care providers in each region.



In order to achieve this, there is a need to increase significantly the housing, wellness, care and treatment services to respond to demand and to improve the quality of existing services. For example, it is estimated that China needs about 10 million nursing home beds and an elderly care workforce of 10 million. The government expects the beds to meet the needs of about 3% of the population with 7% cared for in residential settings and the majority continuing to be cared for at home.

Importantly, the Chinese Government is open to foreign investors and service providers so that elderly care services can expand rapidly to meet these goals.

The UK has a well-established and regulated housing, care and health industries designed to meet the needs of people as they approach retirement and live to an old age. The NHS and the UK private sector has experience and expertise to meet the care needs of people as they become more dependant and the health needs of people suffering from dementia, diabe respiratory and heart disease and orthopaedic problems.

As well as a range of speciall housing for older peopl

#### **An integrated offer**

The UK's expertise and experience offers an integrated approach to creating high quality services for



#### Planning and programme delivery

The UK has experience in countries around the world in creating care services for older people, ranging from cancer care, dementia services and health promotion programmes, covering:

designing and planning both whole systems and individual health and care services

managing their implementation

defining the workforce, the staff roles and competences required to provide older people's care

organising staff recruitment

#### Staffing and staff development

UK hospitals, universities, colleges and training companies have a wide range of certificated programmes to train the professionals and support staff to care for older people.

The UK has some of the most advanced leadership and management frameworks and programmes that can be adapted for the leadership of Chinese nursing homes, clinics and hospitals.

#### **Service provision**

UK service providers from the NHS and the private and social enterprise sectors excel in:

advice, advocacy and health education programmes

domiciliary and residential care

community and hospital treatment

As well as their service operating skills, for example in running nursing homes, UK providers are able to:

bring integrated pathways for the management of conditions such as diabetes or dementia

offer professional practice and research exchange

#### **Quality management systems**

One of the foundations for quality improvement in older people's care in the UK is the data that is available from case records. This is used for managing care, treatment and referral to neighbouring facilities. The UK systems can be adapted to the Chinese context, along with case management systems and training.

The UK can provide skills in developing and using:

quality and outcomes frameworks

quality assurance and accreditation systems

practice guidelines

decision support for practitioners

consumer satisfaction feedback systems

The UK's regulators ensure services and professionals meet basic standards. This experience can also be adapted for Chinese use.

The UK has over two decades of expe of purchasing older people's care ar services by both Government and which it can bring to the Chir

#### China: UK collabora in elderly care

**Hevthorp Healthcare** (Yadona) have ked use healthcare lude elderly nursing, a services and care e Jiangsu.

IXICO has signed a Memorandum of Understanding with the Beijing Union Medical and Pharmaceutical General Corporation. They will work together to support dementia diagnosis, advance public understanding of dementia and evaluate new treatments.

#### **UK organisations available** to work with China

#### Planning and programme delivery

**EC Harris** 

**CBN Care Group** 

**SP Solutions** 

Skills for Health

Centre for Workforce Intelligence

IXICO

#### Staff development

MSI Group

BMJ

The National Gold St Framework (GSF) Centr for End of Life Co

usiness School

ealth Services Management entre, University of Birmingham

NHS Leadership Academy

#### Service providers - domiciliary and residential care

**BUPA** 

**Shaw Healthcare** 

Affinity Care Management

Ilmark

dley Retirement

Care Visions at Home

Heythorp Healthcare

#### **Management Systems**

University of Keele Centre of Medicine Optimisation

**Medicines Management Solutions** 

**BMJ Evidence** 

**Future Health Care Group** 

QHA Trent Accreditation UK

Field Fisher Waterhouse

National Institute for Health and Care Excellence (NICE)

**Patient Opinion** 

#### Service providers - advice, advocacy and health education

Public Health England

**UK Preventive Medicine** 

**NHS Choices** 

**NHS Direct** 

#### Service providers - primary, community and hospital treatment

**Royal Free London NHS Foundation Trust** 

Central and North West London

**NHS Trust** 

South London and Maudsley

**NHS Trust** 

**Medway Community Healthcare** 

#### Rehabilitation and senior care facility development Dalian Altac Hospital, Liaoning Province: **EC Harris**

EC Harris was appointed as a strategic advisor for the development of new health and senior care facilities in Dalian in late 2012. They have provided premium consultancy services including strategic healthcare planning, capacity modelling and development of the overall long term business plan. This enabled a phased approach to the development, ensuring smarter use of the facility as the business grew and consequently a better financial position during the early stages of operations. EC Harris is also currently supporting Dalian Altac to find appropriate investment partners and international operators for both new and existing health operations within the Dalian Vitup portfolio.

Selection of the right partners for this exciting project is critical with a focus on those who are committed to long term delivery of quality health services in China.



echarris.com

#### Developing the healthcare workforce

One of the main healthcare challenges for China outlined in the Chinese Ministry of Health's Twelfth Five Year Plan is the development of the skill and know-how of the healthcare workforce.

Aspects of this conge highlighted in the plan include

the curre it malthcare workforce do 5 h meet the healthcare needs

the 2 is a shortage of particular categories of healthcare workers for example, nurses and public health workers

there is a mismatch in the supply and demand of healthcare workers

China estimates it requires at least 450,000 more nurses by 2015 to bring the total up to 2.86 million. It also needs an additional 20,000 professionals trained in TCM. China is seeking to overcome these challenges by:

training more healthcare workers in a number of specialised areas such as public health, community services, ageing care and chronic disease

enabling healthcare staff to manage the change in the structure of the healthcare workforce through management and leadership training

establishing training centres for specific areas of medicine, covering intensive care, emergency medicine blood, mental health, oncology, and operating theatre technicians Given its wide range of capabilities and international experience, the UK healthcare education and training sector is very well placed to work with China to meet the challenges of developing the healthcare workforce for the future.

The UK is home to 4 of the world's top 10 universities for clinical, pre-clinical and health subjects and it can offer:

primary, nurse and allied health professionals training

specialist short course continuing professional development (CPD) training and assessment in areas such as surgery, non-communicable diseases including diabetes and elderly care

research expertise and collaboration

hospital management and governance

quality assurance and accreditation linked to international benchmarking

leadership and management training and development

English language training

1

15

Partners in healthcare

#### CHECK - China Healthcare Education Consortium UK: assisting our partners to meet their healthcare needs

Recognised as one of the world leaders in healthcare education, the UK is very well placed to assist China to meet its goals for healthcare education, training and development. However as the size and scale of China prevents one institution making a significant contribution on its own, the China Healthcare Education Consortium UK (CHECK) was established.

CHECK consists of 10 UK universities who have joined together so that any collaborative healthcare opportunity from China can be met effectively.

The initial CHECK members are:

Anglia Ruskin University, Bangor University, University of Brighton, De Montfort University, University of East Anglia, Edinburgh Napier University, Glasgow Caledonian University, London South Bank University, Sheffield Hallam University and Swansea University.

CHECK is led by senior UK academics that all have extensive experience of working collaboratively in China. This has many benefits in terms of ensuring that the services provided are fit for purpose.

Due to the size and scale of CHECK, it can provide a one-stop healthcare partner for Chinese public and private agencies. CHECK has access to 1500 highly qualified healthcare staff, of which 83 are at professorial level, and currently provides a wide range of healthcare education to 4500 post graduate and 17,000 undergraduate healthcare students.

The size of CHECK makes it unique in terms of the depth and breadth of the healthcare education and research that it can provide which includes:

Healthcare education and research opportunities for a wide range of healthcare professionals, for example:

GPs

nurses

occupational therapists

dieticians

physiotherapists

podiatrists

sports and exercise therapists

# A bespoke service to ensure that the type of provision is suitable for purpose:

degree programmes

short courses

online learning, research and Auation

train the trainers

### Consultancy services for provide and private organisations

#### Specialist eductions a large range of areas:

car o he deriy

ni, health

rehabilitation

chronic conditions (diabetes, cancer,

stroke, dementia)

mindfulness

health optimisation

dietetics

## The Royal College of Surgeons of England (RCS) in China

RCS Quality Assurance and Accre in activities aim to acknowledge and promote excellence in surgical education and training. The RCS has refer accredited four education and fine entres in China (Beijing, Shong di Chengdu, Guangzhou) in collaboration with Johnson & Johnson Medical Education Centres. The centres and trecognition from the College of way of improving their training and the fine some fully employ RCS QA and have fing process as per RCS standards with online & faculty participant evaluation being run in Chinese and English.



#### rcseng.ac.uk





# UK organisations available to work with China

A broad range of UK organisations are keen to assist China to increase its healthcare capacity and skills via a range of partnership models including:

direct collaboration

staff exchanges

train the trainer

knowledge transfer schemes

blended learn, solutions to include online of the color-face training

# UK suversities with branch campuses established in China

University of Nottingham at Ningbo;

Liverpool University with Xian Jiaotong University

The Shanghai British University College which represents nine UK Universities

## Medical Royal Colleges working with local partners in China:

Royal College of Surgeons of England (RCS)

Royal College of Obstetricians and Gynaecologists (RCOG)

Royal Colleges of General Practitioners (RCGP)

#### **Education and training providers**

A wide range of UK healthcare education and training providers are interested in further developing their training, education and research work with China and these include:

Ashridge (leadership and management)

**British Acupuncture Council** 

Skills for Health (workforce planning and skills development)

NHS Foundation Trusts

Academic Health Science Networks (AHSN)

Other Medical Royal Colleges including:
Royal Colleges of Anaesthetists (RCOA),
Royal College of Pathology (RC Path)
Royal College of Nursing (RCN)

Bespoke private training providers



"UK physicians stand out compared to physicians from other countries for receiving information about their performance. The vast majority of UK doctors reported that they received and reviewed physicians performance information"

The Commonwealth Fund, 2012

#### **Delivering reform thr** digital health

Digital health is rightly enabler for the achiev care are ambitions he UK share.

up new and cost patients to access . It supports comprehensive data collection to enable better patient management and sophisticated analysis of the health needs of the population and how they change over time.

The opportunity for collaboration within digital health is significant for both countries. With China's '35212' project providing the framework for cooperation, the UK's digital health community can make a significant and positive impact in this collaboration.

Aspects of digital health important to China include:

a national patient identifier, to make it possible to identify patient records across electronic health records systems at a national or even provincial level.

high-quality, interoperable, prima systems to support the curren reforms being implemen

systems capable of from the newly set throughout the h

governments at nonitor the incidence the level of demand

ng care in the community and at home, to deal with the rapid increase in chronic disease and dementia

Over the last 30 years, information technology has played a key role in the improvement of the quality of care provided in the NHS and it continues to do so. The UK has world-leading expertise in three areas of digital health:

#### Central systems and services:

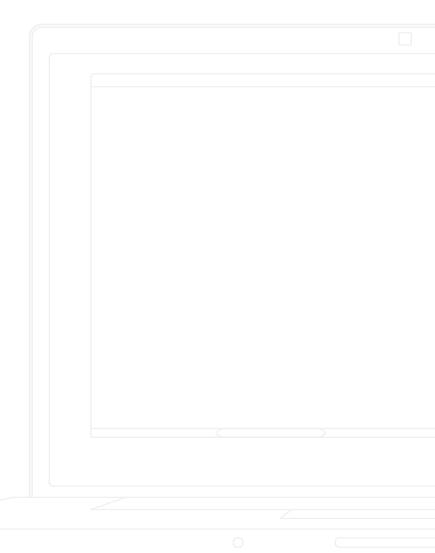
systems and services which exist at a national or regional level to facilitate the entire digital health ecosystem.

#### Local systems and services:

systems and services which operate at the point of care, for example primary care records

#### Personal care solutions:

solutions and services which are used by individual patients as part of the increasing trend towards self-care in a mobileinternet world.



#### Central systems and services

Unique patient Identifier (UPI)	The UPI is the basis for identifying patient records across healthcare IT systems
Centralised demographics service	This service would enable healthcare IT systems across the country to access the right patient record using the UPI
Centralised electronic health records	A central patient record accessible from local systems and visible for specific purposes such as emergency care
Patient referral system	A system for electronic referral of patients across all settings
Service quality management system	Automated quality and performance monitoring of individual settings and providers within the healthcare service
Population health analytics solutions	Automated demand analysis, to manage public health delivery and develop national policy

#### Local systems and services

Electronic Health Record (EHR) interconnectivity	A single view of multiple patients' health records achieved through interconnection of individual systems
Primary care systems	Electronic health record system is cluding operational workflows, it was a tools and interoperability with a consultation although IT systems
Clinical decision support systems	Interactive software used on best practice clinical protol and guidance, designed to assist physical and other health professionals with clinical decision making
Telemedicine	A range of technology used to extend the reach of specialist care in a cost-effective manner to remote, and often rural, care settings

#### Personal care solutions

Self-care and automated triage	Online or app-based solutions which people can use to obtain a diagnosis and treat health-related issues. Automated triage uses an automated symptom checking and problem identification oftware to determine the most appropriate action for the patient
Telehealth	Remote monitoring of chronic disease patients within the community
mHealth	Apps and peripherals incorporating clinical and operational expertise. mHealth could cover a vast range of applications already covered by other propositions but delivered over the mobile platform

# K organisations available to work with China

BT Health	CBBC	Medvivo
NHS England	IXICO	Sitekit
NHS Direct	YourMD	Seetok
TPP	Yecco	Safe Patient Systems
BJSS	New Level Health	
mHealth international	University of Coventry	

#### The National Health Service

With an international reputation for excellence, the National Health Service (NHS) is at the forefront of healthcare delivery, research and training.

The NHS works in collaboration with commercial healthcare companies and academia to develop innovative, integrated, high-quality and cost-effective systems of care. Uniquely, the UK's commercial healthcare sector has in-depth experience of working in partnership with the NHS in planning and delivering facilities, clinical services and deploying new technologies.

NHS is the world's largest integrated health system and one of the most efficient healthcare providers globally, treating 1 million patients every 36 hours.

The UK spends 9.3% of GDP on health, around half of the USA's expenditure

The Commonwealth Fund rated the NHS as the best system in terms of efficiency, effective care and cost-related problems in comparison with the healthcare systems of six other countries (Australia, Canada, Germany, Netherlands, New Zealand and USA)

#### **Healthcare UK**

Drawing on UKTI's network of professional advisors in more than 100 countries, Healthcare UK works with governments and healthcare providers around the world to co-develop healthcare solutions reflecting specific needs and priorities.

Healthcare UK facilitates:

major government-to-government engagement on behalf of the UK health industry, bringing together the NHS and commercial sector to work in collaboration to deliver substantial programmes of healthcare provision, implementation and improvement

partnerships between individual healthcare organisations and NHS providers, commercial companies and national agencies to create tailored programmes for healthcare services

professional exchange programmes and the delivery of education and training for healthcare professionals

#### The NHS in England:

delivers



family doctor consultation

conducts over



ures per year



healthcare PPP projects in the UK. The UK is an acknowledged world leader in public-private partnerships (PPP).

The UK is home to

of the world's top 10 universities for clinical, pre-clinical and health subjects, with the University of Oxford in first place globally, followed by Cambridge, Imperial College London and University College London

> For further information and to discuss how Healthcare UK could assist you, contact:

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