



China-UK Research and Innovation Bridges competition

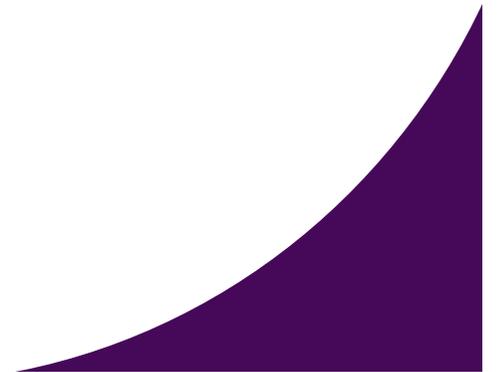
Innovate UK- RCUK – Ministry of Science and Technology, China

Brokering Webinar





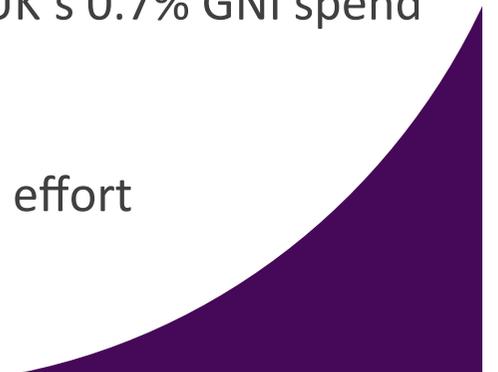
Newton Fund – Recap



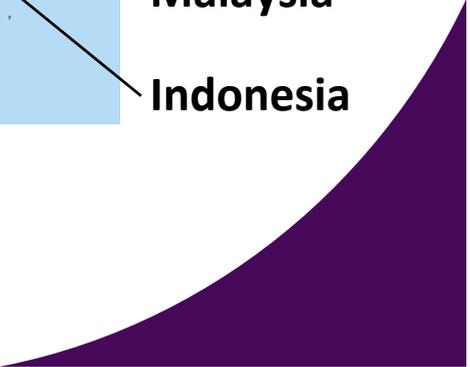
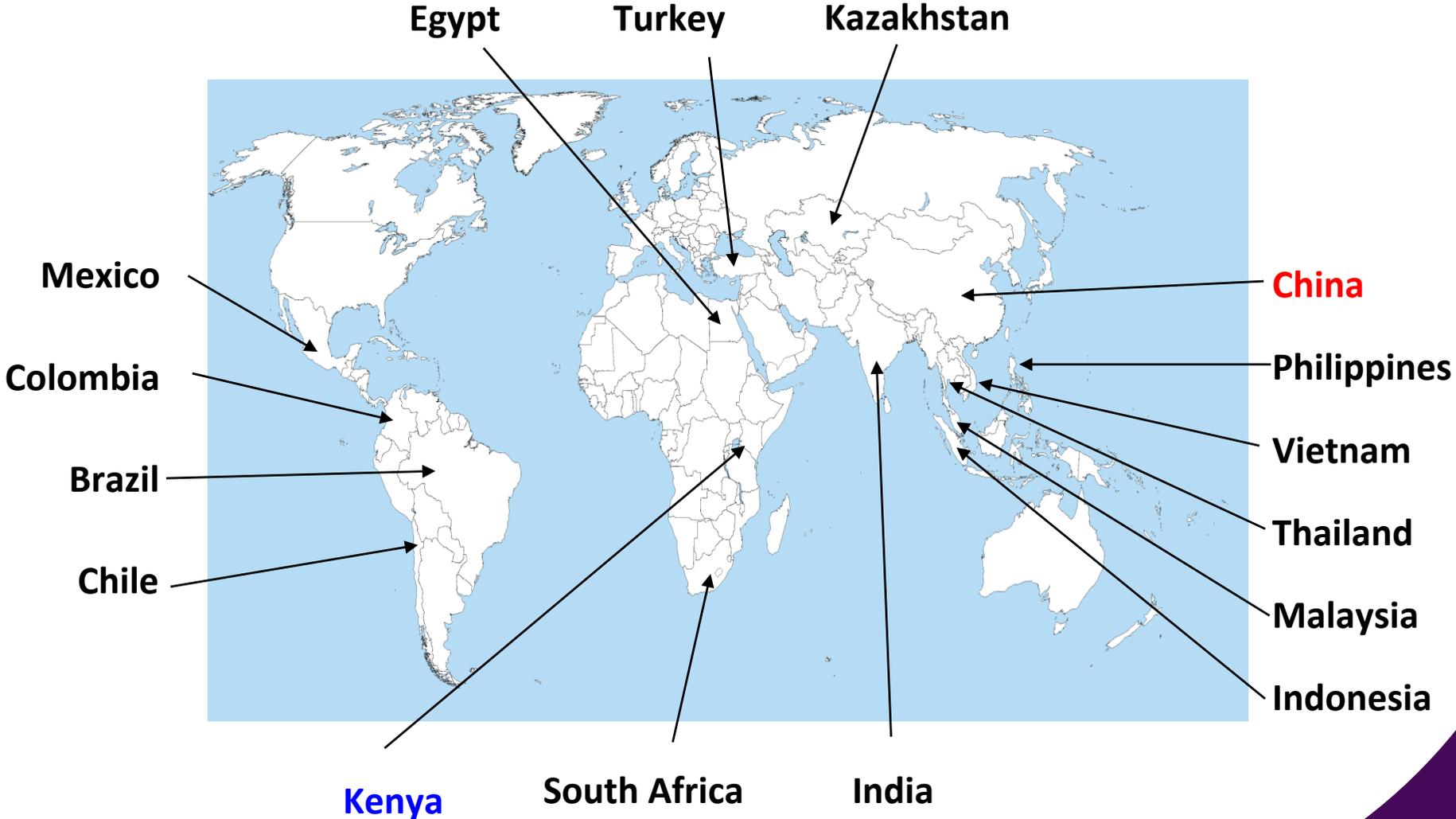
The Newton Fund

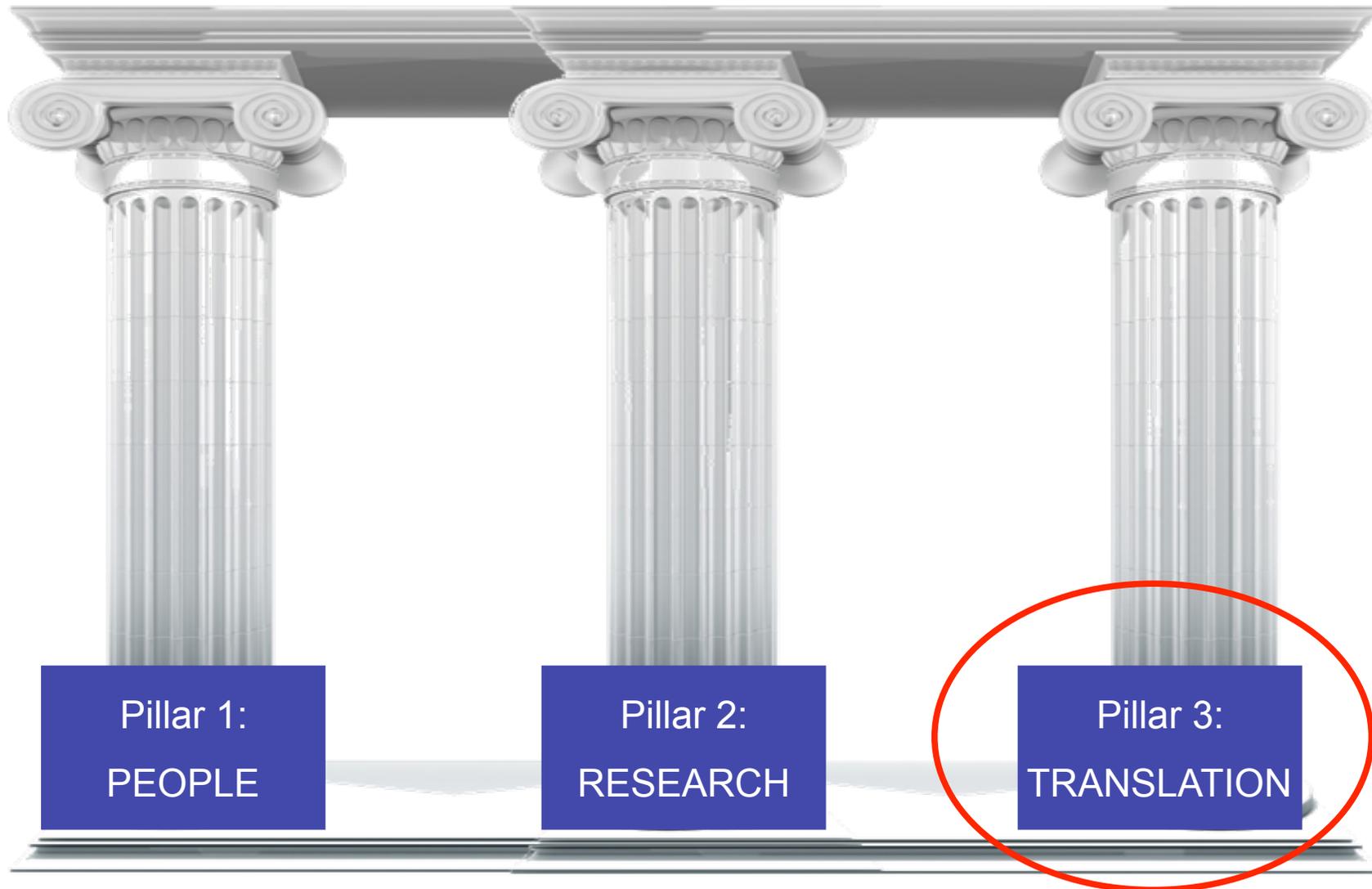


- UK Government Fund (matched by our partners)
- To promote the economic development and welfare of 16 partner countries by strengthening their science and innovation capacity, through partnership with the UK (note – Kenya added as the 16th country in 2016)
- Partner countries (see next slide) are emerging knowledge economies, ranked as middle-income by OECD
- In Dec 2015, Newton Fund extended and doubled in funding = £750m **UK government** contribution, 7 years, 2014-2021
- It is HMG *Official Development Assistance* money ie, part of UK's 0.7% GNI spend on aid to other countries
- Partner countries must provide matched funding or matched effort



Newton Fund partner countries





Improving capacity in research and science, individually and institutionally

Improving research collaborations on critical socio-economic development challenges

Creating collaborative solutions to socio-economic development challenges and strengthening innovation systems

Innovate UK works under this pillar

Newton Fund has 3 pillars of activity...

The UK Delivery Partners

Pillar 1



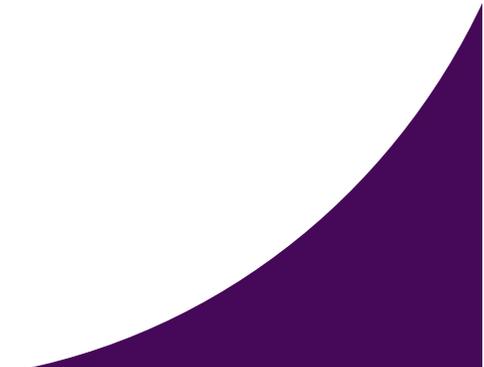
THE ROYAL SOCIETY



Pillar 2



Pillar 3



From Innovate UK perspective... What Newton Fund means for you



Access to new partners and new
markets for new products and
services



- Collaborative R&D project funding
- Consortium-building visits
- Other activities



Definition of Official Development Assistance

Newton Fund activities need to demonstrate that they are aiming to contribute to a reduction in poverty, and aim to further sustainable development (development that is likely to generate lasting benefits for the population of the country to which it is provided) or improve the welfare of the population of Newton Fund countries.

Source – www.newtonfund.ac.uk





<http://www.newtonfund.ac.uk/funding/funding-opportunities/>





China-UK Research and Innovation Bridges competition

Innovate UK- RCUK – Ministry of Science and Technology, China

Summary – Jan 16



China-UK Research and Innovation Bridges competition

What is it?

- Collaborative R&D competition for projects at industrial research stage of development.
- Specifically funding projects that translate existing, excellent research into commercial opportunity, in the form of new products, services or processes that meet challenges China is facing in its agriculture, energy, healthcare and urban sectors.

Who is funding this competition and how much is available?

- Innovate UK, RCUK and the Ministry of Science and Technology, Govt of PR of China.
- Up to £8 million from Innovate UK and RCUK to UK partners; up to £8m in RMB equivalent from MoST to Chinese partners.

What will we fund?

- Collaborative translation projects submitted by consortia that must contain UK and Chinese project partners.
 - Minimum partnership eligible is 1 UK business, 1 UK Research Organisation, 1 Chinese business, and 1 Chinese Research Organisation.
 - No of UK partners is not restricted; Chinese partners restricted to 1 business and 1 RO.
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China-UK Research and Innovation Bridges competition

Who can apply from the UK?

- Usual organisations eligible for Innovate UK and RCUK funding: M-S/M/L businesses; ROs looking to progress ideas into successful business propositions (including academic institutions, RTOs, and others); public sector; charity/non-profit organisations.
- Businesses **must** be part of the consortium.

Who can lead the application in the UK?

- ROs or businesses.
- Must be led by organisations in the UK whose primary focus is on the translation and commercialisation of research and/or knowledge. Envisaged that research and technology organisations (RTOs) including that are looking for longer-term collaborations with China would apply as lead from the UK.

How much will we fund?

- Expect UK project partner total eligible costs to be between £800k-£1m.
- Maximum grant to be given by MOST to Chinese partners capped at RMB 5m.
- Maximum 24 month project duration.



China-UK Research and Innovation Bridges competition

What is the application process?

- Parallel application processes in the UK and China: run by Innovate UK for UK project partners and MoST/CSTEC for Chinese project partners
- Two-stage application process
- Call for EOI opened: 16 Nov 2015 / Call for EOI to close: 30 March 2016 (must register by 23 Mar)
- Call for 2nd stage opens: 13 June 2016 / Call for 2nd stage closes: 24 August 2016

For full details on application:

- UK applicants please see:
https://interact.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/china%E2%80%93uk-research-and-innovation-bridges-competition
- Chinese applicants please see:
http://www.most.gov.cn/mostinfo/xinxifenlei/fgzc/gfxwj/gfxwj2015/201512/t20151203_122617.htm



Technical Scope – Agri-tech and Food – Sustainable Intensification

Background:

An increasing population, and a globally connected food chain put pressure on China's ability to feed itself. Climate disaster has an ability to effect those most vulnerable in China through increased commodity prices. Reliance on fertiliser usage alongside pressure to increase yields puts further stress on an already overburdened environment. Providing clean water, but also water where its needed is also a challenge.

Aim:

Under this theme, proposals are invited which address the challenge of sustainable intensification in agriculture.

For the purposes of this call, sustainable intensification is defined as the combination of enhanced yields and productivity (both crop and livestock) with improved resource use efficiency (using less inputs) and better environmental, social and economic outcomes, while balancing production with long-term maintenance of the natural capital on which it and other ecosystem services depend (not just “growing more with less”).

- Proposals which adopt integrated systems approaches in order to address questions in broader multidisciplinary, interdisciplinary or trans-disciplinary contexts are particularly encouraged.
 - Proposals for the application of agricultural technology (agri-tech, including the application of remote sensing to agriculture) to support sustainable intensification are particularly encouraged.
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Technical Scope - Energy

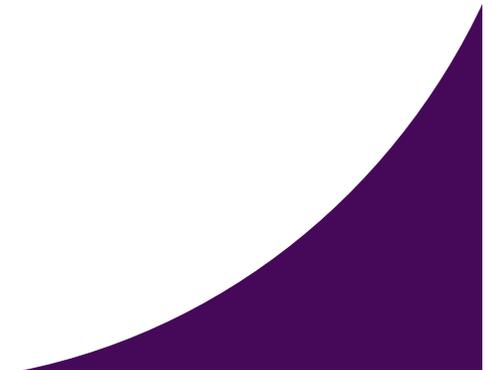
Background:

Transition and access to affordable, reliable and clean energy systems is vital for mitigating further climate change and moving towards sustainable models of urban and rural society. Improvements to existing technologies must be matched with understanding of the social and economic environment within which these technologies are deployed in new urban and rural developments. Along with retrofitting of existing developments and integration of new systems of energy production and distribution with existing infrastructures.

Aim:

Under this theme proposals are invited specifically in the development of cleaner, more affordable and secure integrated energy systems including technologies to improve the matching of energy supply with demand and localised energy systems.

This could also include increased affordability, long term stability and integration of renewable energy devices and technologies, such as solar PV in buildings.



Technical Scope – Healthcare

Background:

Despite significant science and technology advances, availability of and access to appropriate and affordable health technologies remains insufficient e.g. resource-poor settings and poor or marginalised communities. Many countries also face a major demographic shift towards an aging population, a social group which in some settings can be at higher risk of marginalisation and lack access to affordable health care while having a higher risk of serious health conditions.

Aim:

Under this theme proposals are invited to support research and innovation activities which will lead to innovative, safe, effective and affordable medical technologies which address health problems and improve quality of life in resource-poor settings; and for ageing populations.

Proposals are invited which:

- Improve the delivery of health and care services to the growing ageing population in China; and
- Develop affordable medical technologies and instruments. This could include solutions for prevention, diagnosis, monitoring, treatment and rehabilitation. Interdisciplinary proposals are encouraged.



Technical Scope – Urban

Background:

China continues to rapidly urbanise and it is estimated that as many as 1 billion people will live in an urban environment in China by 2025. The speed of this urban development has led to significant challenges eg. need for land remediation. Effective planning, design and implementation of new technologies like ICT solutions for sustainable, healthy and integrated urban infrastructures and land environment are vital to address the challenges of cities. The development of Internet of Things is also expected to bring improved efficiency, accuracy and economic benefit for cities.

Aim:

Under this theme proposals are invited which will develop new products and services to plan, manage and deliver sustainable urban infrastructures, and to improve urban land use and remediation, specifically:

- Integrated urban planning to deliver smart, efficient transportation infrastructure, such as, not limited to: automated road transport; integration of green vehicles in urban transport systems; autonomous driving in a connected environment, etc;
 - Innovative ICT solutions to build the Internet of Things, including but not limited to: broadband networks and wireless technologies, automation, large scale deployment, etc; and
 - Providing enough suitable land resources for regeneration and housing in major urban centres including the remediation of underused and abandoned land contaminated by former industrial activities or retrofitting of existing built environment and land resources for effective use.
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The Newton Fund



To be in scope for funding – ‘The ODAbility’

- ODA = Official Development Assistance money ie UK’s aid budget. ODA is the key criteria for funding. If projects do not evidence ODA criteria they will not be funded.
- It is accepted that businesses can operate within ODA.

Therefore...it’s not just about UK economic growth and job creation:

- Project outputs must be delivered in the Newton partner country
- Newton is not about funding niche high-tech markets
- Outputs must clearly generate a clear welfare improvement and impact to average people in the Newton partner country. Think – what difference does this project make to a poor Chinese person?
- If proposals don’t tell us this wider impact...

