

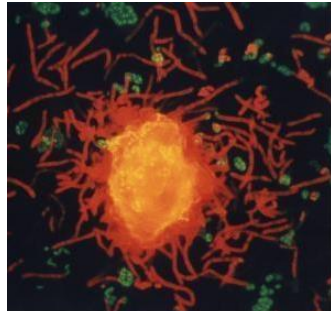
The Newton Fund

*“Research and Innovation for
Growth and Prosperity”*

April 2016

The Vision

The UK will use its strength in research and innovation **to promote the economic development and social welfare of partner countries.** By working together on bi-lateral and multi-lateral programmes with a research and innovation focus, the UK will **build strong, sustainable, systemic relationships** with partner countries. This will support the continued excellence of the UK research base and innovation ecosystem and will unlock opportunities for wider collaboration and trade.



Our partner countries



UK Delivery Partners

Our aim is to build strong, sustainable and systemic links between every part of our research base and innovation ecosystem – and every part of yours



Department
for Business
Innovation & Skills

Innovate UK
Technology Strategy Board



UK Science
& Innovation
Network

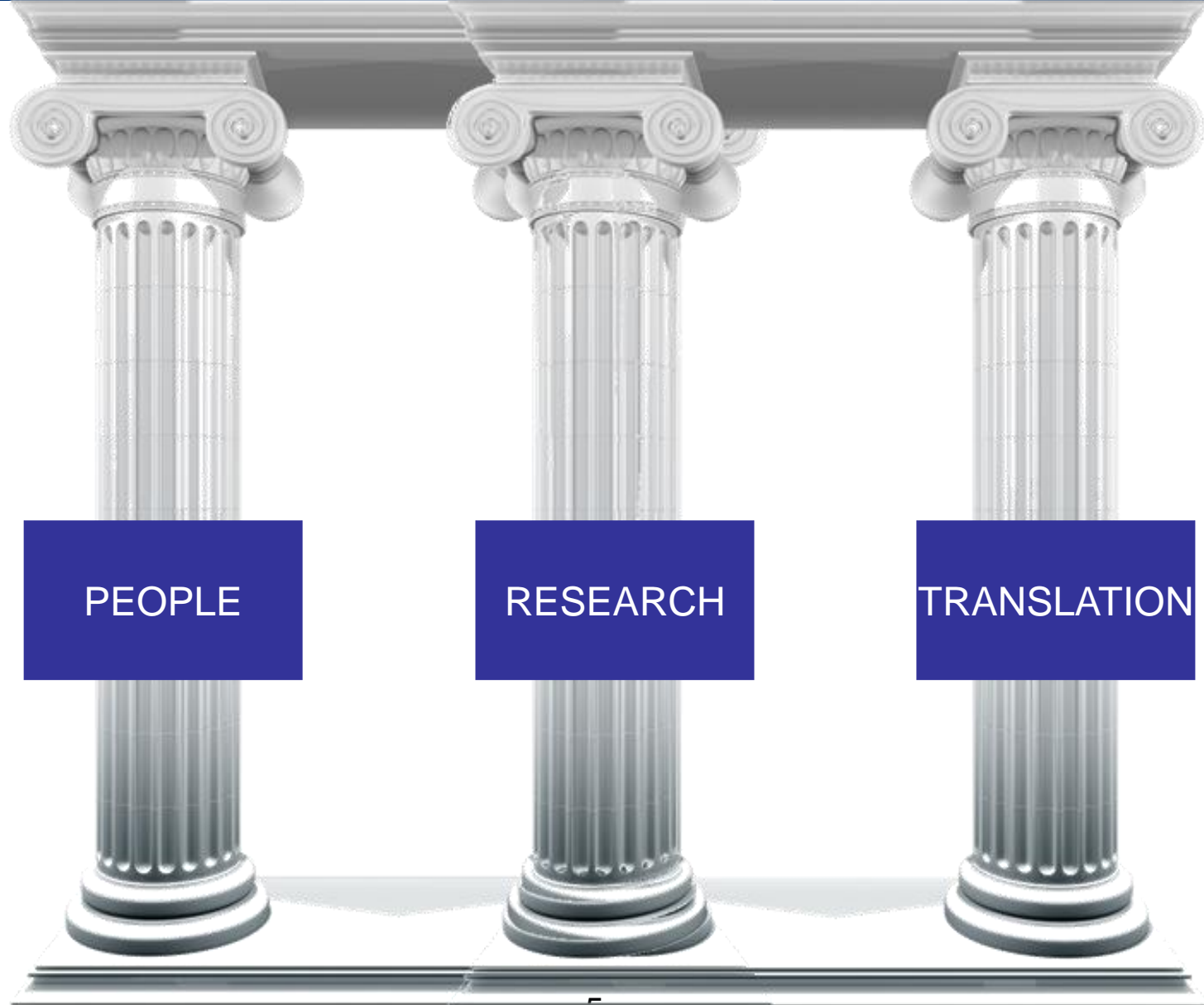


Foreign &
Commonwealth
Office

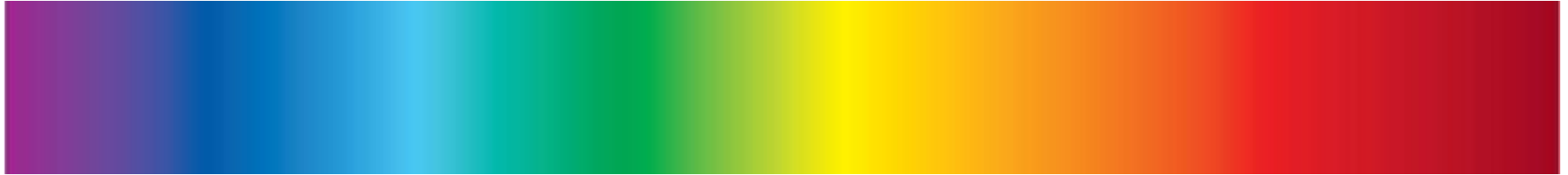
THE
ROYAL
SOCIETY



The Pillars



School Student PhD Postdoc Young Prof Academician



STEM Pipeline

PhD
Partnerships

Newton International
Fellowships

Newton Advanced
Fellowships

Technical Training
& Employability

Leadership in Innovation

Industry-Academia Partnership

Developing People's
Science & Innovation Capability

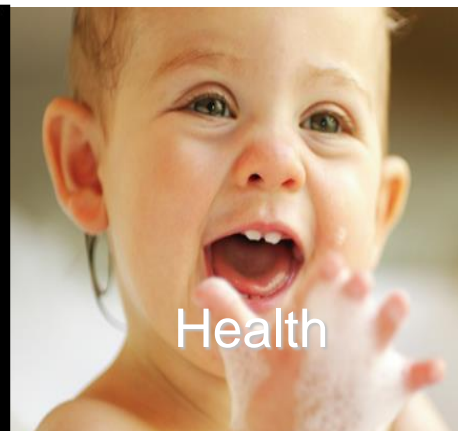


Researcher Mobility Schemes



Collaborative research programmes

- Joint research calls
- Joint centres
- Access to research and innovation infrastructure



How is the Newton Fund evolving?

Launched in April 2014 for 5 years and £75M per year

2015 UK Spending review agreed to **extend** and **expand** Newton Fund

Extension – Newton Fund extended to 2021



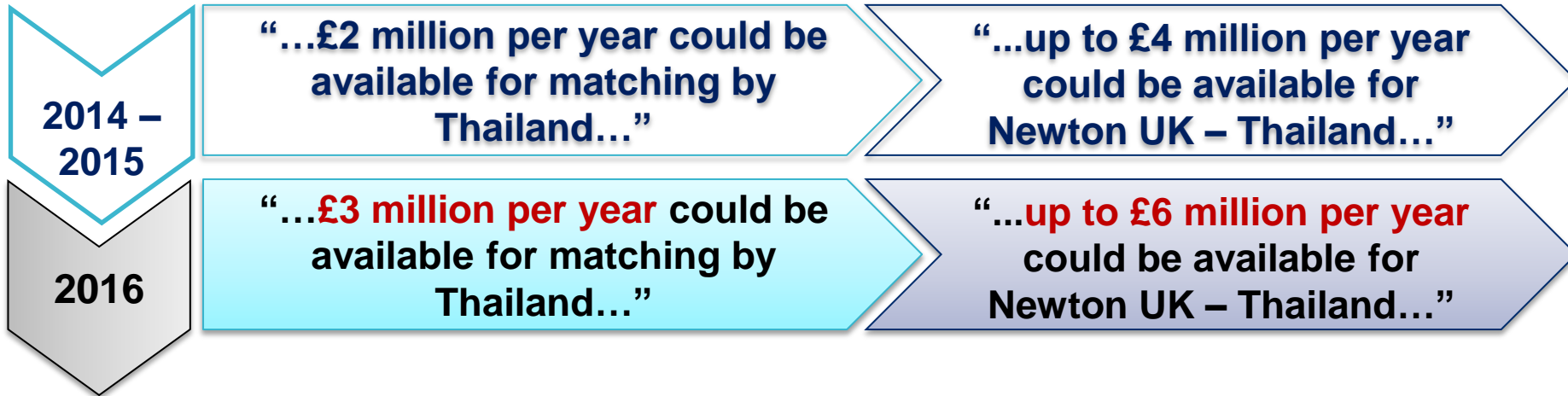
Expansion – Newton Fund doubling from £75M per year currently to £150M by 2021. £735M UK to 2021 with partner countries providing matched resources within the Fund





Newton UK – Thailand

Research and Innovation Partnership Fund



Result Chain formulation for LogFRAME

Focus Areas

- Health and Life Science
- Agritech
- Future Cities
- Environment & Energy
- Digital, Innovation & Creativity

ACTIVITIES

- People Programme
- Research Programme
- Translation Programme

OBJECTIVES

(outcomes)

- Develop a human capital in research and innovation
- Improve a scientific research standards and infrastructure
- Build a capacity for translating research and innovation to commercial
- Enhance learning capacity of a R&D regional network

GOAL

(impact)

Improvement in National Competitiveness and Quality of Life through utilizing science, research and innovation as a driving force

Thailand Delivery Partners

Our aim is to build strong, sustainable and systemic links between every part of our research base and innovation ecosystem – and **every part of yours**



Mechanism for in-country co-ordination

While our individual Delivery Partners will be forging links with their opposite numbers in-country, our Embassy, Consulate or High Commission will be making sure the whole programme really does represent a “whole system” partnership between the UK and our partner country.

- **BIS + FCO + SIN**

- **RCUK**

- **MRC**
- **BBSRC**
- **STFC**
- **EPSRC**

- **Academies**

- **Royal Society**
- **British Academy**
- **Royal Academy of Engineering**

- **British Council**

- **Innovate UK**

Pijarana Samukkan

Research and Innovation
Programme Manager

Prosperity Section

British Embassy in Bangkok

Tel. +662 305 8280

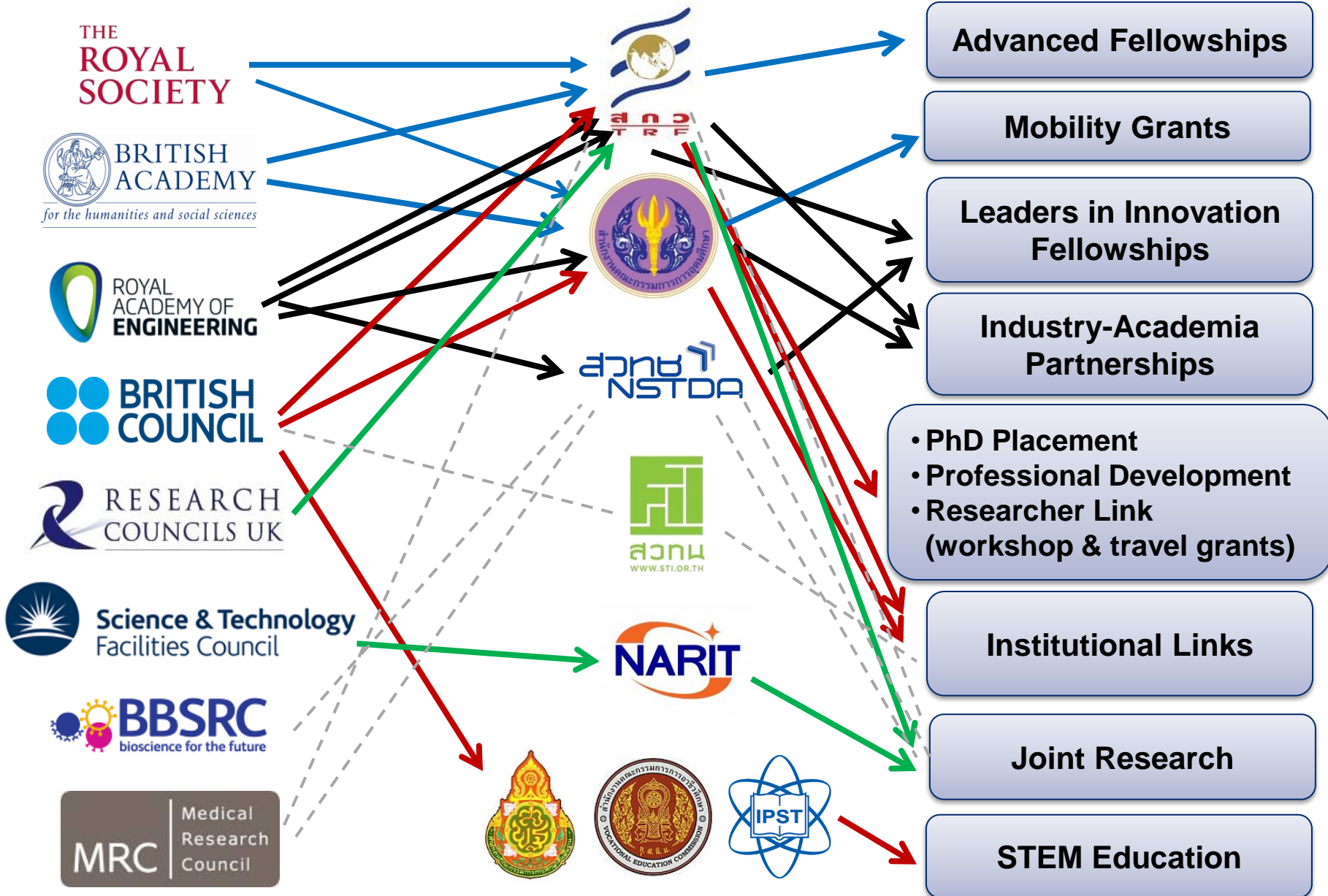
Email:

pijarana.samukkan@fco.gov.uk

- **Science, Technology and Innovation Policy Office (STI)**
- **National Science and Technology Development Agency (NSTDA)**
- **Thailand Research Fund (TRF)**
- **Office of the Higher Education Commission (OHEC)**
- **Institute for Promotion of teaching Science and Technology (IPST)**
- **Office of the Vocational Education Commission (OVEC)**
- **Office of the Basic Education Commission (OBEC)**
- **National Astronomical Research Institute of Thailand (NARIT)**



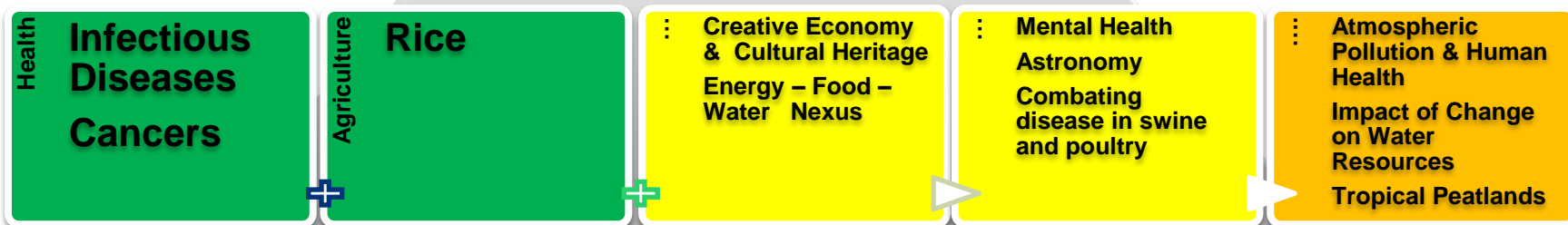
Mechanism for in-country co-ordination



Translation

- ❑ Institutional Links
- ❑ Leaderships in Innovation Fellowship
- ❑ Industry-Academia Partnerships

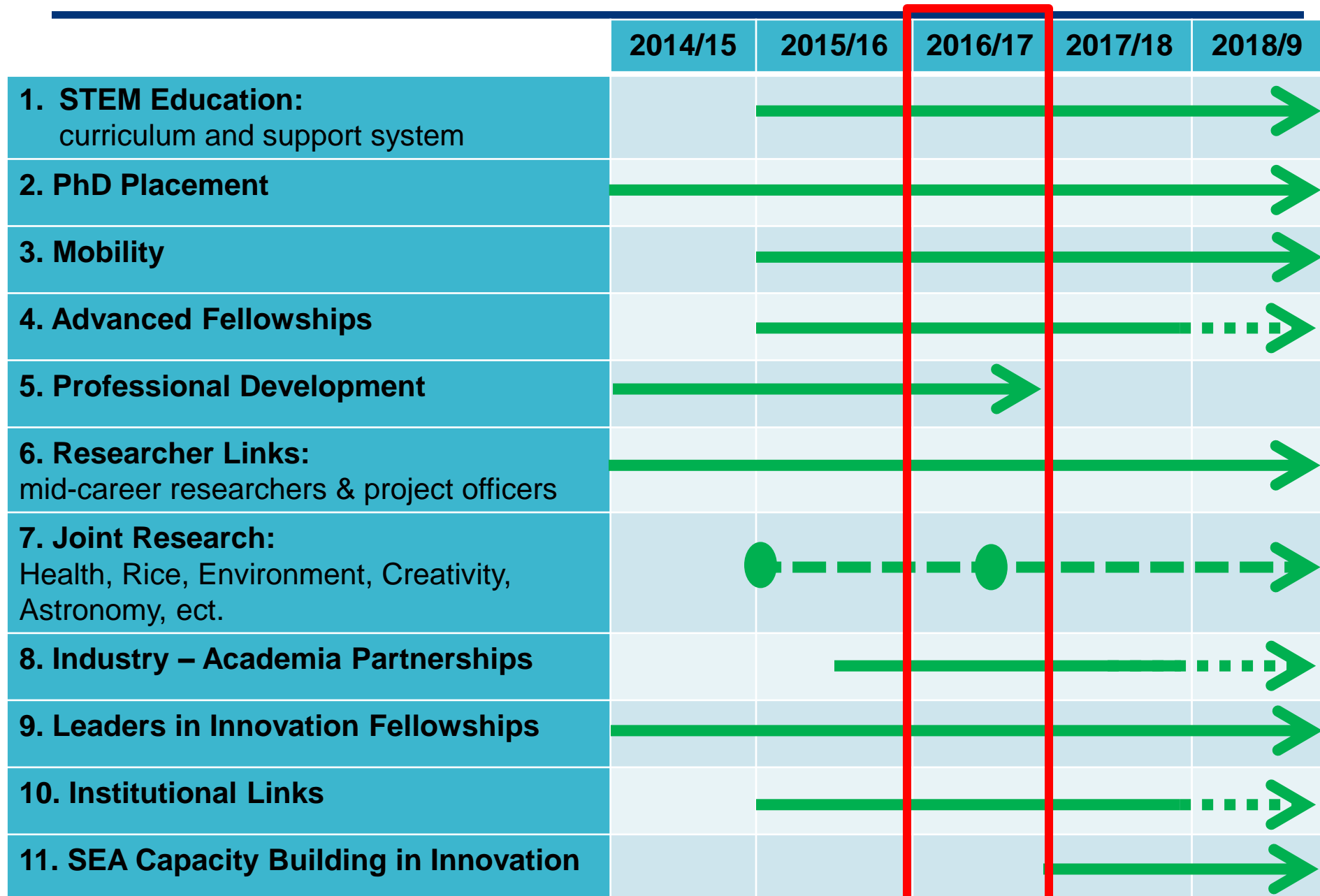
Research



People



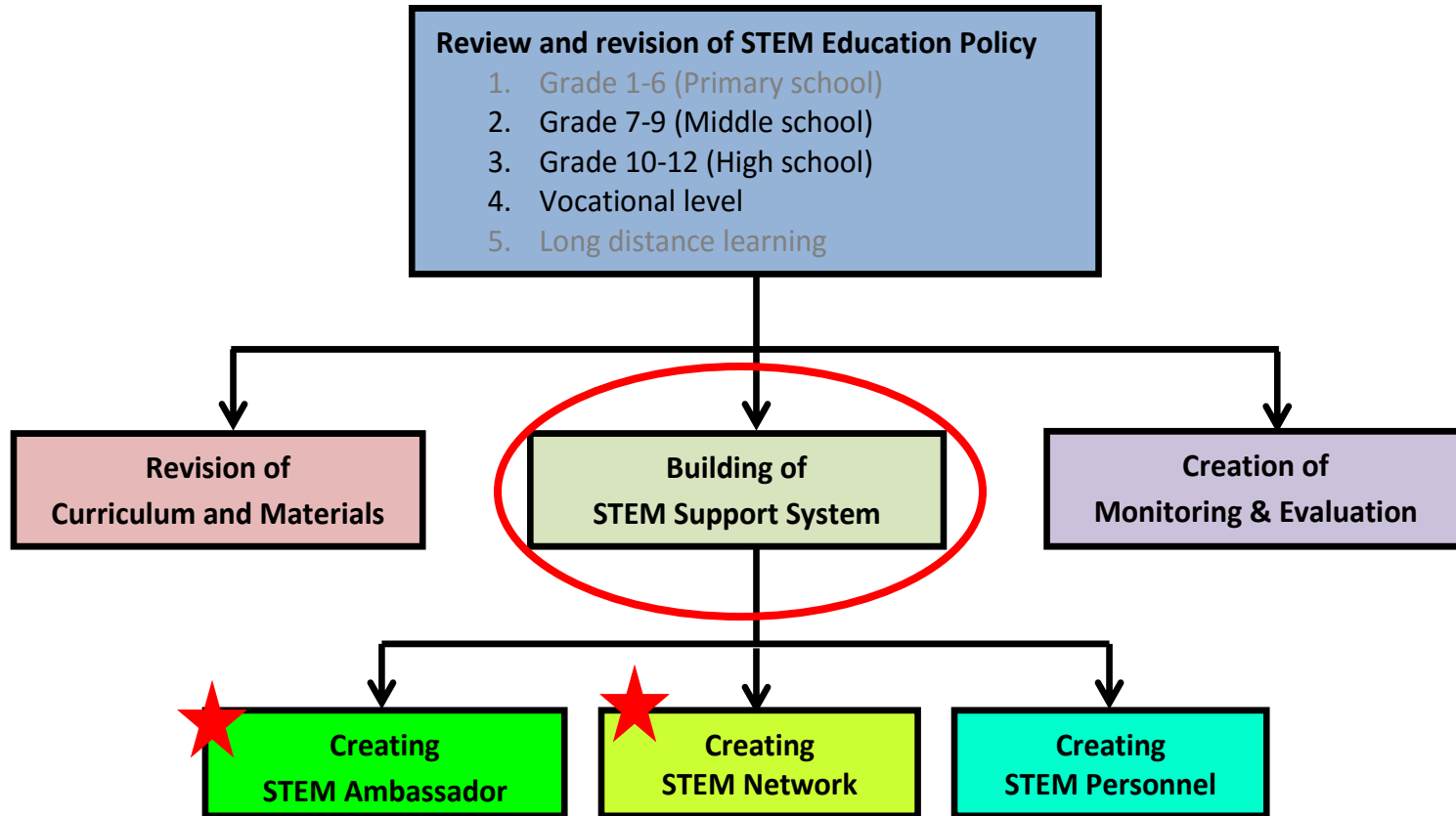
Overall Plan @ March 2016 (cont.)



Calls Open – tentative period

No.	Call	Status
1.	STEM Education: <ul style="list-style-type: none"> • STEM Ambassadors • STEM Personnel: teachers / principals • UK Expert for curriculum revision / development • UK Expert for evaluation system 	<p style="text-align: center;"> Not identified yet May Close Not identified yet </p>
2.	PhD Placement Scholars & Travel Grants for PhD Supervisors	<p style="text-align: center;">Jun –Sep</p>
3.	Mobility	<p style="text-align: center;"> Jan –Mar Apr / Jun </p>
4.	Advance Fellowships	<p style="text-align: center;"> Jan –Mar Jun – Sep </p>
5.	Professional Development	<p style="text-align: center;">June</p>
6.	Researcher Links: workshop and travel grants	<p style="text-align: center;">April</p>
7.	Joint Research <ul style="list-style-type: none"> • Health & Rice • Small research grants • Medium research grants 	<p style="text-align: center;"> Close May Mid-May </p>
8.	Industry-Academia Partnership	<p style="text-align: center;">May - Jun</p>
9.	Leader in Innovation Fellowship	<p style="text-align: center;">Sep / Oct</p>
10.	Institutional Links	<p style="text-align: center;">April & July</p>

Newton STEM Education for Thailand: year 2015/16 – 2018/19





PhD
Scholar

TRF
6 months

Newton Fund
6 months

PhD
Supervisors

1-2 weeks &
Up to 3 scholars

- Enable scholars to stay for longer periods in UK higher education institutions
- Creating more opportunities to learn from the UK's research excellence and create collaborative links.

International Collaboration Programmes (Mobility)

- Support **early career researchers** in embarking on research collaborations with their UK counterparts
- Cover Natural Sciences, Engineering, Social Sciences and Humanities (Human Sciences)
- Based around a **new joint high quality research project**
- **Awards for 1 year**
(Science & Engineering \Rightarrow £12,000 from RS + THB 500,000 from OHEC)
(Social Sciences&Humanities \Rightarrow £10,000 from BA+THB 500,000 from OHEC)
- Includes visits, travel, subsistence, research expenses
- Part of flexible mobility support seeding long-term collaborative partnerships that may go on to attract larger-scale funding

- Fellowships to support early to **mid career researchers** (up to 15 years post PhD).
- Researchers who have already established (or are well advanced in the process of establishing) a research group or research network
- Aim – To support **the development of their research strengths** through collaboration and for more formalised training and development.
- **Up to two years**, with multiple short periods in the UK
- Fellowship will provide a salary top up, research support, training costs, exchange of staff and travel and subsistence (£37k per year from the Academies + THB 1.5 million from TRF)
- Cover Natural Sciences, Engineering, Social Sciences and Humanities (Human Sciences).

THE
ROYAL
SOCIETY



BRITISH
ACADEMY
for the humanities and social sciences



Support the research environment and encourage optimal impact from research, by enabling researchers continue to develop their skills and providing supported through the 'life cycle' of their career

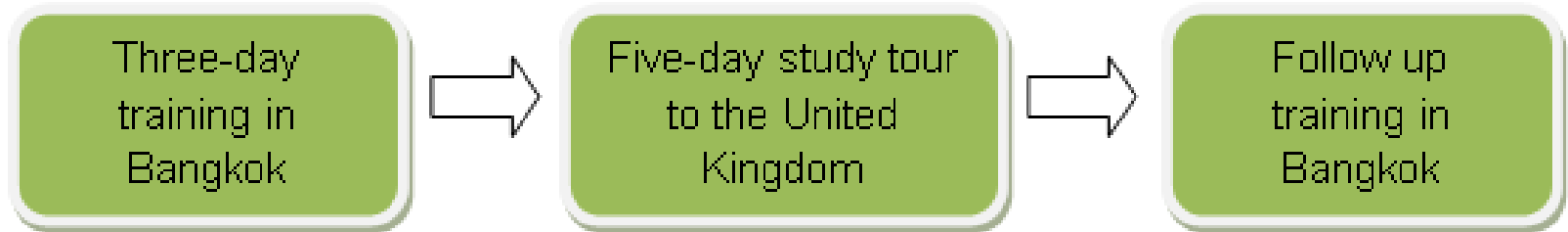
Midcareer Researchers

- A training programme for Thai researchers with 5-15 years' research experience to enhance advanced skills in managing research projects

Project Officers

- A training programme for project officers, coordinators and international officers

Midcareer



Project Officer



- The Researcher Links programme aims to stimulate initial links between, and support capacity building among, ‘rising star’ early career researchers in partner countries and the UK.

The Researcher Links: **WORKSHOP**

- bring together the UK – Thailand bilateral cohort of early career researchers to take part in a workshop

The Researcher Links: **TRAVEL GRANT**

- provide financial support for early career researchers to spend up to six months in the UK to enhance and strengthen collaboration,

Workshop

- 2 workshop leads from UK and Thailand apply for the grant
- They can identify 4 mentors
- Workshop between Thailand and UK
- At most 40 participants
- Approximate 1.5 million baht per workshop

Travel grant

- Up to 6 months in the UK
- 2 way exchange (Thailand → UK or UK → Thailand)

Small Research Call (tbc)

- Funding: £50k - £100k per grant
- Research Area:
 - Creative Economy & Cultural Heritage
 - **Energy- Food - Water Nexus**
 - Mental Health
 - Capacity Building through Astronomy
 - Combating disease in swine and poultry (including zoonotics and microbiome)

Medium Research Call (tbc)

- Funding: £300k-£400k per grant
- Research Area:
 - **Atmospheric Pollution & Human Health**
 - **Impact of Change on Water Resources**
 - Tropical Peatlands

Partnership in **capacity building for innovation** between the UK and Thailand:

Leaders in Innovation Fellowships (LIF) Programme: Entrepreneurship training and mentorship for researchers who wish to commercialise an innovation

- **Residential training programme:** Two weeks in the UK shall culminate in a final pitch day, which the winner of the final pitch competition shall be awarded.
- Fellows will be provided with **ongoing support from in-country Partner Agency**, as well as follow- up support from their coaches in the form of scheduled phone/video/email correspondence.
- **Regional Hub Events** To showcase the Leaders in Innovation Fellows innovations, build cross—regional - UK linkages and to further embed the Fellows within their local innovation ecosystem



- Lead applicant must be **Thai University** partnering with an industry organisation and a UK institution. The industry partner may also be considered as the UK institution if it is headquartered in the UK.
- Total funding of **£10,000 – £50,000 over two years** to support salary, travel and accommodation costs for activities and workshops
 - **Industry-Academia cooperation** - IAPP will fund collaboration projects between industry and academia organisations which will aim to enhance education or research outcomes in universities.
 - **Disseminating learning** - funds workshops to help spread good practices and escalate impact of the exchanges to a broader level.
 - **Building UK Linkages** - Projects must also include a UK partner institute – academic or industry - to build innovation and engineering links between both countries.



Potential Models of Collaboration

- Deliver a training programme for Engineering educators on modern teaching methods incorporating novel techniques and ICTs
- Deliver training in research methods for industry-oriented projects
- Collaborative Research Projects undertaken with Industry in partnership with both UK and The Partner Country's universities
- Student competitions for solving industry-related problems
- Enlist UK Experts to conduct Masterclasses for Partner Country Engineering lecturers and industry personnel for complex subject matter
- Send established and future research leaders to UK universities for a six month/ 1 year industry-led research programme
- Industry 'chairs' brought into Partner Country Universities and 'Buddy' with UK Universities in building Industry-Academia linkages
- Bilateral Exchanges between Industry and Academic organisations to design/ develop research agenda and curricula in Emerging Technologies

- Grants can be between £50,000 to £300,000 over two years
- Grants for establishing links between higher education, research institutions and businesses with the aim of translating research to drive economic development and social welfare in partner countries.
- Initiate new research and innovation collaborations between academic groups, departments and institutions in partner countries and the UK
- Develop existing collaborations at group, departmental and institutional level



Institutional Links: call launched in 2015

Thailand co-funder: Office of the Higher Education Commission (OHEC)

Duration of grants: up to 12 months

Size of grant: £50,000-£100,000/grant

Thematic priority areas:

- Agriculture and Food
- Energy
- Environment and Natural Resources
- Health
- Social Science and Humanities
- Biodiversity-Based Socio-Economy

Research applicable to industry will be welcome. We also encourage multidisciplinary proposals across the above themes.



How to apply?

- We accept online application only through the website of UK Delivery Partner

Login

Login

Username

Password

[Login](#)

[> Forgotten your username?](#)

[> Forgotten your password?](#)



Peer review >

Science areas >

Browse funding opportunities

Application deadlines >

Guidance for applicants >

Guidance for MRC award holders >

Board Observers

UK-Thailand: Joint Health Research Call

- **Status:** Closed
- **Open date:** 09 Mar 2015
- **Closing date:** 02 Jun 2015 16:00
- **Type:** Calls
- **Categories:** Infections and immunity, Molecular and cellular medicine, Global health

Document downloads

- > The Newton Fund
- > FAQs: Joint Health Research Call: MRC - NSTDA - TRF
- > MRC - NSTDA - TRF guidance for applicants (PDF, 252KB)
- > Annex 1 International Budget Pro-Forma TRF (DOC, 44KB)
- > Annex 2 International Budget Pro-forma NSTDA (DOC, 47KB)
- > UK-Thailand expression of interest template (DOCX, 19KB)

Researchers planning to submit to this scheme are asked to submit an Expression of Interest by **Friday, 1 May**

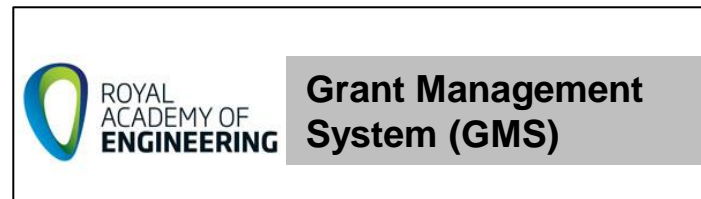
Objectives and scope

[+ more text](#)

Scientific remit

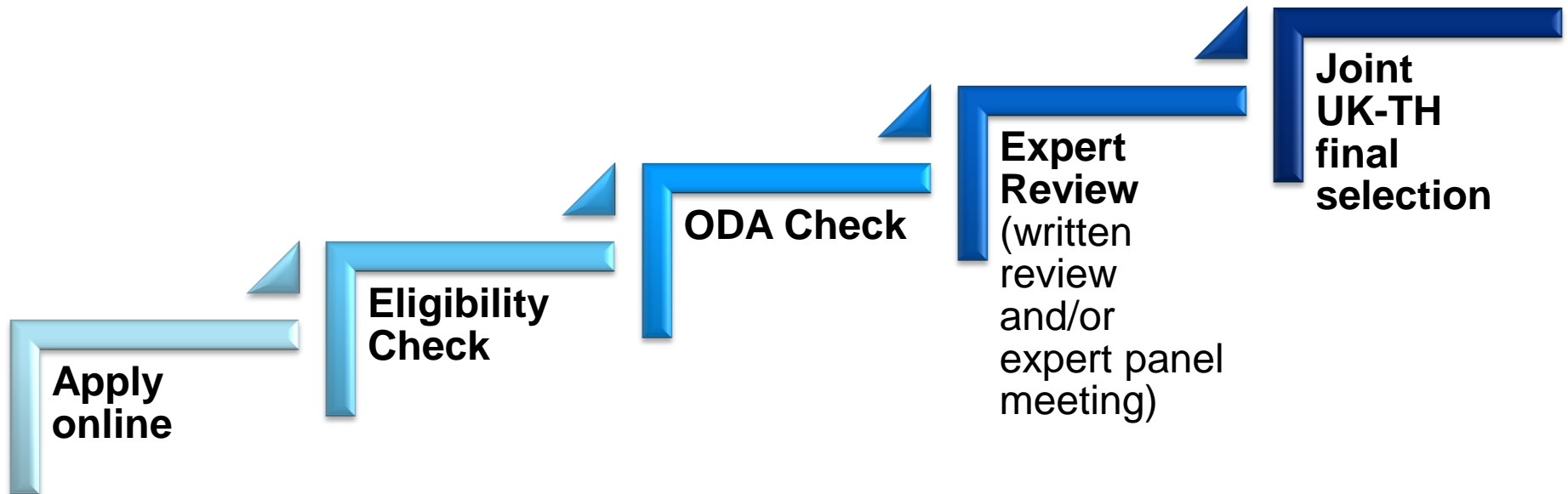
[+ more text](#)

[register](#)



- Non-binding scholarship and grant but monitoring and evaluation report is required
- Accept majority of the research fields from sciences to social sciences
- Most programme have different completion date
- Need to be accepted by host institution in the UK prior to application (evidence is required)
- Only government body, research institute, higher education institutions (private/public) can apply
- Awarded grantees can reapply but selection process is upon the guideline of each programme

Selection Process



Success to Date

Total of at least
£20 million
over 5 years from 2014
committed to UK-Thailand
science, research and
innovation collaboration



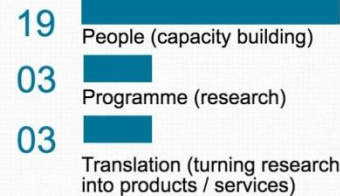
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Delivery Partners



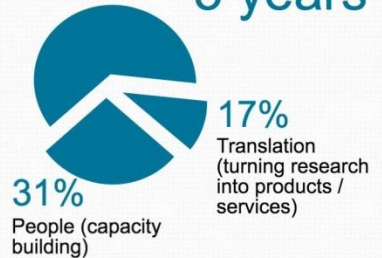
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Delivery Partners



25 activities
delivered across 3 Pillars



52% Programme (research)
Forecast allocation of spend over
5 years



771 
Research & Innovation (R&I) personnel in Natural Sciences, Engineering, Social Sciences and Humanities, have participated in Newton activities

17+ large-scale 
joint research projects in Health, Agriculture, Energy, Environment & Natural Resources and STI policy have received funding

£2.96 million
Bilateral Health Research



£2.425 million
Multilateral Rice Research

Researchers Links: workshop grants

- **Nottingham and KMITLB:** Sustainable Pig Production: the knowledge and technology exchange between UK and Thailand
- **London School of Hygiene and Tropical Medicine and Mahidol:** Genomic Epidemiology in Infectious Diseases - Pathogen Genomics Capacity Building Workshop
- **CEFAS and BIOTEC:** Scientific, technological and social solutions for sustainable aquaculture in Thailand: a key player in global aquatic food supply
- **Kings and Thammasat:** THRIVE: Improving Child and Adolescent Mental Health in low and middle income countries
- **West England and KKU:** Short Food Supply Chains: A pathway to sustainable development and employment creation
- **University of London and Mahidol:** Documenting and preserving indigenous languages: principles, practices and tools
- **Imperial and Bangkok U:** Women Entrepreneurship

Institutional Links

- **King's College London and Mahidol:** Development and Evaluation of Chimeric Antigen Receptor T Cells (CAR-T Cells) for Treatment of Cancers
- **Institute of Food Research and Kasetsart:** Health as a driver for adding value to the Thai rice industry
- **Newcastle University and Thammasat:** Highly-energy efficient and cost effective biodiesel production from vegetable oil sources in Thailand
- **London School of Hygiene & Tropical Medicine and Khon Kaen:** Improving the diagnosis and prevention of melioidosis and tuberculosis in Thailand and the UK
- **University College London and Chulalongkorn:** Molecular pathology of rare genetic diseases in children
- **University of Liverpool and Khon Kaen:** Role of Innate immune responses in the pathogenesis of opisthorchiasis and development of cholangiocarcinoma (bile duct cancer) in rural communities in Thailand
- **Imperial, Cambridge and Bangkok U:** Women Entrepreneurship Research Links

Industry-Academia Partnerships

- **KMUTT:**
Properties and Durability of Low-Carbon Cement and Concrete and Their Applications
- **Mahidol:**
RailExchange: UK-Thailand rail professionals and education exchange
- **KMUTNB :**
Establishing Partnerships in Development of Ceramic Membrane Reactor for Catalytic Partial Oxidation of Methane using Nitrous
- **Mahasarakham:**
Advanced reader model for magnetic recording via multi-scale approach



Official Development Assistance



Jane Casey – Statistics Adviser
Department for International Development



A bit of background...

- Definition agreed in **1969** by the OECD DAC (*Development Assistance Committee*).
- ODA is the key measure used in most **aid targets** and assessments of **aid performance**.
- DAC members agree definition – UK can influence but cannot set/change the definition.
- **1970** most DAC members agreed to long term objective of **0.7% ODA target**.
- **2004 UK govt.** set target to achieve 0.7% by 2013.
- Measured on a **calendar year** basis
- Detailed programme level data scrutinised and published by the OECD



Primary purpose test...

“each transaction of which is administered with the promotion of the economic development and welfare of developing countries as its main objective”.



**Primary purpose –
benefitting the UK**



Economic Development and Welfare as the main objectives: *Examples*

- **Social and cultural programmes**
- **Assistance to refugees**
- **Civil police work**
- **Research** “ *Only research directly and primarily relevant to the problems of developing countries may be counted as ODA.*”



Not ODA or Not reportable as ODA

- **Military aid:** The supply of military equipment and services, and the forgiveness of debts incurred for military purposes.
- **Peacekeeping:** The enforcement aspects of peacekeeping.
- **Anti-Terrorism**



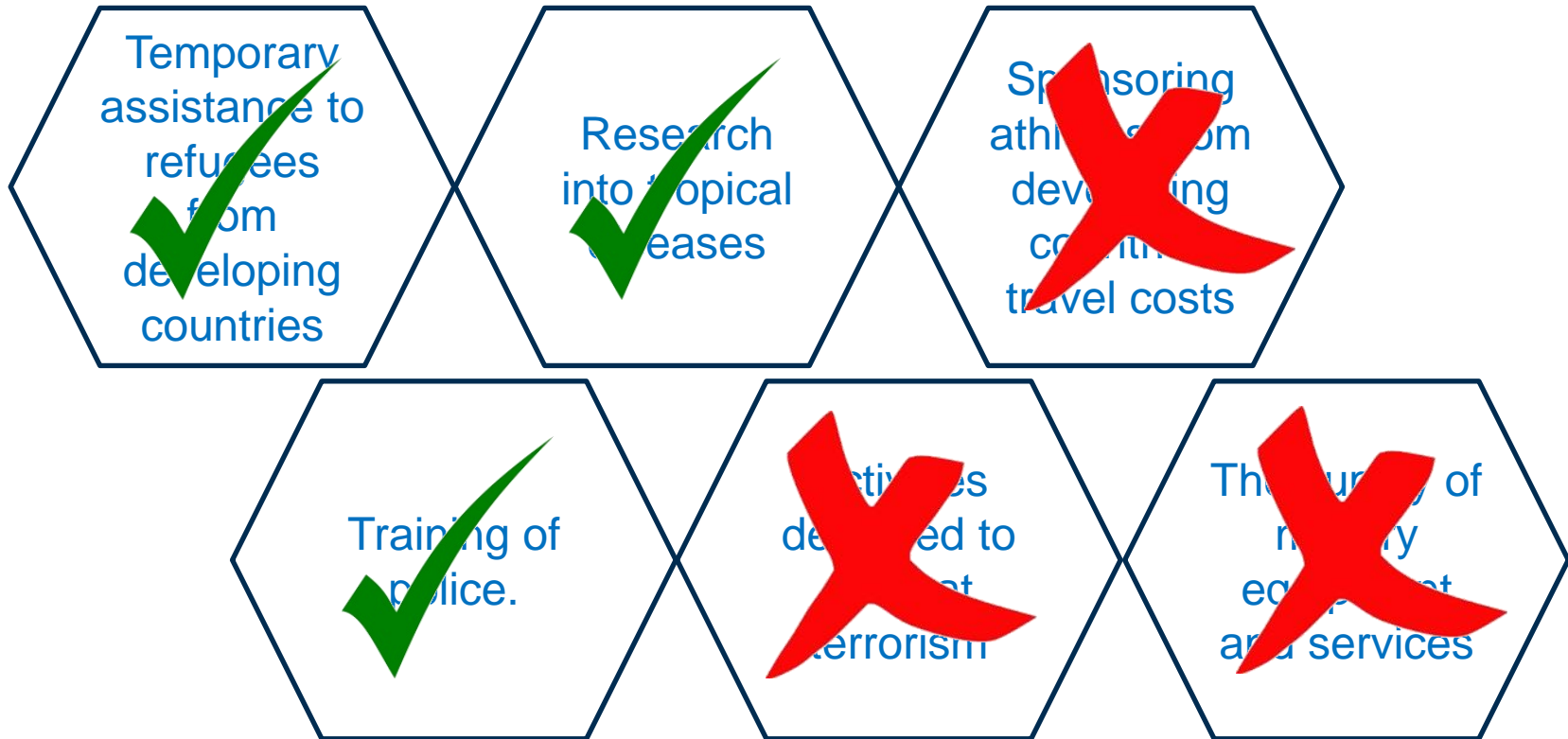
Depends on objective

Nuclear energy ???

- ✓ The peaceful use of nuclear energy, including construction of nuclear power plants, nuclear safety and the medical use of radioisotopes
- ✗ Military applications of nuclear energy and nuclear non-proliferation activities



Is it ODA?





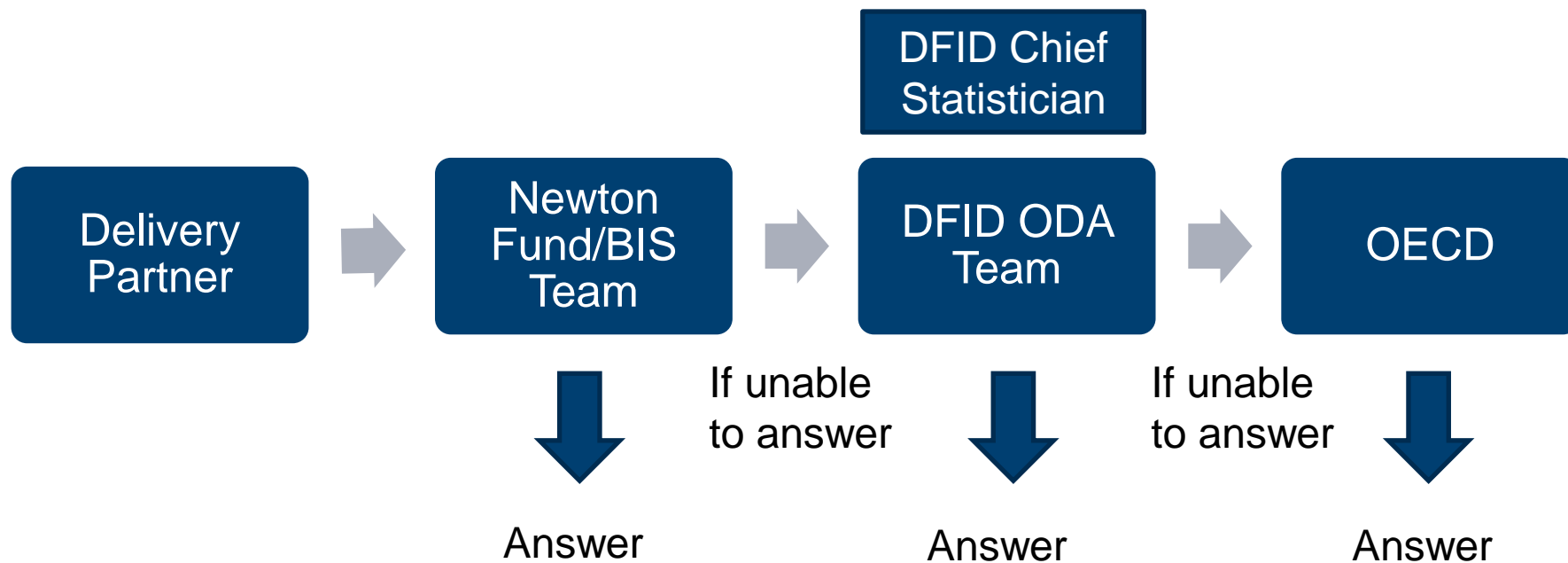
Where to find out more....



<http://www.oecd.org/dac/stats/officialdevelopmentassistedefinitionandcoverage.htm>

<https://www.gov.uk/government/organisations/department-for-international-development/about/statistics>

ODA eligibility process





Newton Fund: Consideration for ODA and IDA

- Is the project addressing the economic development and welfare of the country in question?
- Are the countries involved on the DAC list of ODA recipients?
- Is there a development need that my project or activity is addressing?
- Is this credible or is there evidence of the need?
- How would this project or activity be applied in the country?
- What would the impact of my project or activity be, and who would benefit?
- How does my project or activity contribute to sustainable development?
- Would this lead to a reduction in poverty in a developing country?
- What would success for this activity look like?
- How would success or impact be measured?

What if I don't have a UK partner institution?

Supporting and finding partners in the UK

- Support institutional matching and institutional partnerships
- Assistance to both UK and Thai researchers to connect with potential partners for the Researcher Links and Institutional Links calls

Email: newton@international.ac.uk

When contacting us, please ensure that you include the following information:

- Which call you wish to find a partner for (Researcher Links Workshops/Researcher Links Travel Grants/ Institutional Links)
- Area of research
- An abstract of your proposed topic for collaboration
- Information about you (the researcher) and your institution
- CV of the lead applicant including publications





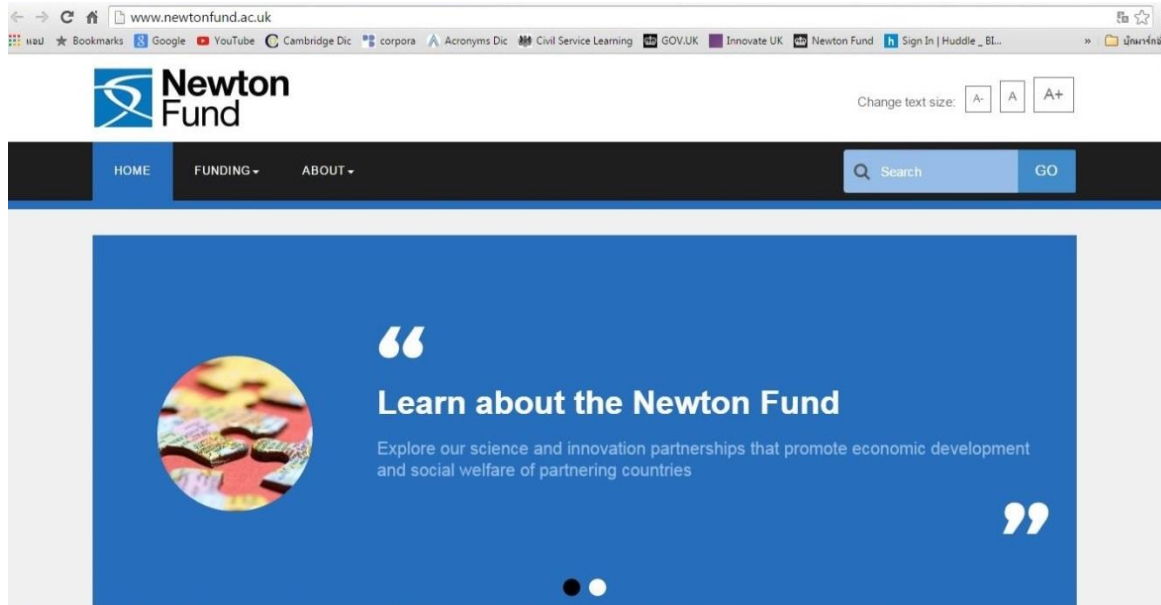
How to find researchers in the UK to work with



Rachael Sara-Kennedy, from the UK Higher Education International Unit, offers guidance on finding a UK academic to collaborate with.

All About Newton

<http://www.newtonfund.ac.uk/>

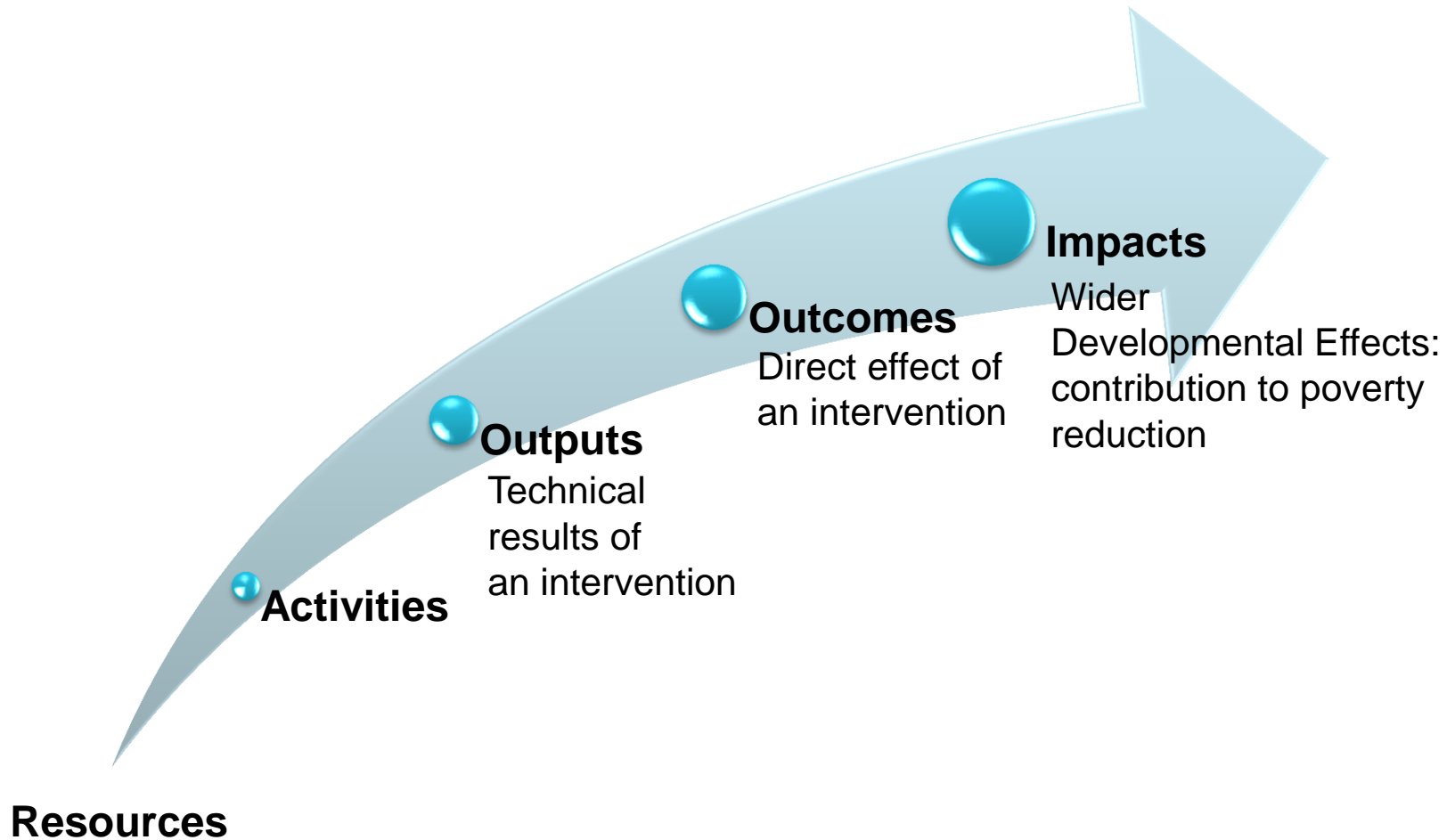


- About Newton Fund
- **How to find UK partners**
- **Funding Opportunity**
- **What is ODA**
- Partnering Countries
- Partnering Organisations
- Key Facts & Figures
- Update News : Tweets

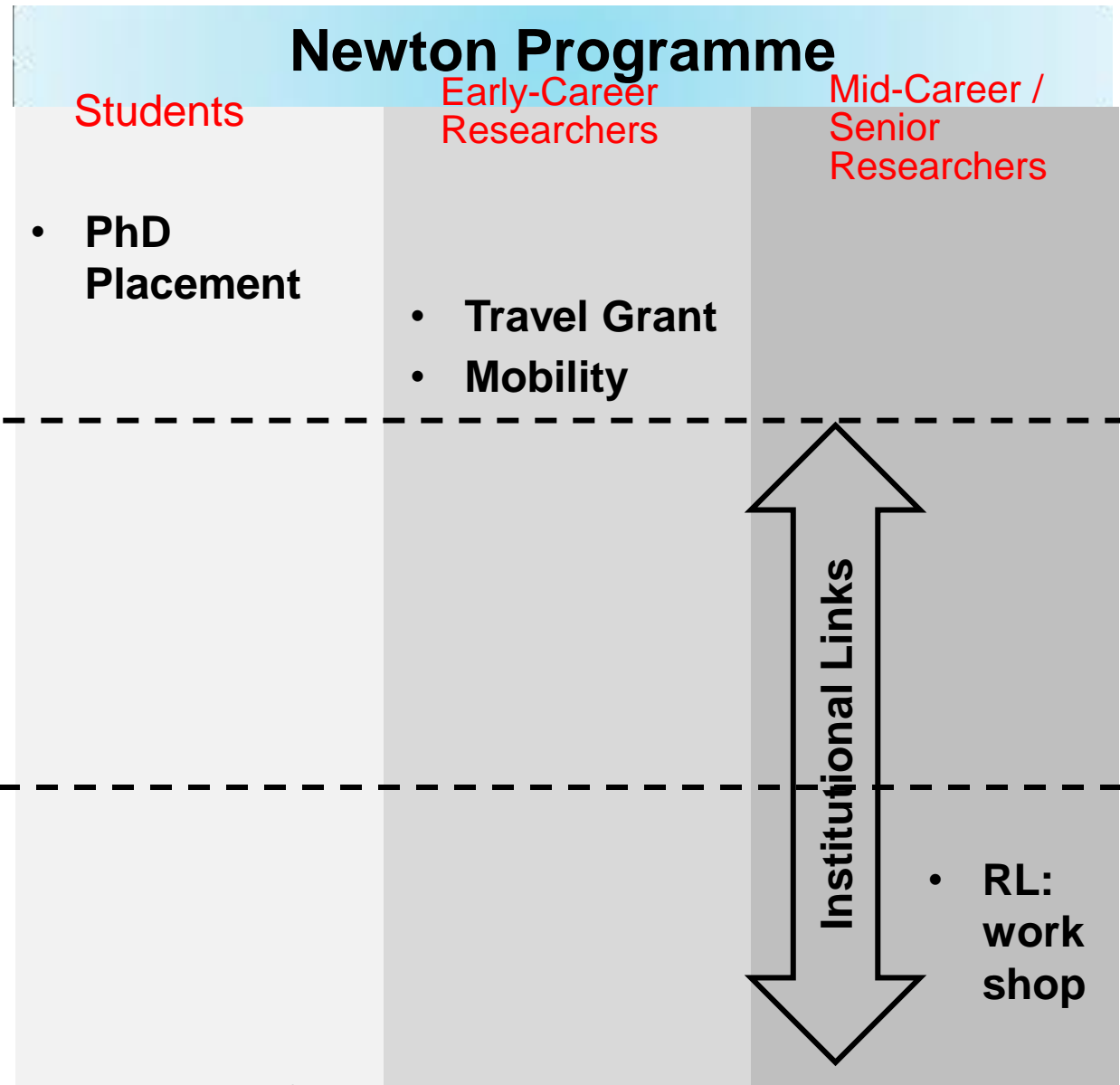
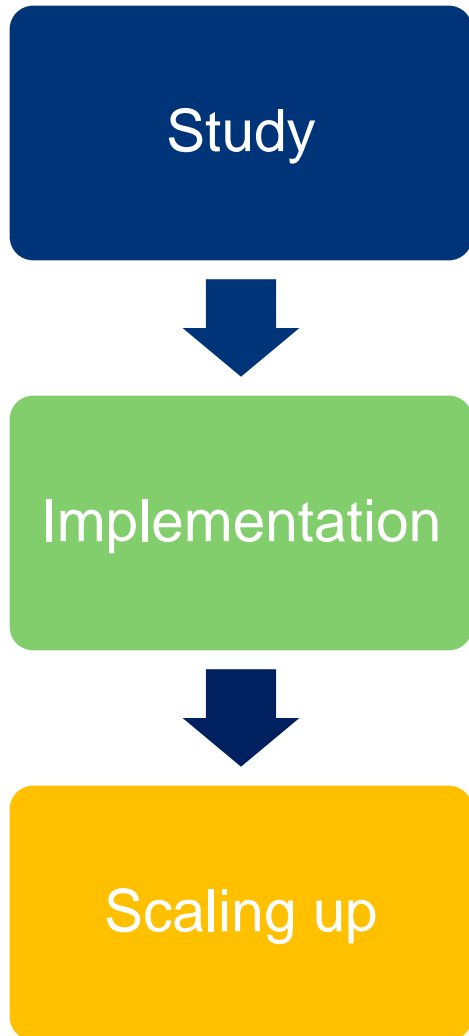
Key Points



- **Newton Fund is the Official Development Assistance**
- **Primary purpose of the Newton Fund is to promote the economic development and welfare of the partner country.** It must be clear that there is a development problem affecting poor people and that the project will address this.
- **Each Newton Programme has specific target group and objective**



Note: Clare explanation on the pathway to impact with enough information



THANK YOU



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