



# Newton Fund in Indonesia

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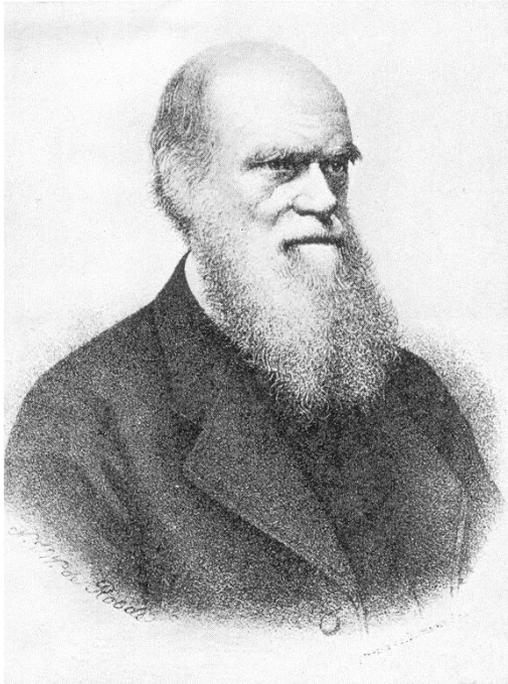
Global Education Dialogues, Medan  
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# Then: The Lone Scientist?



**Charles Darwin**

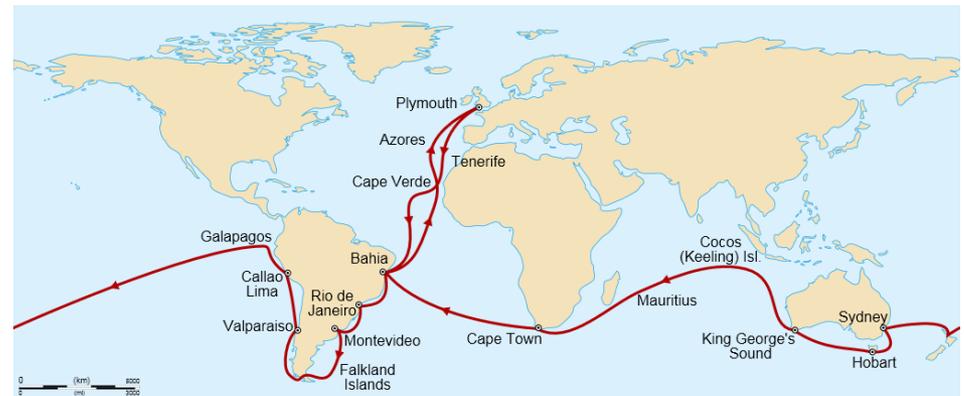
**Reclusive?**

**Working alone for 20 years**

**Formulating a theory in the comfort of his study**

**But**

- **Observations and correspondence around the world**



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# Now: The Collaborative Scientist

Scientists working together from all over the world

Big data experiments

Rise of the multi-author  
paper (3000+!)

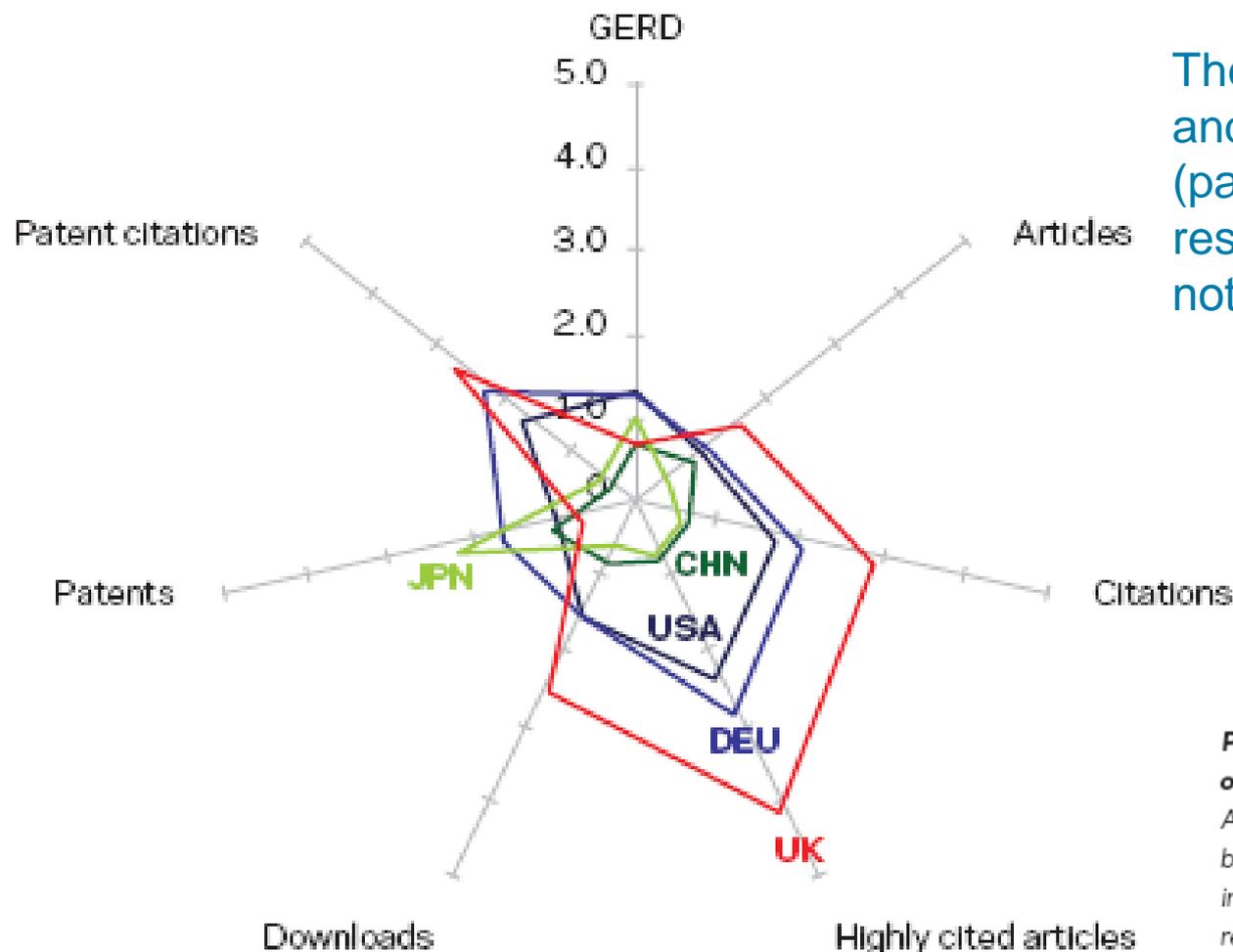
Shared goals breed  
collaboration



# Virtuous circle



# UK researchers are very productive



The UK is strong in research and a driver for innovation (patent citations), even if researchers themselves are not filing as many patents...

**Panel B: Relative share of key input and output indicators per researcher.**

All data are expressed as world share divided by world share of researchers, giving a relative index where a value of 1.0 implies that, per researcher, the indicator is equal to the world average.

Source: *International Comparative performance of the UK Research Base*, BIS 2013

# The British Council aims to build relationships and trust

- We promote cultural relationships and the understanding of different cultures between people and peoples of the United Kingdom and other countries;
- promote a wider knowledge of the United Kingdom;
- develop a wider knowledge of the English language;
- *encourage cultural, scientific, technological and other educational cooperation between the United Kingdom and other countries; or*
- otherwise promote the advancement of education



# What is the Newton Fund?

- **The Newton Fund is a £375 million fund operated by the UK's Department of Business, Innovation and Skills**
- **It will run for 5 years starting from 2014/15 in 15 countries**
- **There will be approximately £2 million per year for Indonesia**
- **There must be an equivalent contribution from the partner country**
- **There must be an open, transparent and competitive call for each activity**
- **The activity must be in line with OECD Overseas Development Assistance eligibility criteria**
- **There must be a UK and partner country element in each activity**

# What is the aim of the Newton Fund?

**“Through the Newton Fund, 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.”**

# Newton Fund partner countries



# The UK Delivery Partners



Department  
for Business  
Innovation & Skills

**Innovate UK**

Technology Strategy Board



UK Science  
& Innovation  
Network



Foreign &  
Commonwealth  
Office



**BRITISH  
ACADEMY**

*for the humanities and social sciences*



The **Academy** of  
**Medical Sciences**

THE  
**ROYAL  
SOCIETY**



# East Asia priority themes

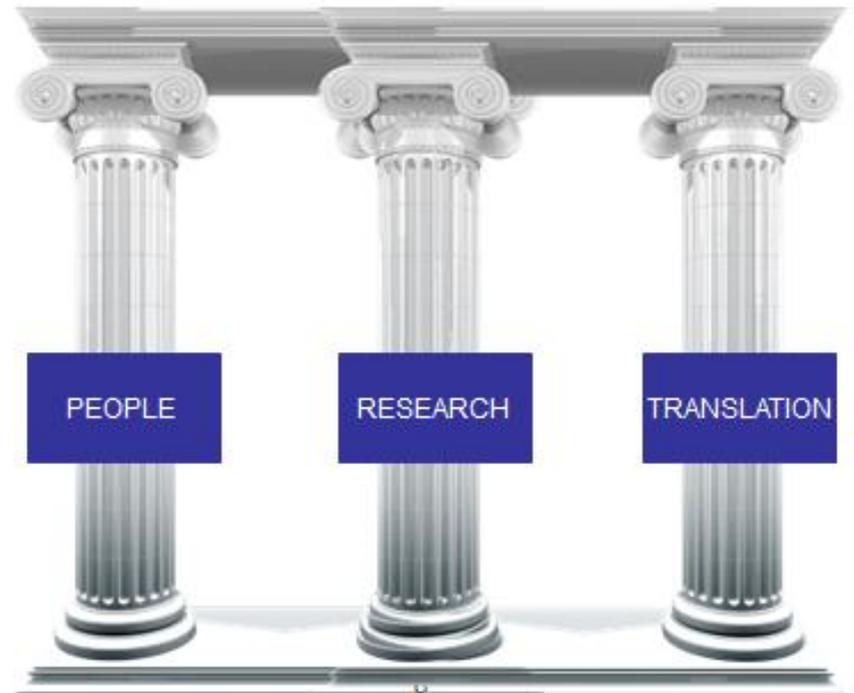
- **Health and Life sciences**
- **Improving environmental resilience and energy security**
- **Future cities**
- **Agriculture and food security**
- **Digital, innovation and creativity**
- **Community resilience**

# Three pillars

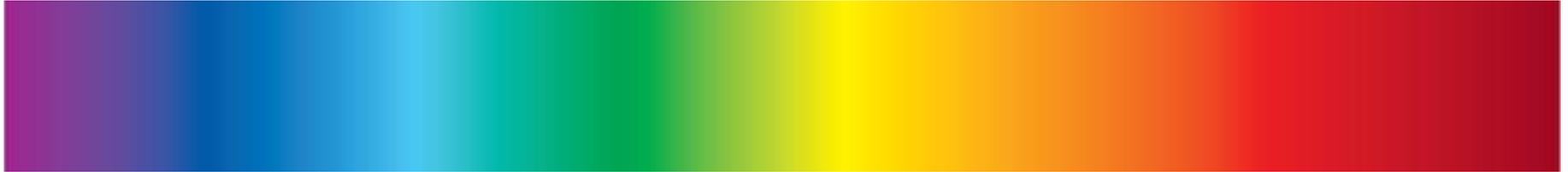
**People:** Improving science and innovation expertise (known as ‘capacity building’), student and researcher fellowships, mobility schemes and joint centres.

**Research:** Research collaboration on development topics.

**Translation:** Innovation partnerships and challenge funds to develop innovative solutions on development topics



# School Student PhD Postdoc Young Prof Academician



STEM Pipeline

PhD  
Partnerships

Newton International  
Fellowships

Newton Advanced  
Fellowships

Technical Training  
& Employability

Leadership in Innovation

Developing  
Science & Innovation Capability

← Researcher Mobility Schemes →

# What is an equivalent contribution?

- **Intended to guarantee mutuality, a genuine partnership, sustainability and relevance**
- **In some countries, e.g. Malaysia, the government has agreed to match funding**
- **In other countries such as Vietnam, the Philippines and Indonesia a G2G agreement is not (yet) in place**
- **BIS refers to 'equivalent effort'. This can include match funding in the form of cash, in-kind contribution, like for like contribution or co-creation**
- **A third party can match the funding, e.g. industry, national agency as well as university or research institution**

# What is ODA eligibility?

- **The Newton Fund is part of the UK's Overseas Development Assistance funding – so any activities must be ODA eligible**
- **The definition of what qualifies as ODA is set by the OECD Development Assistance Committee (DAC). It is the key measure for aid targets and assessments of aid performance.**
- **There is a list of countries that qualify for ODA which is updated every 3 years based on World Bank GNI per capita data and currently includes Indonesia**
- **An ODA eligible activity is one where the Primary Purpose of each activity has the promotion of the economic development and welfare of ODA eligible countries as its main objective.**

# People pillar

- **Newton Fund Advanced Fellowships:** fellowships to develop research capacity by linking early- to mid-career research group leaders with UK research groups. The Royal Society, Academy of Medical Sciences and British Academy.
- **Newton International Fellowships:** early career researchers fellowships. The Royal Society, Academy of Medical Sciences and British Academy
- **Newton Leaders in Innovation Fellowships:** fellowships focussed on developing academia and industry links. The Royal Academy of Engineering
- **Newton International Exchanges:** shorter exchanges for UK and partner country researchers e.g. summer placements in labs. The Academies and British Council
- **PhD Partnerships:** British Council and RCUK

# People pillar

- **Newton Researcher Links:** a programme to stimulate initial links between, and support capacity building among, 'rising star' early career researchers in partner countries and the UK.
- **Professional development and engagement:** skills for researchers and research support staff, including English skills; community engagement; support for research governance and strategies at institutional level etc.
- **STEM (Science, Technology, Engineering and Maths) Education:** support for STEM learning at the schools level
- **Technical training and employability:** building the science and innovation workforce outside academia

**British Council and the International Unit**

# Research pillar

- **Joint research calls**
- **Centres of excellence**
- **Access to research and innovation infrastructure**

## Research Councils



# Translation pillar

- Research and Innovation Bridges
- Global Innovation Capacity Building
- Developing entrepreneurial skills in S&I small and medium sized enterprises

## InnovateUK and the British Council



# Translation pillar activities

- **Global Innovation Capacity Building:** working with government ministries and innovation agencies to share effective policies and practice. InnovateUK
- **Research and Innovation Bridges:** Institutional “bridges” between UK Catapults and centres of innovation focusing on particular challenge areas. InnovateUK, Research Council
- **Newton Institutional Links:** Initiate new research and innovation partnerships between groups, departments and institutions and develop existing partnerships at group, departmental and institutional level. British Council. RCUK

# British Council and International Unit activities

British Council Indonesia will be working with the International Unit and other UK delivery partners in the following areas:

- **PhD/short-term placement scholarships**
- **Researcher Links: joint workshops for Early Career Researchers**
- **Institutional Links: initiate new and develop existing research and innovation partnerships**
- **Professional Development: Researcher Connect**
- **STEM Education: support for STEM in school curriculum**
- **Technical training: training lab technicians**

**For more information please contact**

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**Terima Kasih**