

Pollination and International Development Webinar

An international webinar bringing together a selection of key academics, development NGOs, international organisations and UK funding bodies to highlight the relevance of pollination to international development, discuss knowledge gaps and identify channels for capacity building

Any problems or questions, please email: events@ukcds.org.uk



Pollination and International Development Webinar

Speaker: Thomas Timberlake - *UKCDS*



Pollination and Development Researcher
UK Collaborative on Development Sciences

Pollination Ecology PhD Student
University of Bristol



The UK Collaborative on Development Sciences – who we are:

- A group of 14 UK government departments and research funders working in international development
- A small coordinating team (the Secretariat) brings this group together with researchers and other key organisations to share knowledge and identify opportunities for collaboration.
- By stimulating collaboration, UKCDS ensures the best science is funded and used to benefit international development, as well as the UK.



Department
for Business
Innovation & Skills



Department
for International
Development



Government
Office for Science



Department
of Health



Department
of Energy &
Climate Change



Department
for Environment
Food & Rural Affairs



Foreign &
Commonwealth
Office



The Scottish
Government



EPSRC

Engineering and Physical Sciences
Research Council



wellcome trust

In partnership with

BILL & MELINDA
GATES foundation

Why are pollinators important?



Important for 90%
of wild flowering
plants...



...and 75% of
crop plants



Provide a service
worth US \$235-
577bn each year



Provide
important
cultural values

nature
International journal of science

Safeguarding pollinators and their values to human well-being

Simon G. Potts✉, Vera Imperatriz-Fonseca, Hien T. Ngo, Marcelo A. Aizen, Jacobus C. Biesmeijer,
Thomas D. Breeze, Lynn V. Dicks, Lucas A. Garibaldi, Rosemary Hill, Josef Settele & Adam J.
Vanbergen

Lots of international attention



Convention on
Biological Diversity

Barbara Gemmill-Herren,
FAO

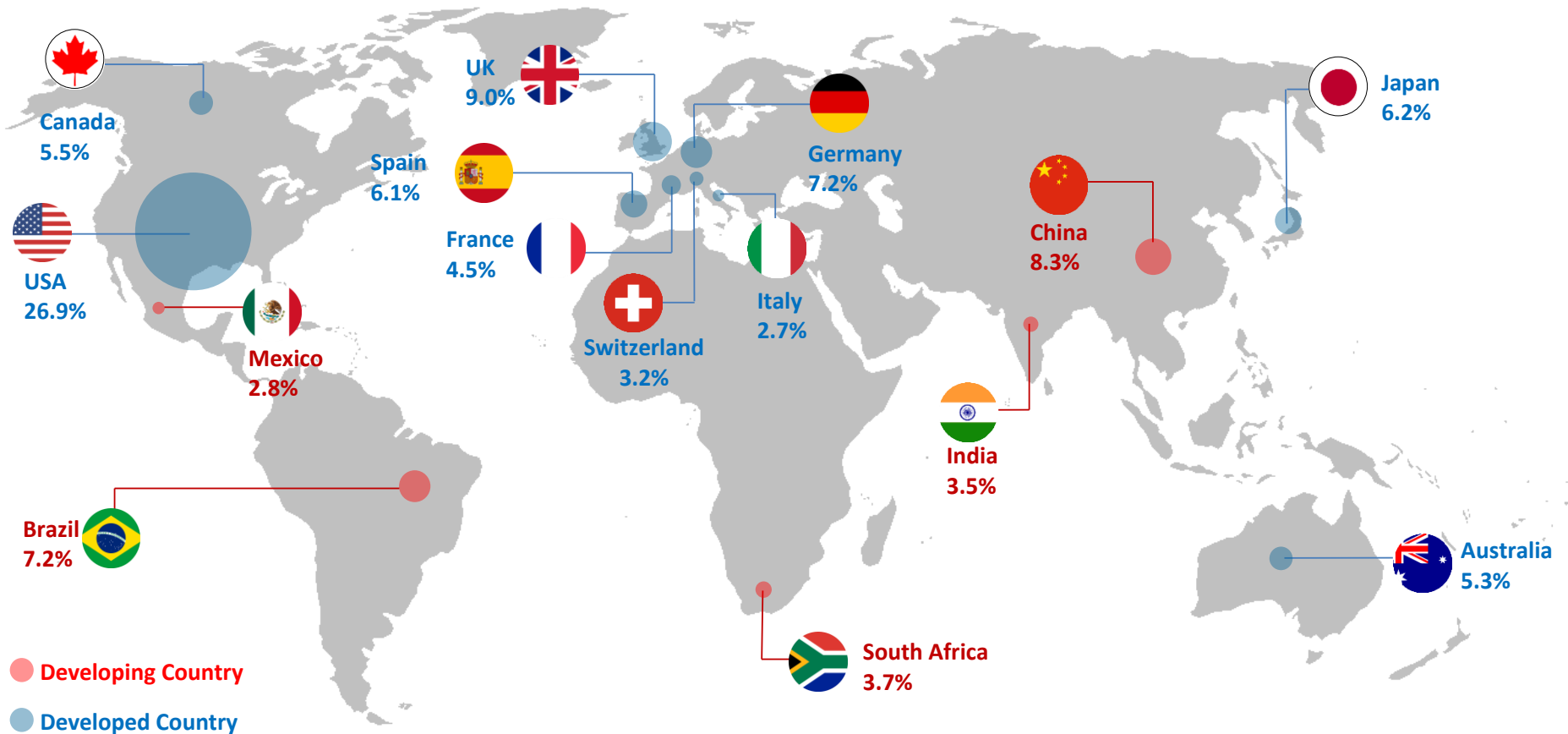


The assessment report on
**POLLINATORS,
POLLINATION AND
FOOD PRODUCTION**
SUMMARY FOR POLICYMAKERS



Hien T. Ngo,
IPBES Secretariat





*Total of 24 565 publications since 1998

World map showing the top 15 countries contributing to pollination science papers
 (measured as number of papers co-authored by academics in each country)
Web of Science 1998 - 2018

Why is pollination relevant to international development?

Many human livelihoods depend on effective crop pollination...

- More than 2bn people in developing countries are smallholder farmers
- Important cash crops such as coffee and cocoa are highly pollinator-dependent
- Reliance on pollinator-dependent crops is growing much faster in the developing world
- People in developing countries are far more vulnerable to yield drops or price fluctuations

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Why is pollination relevant to international development?

Pollinator declines are likely to impact human health...

- Many of the most nutritionally important food groups such as fruit, nuts, seeds and vegetables are highly pollinator-dependent
- Declines in pollination services are therefore likely to reduce access to these foods, increasing micronutrient deficiencies and threatening global health
- Sam Myers will expand upon this...



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Why is pollination relevant to international development?

Beekeeping provides a range of important economic and social benefits...

- Products derived from beekeeping such as honey and beeswax provide important sources of income for many developing communities
- This can also have important social, cultural and health benefits
- Janet Lowore from Bees for Development will expand upon this



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Why should we be worried?

Lack of data on pollinator trends in developing world, but many threats are the same...

- Agriculture is intensifying rapidly across much of developing world
- Much native habitat being lost
- Very limited knowledge on pollinator taxonomy, population trends and management strategies for supporting pollination services

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Many knowledge gaps in the developing world...

- Taxonomy of pollinators (particularly Africa)
- Population trends
- Drivers of decline
- Pollination deficits – which crops and what's causing them?
- Management of pollination services

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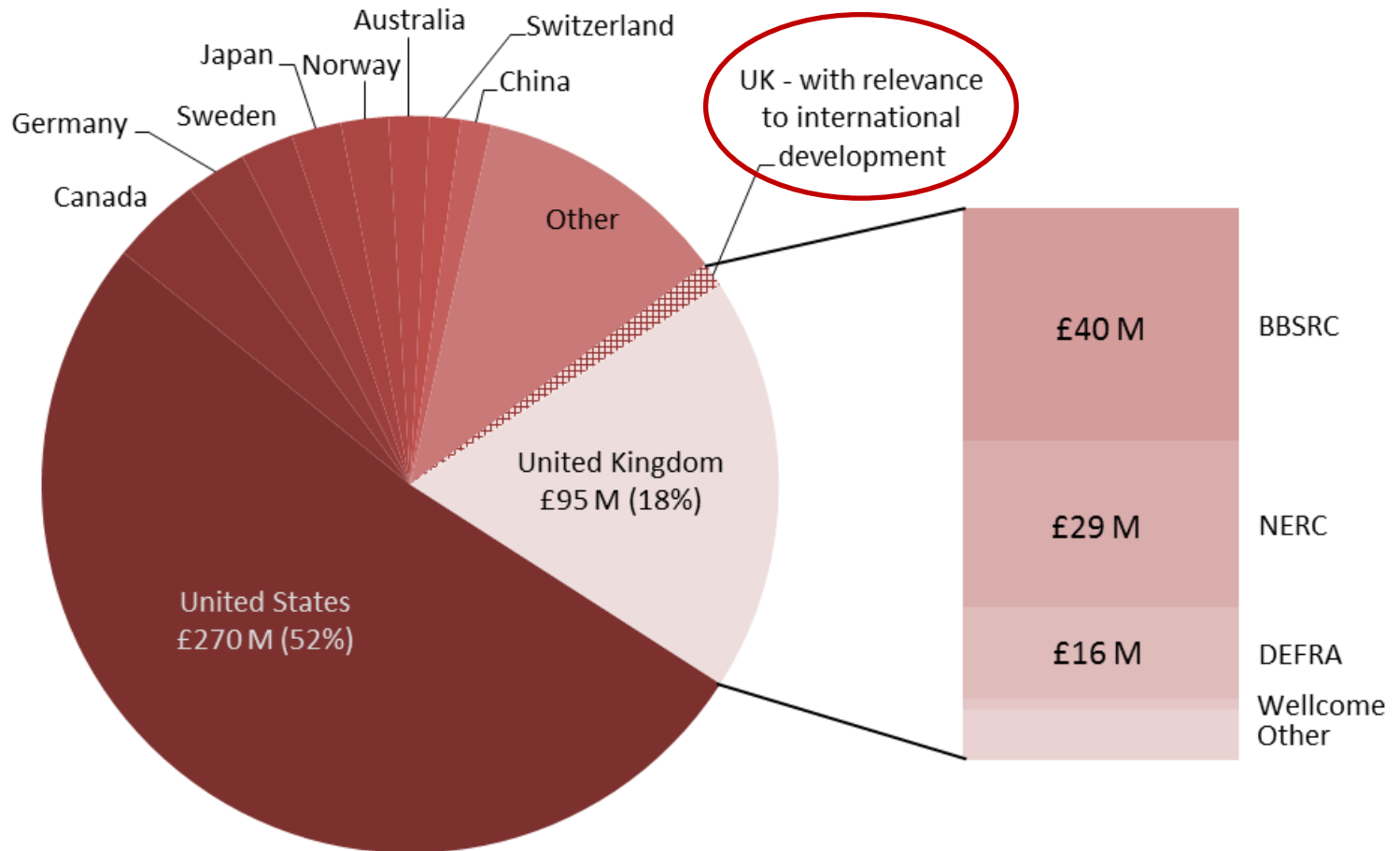
What can a country like the UK contribute?

- **Scientific expertise**
- **Collaborations**
- **Capacity building**
- **Funding**

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Global Funding for Pollination Science Projects 2008 - 2018



Aggregated funding amount: GBP 517 M

Source: UberResearch 2018

N.B. Some funding streams (e.g. DFID) are not included in this database

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Discussion Session Themes:

Knowledge gaps in pollination science with relevance to international development and how they are being addressed

Capacity-building needs and key channels for achieving this

UK's potential contribution to filling knowledge gaps and building capacity

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