

A Scientist in the Foreign Office?

Robin Grimes

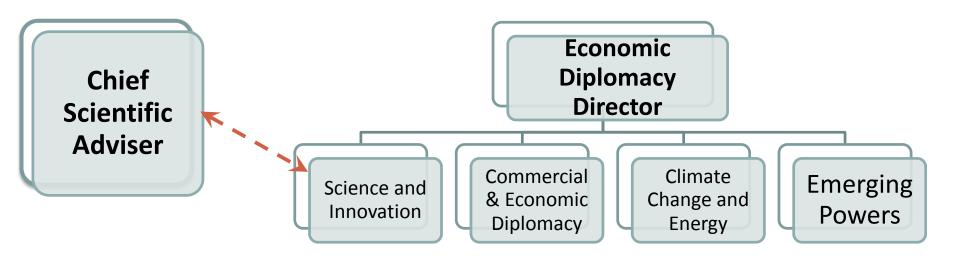
MoD Nuclear Chief Scientific Adviser & Imperial College London



Within the FCO, the Chief Scientific Adviser & Economic Diplomacy Directorate are the S&I focal points



- The CSA can be called upon to look across the full range of FCO policy.
- Ensures that FCO policy is informed by the best available science & has access to appropriate science networks.
- Provides advice to the Foreign Secretary and Ministers.



The Policy-Science Nexus

Three categories associated with: policy makers, policy implementers and the public. One enabling cross cutting theme: understanding the effectiveness of activities.

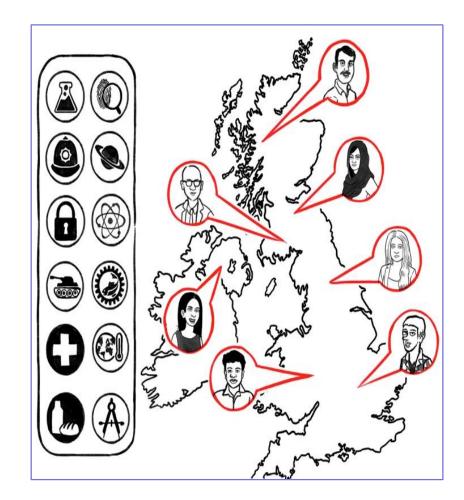
- Science and Policy Makers
 - Standing groups, Enquiries
 - Activities of Science Councils
 - Arm length groups, Academies
- Science Across Government
 - Governmental science advisors and groups
 - Government Laboratories (e.g. JRCs)
 - Innovation organisations (e.g. Fraunhofer),
- Science & the Public
 - Science Media, Science journalists, Universities, School science.



Government Office for Science

Who we are & what we do

- 1 of 5 Civil Service analytical professions
- Over 10,000 Civil Servants
- Diverse skills, knowledge & expertise
- Located across the UK
- Intelligent customer & supplier
- Global challenges: poverty, disease, climate change, crime & terrorism



A network of Chief Scientific Advisers



Prof Patrick Vallance **GCSA**



Prof Dame Sally Davies CMO



Prof Carole Mundell



Prof John Aston Home Office



Prof Ian Boyd Defra



Prof Chris Whitty DH





Prof Robin

Grimes MoD (nuclear)



Prof Phil Blythe DfT



Prof **Charlotte Watts** DFID





Dr Tim Leung DfE



Prof Mike Short DIT



DCMS

Prof Anthony Finkelstein National Security



Prof John Loughead BEIS



Prof Stephen Belcher Met Office



Prof Andrew Curran HSE



Prof Peter Freer Smith Forestry C.



Prof Guy Poppy Food Standards Agency



Prof Sheila Rowan Scotland



Prof Peter Halligan Wales



Prof Bernadette Hannigan (interim) Northern Ireland

CSA leadership in a specific area: nuclear



- Led the UK delegation to the 58th and 60th General Conferences
- Chaired the UK-Japan Nuclear Dialogue last 5 years
- Promoted the work of the CTBTO and GICNT
- Designed the UK nuclear community international research engagement strategy
- Chair of the UK Nuclear Academic Discussion Meeting



Scientific Advisers in other Foreign Ministries



Many countries have science advisors, only a few are based in Foreign Ministries

- USA Vaughan Turekian
- Japan Teruo Kishi
- New Zealand Peter Gluckman
- Senegal Aminata Sall Diallo
- Poland Marek Konarzewski
- Oman Yousuf AL-Bulushi
- Watch this space



LDSC – London Diplomatic Science Club

Imperial College Event – explaining to the LDSC how new materials are transforming society and describing opportunities for collaboration with UK universities.



Science & Innovation Network

Around 100 SIN Officers in 39 countries and territories



- Cover all aspects of science & innovation working together on SIN strategy.
- Both UK based staff and locally engaged.
- Work with Newton Officers, DFID and UKRI (in UK, China & India).
- Facilitate inward missions of UK scientists into their countries and outward missions to the UK.



Science and innovation partnerships that promote the economic development and welfare of developing countries.

People:fellowships, mobility schemes and joint centersProgrammes:research collaborations on development topicsTranslation:innovative solutions on development topics

£735m over seven years (2014-2021) + partner funding



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Department for Business, Energy & Industrial Strategy

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Foreign & Commonwealth Office

UK Science & Innovation Network





Innovate UK









What is Science Diplomacy?



Science in diplomacy

Science informs policy objectives by providing robust evidence or access to people & networks – *science supports diplomatic competencies*

Science for diplomacy

Science as a beach-head, leading to improved political, social and economic links, builds confidence – *science builds diplomatic relations*

Diplomacy for science

Helping scientists to achieve their goals – *diplomacy supports science*

The Soience Soficiplomacyuary 2010 "New frontiers in science diplomacy works – *the discipline*



Why Science is in the Diplomatic Tool Box

Recent Publication

AAAS

SCIENCE & DIPLOMACY

A quarterly publication from the AAAS Center for Science Diplomacy

P.D. Gluckman, V. Turekian, R.W. Grimes, and T. Kishi, "Science Diplomacy: A Pragmatic Perspective from the Inside," *Science & Diplomacy*, Vol. 6, No. 4 (December 2017). http:// www.sciencediplomacy.org/article/2018/pragmatic-perspective

This copy is for non-commercial use only. More articles, perspectives, editorials, and letters can be found at www.sciencediplomacy.org, SCIENCE & DIPLOMACY is published by the Center for Science Diplomacy of the American Association for the Advancement of Science (AAAS), the world's largest general scientific society.

Science Diplomacy: A Pragmatic Perspective from the Inside

Peter D. Gluckman, Vaughan C. Turekian, Robin W. Grimes, and Teruo Kishi

Two lenses have typically defined international science cooperation: advancing knowledge and ensuring scientific capability, or advancing broader national interests. It is the latter perspective, advancing both direct and indirect national interests, that the evolving concept of science diplomacy primarily encompasses. This is also reflected in the creation by a growing number of foreign ministries of formal links to the science system by appointing science advisors or embedding science and technology (S&T) units within ministries. While there is no sharp distinction between the two spheres, they are often administered through different agencies and different funding streams, which can cause potential conflicts between—and confusion within—agencies. Indeed, better coordination could resolve such issues, while enhancing the value generated by such endeavors.

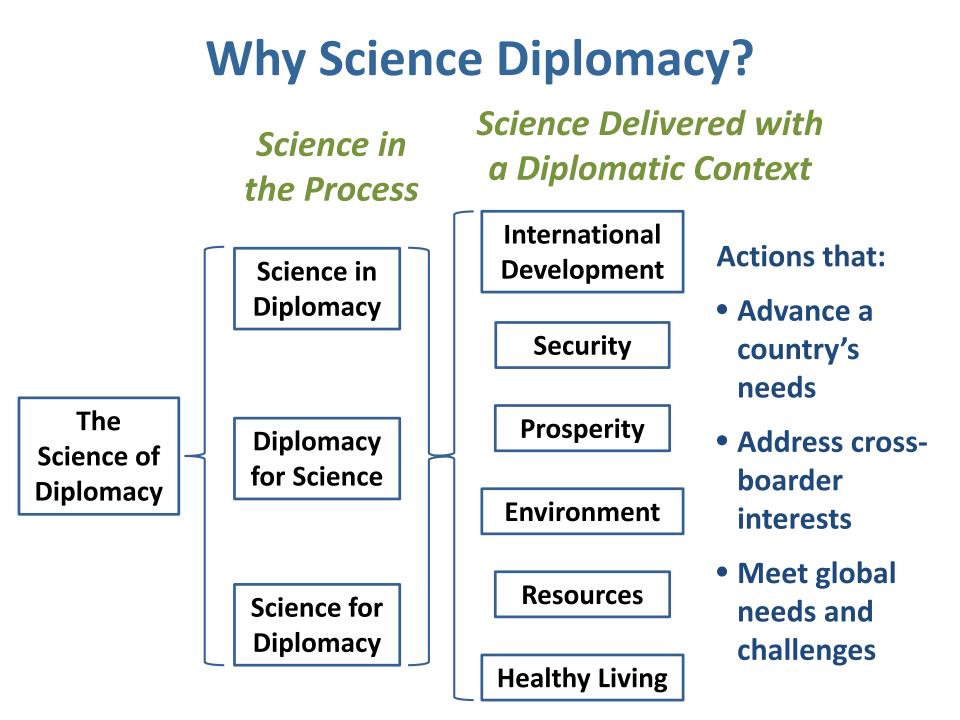
The concept of science diplomacy was given contemporary emphasis and currency by a meeting held in 2009 at Wilton House, United Kingdom, sponsored by the Royal Society, (London) and the American Association for the Advancement of Science (AAAS), publisher of *Science & Diplomacy*.¹ The most influential outcome of that meeting was the development of a taxonomy for science diplomacy that has come to be widely used:

Turekian V., Gluckman P. D., Kishi T. & Grimes R. W.

"Science Diplomacy: A Pragmatic Perspective from the Inside"

Science & Diplomacy, **6**, (2017).

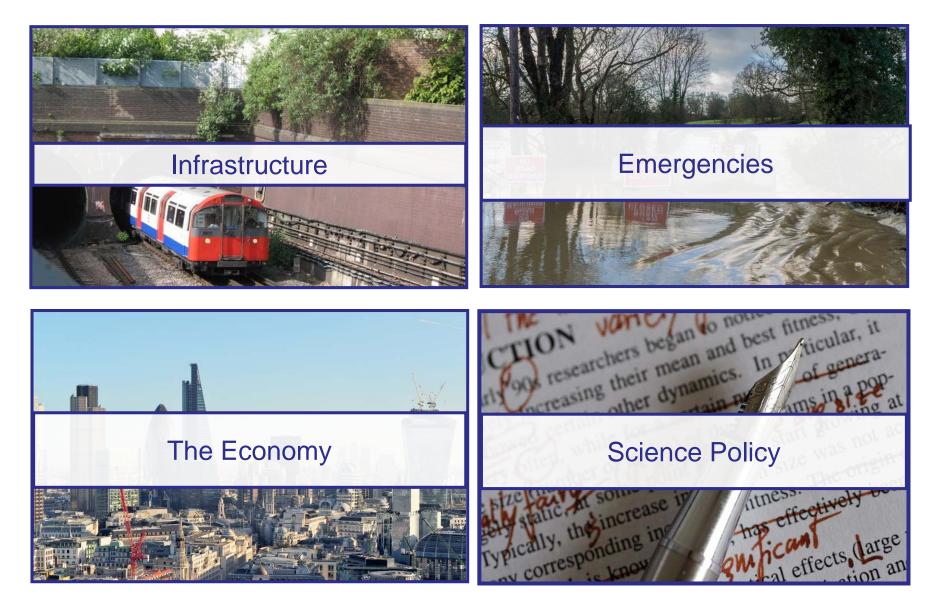
Author information may be found at the end of the article.



Common National Concerns (Interlinked)





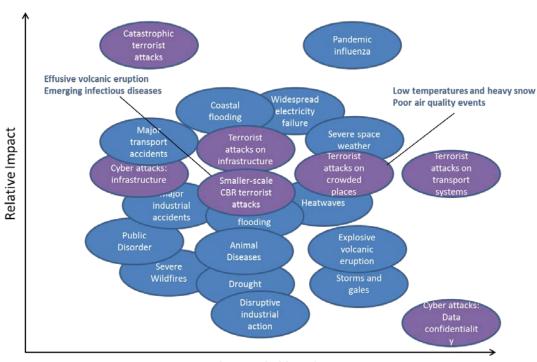




National Enterprise 2080s

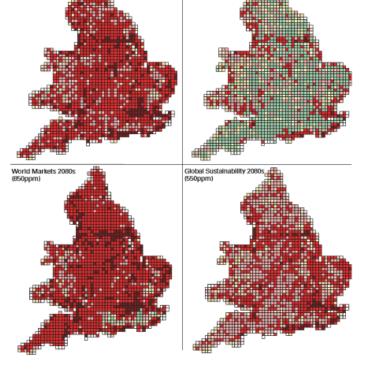
(700ppm)

Science Advice: Mitigating Risk



Relative Likelihood

The National Risk Register

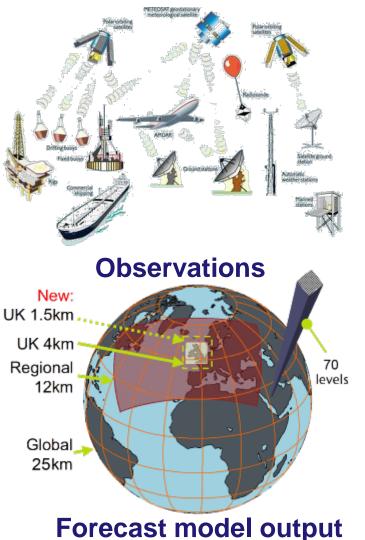


Local Stewardship 2080s (550ppm)

Figures in brackets are atmospheric carbon-dioxide concentrations

Foresight – Future of Flooding

Our ability to respond to disaster risk relies on a scientific value chain





Interpretation, Risk Analysis & Communication



UK-Spain Science Diplomacy & Science Advice



- 2013 2017 Policy influencing & raising awareness: senior visits (ES Minister to the UK), media, HMA and SIN engagement and relationship building on the ground.
- 2016 Spain builds a network of S&I officers.
- 2017 UK/Spain Science Policy Advice event FCO, POST & Royal Society engagement.
- 2018 Spain aims to build a similar structure, including POST.
- A similar science policy context will lead to more bilateral collaboration.



Science Diplomacy with Argentina:









- Agreed between Foreign Secretary Johnson & Russian Foreign Minister Lavrov November 2016
- Officially launched on 27 January in Moscow
- Public celebration of science links including lectures & events focused on hot topics or policy challenges:
 - high-level roundtable on antimicrobial resistance
 - 100 Years of Black Holes
 - 'Science Café' on cell physiology
 - Geological Institutes meeting
 - Bilateral Paleontology workshop





Giving Science Advice: The ground rules

- 1. Clear roles and responsibilities
- 2. Independence
- 3. Transparency and openness

Sovernment Office for Science

Guidance Principles of scientific advice to government

Published 24 March 2010

https://www.gov.uk/government/publications/scientific-advice-to-government-principles

Championing science diplomacy



Foreign & Commonwealth Office



Questions?

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