

Professor Philip Nelson, Chief Executive, Engineering and Physical Sciences Research Council

# Maths and Public Policy



**EPSRC**

Pioneering research  
and skills

**TGM** Turing Gateway  
to Mathematics

 The  
Council for the  
Mathematical  
Sciences

# Welcome

- About EPSRC and how we work with Government
- Introduction to the event and speakers
- What happens next

## Our vision

*“Our vision is for the UK to be the best place in the world to **research, discover and innovate**”*

## About EPSRC

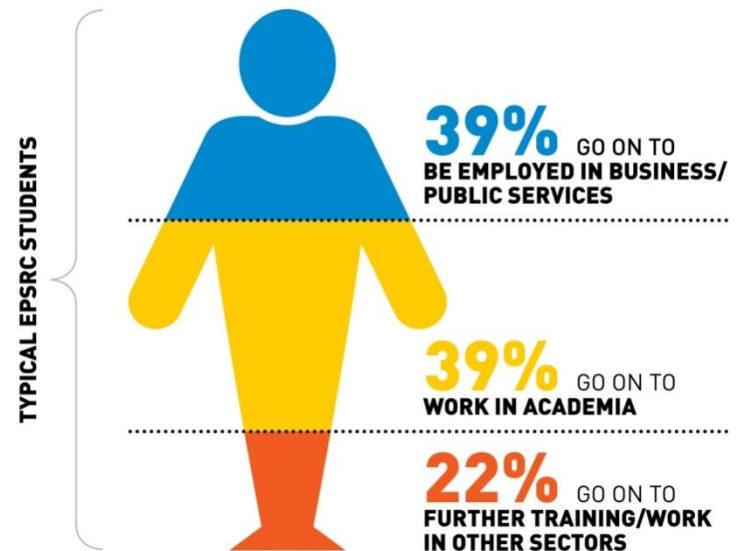


# Building Leadership



**8,500**

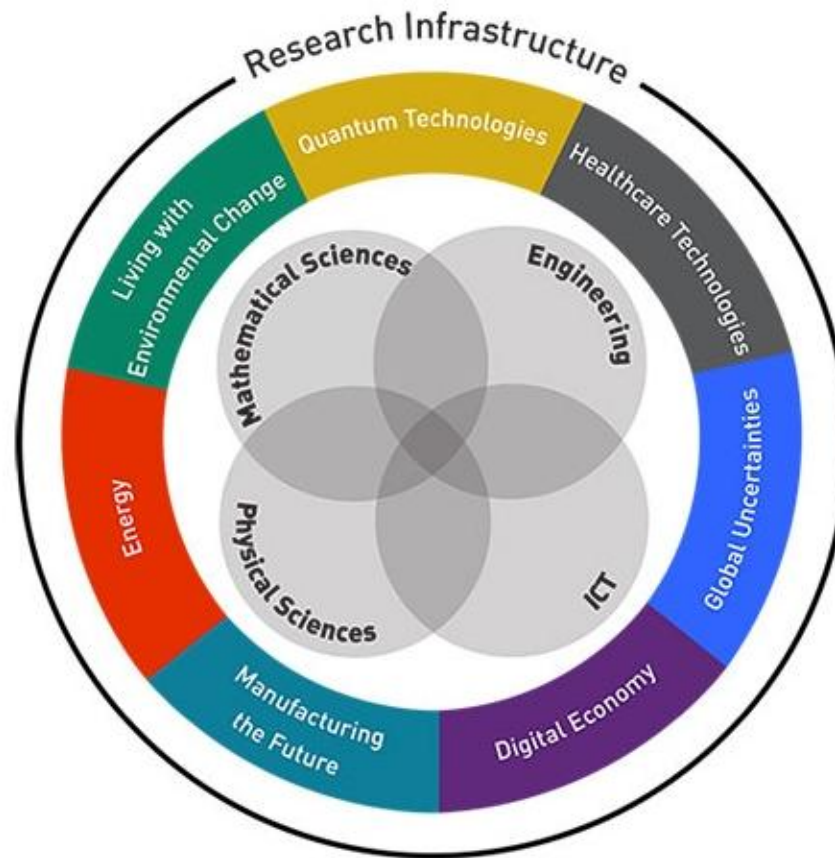
DOCTORAL STUDENTS SUPPORTED



**EPSRC**

Pioneering research  
and skills

# EPSRC's Portfolio



# EPSRC research and the public sector



Supporting an ageing population in their homes



Predicting and preventing floods



Gold medal winning engineering

## How we can help

- Access to research expertise and information on research projects [www.epsrc.ac.uk/research/ourportfolio/vop/](http://www.epsrc.ac.uk/research/ourportfolio/vop/)
- Support for collaborative research projects
- Our funding can be used to support internships and placements for doctoral students and researchers
- Strategic partnerships to share research priorities and co-fund projects



## Major maths investments

- **331 current research projects** worth **£200M**, covering statistics, operational research, complexity science, non-linear systems, and much more
- **12 Centres for Doctoral Training** focused on maths research and its applications, many of the Directors of these are here today
- **Predictive modelling for healthcare technology through maths (POEMS)** network developing new mathematical modelling approaches for medicine and healthcare
- **Forecasting Environmental Change Networks** to build linkages between mathematicians and environmental scientists (details to be announced in early 2015)
- **CliMathNet** network of mathematicians and climate scientists working on climate modelling issues
- **£42M Alan Turing Institute** focusing on big data

# About today's event

Why maths and public policy?

- Maths has applications across government and is already used across government
- There are large professional networks of analysts across government we would like to engage with
- Maths researchers are inspired by real world problems
- We hope this series of events will find new applications for maths in policy and inspire new maths research to address complex policy questions

# Programme

14:15 - 14:40	<b>Muffy Calder</b> , Chief Scientific Adviser for Scotland	<i>Modelling, Advice and Public Policy</i>
14:40 - 15:05	<b>Roy Anderson</b> , Director (London Centre for Neglected Tropical Disease Research)	<i>Pandemics – The Use of Mathematical Models in Policy Formulation</i>
15:05 - 15:30	<b>Bernard Silverman</b> , Chief Scientific Advisor (Home Office)	<i>Modern Slavery and Multiple Systems Estimation</i>
15:30 - 15:50	Tea and Coffee	
15:50 - 16:15	<b>Richard Heaton</b> , Permanent Secretary (Cabinet Office)	<i>The Role of Research and Innovation in Policy Making</i>
16:15 - 17:00	Open Discussion. (Chaired by <b>John Toland</b> , Director, Isaac Newton Institute)  Closing remarks from <b>Hetan Shah</b> (Executive Director of the Royal Statistical Society) on behalf of the Council for Mathematical Sciences	
17:00 - 18:00	Drinks Reception and Networking	

# What happens next

- *Cities and Infrastructure* workshop on 11<sup>th</sup> March at Church House Conference Centre
- *Health and Society* workshop on 24<sup>th</sup> March at Church House Conference Centre
- More events and information available from the Turing Gateway to Mathematics and EPSRC websites

[www.turing-gateway.cam.ac.uk/](http://www.turing-gateway.cam.ac.uk/)

[www.epsrc.ac.uk](http://www.epsrc.ac.uk)