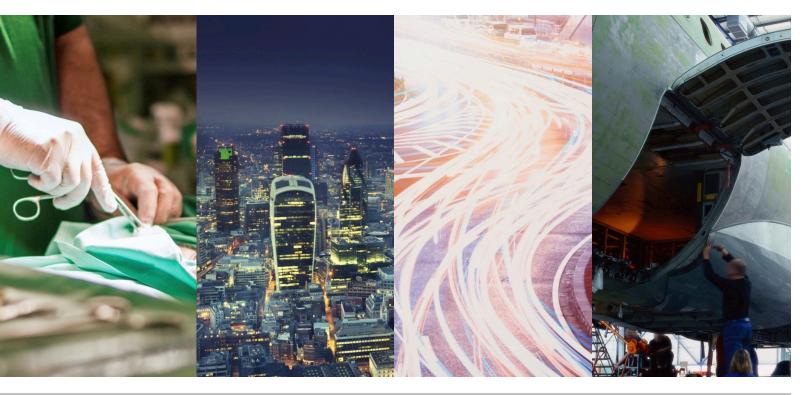
Engineering and Physical Sciences Research Council





EPSRC ICT Theme Update

Miriam Dowle, ICT Theme Portfolio Manager

UK Ontology Network Meeting, 14 April 2016

What am I going to talk about?



- **Quick introduction to EPSRC and the ICT Theme**
- Share current EPSRC and ICT Theme strategy
- **Update on current financial situation**
- Update on Balancing Capability refresh exercise
- **Some opportunities**

Introduction to EPSRC



- EPSRC is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £850 million a year.
- With a mission to promote and support, by any means, high quality basic, strategic and applied research and related postgraduate training in engineering and the physical sciences.
- And advance knowledge and technology, and provide trained scientists and engineers, which meet the needs of users and beneficiaries, to the benefit of the UK.

EPSRC Strategic Plan



STRATEGIC PLAN 2014

RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE. RESEARCH.DISCOVER.INNOVATE.

Published 2014



Engineering and Physical Sciences Research Council One vision.....

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

Two goals.....

RESEARCH and DISCOVER

RESEARCH and INNOVATE

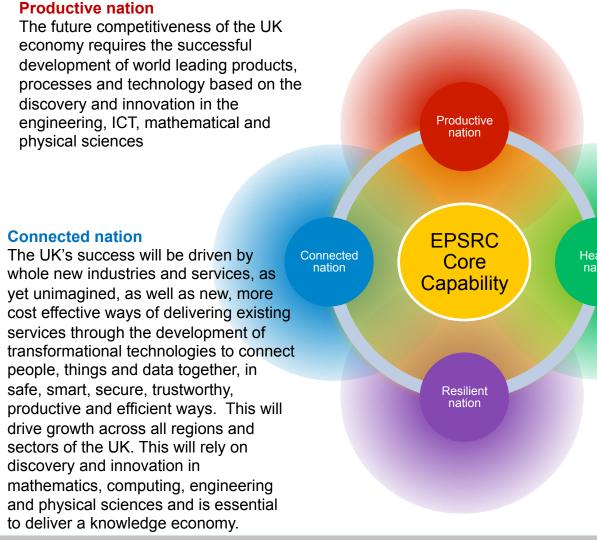
Three strategies.....

Balancing capability

Building leadership

Accelerating impact

Science for a successful nation The case we have made to Government



Healthy nation

A healthier society will be more productive and resilient, and better able to manage the impacts of an ageing population. Innovative technologies, will enable transformative improvements in the prevention, diagnosis and treatment of illness. This research will deliver higher quality care and better patient outcomes, will reduce the cost of healthcare and will drive UK growth.

Healthy nation

Resilient nation

Safeguarding our way of life requires an ability to anticipate, adapt and respond to changes, natural or man-made, short or long-term, local or global. UK prosperity depends on the smooth and sustainable functioning of complex infrastructures: roads and railways; communications networks; water, energy and waste utilities. Engineering, mathematics, ICT and physical sciences can lead the new thinking and innovation needed to build a truly resilient nation for the future.

Funding situation

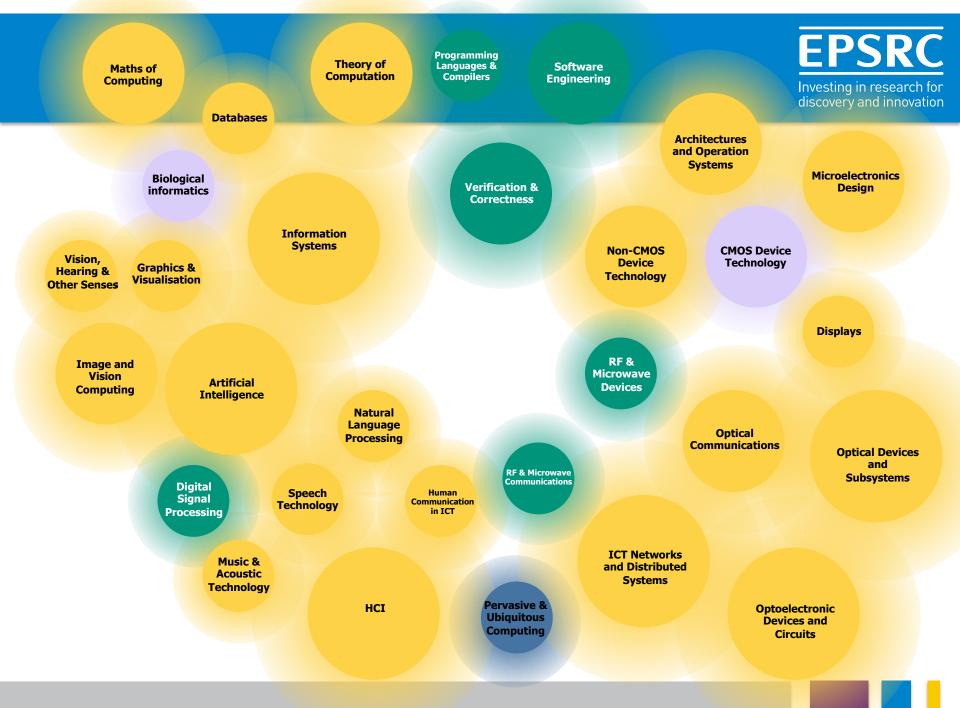


- Research budget including the Research Councils: flat in real terms
 - Allocation to Research Councils
 - **Research** Council baselines
 - Prior commitments
 - Official Development Assistance
 - **RCUK** Communications soon
 - EPSRC Delivery Plan in mid-April
 - **Funding doesn't stop**

ICT Theme overview



- III Includes UK research into computer science, user-interface technologies, communications, electronics and photonics-around the common thread of:
 - New ways to transmit, present, manage, analyse, process, generate or understand information
- **II** Focus is on ensuring there is a strong UK capability
- Covers a broad and diverse range of areas, communities and disciplines
- Large domain with active interfaces with all other Themes
- III Interrelationships between research areas, within and beyond ICT are important
- Has a technological context and the connection to practice is important



ICT Cross ICT priorities



- **Towards an intelligent information infrastructure (TI3)**
- Many-core architectures and concurrency in distributed and embedded systems (MACDES)
- Photonics for future systems (PfFS)

- New and emerging areas (N&E)
- Working together (WT)

Strategy and priorities for ICT research and research training

Investing in research for discovery and innovation

- We are in the middle of work on refreshing our
 - **II** Positions on individual research areas
 - Cross research area priorities

Which remain in place until we refresh them....

Refresh of positions and priorities-why?

- Finite resources
- Need to address strategic priorities
- Ensure they are a useful way of managing the portfoliounderstandable and meaningful

Investing in research for discovery and innovation

- Allow new areas to emerge
- Achieve appropriate balances between
 - Priorities
 - Flavours of research
 - **Themes**
 - Mechanisms
 - Research areas



- Lots of thinking has already been done
- We have shared some thinking and gathered feedback on it
- Cross Theme discussions
- We have engaged through various workshops, meetings, and visits and will continue to do so



- Still work to be done, but thinking is well developed
- Haven't reached conclusions-so input is welcome but sooner rather than later (see next slide)

Announcement of conclusions in December 2016

Planning sessions, workshops and visits to assist communication and implementation of these

- III Call for evidence open now to provide EPSRC with evidence
- **III** Returns from universities, businesses, and recognised professional bodies
- II All research areas will invite responses however research areas will be highlighted where specific evidence is sought
- III Input will be against the following headings:
 - **Quality**
 - III National Importance
 - **III** Capacity (including research and people)
 - III Further information
- II Inputs will need to be backed by publications, reports, reviews, strategies and professional communications rather than personal views or opinions
- III The returns period will open on **11 April** and will close on **03 June 2016**. More details here: <u>https://www.epsrc.ac.uk/newsevents/news/bcevidencecall/</u>

Some opportunities...

EPSRC Associate Peer Review College refresh

- EPSRC has an Associate Peer Review College, and a Full Peer Review College. All new members are initially invited to join the Associate College, with the opportunity to be promoted to the Full College once they have fulfilled certain criteria.
- Expressions of interest are now being invited from candidates who wish to join the Associate Peer Review College.
- Aspiration to better reflect the diversity and experience of our science base and increase our access to expertise in cross and multi-disciplinary areas.
- Deadline for Expressions of interest: **10 May 2016.**
- More details here:

https://www.epsrc.ac.uk/funding/calls/associatepeerreviewcollege/

Strategic Advisory Team nominations coming up soon

keep an eye on the website

The ICT Team

Liam Blackwell	Theme Lead
Nigel Birch	Digital Signal Processing; Music & Acoustics
Zoe Brown	Graphics, Image & Vision, Speech, Biological Informatics
Lisa Coles	HCI, Pervasive and Ubiquitous Computing
Miriam Dowle	Information Systems, Databases, Software Engineering
Ellie Gilvin	Impact in the ICT Theme
Diane Howard	Artificial Intelligence, Natural Language Processing
Alex Hulkes	Cybersecurity
Adam Luqmani	Fundamentals of Computing
Sarah Newman	Electronics
Matthew Scott	Communications
Susan Peacock	Photonics
Helen Money-Kyrle	Year in Industry Student
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Thank You





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