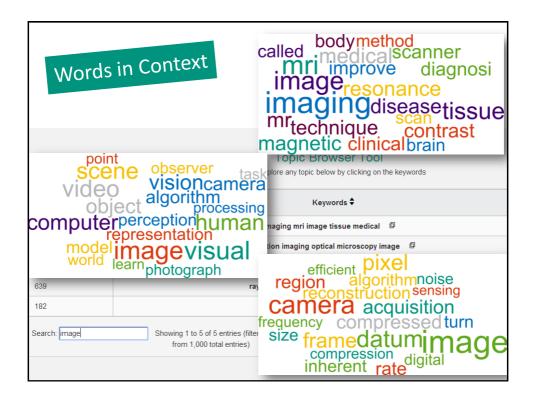
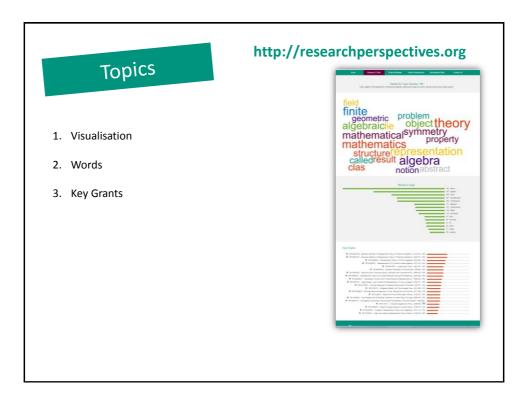
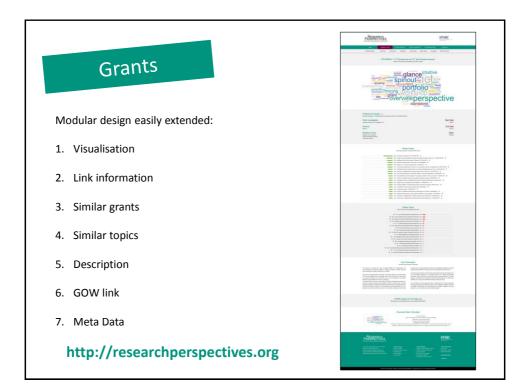


Words	in Context
	Topic Browser Tool You can explore any topic below by clicking on the keywords
Topic ID 🗢	Keywords 🗢
557	imaging mri image tissue medical
19	resolution imaging optical microscopy image
146	visual image video scene human 🛛 🗐
639	ray imaging image tomography resolution
182	image camera datum pixel frame 🛛 🛱
Search: image	Showing 1 to 5 of 5 entries (filtered Show 20 • entries from 1,000 total entries)



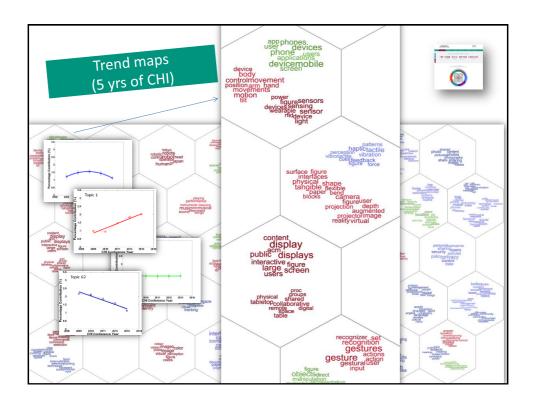




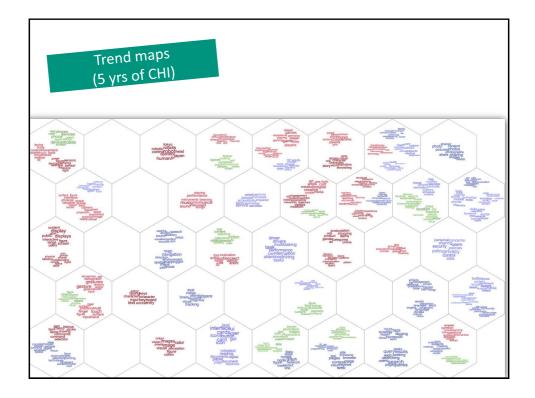


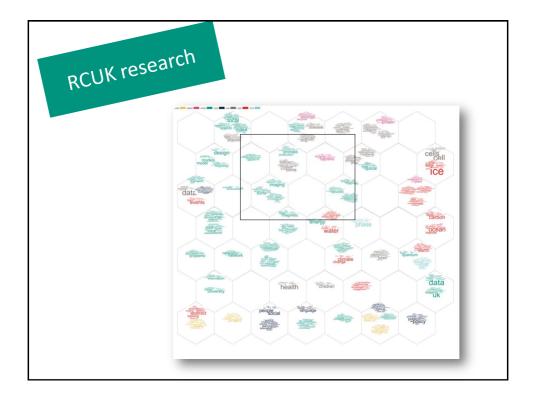


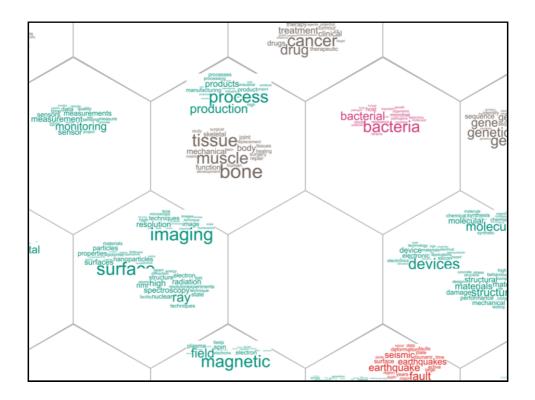


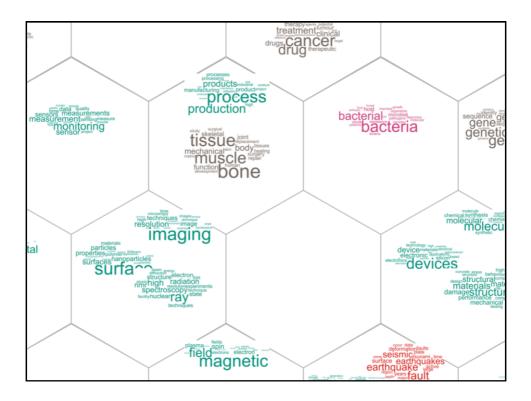


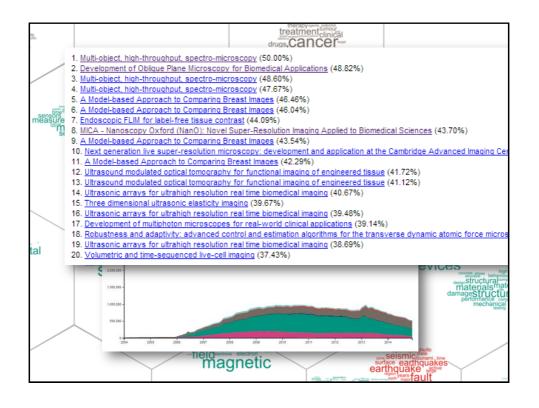
Research Perspectives 9 Jan 2013

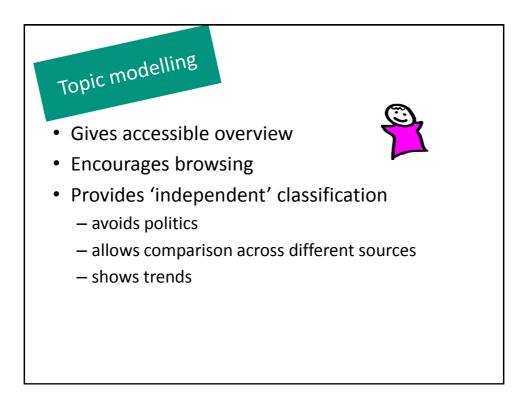


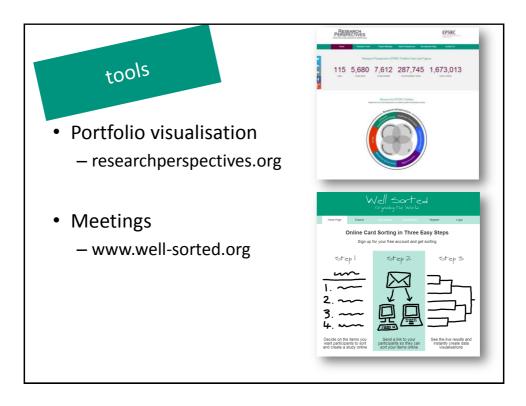






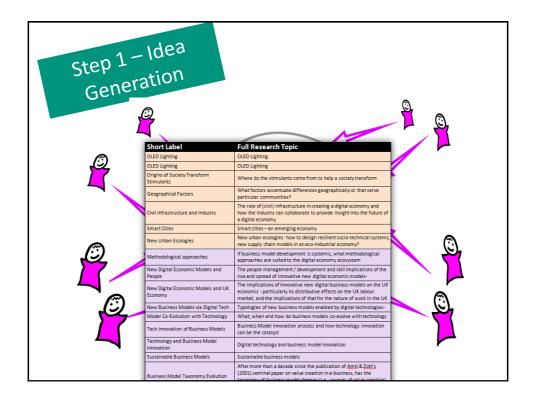


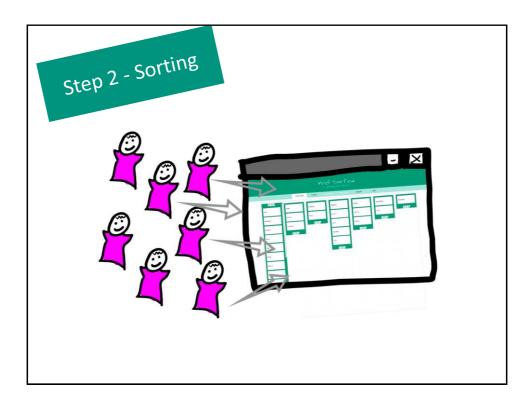


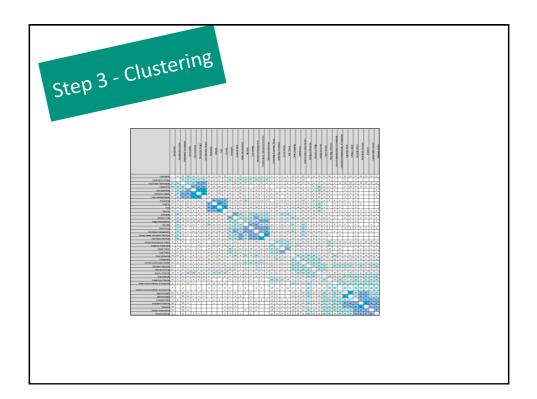


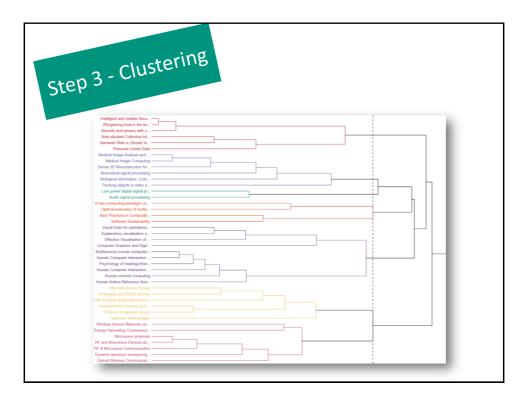


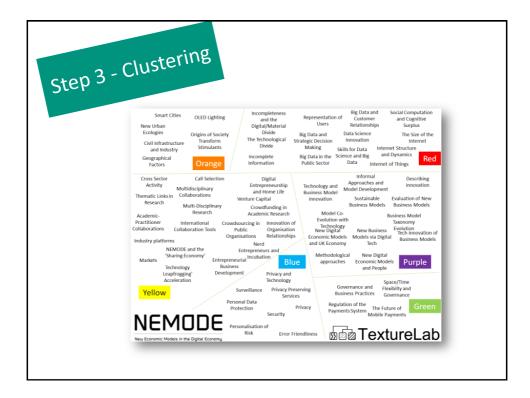


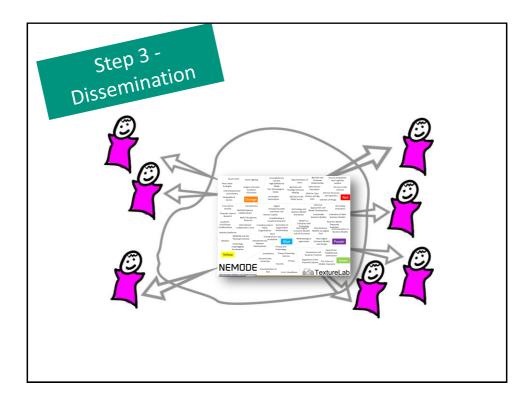


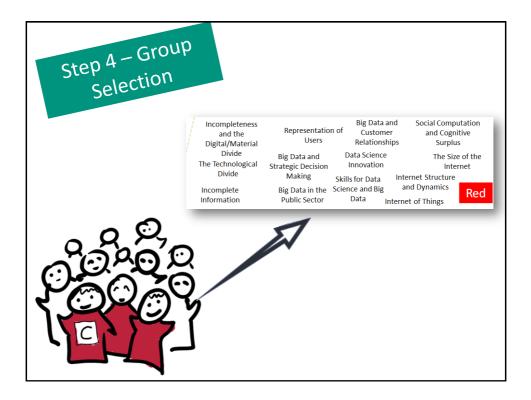






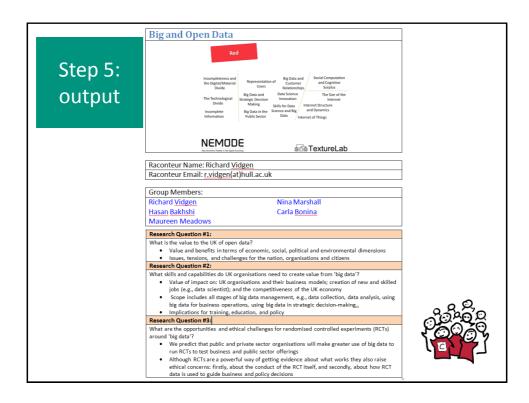


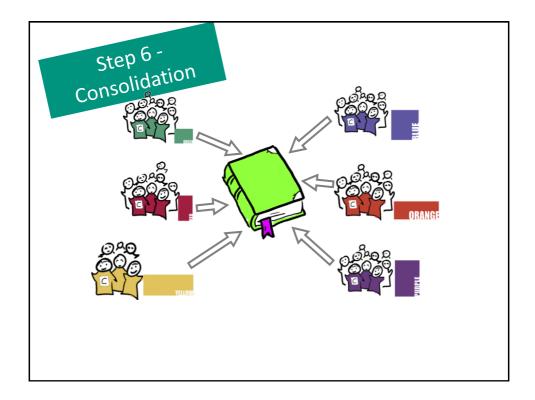


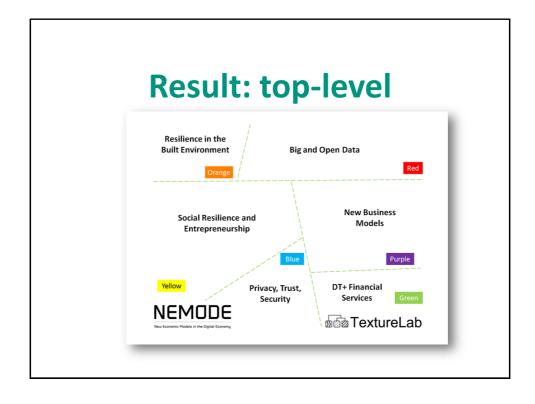


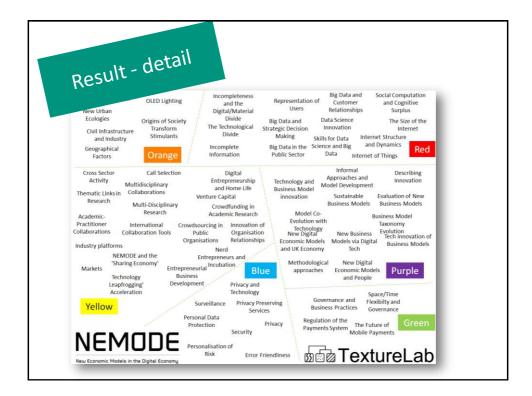
Step 5 – Bre	akout
	Incompleteness and the Representation of Users Big Data and Customer Relationships Social Computation and Cognitive Digital/Material Users Representation of Users Customer Relationships Surplus Divide Big Data and Divide Data Science The Size of the Internet Divide Big Data and Strategic Decision Data Science The Size of the Internet Incomplete Big Data in the Public Sector Science and Big Data Internet Structure and Dynamics
Big Data and Strategic Decision Making	New can Tag dataf septort stanligt: decision making for instance at based load in organisations?
The Size of the Internet	Here big is the interver? What metrics are appropriate and have care we record a publicly available induction such as write through streamy calcularge with commencial treams and a write contained in content delivery intervers. Record and the prime and commencial interverse in the content and the content delivery intervers.
Internet Structure and Dynamics	What is the structure and dynamics of the internet and how does it change?
Social Computation and Cognitive Surplus	New can we use social computations takense capatible works, third actors and informal actors to enable co- production of a sarge of annoses (e.g., health and Cane)?
The Technological Divide	I woodd lik ht ow the KNDDE ganda contribute towards bridging the wideling technological divide between the lixed developed counties (EDC), the emerging economies and the technologically advanced countries.
Incompleteness and the Digital/Material Divide	
	is a material world of icongristed or mailwable antidects and unvices in there a conresponding world of incompister information and how does this provide a platform for deeign, experiment and production of such goods and unvices?
Incomplete Information	
Representation of Users	Representation of Users
	Insprendation of Ours Data starters, instructions productivity

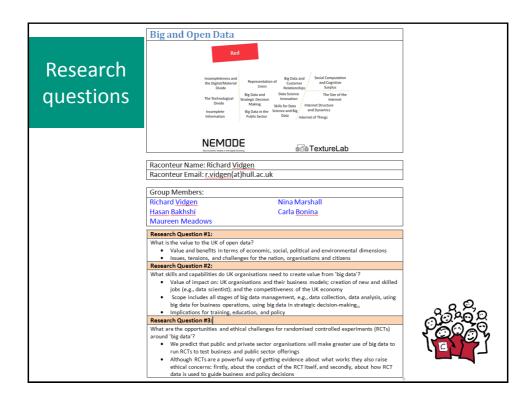
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 54.09% ESR		Ø	_
 53.92% STFC	Big Science - Big Telescopes	ø	
 53.92% STFC	Connecting Early Universe Physics to Modern Advances in Observational Astronomy	ø	
 53.87% STFC	Branes, Strings and Defects in Cosmology	Ø	
 53.61% STFC	Astronomy and Cosmology with the Planck Experiment	G	
 53.61% STFC	Theory from the Planck Experiment	ø	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
 53.61% NER	Assessing the size of explosive super-eruptions: how big is big?	ø	
 53.09% STFC	Twistor String Theory and Time-dependent Backgrounds	ø	TO DO
 52.91% STFC	PATT Linked Grant Support for the Bristol Astrophysics Group	ø	
 52.91% STFC	Project support for the Wide Angle Search for Planets	ø	

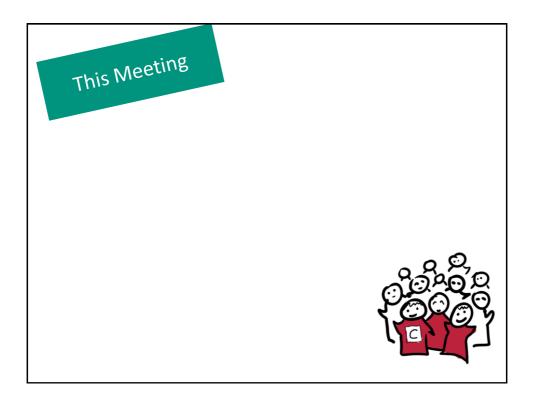


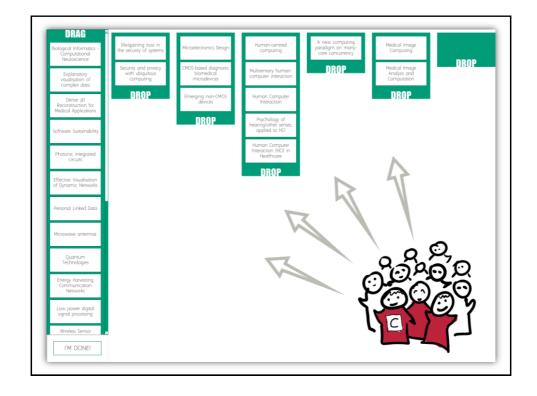


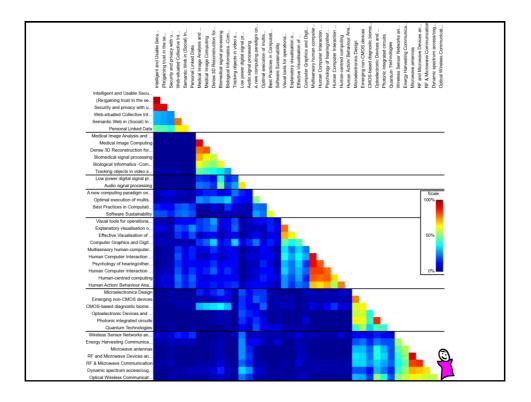


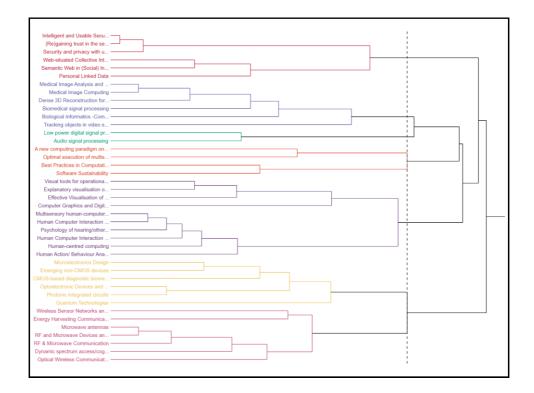


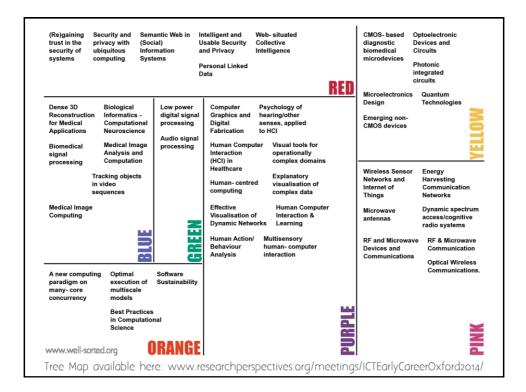






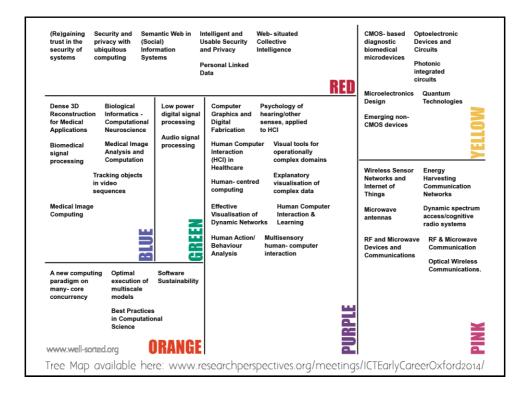


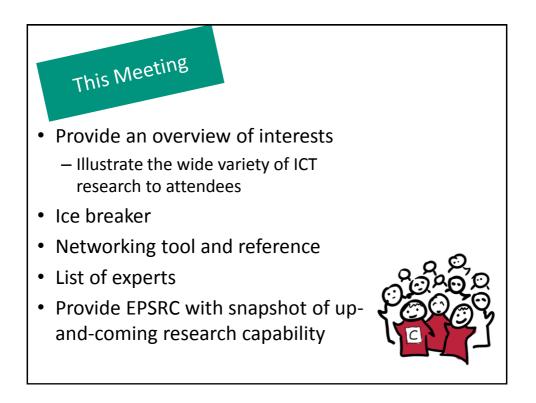


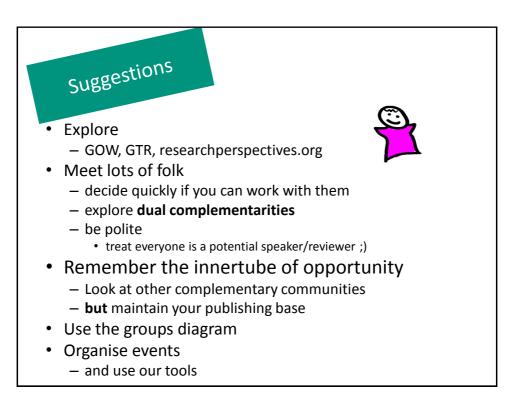


Networki	ng							
	trust in the priv security of ubi	vacy with (Soc quitous Info	ial) U rmation a lems P	Jsable Security (Veb- situated Collective ntelligence	RED	diagnostic biomedical microdevices	Optoelectronic Devices and Circuits Photonic Integrated circuits Quantum
	Reconstruction for Medical Applications Biomedical signal	Biological Informatics - Computational Neuroscience Medical Image Analysis and Computation	Low power digital signal processing Audio signal processing	Digital	Psychology of hearing/other senses, applied to HCI		Emerging non- CMOS devices	Technologies
	Tra in v	cking objects ideo uences		Healthcare Human- centred computing Effective Visualisation of Dynamic Networ	Explanatory visualisation of complex data Human Computer Interaction &		Wireless Sensor Networks and Internet of Things Microwave antennas	Energy Harvesting Communication Networks Dynamic spectrum access/cognitive radio systems
	A new computing paradigm on many- core	Optimal execution of multiscale	Software Sustainability	Human Action/ Behaviour Analysis	Multisensory human- computer interaction		RF and Microway Devices and Communications	Communication
	concurrency	models Best Practices in Computatio Science				PURPLE		NIK
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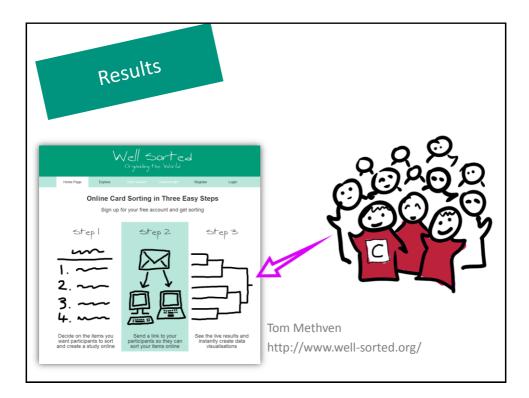
Mee	tting record	★1. What is your first name?
		★2. What is your last name?
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	Inter War Annual Control Contr	*4. What professional web address would you like to be linked to your name? If you don't wish to have a page linked to your name, please enter 'NIA'.
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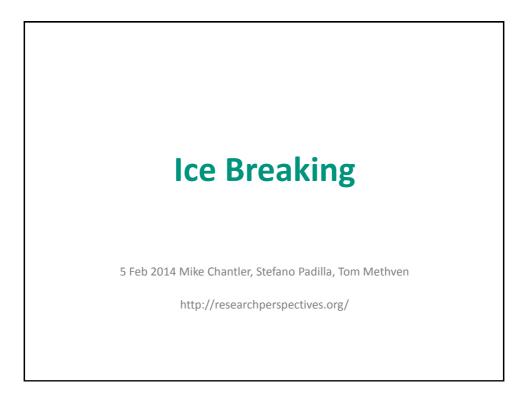


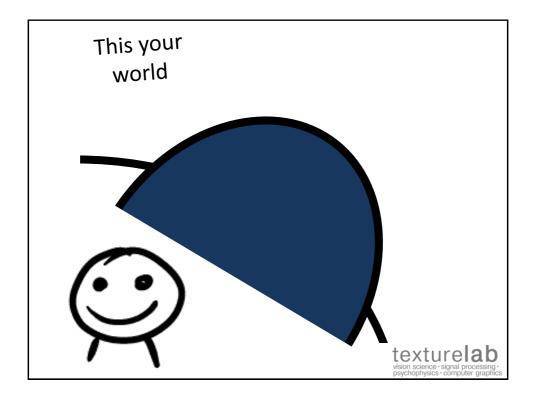
(Re)gaining trust in the security of systems	privacy with (S ubiquitous In	ocial) L formation a /stems F	Isable Security Coll	situated ective Iligence	diagnostie D biomedieal G microdevices F it	ptoelectronic levices and itreufts thotonic ntegrated itreufts Quantum
	Biological Informatics - Computationa Neuroscience Medical Image Analysis and Computation Tracking objects in video sequences	Audio signal	Graphics and he Digital se	ychology of aring/other nses.applied HCI Visual tools for operationally complex domains Explanatory visualisation of complex data	Emerging non- GMOS devices	Energy Harvesting Communication Networks
Medical Image Computing	2	REFN	Behaviour h	Human Computer Interaction & Learning Iuittisensory uman-computer iteraction	Microwave antennas RF and Microwave Devices and Communications	Dynamic spectrum access/cognitive radio systems RF & Microwave Communication Optical Wireless
A new comput paradigm on many- core concurrency	ting Optimal execution o multiscale models Best Practio in Computa	es				Communications.

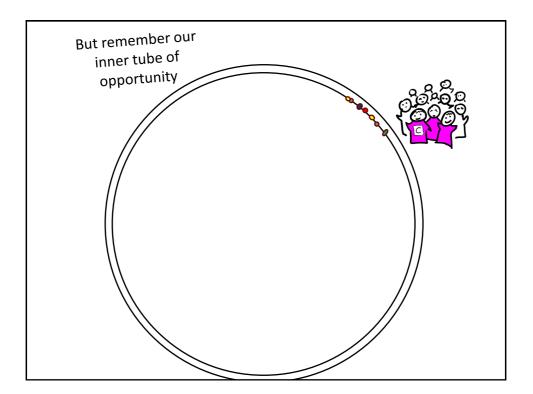
		I focus on Intelligent solutions to Cybersecurity (Artificial Intelligence, Multi-agent Systems, Privacy, Identii		
	Intelligent and Usable Security and Privacy	Management, Access Control, Trust and Reputation) in Social Media, Social Network Sites, Cloud Computing and e-Commerce.		
	(Re)gaining trust in the security of systems	Even rigorously analysed security systems, e.g., by cryptographic proofs or model checking, can often still be attacked because the analysis did not cover all aspects. How can we improve the analysis methods to (re)gain trust in the security of systems?		
Red	Security and privacy with ubiquitous computing	The increased metricisation of us and the world around us becomes significant, the opportunities and threats associated with security (both cyber and physical) and personal privacy are both interesting an challenging.		
	Web-situated Collective Intelligence	It is shown that Web-based CI is effective. However, a better understanding of the interdependencies of social and technical elements is required for the further development of social computing. So, how can w design socio-technical systems empowering CI?		
	Semantic Web in (Social) Information Systems	The Semantic Web supports knowledge management and can facilitate systems combining AI and humar reasoning. This raises challenges such as data integration, utilising big data, ensuring user privacy, and assessment of e.g. data quality and trust in users.		
	Personal Linked Data	Applying Linked Data technologies to personal information to improve the way we work with and contro our data.		
	Medical Image Analysis and Computation	Using computational techniques to understand the content of medical imaging data, to detect abnormalities, to assist diagnosis and treatment planning, and hopefully to predict clinical outcome.		
	Medical Image Computing	My research topic focuses on anatomical shape modelling for image guided surgical intervention. In particular, I am using medical images to develop geometric and motion models of anatomy for improved navigation in minimally invasive surgery.		
	Dense 3D Reconstruction for Medical Applications	The ability to reconstruct accurate 3D models of physical objects in real-time enables exciting application for medical augmented reality.		
Blue	Biomedical signal processing	My research area lies on the synergy of digital biomedical signal processing and machine learning. I am interested in automatic detection of knee disease (osteoarthritis) by developing methods for multimoda signal analysis and machine learning.		
	Biological Informatics -Computational Neuroscience	Computational neuroscience is a highly interdisciplinary science that studies brain function and behaviou through modelling and analysis, in terms of neural information processing. It is also classified under EPSRC Biomedical Neuroscience.		
	Tracking objects in video sequences	I am interested in applying image processing techniques to following moving objects in complex visual scenes: following cars moving on busy junctions, farm animals roaming, workers at construction sites, etc		
Groot	Low power digital signal processing	Circuit and technology innovations for low power hardware giving mobile digital signal processing in wearable sensors for the ageing population. Creating innovative applications and new digital signal processing algorithms.		
Green	Audio signal processing	Audio signal processing is a cross-disciplinary ICT area that combines digital signal processing, machine learning, as well as speech, music, and acoustic technology. My work is on developing models and system for audio signal analysis.		

	A new computing paradigm on many- core concurrency	I am interested to translate my concurrency programming knowledge in many-core architectures onto the image processing area. I aim to provide system-wide solutions to visual information processing area for low energy consumption, high performance.
Orango	Optimal execution of multiscale models	Multiscale models couple multiple mathematics and numerics, posing a challenge wrt the optimisation for distributed computational architectures. How they impact on the execution of biomedical multiscale models? Which strategy optimises performance?
Orange	Best Practices in Computational Science	Scientists in many fields publish research based on computational results, but are not usually well-trained in programming or software engineering. Can best practice and cloud computing improve the quality and reproducibility of computer experiments?
	Software Sustainability	Software sustainability has been identified as one of the key challenges in the development of scientific and engineering software. My current research focuses the role of architectural-level reasoning about sustainability.
	Visual tools for operationally complex domains	I am interested in applying graphics and visualisation tools to operationally complex service domains. Tools are linked to AI-enabled information systems, supported by HCI interfaces. Also, I aim to transfer ICT research to built-environment domains.
	Explanatory visualisation of complex data	The design and evaluation of dynamic, interactive visualisations to communicate complex data from one disciplinary area to people from other disciplines, who could apply the data in their own context if it was understandable and in an accessible format
	Effective Visualisation of Dynamic Networks	I am interested in perceptually effective techniques for the interactive visualisation and drawing of dynamic networks. This topic lies within the areas of HCI and Graphics & Visualisation in the ICT portfolio and draws from the field of psychology
	Computer Graphics and Digital Fabrication	I am interested in developing novel user interface tools, hardware devices, and geometric 3D modelling techniques for advancing the field of computer graphics and for realising the emerging area of digital fabrication.
Purple	Multisensory human-computer interaction	Novel modes of interaction with information aim to simulate embodied interaction and multisensory experiences using virtual reality and related technologies. How might HCI methodologies keep pace with these technological advancements?
	Human Computer Interaction & Learning	Considering the relationship between users and technology, including games, within the context of learning - from promoting health-related behaviour change and public engagement to supporting citizen science and formal educational environments.
	Psychology of hearing/other senses, applied to HCI	I am interested in the psychology of hearing, as well as of multi sensory interaction, to underpin the design and implementation of human computer interfaces that can support wellbeing and rehabilitation.
	Human Computer Interaction (HCI) in Healthcare	HCI helps design and develop new techniques and technologies to address national and global health challenges. Novel technology development within healthcare can raise many challenges including the ethical and social implications of computer interaction.
	Human-centred computing	Using models of human behaviour/cognition/perception to drive technology development.
	Human Action/ Behaviour Analysis	Vision based human behaviour analysis, emotion analysis and facial expression analysis. Multi-sensor signals including image and depth signal processing. Methods I am interested in include machine learning, cognitive and psychological methods

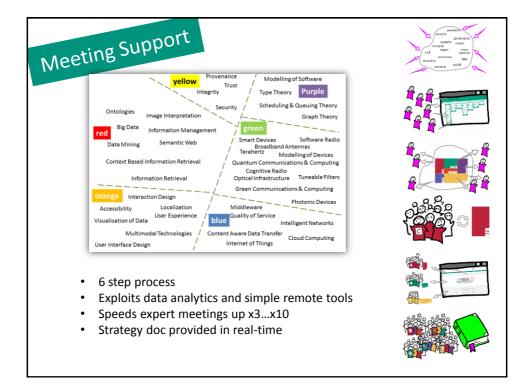


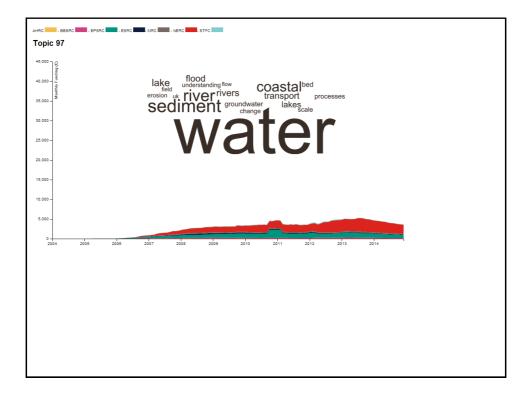












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Research Themes:	All Research Themes	v	
Topic ID \$	Topic Browser Tool You can explore any topic below by citizing on the trajevorts Keywords 9	Relevance \$	246 - systhesi molecule reaction compound chemical officientChemist
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23	university dta nottingham dhpa queen	18.78	starting product synthesi compound synthesic ator
68	theory mathematics mathematical problem geometry ${\sc tr}$	18.16	
319	industrial case account university sheffield	17.94	chemical
368	training student phd doctoral dtc Ø	17.40	material
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esearch Areas:	Human-Computer Interaction	V	6
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273	user design technology interactive research	3.67	economyuser customer
17	research public community engagement practice Ø	3.32	opportunity government
106	organisation trust information policy domain Ø	2.87	hubsocietytechnology
209	social people life online individual	2.46	create busines digital
185	people older social health care	2.37	sector economic
227	people work life technology communication Ø	2.24	
390	network community activity workshop research	1.97	185 - people older social health care
144	rural community enterprise scale project	1.97	service age population
420	art interactive project internet story	1.75	population family
56	identity stream social individual privacy 0	1.48	people work designed
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44	creative creativity software artefact cultural	1.30	improve care
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