



# Electronics KTN

## UK Design Forum Meeting

Nigel Rix



## Knowledge Transfer Networks



- **24 Knowledge Transfer Networks**

“A Knowledge Transfer Network is a single over-arching national network in a specific field of technology or business application which brings together people from businesses, universities, research, finance and technology organisations to stimulate innovation through knowledge transfer. “

- **Goal: Establish the UK as a  
“global electronic design centre of excellence”**

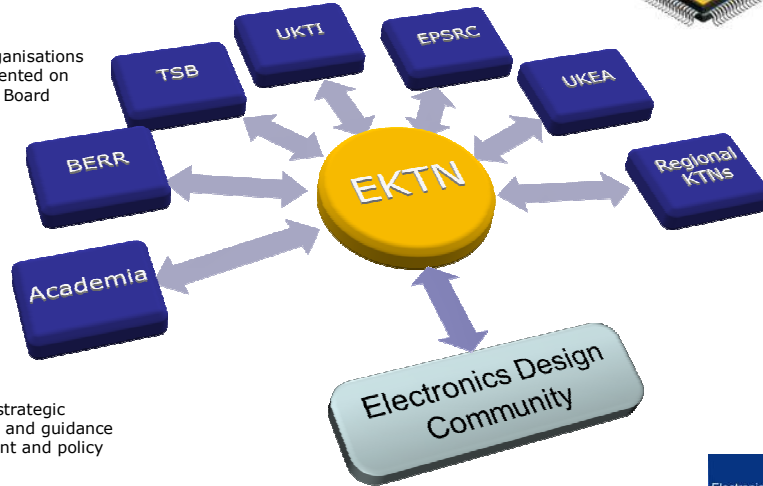
- **Governance**

- Independent
- Not for profit, limited by Guarantee



## Our Interfaces

These organisations  
all represented on  
the EKTN Board



Provide strategic  
direction and guidance  
on content and policy



## Building the Community

### • Networking

- New Technology Knowledge transfer events
- National exhibitions
- Academic research showcases



### • Knowledge – building a knowledge pool

- Roadmaps / Whitepapers
- Webinars
- Special interest groups



### • Collaboration tools

- DNN, Interwise, SharePoint



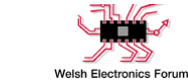
## A national network

### • Regional Delivery Partners

- RDA Regions + Devolved Administrations
- Building the community in the regions
- Delivering content to meet regional priorities
- Industry led steering groups



The Institute of Electronics, Communications and Information Technology



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## Electronics KTN

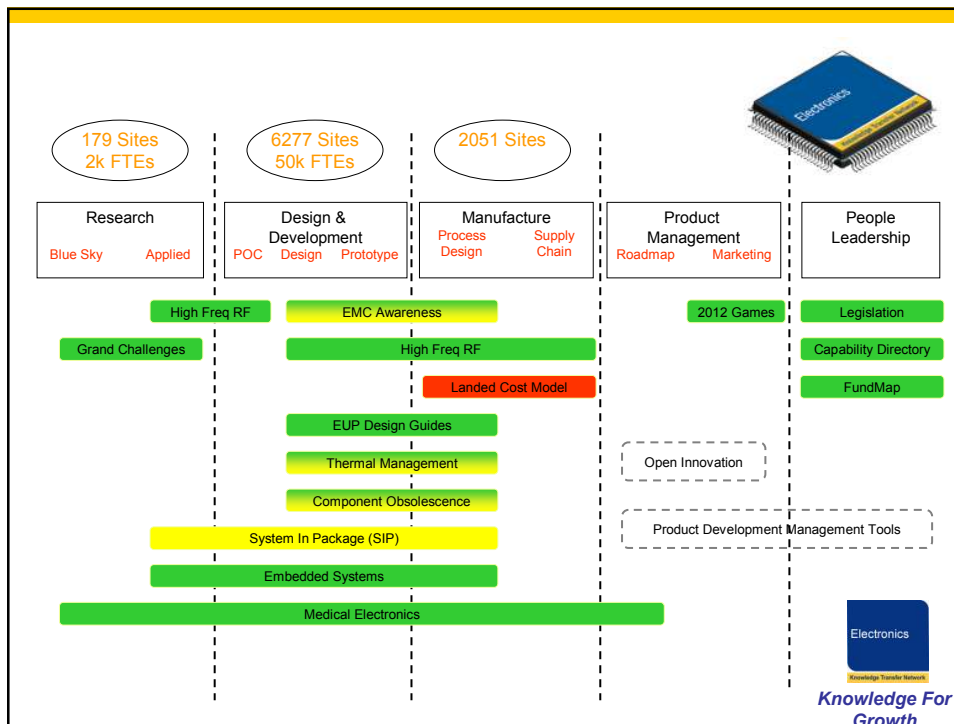


### Our key technology & business themes

- Millimetre and Sub-Millimetre (Terahertz) Wave RF
- Medical & Healthcare Electronics
- Embedded Systems
- Power Management
- AIDC and RFID
- Modern Built Environment / Interoperability
- Design tools and processes
- Supply Chain for the electronics sector
- Standards compliance; EMC, EUP, China RoHS



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## KTN Events

- RFID (Radio Frequency Identification)
  - 2<sup>nd</sup> May – RFID Information Day – Bracknell
  - 15<sup>th</sup> May – RFID Information Day – Halifax
- EMC
  - 4<sup>th</sup> June – EMC Directive for Railways – IET, Savoy Place (in conjunction with IET and York EMC Services Ltd)
  - July – EMC Design Tools with COMSOL & CST (contacted Flomerics and Ansoft)
  - Evening seminars: Benefits of “design for EMC” target CEOs, FDs, Ops Dir



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## KTN Events



- High Frequency
  - July - SKA and what it means for electronics sector working with Prof Missous at M/cr
- Embedded Systems
  - Safety in Embedded Systems  
A perspective on how software development techniques, tools and processes are used in various industries – automotive, defence, medical
- Medical and Healthcare
  - Advances in Lab-on-Chip Technology
  - June 26<sup>th</sup> - Medical Innovation forum



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## ARTEMIS and ARTEMISIA



- London Brokerage event on ARTMIS and ENIAC
  - Speakers from ARTEMIS, EC, TSB, EKTN, NMI, NCP
  - 150 attendees with follow-up
  - EKTN joined ARTEMISIA in order to represent the interests of our members and provide access to information and alerts



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## Special Interest Groups



- Embedded Software
  - Up and running for several weeks
  - 70 members
  - Event materials uploaded for members
  - Members uploading their own calendar events, and documents and participating in discussions
  - Seeking SIG champions to stimulate discussion and activity



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## Website Content



- EuP
  - Webinars and other details
  - Model includes user interface and a content manager
- Regulations (ERG)
  - Reach
  - WEE
  - RoHS
- EMC
- RFID and AIDC content



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## New Content Projects



- Fundmap
  - Produced jointly with Photonics KTN
  - Model includes user interface and a content manager
  - Subject to final audit, "go-live" ready
- Thermal Management Awareness
  - Design guide for engineers - downloadable PDF , Webinar and workshop
  - Delivery July 2008
- Component Obsolescence Design Guide (COG)
  - IP for three existing publications
    - The Obsolescence minefield, Hardware Design and Software Obsolescence
  - Conversion into webinars by each author



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## Grand Challenges Events



- EPSRC funded project to establish the Grand Challenges in Microelectronics Design
- To take work forward:  
A series of events to –
  - expose the work conducted to a wider commercial audience and
  - encourage collaboration between academic research institutions & industry.



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## Motives for these Events



- Grand Challenges to Business - Knowledge Transfer
- Academia to Business - Knowledge Transfer
- Academia to Business - Brokerage
- Business to Business - Brokerage
- Access to EPSRC Funding
- Access to TSB Funding



## Proposed Event Programme



- **Introductory event – half day**
- **Event 2 uGC1** – Batteries Not Included – Full day
- **Event 3 uGC2** – Silicon Meets Life – Full day
- **Event 4 uGC3** – Moore for Less – Full day
- **Event 5 uGC4** – Building Brains – Full Day



Opportunities for engaging with industry and also for promoting selected messages to the wider public





# Introductory Event

- **Steve Furber** – Intro to the project
- **Andrew Brown** – What did we achieve?
- **Roger Woods** – “It’s good to collaborate”
- **EPSRC** – the importance of EPSRC funded research projects
- **TSB** – the importance of industry engagement with academia
- **Dan Dearing**– what’s next in terms of follow up from this introduction



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# Support for Intro Event

- Sponsorship of venue and catering from EPSRC
- Co-promotion with Health Technologies KTN and Sensors KTN
- Co-promotion from NMI, IET, Intellect, Silicon Southwest
- Endorsement and promotion from ABHI



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## Themed One-Day Events



- **Introduction** – and recap of the initial event
- **Academic Presentations** – covering the research being conducted in an area related to the theme
- **Industry speaker** - industry perspective on research
- **Lunch**
- **Foothill projects workshop** – series of parallel, streamed, interactive, facilitated workshops aimed at identifying potential research projects that develop the theme further towards the relevant Grand Challenge...



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## Calendar of Events



- **Introductory Event** – March 28<sup>th</sup>, London
- **Batteries not Included** – Mid July, Southampton
- **Silicon Meets Life** – Early Sept, Manchester
- **Moore for Less** – Early October, Cambridge
- **Building Brains** – Nov, Venue TBC

**Seeking sponsorship** from industry partners

**Wide collaboration** with other KTNs and TAs



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## Follow-Up to these Events



- Focused Groups of Commercial Participants
- Proposals for EPSRC Funded Research Projects
- Building the EKTN Community
- Initial Brokerage Discussions
- Links into other KTN and TA events on related themes



## Un-Met Needs Programme



- Grand Challenges programme acts as a platform to recruit volunteers from participating companies
- Forum to discuss real world needs
- Feed back into Academic Research
- Increased collaboration between Academia and Industry
- Encourage "Open Innovation"
- Increased commercialisation of academic research



## Silicon Futures Programme



- Similar, parallel or integrated series of events proposed for Silicon Futures Grand Challenges project
- Not practical for EKTN to deliver such a series
- Slightly different community (devices)
- Subject matter not so familiar to EKTN
- Closely aligned to NMI community and members expertise so offered to support NMI as delivery partners for a similar series of events



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See us at....



**medical  
innovation forum**  
25 june 2008 - olympia conference centre, london



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