ARM Research

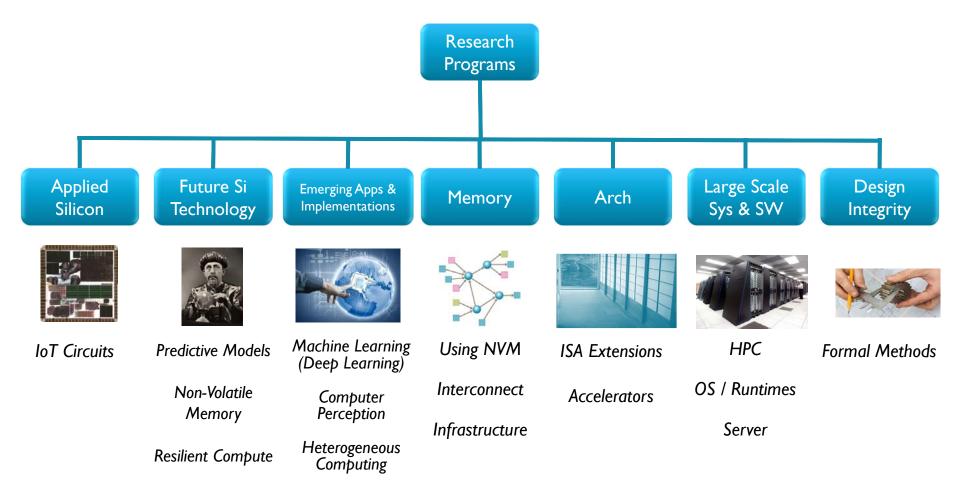
Prof. John Goodacre University Engagements

Who am I....

- Professor of Computer Architectures, Advanced Processor Technologies Group, School of Computer Science University of Manchester
- Co-Founder and Chief Scientific Officer, KALEAO Limited, Cambridge
- And for today's talk, I'm...
- Director of Technology and Systems, ARM Ltd.
 External Research Collaborations Group, Cambridge



Outline Structure of ARM Research Group





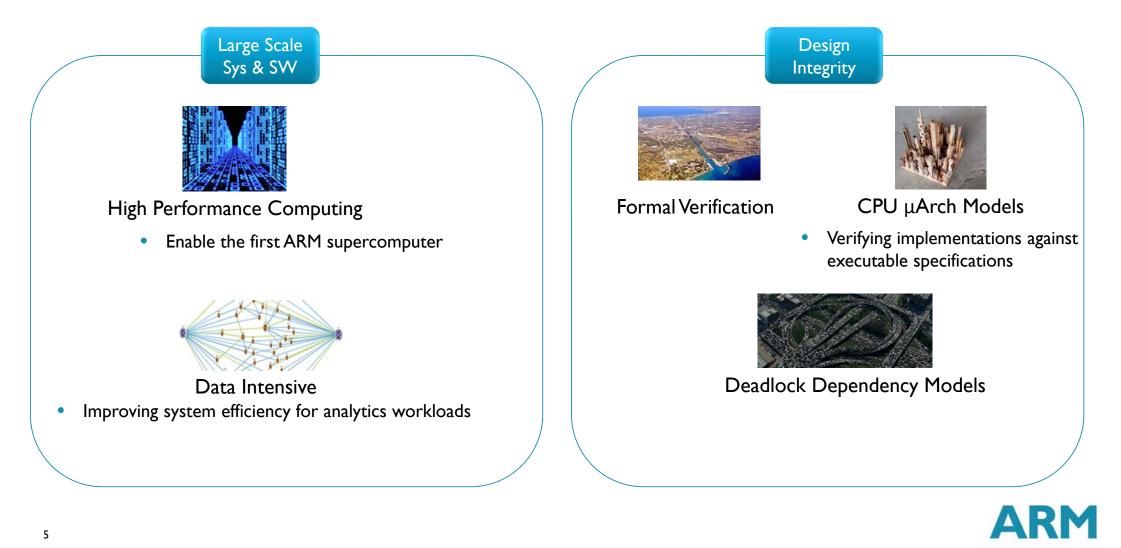
Key ARM Research Office Locations



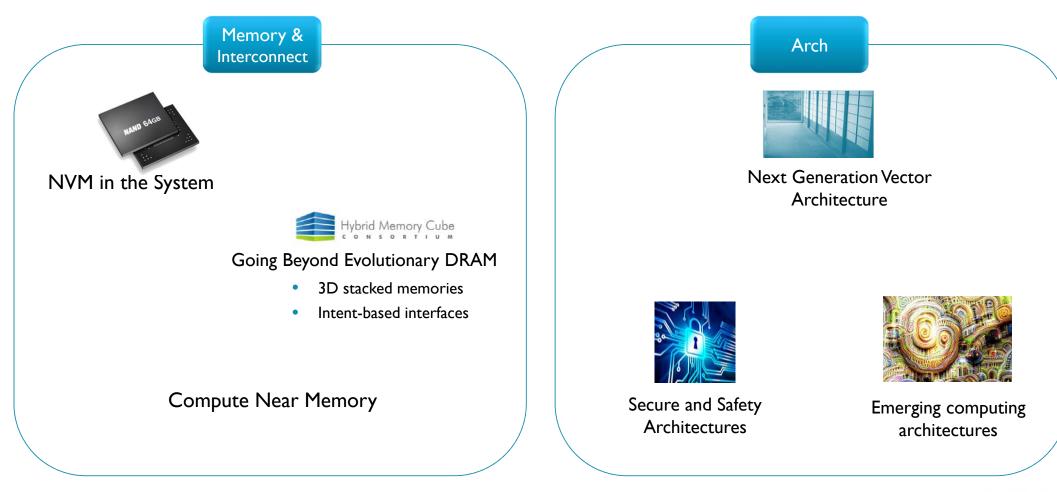
~100 researchers worldwide



Research Focus Areas #I

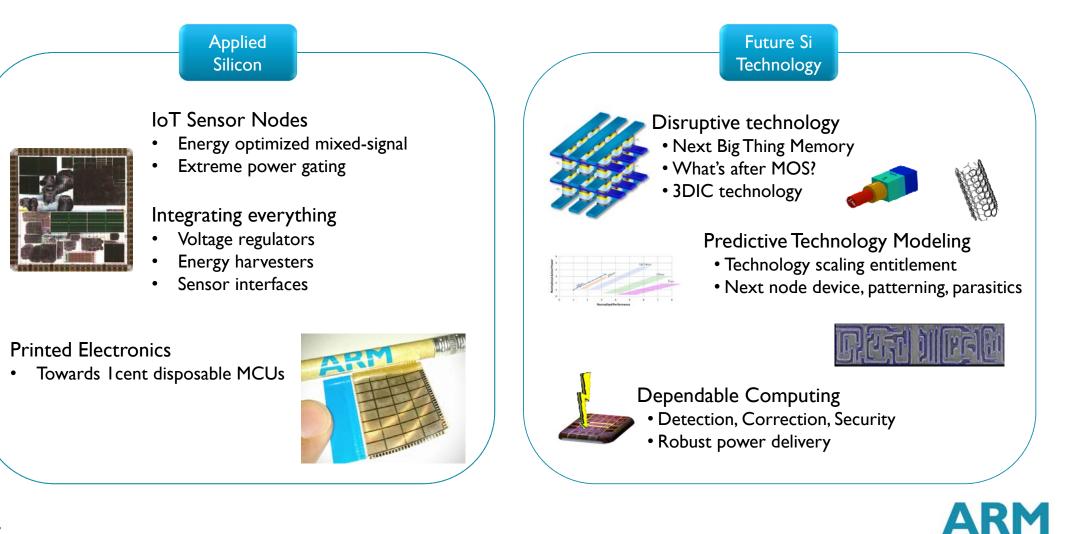


Research Focus Areas #2

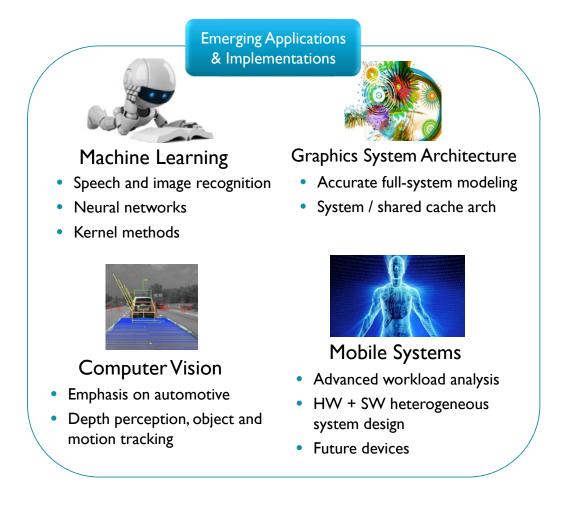




Research Focus Areas #3



Research Focus Areas #4



ARM

External Collaboration Strategies

- Joint Collaborations
 - Framework agreements
 - Studentships
 - Internships
 - Non-Exclusive Royalty-Free ("NERF")
 - Driven by existing f2f relationships

- Technology Enablement
 - Product IP
 - Tools donation
 - Support letters on funding requests
 - Open to all requests



Example Partnerships with UK Universities



Advanced CPU architectures and joint EC H2020 proposals



Heterogeneous architectures project and joint EC H2020 proposals



Compilers/tools for HPC and joint EC H2020 proposals

Southampton

Advanced circuits and testchips



Growing Internationally

- Extending USA contacts
- Growing across Europe
- Building connections into Asia



Current EU Collaborative Research Projects

Mont-Blanc

- World's first ARM-based supercomputer
- Funded by EC H2020 programme



M2DC

- Modular Microserver Data Centre
- Funded by EC H2020 programme



TCLS

- First Radiation-tolerant ARM CPU system development
- Funded by EC H2020 programme



Uniserver

- Scalable Microserver Ecosystem
- Funded by EC H2020 programme



Exanode

cea

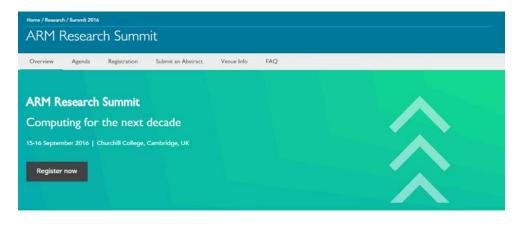
Hipeac

- Networking project of Computing Community in Europe
- Funded by EC H2020 programme





First ARM Research Summit



The inaugural ARM Research Summit is an academic summit to discuss future trends and disruptive technologies across all sectors of computing. It will take place in Cambridge over the days of 15-16 September, and will be hosted by Churchill College.

Registration is now open, so be sure not to miss out on securing one of our limited places for this event.

The Summit includes talks from the leaders in their research fields, demonstrations, networking opportunities and the chance to interact and discuss projects with members of ARM Research.

If you would like to submit a proposal to speak at the conference then please follow the instructions on the Submit an Abstract page. Submission is open now.

We look forward to seeing you at the inaugural ARM Research Summit on 15-16 September 2016 in Cambridge.

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Great Location See venue information





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- http://www.arm.com/summit



Thank you

John.Goodacre@arm.com