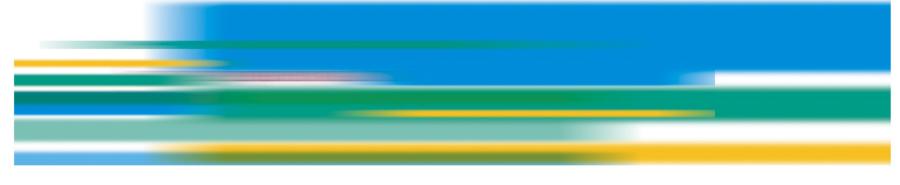
ENGINEERING AND PHYSICAL SCIENCES RESEARCH COUNCIL

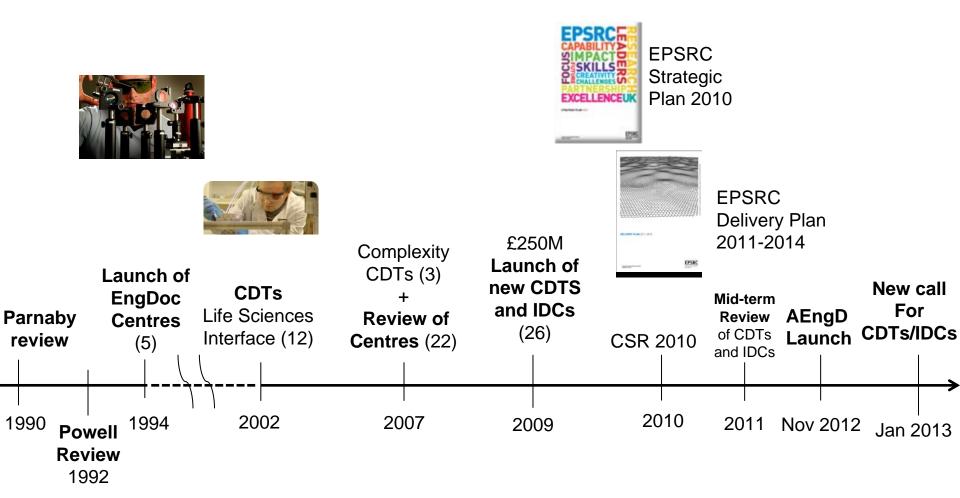
Eng Doc: A Revolution in Postgraduate Training





Paul Golby, EPSRC Chairman AEngD Launch 1st November 2012

From Eng Docs to IDCs WHERE WE'VE COME FROM





- **29** Industrial Doctoral Training Centres (IDCs)
- Total spend (2011-12) = **£19M**
- No of students trained = **1400** (approx.)
- No of company partners = 600 (over time)

"Without the work done by EPSRC-funded Students, the Trent 900 would not have flown"

Colin Small(Rolls-Royce)



What Eng Docs have achieved

- Successive reviews (2007 / 2011) identified key achievements:
- High-quality KT through People
- Quality of intake / outputs from the centres
- Practical research aligned to business needs
- Combines academic learning with integration within sponsor company
- Produces people with the right skills needed by UK Businesses



Case Study 1 – Zoe McMahon





- Placement with HP (1994)
- Integrating environmental management into mainstream business processes
- Now Director of Social and Environmental Sustainability and Compliance at HP

"An EngDoc is like a 4-year job interview.
You are not guaranteed a job at the end but
you could get a great job anywhere"
Zoe McMahon, HP



Case Study 2 – Liza Brooks

- EngDoc at Cranfield University
- True Snowboard Ltd Co-founder and Technical director (until 2010)
- Focus on Materials, Geometry and Construction – improving snowboard design
- Entrepreneur and STEM Ambassador
- Now Engineer at Dyson (Acoustics Team)

"I think EPSRC funding is essential to pushing science and engineering further than ever before, and pushing industry forward."







- Interdisciplinary Higher Degree (Aston)
- Study into Crude Oil offshore loading systems
- Sponsored placement with Shell and Dunlop
- Focus on Materials, Construction and failure modes – improving product and system design
- 12-months site testing in Nigeria



EngDocs – Broader Impacts

- Several other UK HEIs are looking to embed CDT/IDC-style PhDs as the norm
- Internationally:
 - CDT franchised in China twinned with UK
 - Australia have already set one CDT up and track EPSRC developments very closely
 - AStar (Singapore) has set up targeted collaborations/exchanges with several CDTs in the UK





- Sustainability of funding / Cost sharing
- Plans for making Centres become 'business as usual'?
- Relevance to Growth agenda / Industrial Strategy

"Centres for Doctoral Training are causing a revolution..."

David Willetts (Science Minister)

