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Impact driven knowledge transfer: meeting the needs of business and universities

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Context



- Fiscal environment
- Spending review settlement
- Radical changes to HE landscape
- Knowledge exchange **with impact**
- KT has become smarter
- Reality of Open Innovation

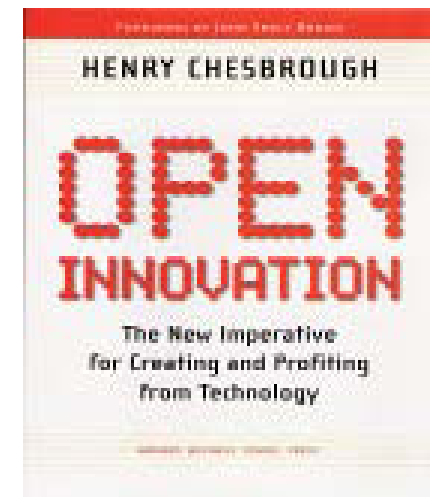
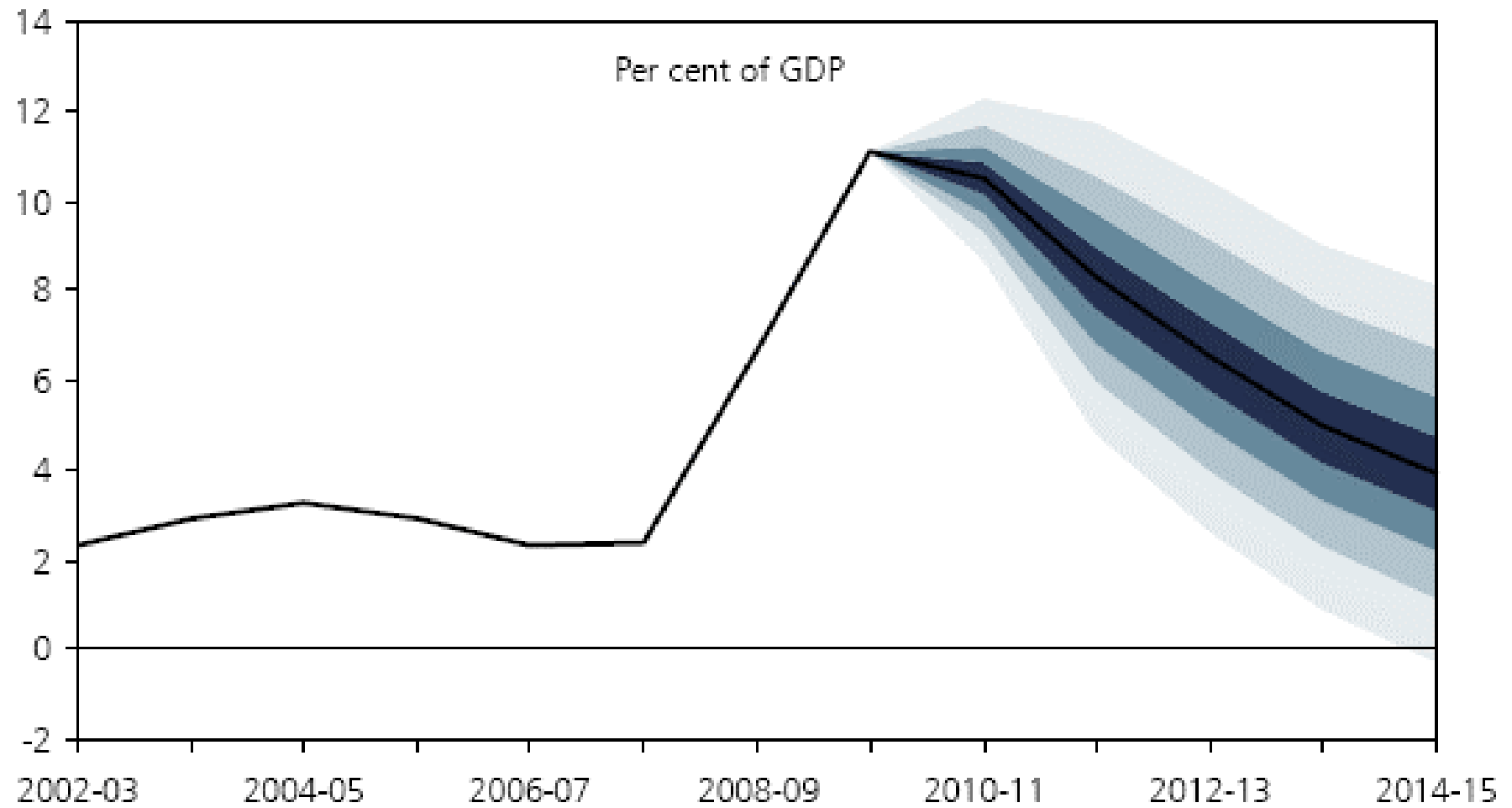


Chart 4.1: Public sector net borrowing





We're all feeling the squeeze

A bit about me



- 8 years in business
 - Large & Small
- 14 years in Knowledge Transfer
 - University
 - RDA
 - RTO/PSRE – incl. KTNs
- Now: Innovation Networks



Background to NPL

- NPL develops & disseminates UK's measurement standards, and ensures they are internationally accepted
- Founded in 1900
- GOCO
- An RTO and PSRE



Background to NPL

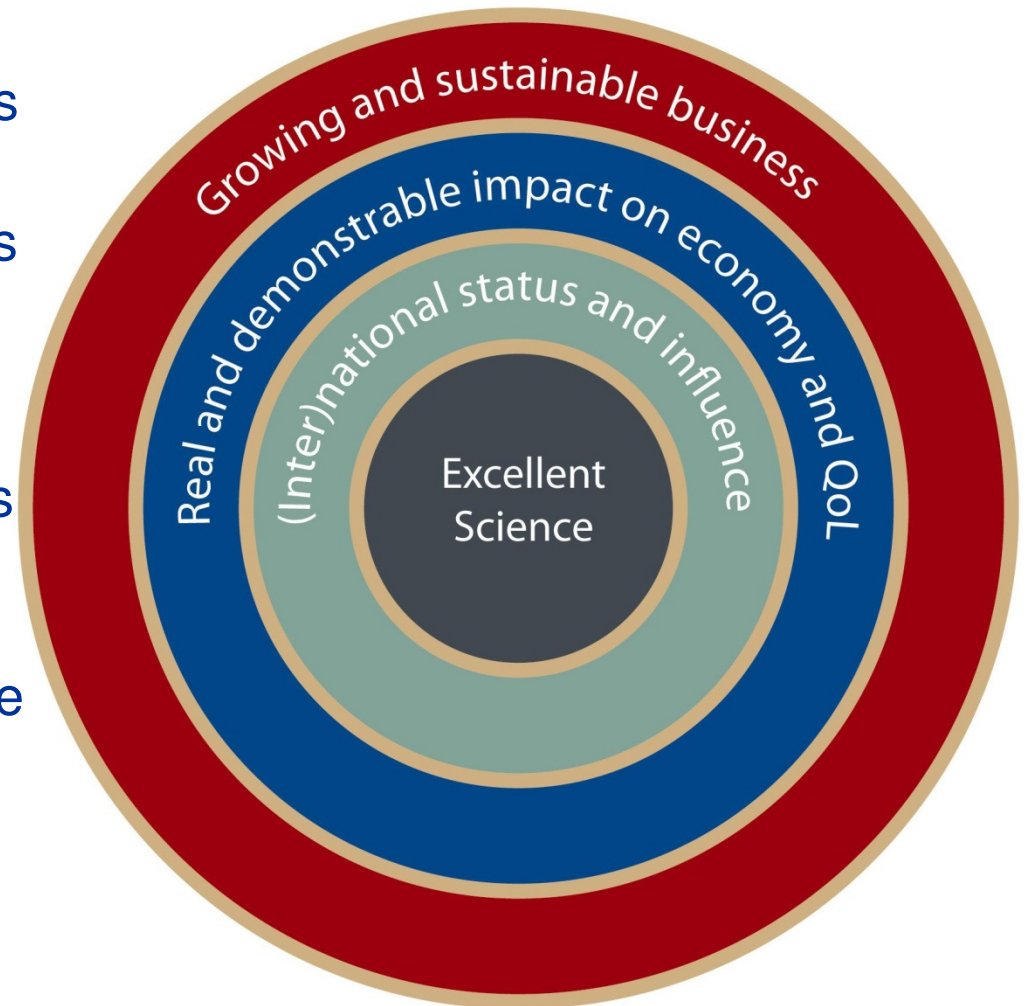


- 700 staff, 500 Graduate/PhD scientists - multidisciplinary
- BIS largest science and technology asset, but working across Government and Industry
- A world-leading National Measurement Institute (Top 3 among ~55)



NPL's Strategy

- ✓ Delivering excellent responsive science and knowledge services
- ✓ National and International status and influence: a world leading National Measurement Institute
- ✓ The NMI that best demonstrates social and economic impact
- ✓ Organic growth and step change initiatives to deliver a growing and sustainable business



We deliver science with impact

Knowledge Transfer at NPL

Knowledge Transfer at NPL

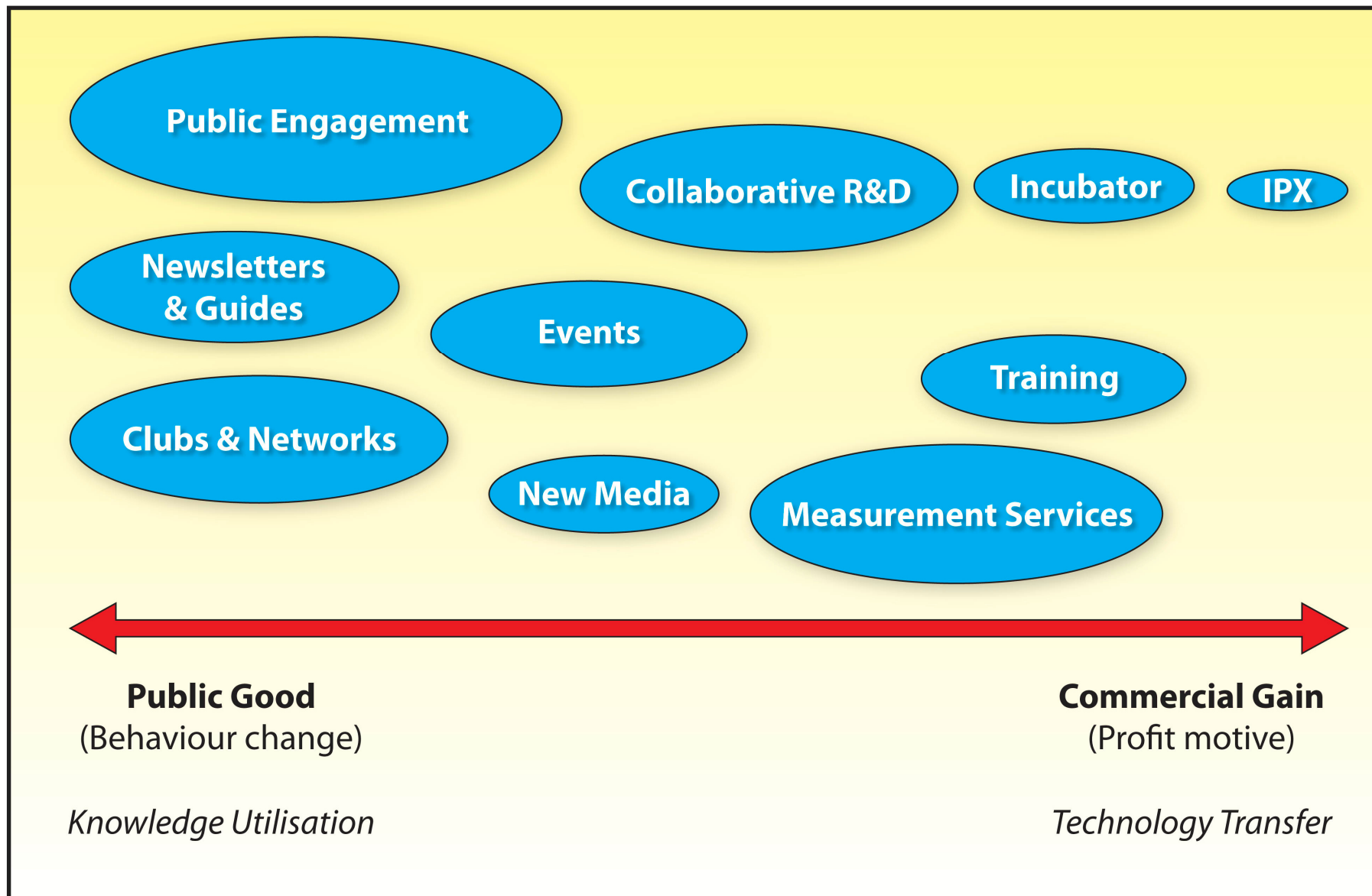


Figure 1. Knowledge transfer continuum at NPL

NPL KT contracts



National
Measurement
Network



Knowledge
Transfer
Network

ICT

Knowledge
Transfer
Network

Electronics, Sensors,
Photonics

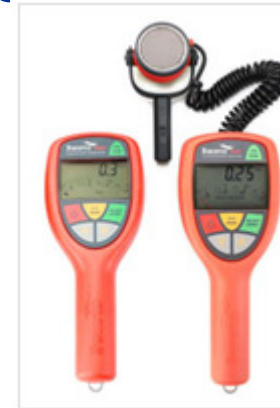


National Measurement Network



Supporting UK's high value SMEs

- Radiological Instrumentation
- Practical support for technical sales
- Improves internal knowledge management
- Validated third party data



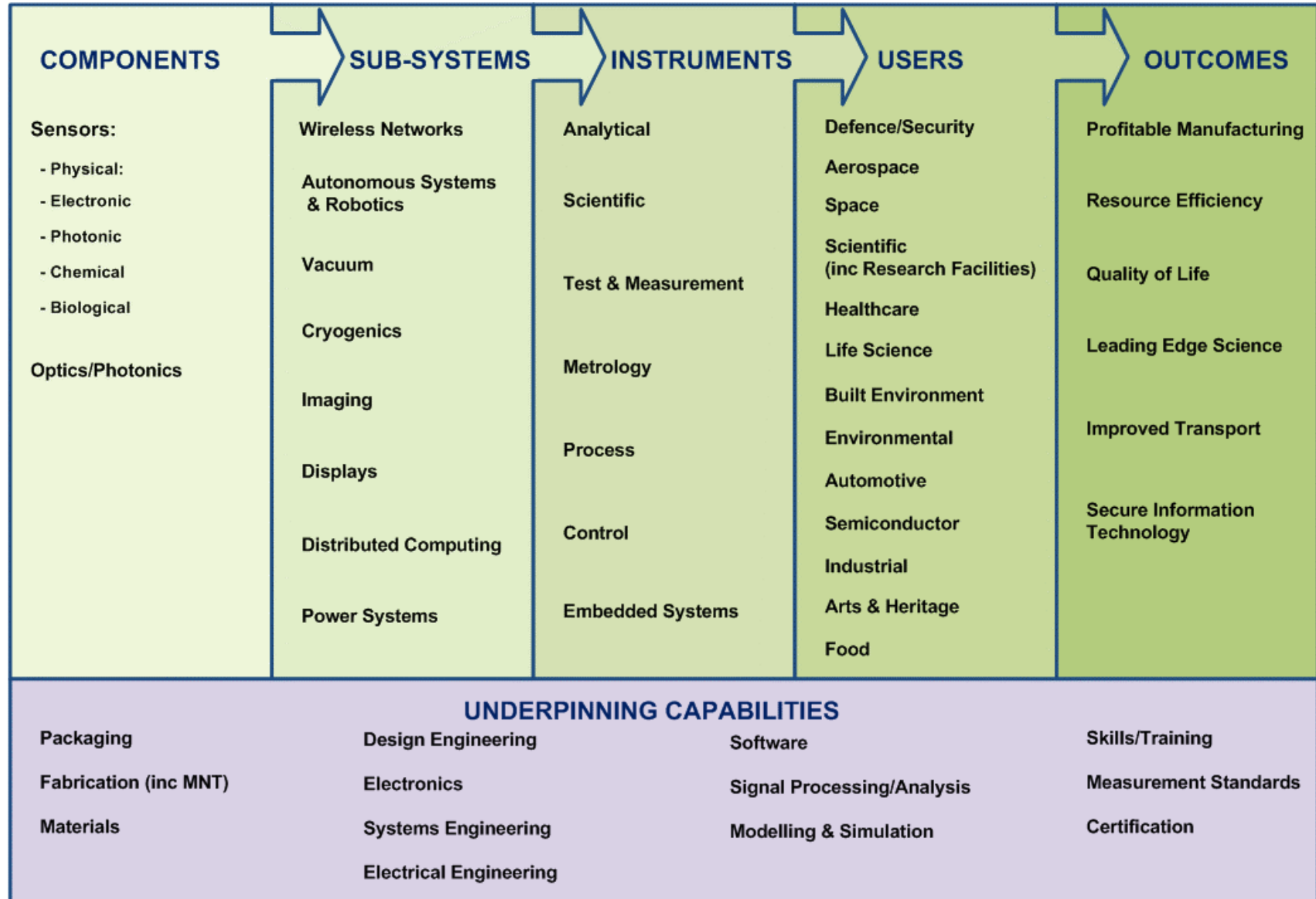
Sensors & Instrumentation KTN



Knowledge
Transfer
Network

Electronics, Sensors,
Photonics

Sensors & Instrumentation KTN



Sensors & Instrumentation KTN



- 1,298 active members (organisations) in the 12 months to June 2010
- 2,366 members
- Secured £97m of funding for members

Work continues
through the ESP
KTN

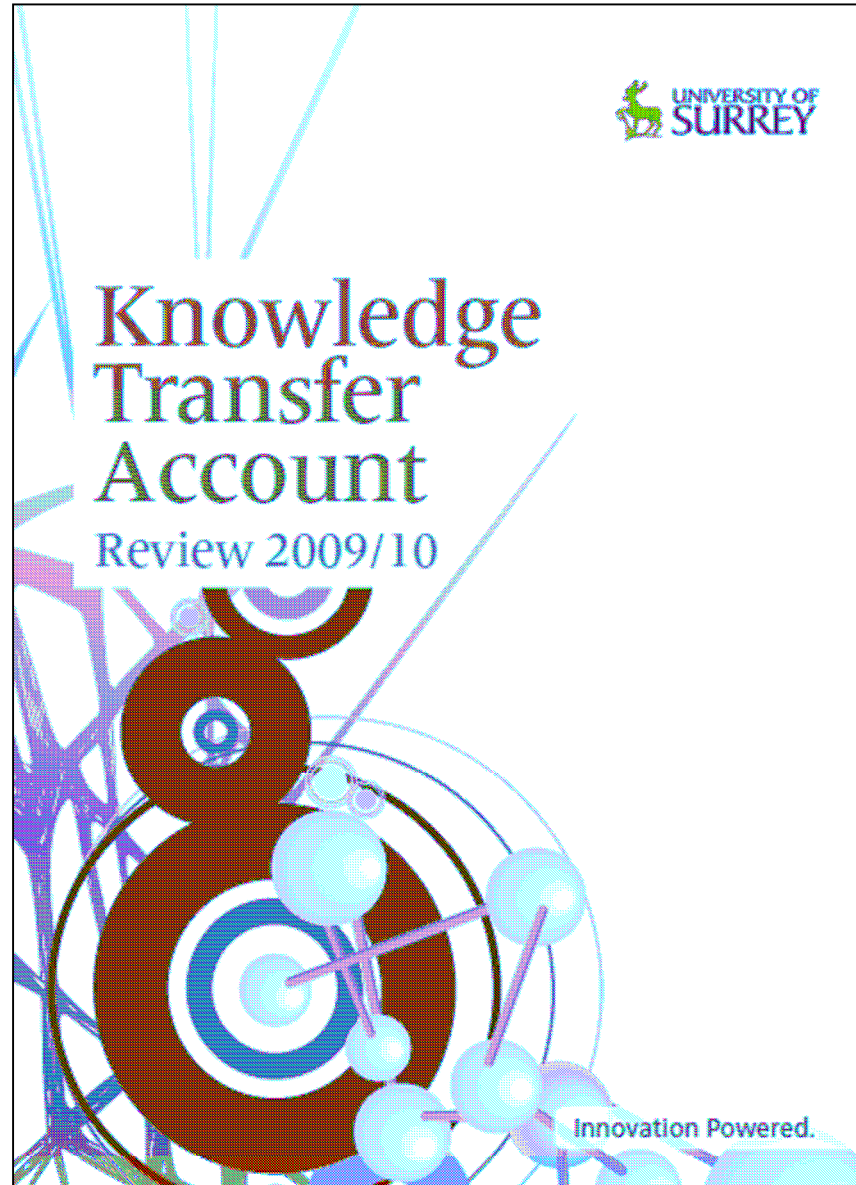


Location & Timing KTN

Knowledge
Transfer
Network

ICT

University of Surrey



Surrey KTA

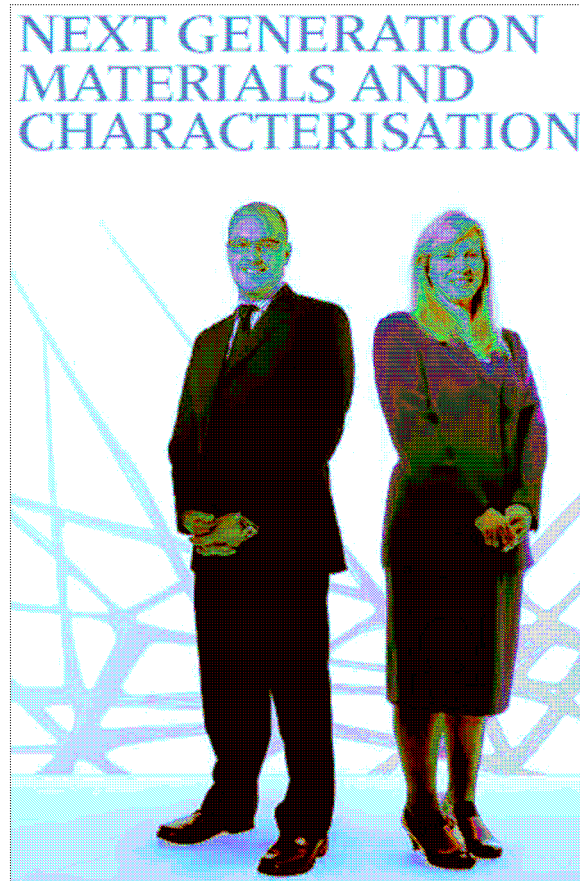


- Objective: to fully exploit research funded by EPSRC
- Focussed around 3 technology platforms
- Cash funding to build collaborative ventures
- Run in partnership with NPL

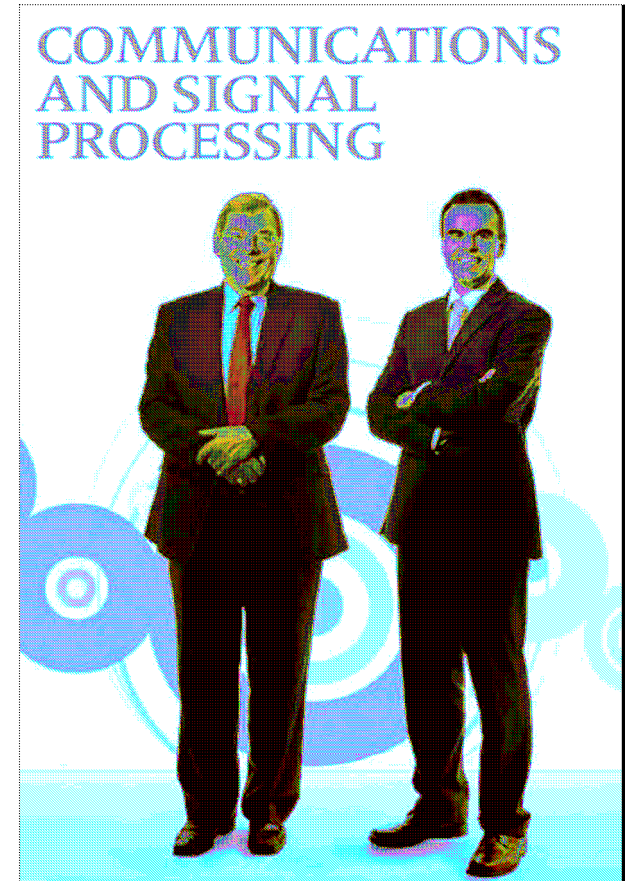
Surrey KTA



Prof Ravi Silva and Tiju Joseph



Bevan McWilliam and Prof Karen Kirkby

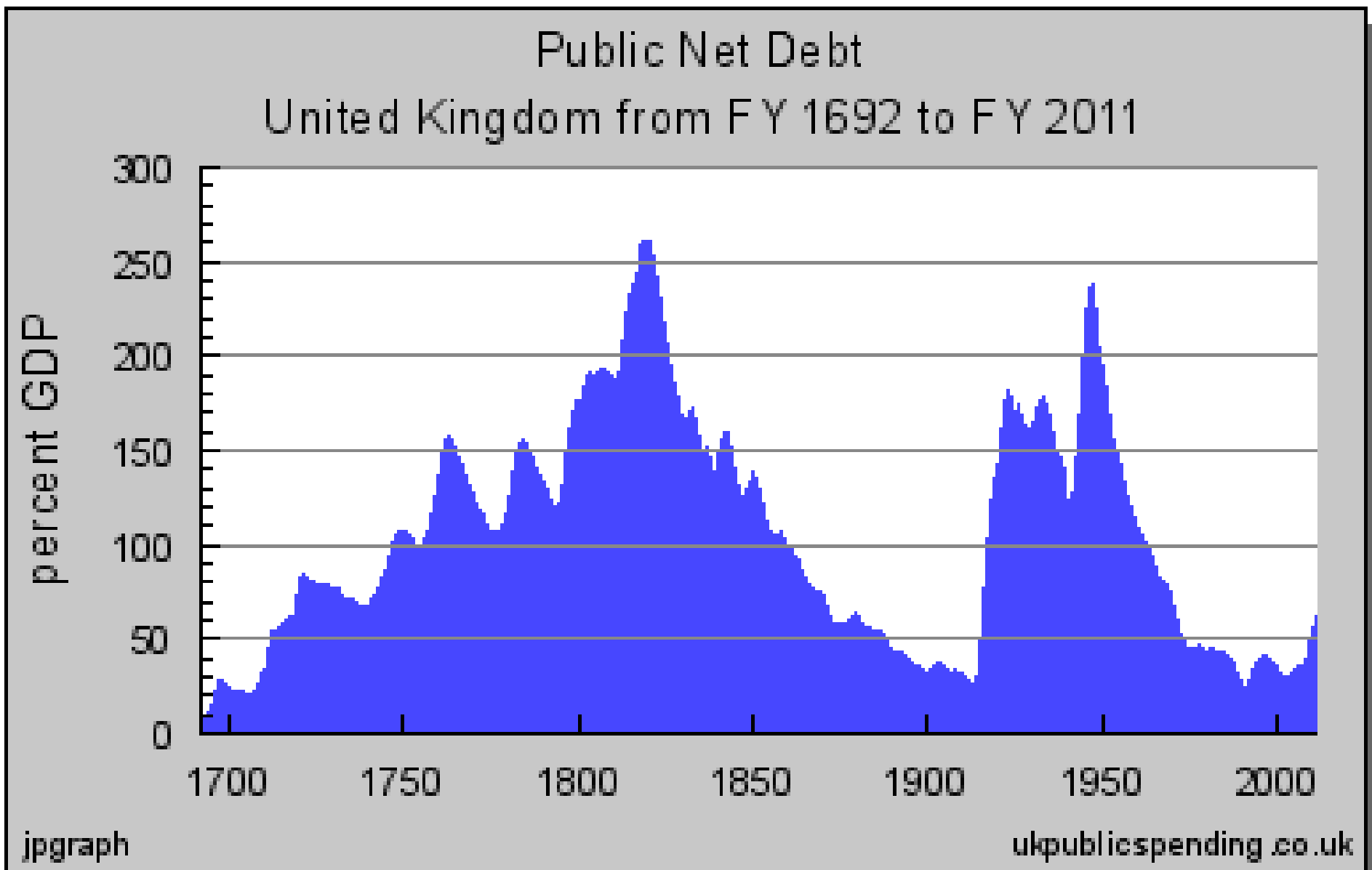


Prof Barry Evans and Peter Lancaster

Why KT works at NPL



- Middle ground between Universities and businesses – external to both
 - ✓ Seen as: trusted, independent, credible, neutral
- Able to draw on NPL's networks
- Close to market and impact driven
- Impact measurement in all KT
- Freedom to recruit and retain top talent



The way out of debt is trade: this is what the UK has done before

Conclusions

- KT needs to be innovative to respond to significant changes
- Open Innovation is a reality
- We need to focus on what we're good at



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