

ENGINEERING AND PHYSICAL SCIENCES RESEARCH COUNCIL

Research Council for Manufacturing



EPSRC

Pioneering research
and skills

EPSRC – some quick facts

- EPSRC is the **primary funding body** for science and technology research in the UK
- In the period 2008 – 2011, EPSRC will commit **£2.4 billion** to funding research, training and Knowledge Transfer in **UK universities**
- EPSRC currently funds almost **6000 research projects**, with a total value of **~£3.3 billion**
- EPSRC funding currently supports over **8300 PhD students**
- Approximately **20,000 publications per year** arise from EPSRC supported research

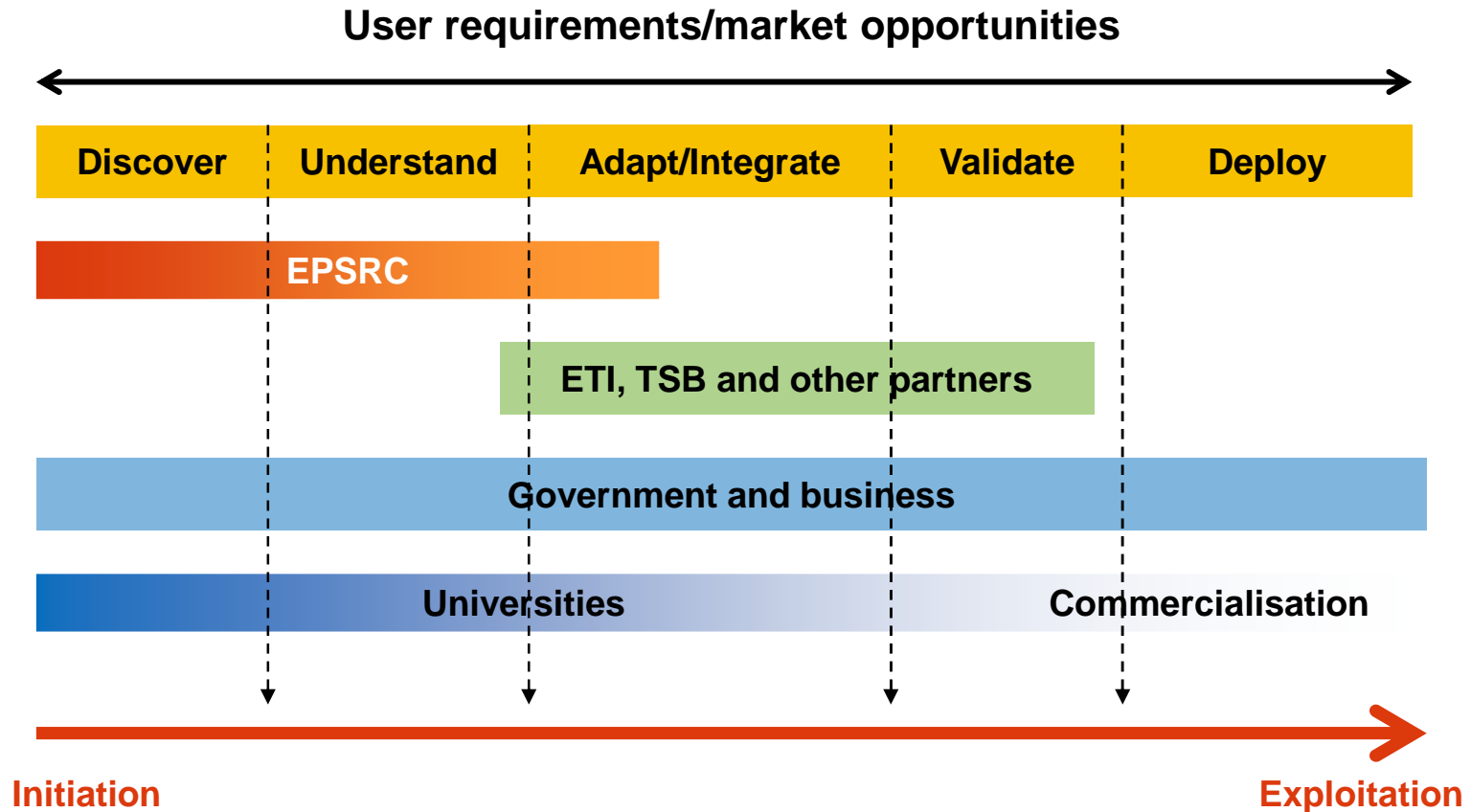


EPSRC – Organisational Structure

Department for Business, Innovation and Skills (BIS)						
BIS Science and Innovation Group						
Research Councils UK						
AHRC	BBSRC	EPSRC	ESRC	MRC	NERC	STFC
Council Chairman: Mr John Armit						
Chief Executive: Professor David Delpy						
Business Innovation Directorate: Catherine Coates	Communications & Information Directorate: Atti Emecz	Corporate Services Directorate: Stuart Ward	Research Base Directorate: Lesley Thompson			



EPSRC in the Innovation Chain



Our Strategic Ambition

The heart of discovery and innovation

We generate the fundamental knowledge and skilled people essential to:

- government
- business and industry
- other research organisations

Science and engineering drive the global economy.

Engineering and physical sciences research is key to tackling grand challenges such as:

- energy security
- our ageing population
- crime
- economic resilience



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EPSRC AND MANUFACTURING

Creating new industry and new jobs

- **Supporting key industry sectors**
nuclear, aerospace, pharmaceuticals, low carbon industry
- **Creating wealth through new technologies**
green technology, regenerative medicine, plastic electronics
- **Training highly skilled people**
leading to new jobs and inward investment



“We are currently investing £1.2bn in research and postgraduate training relevant to manufacturing industries”



EPSRC and manufacturing industries

Impacts are ubiquitous:

- across core disciplines (engineering, physical and information sciences)
- and in interface areas (life and social sciences)

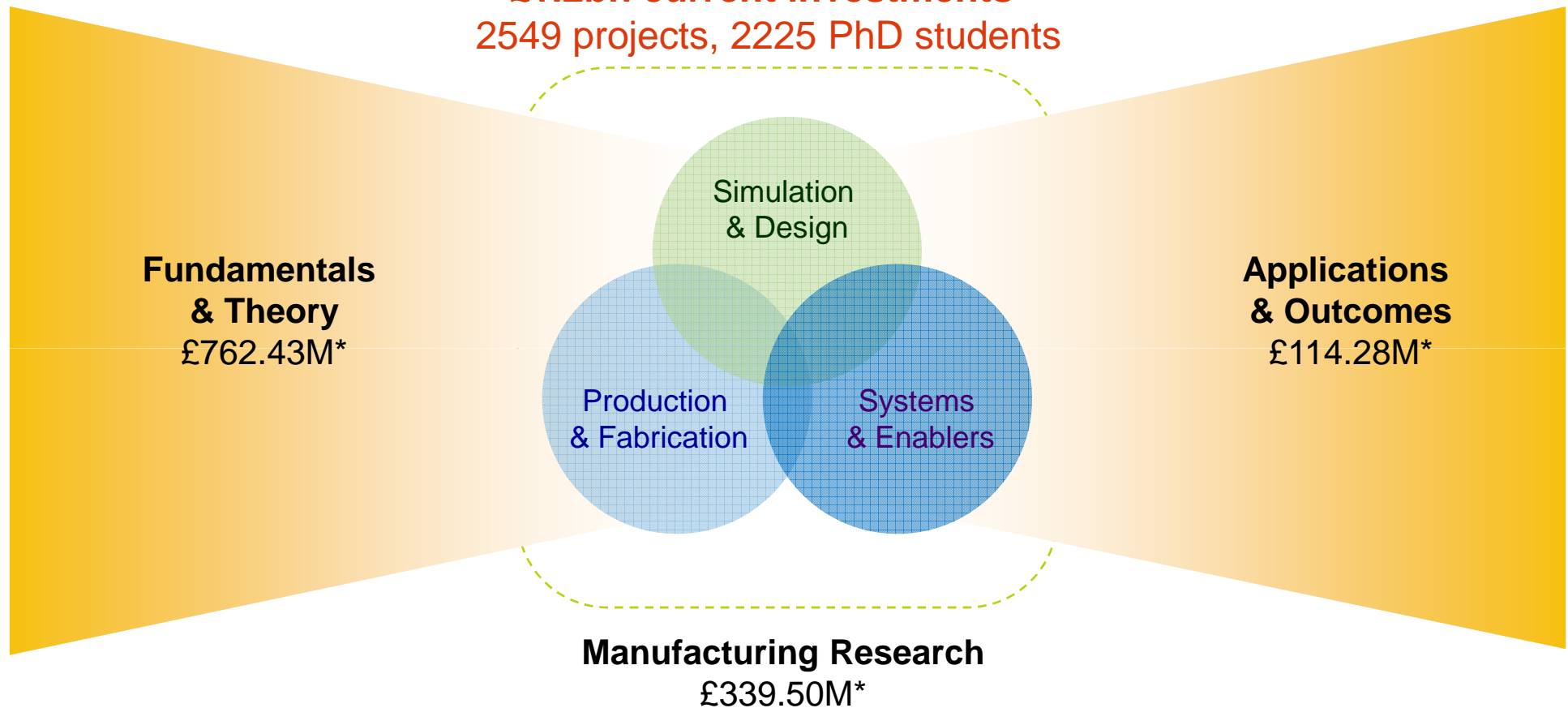
Action to improve scale and speed of impact:

- Knowledge transfer and commercialisation
- Connection with business led initiatives, eg with TSB and strategic partners
- Industry involvement in postgraduate training
- Manufacturing research: design, manufacturing technologies and operations



THE RESEARCH COUNCIL FOR MANUFACTURING

£1.2bn current investments*
2549 projects, 2225 PhD students



*Figures correct as of September 2009



EPSRC'S ROLE IN GROWTH TECHNOLOGIES

Centres of excellence and collaboration

- 3 New EPSRC Centres for Innovative Manufacturing (£15M):
Regenerative Medicine, Photonics, Liquid metal processing
- 16 Innovative Manufacturing Research Centres (£117M+) across the breadth of UK manufacturing community to respond to industry needs.
- £24M for four Innovation and Knowledge Centres to accelerate business involvement in emerging technology areas.

Partnership with the Technology Strategy Board

- Jointly supporting a £200M investment in R&D in areas of strategic national importance.
- Identifying emerging areas for TSB support – Novacem green cement now being brought to market after 10 years of initial research supported by EPSRC.



EPSRC Centres for Innovative Manufacturing

- To create, deliver and disseminate a coherent programme of innovative manufacturing research.
- To address major long-term manufacturing challenges / and or emergent market opportunities.
- To provide strong support for UK manufacturing industries.
- To enhance the global profile and significance of UK manufacturing research.
- To create a national network of expertise in manufacturing knowledge with outreach to other centres and relevant research groups.



DEVELOPING HIGHLY SKILLED PEOPLE

EPSRC currently supports over 8,000 PhD students

Industrial doctorate centres provide industrially focused PhD training

- 1200 EngD students trained since 1992, involving 500 companies. ITM Power co-founded by a student now has a market capitalisation of over £100 million.
- New training centres starting in October 2009 will train 2000 students, and include 18 industrial doctorate centres
- Areas include Visualisation, Electronics Design, Systems, Medical Systems, Nano, Fuel Cells, Healthcare & Pharma, and Bioprocessing

“BAE Systems requires senior managers with excellent engineering understanding, business skills and market awareness; I believe the EngD programme satisfies these needs and should be encouraged.”

Richard Blockley, Head of Technical Programmes at BAE Systems



WORKING IN PARTNERSHIP

2,300 organisations collaborating on EPSRC projects

Department for
Transport



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