

# Launch of EPSRC High Value Manufacturing Catapult Fellowship Centre

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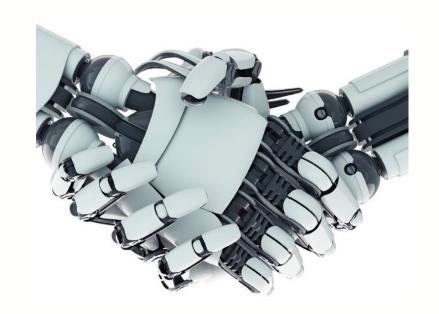




# EPSRC and TSB Partnership in High Value Manufacturing

Action 5.

EPSRC and TSB will seek to motivate and mobilise joint working between the EPSRC Centres for Innovative Manufacturing and HVM Catapult, including encouraging collaboration on EPSRC and TSB programmes, staff exchange and joint dissemination.

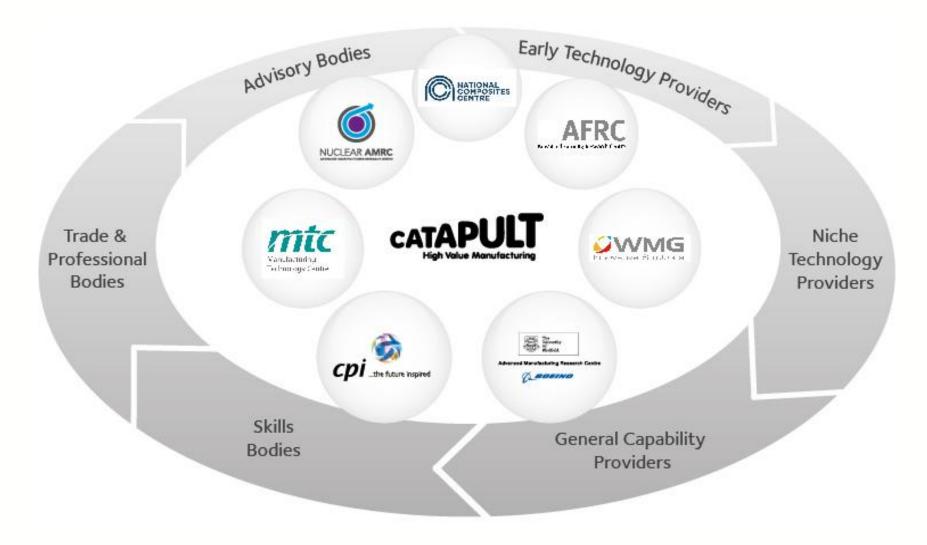








# High Value Manufacturing Catapult



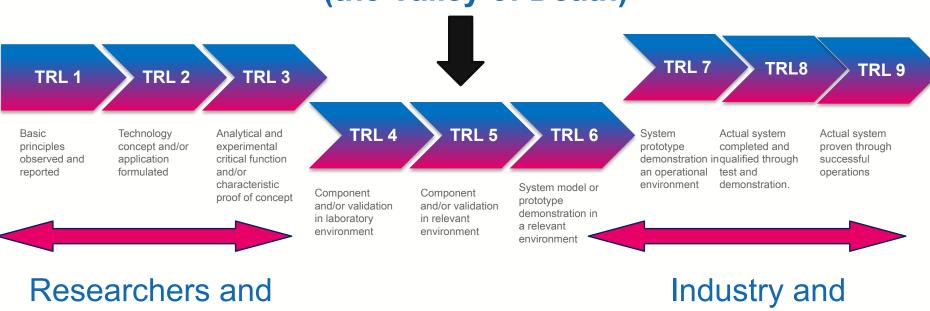






#### **Commercialising innovation**

#### Many inventions fail here (the Valley of Death)



inventors

companies





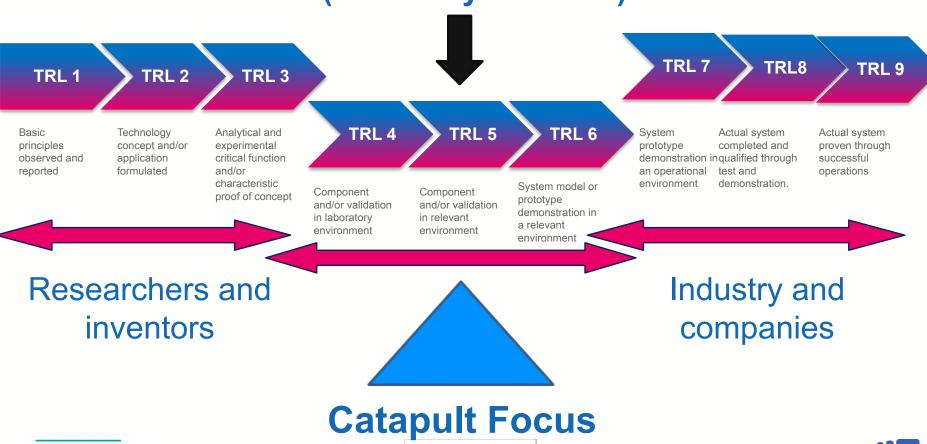


#### **Commercialising innovation**

Engineering and Physical Sciences

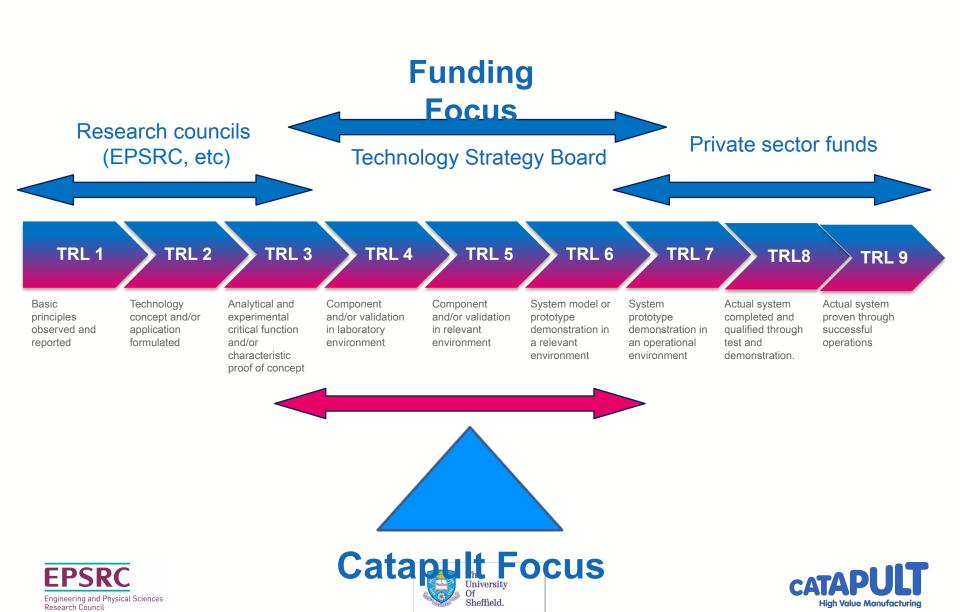
Research Council

# Many inventions fail here (the Valley of Death)



University

#### Catapult role in commercialising innovation



### Aim of EPSRC HVMC FC

 to enable and foster UK academic engagement with HVMC, and

 to accelerate impact from breakthrough academic ideas into manufacturing research across UK's industrial base.







# **Objectives**

- To serve as a focal point of integration between UK's academic research and HVM Catapult centres, by providing vision and tools for collaborative engagement,
- To assist UK academia in materialising novel research into new advanced manufacturing methods that will create high value to the national economy, and
- To assist in developing any additional fundamental research needed to overcome bottlenecks further up the innovation landscape.







## How to get there

- Calls for Fellowships announced in Sep 2013
- The fellowships will enable academic staff to spend 6-month research visits in either one or more HVM Catapult centres spread flexibly between 1-4 years.
- AMRC will facilitate management of the centre with the assistance from Steering Committee







#### How it works

EPSRC/HVMC
Visiting
Fellowship to
collaboratively
develop the
process

Academic with research that can be converted to a manufacturing process

HVM Catapult
Centre with a
partner that needs
the research
bringing to market







### **Initiation & Selection Criteria**

- Projects will be co-created between academic and the host HVMC centre
- The academic cannot be from the host institution or associated universities
- Proposals will be selected by a panel representing HVMC and UK Academia







# Fellowship Forum

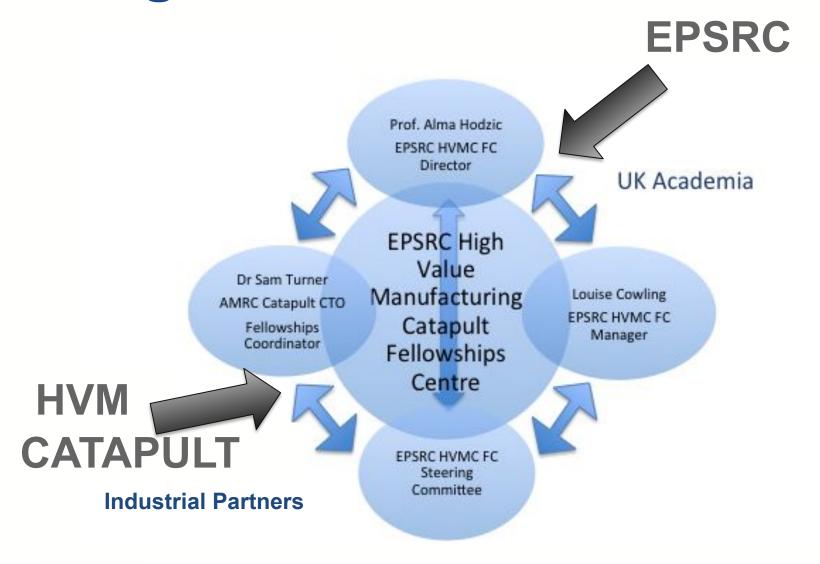
- EPSRC HVMC Fellowship Forum will comprise the awarded Fellows and the centre's steering group (Catapult CTOs and the core management team).
- The Forum will meet annually at HVMC centres to facilitate the knowledge exchange between the Fellows and the stakeholders.







## Management structure









#### **Timetable**

- Sep 2013: Launch of the FC and website
- Oct 2013: First Call for Proposals
  - Case for support
  - Impact Statement
  - Financial Justification
  - HVM Catapult and Industrial Support Letters
- Dec 2013: Submission deadline, reviews
- Feb/March 2014: Panel meeting
- March 2014: Letters of Offer and
- NDA April 2014: Induction, Annual Forum and Steering Committee meetings







## What will Fellowship look like?

- Academics to work with Catapult centres
- Accelerate ('catapult') the impact of their research
- Tailor to suit the academic's and Catapult's needs
- Publications expected from research projects if approved by Catapult centre and their related partners







# Does it need to be complicated?

#### **HV Manufacturing Centre**

- The HVMC staff has less time for networking and academia is rich in knowledge transfer
- Reporting to the industry on daily basis can enable massive impact, however TRL1-3 grant applications require writing time and brand new concepts

#### **Academia**

- Industrial R&D enables impact after 3-5 years rather than 10-15 (or even 30)
- Learning from industry what is the next big thing
- Science for engineering rather than science for science



# **Bridging AMRC with Academics**



SMRCL Composites at Sheffield 27 members - Private



SMRCL Nuclear 14 members - Private



SMRCL Advanced Manufacturing 31 members - Private



SMRCL EPSRC IDC In Machining Science 7 members - Private



SMRCL Future Manufacturing Institute 13 members - Private



SMRCL Defence Research Consortium 6 members - Private



SMRCL Medicine and Manufacturing 7 members - Private



SMRCL EPSRC Early Career Forum In Manufacturing 6 members - Private



SMRCL AMRC and ACSE 7 members - Private























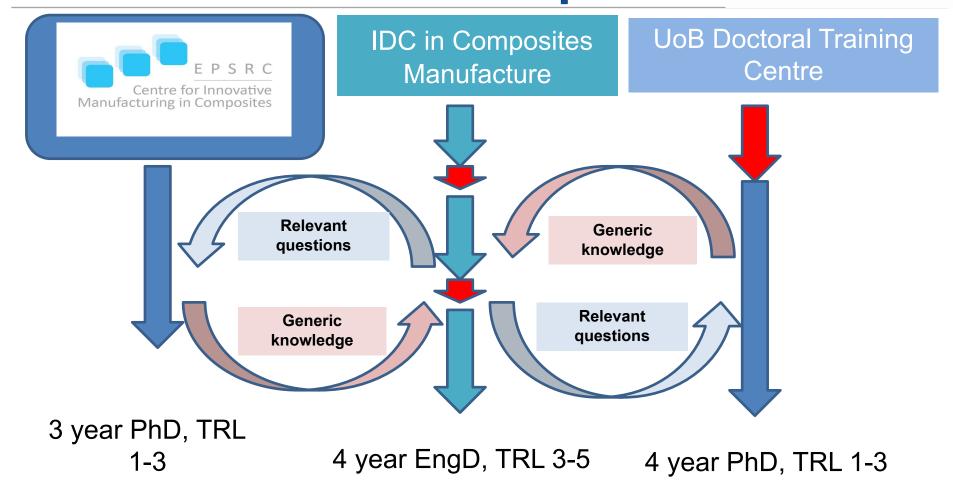






# NCC, ACCIS & **CIMComp**







Key:



taught component;



lab based project;





company based manufacturing project



EPSRC HVMC
Fellowship Centre

















### The future of the centre

- Translational research centre enabling effective progression from TRL1-3 research into TRL4-6
- Nationally orientated and internationally competitive
- A unique research environment with the knowledge transfer between academia and industry









# Thank you

# For more information visit hvm.catapult.org.uk