

The MTC Innovation Hub UK

- HVM Catapult
- MTC model
- MTC innovation ecosystem



Harald Egner Porto, 18th September 2017



High Value Manufacturing Catapult (HVMC) history



Ingenious Britain
Making the UK the leading
high tech exporter in Europe
A report by James Dyson
March 2010

The Current and Future Role of Technology and Innovation Centres in the UK

A Report by Dr. Hermann Hauser

For Lord Mandelson

Secretary of State
Department for Business Innovation & Skills

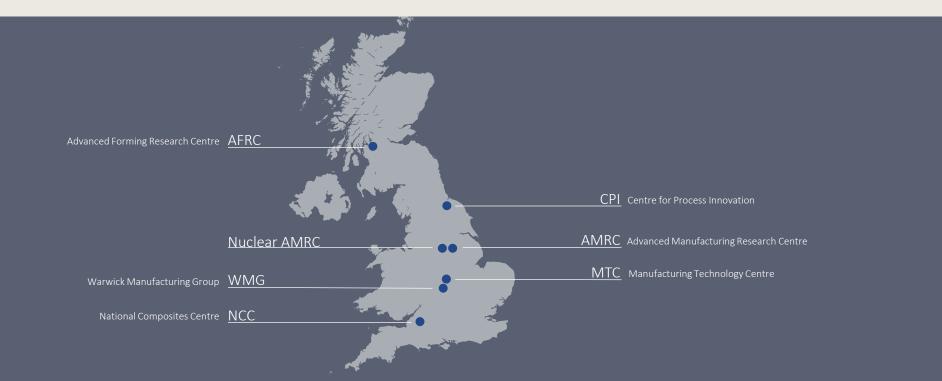


HVM Catapult

- 7 World class centres of industrial innovation (£380m assets)
- Cutting-edge equipment for industrial scale up
- Lowering risk for business
- Platform for skills development at all levels
- Cross sector capability
- Supply chain partnership
- "Critical mass"

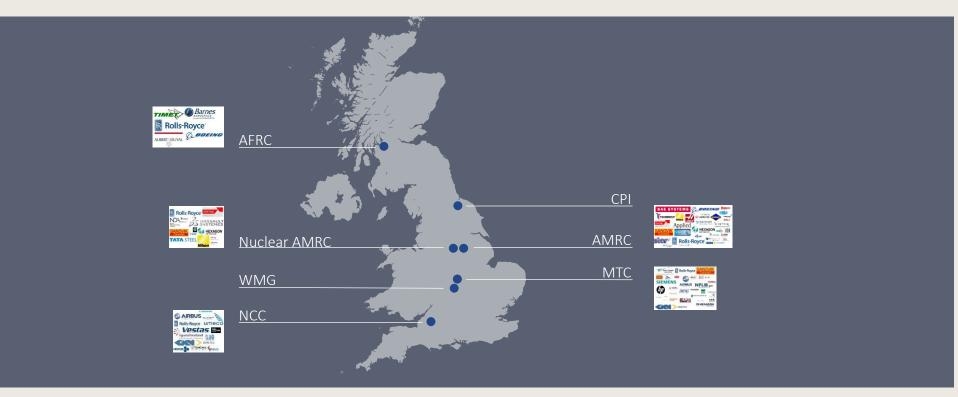
HVM Catapult centres





Five centres with industrial membership model





Economic impact



Core funding received to date
£107m

Collaborative R&D Funding levered
£290m

Net benefits for the UK economy
£1.6bn

Potential net benefits by 2020
£6.1bn

f15

net benefits to the UK economy from every
f1

core public funding received

WORKING WITH MTC

- Open access centre
- Flexible approach to working with companies of all sizes from SMEs to Tier 1s and large OEMs
- A collaborative research programme driven by members

to single client project

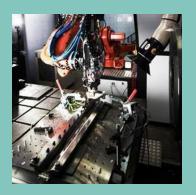


Government backed collaborative R&D projects

100+
member companies

Collaborative R&D project portfolio funded by members







MTC MEMBERS

TIER 1

Access to research outputs across all themes Programme board seat (with voting rights)

TAB board seat (with voting rights)

TIER 2

Access to research outputs across all themes

Programme board seat (with no voting rights)

TAB board seat (with voting rights)













SIEMENS































KUKA



















MTC MEMBERS

TIER 3

1 year commitment
No cash outlay required
Opportunity to engage with
major OEMs and Tier 1's

































































































































CORE RESEARCH PROGRAMME

Core Research Programme with shared results

Supported with additional Government contribution to generate collaborative R&D funding pot

Foreground IP owned by the MTC and licensed back to members royalty free



Directed research

Project commissioned by members either on a 1-to-1 basis with MTC or involving other members

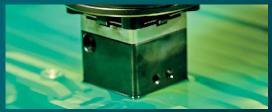


MANUFACTURING INNOVATION

Component Manufacturing



Additive Manufacturing



Non-Conventional Machining



High Integrity Fabrication

Assembly Systems

Data Systems



Advanced Tooling and Fixturing



Electronics Manufacturing



Robotics and Autonomous Systems



Design and Simulation



Manufacturing Informatics



Metrology and NDT

Industrial scale equipment for Industrial scale-up





Large scale gantry system

➤ 18m x 7m working envelope





20KW Laser Processing Cell





LLOYDS Advanced Manufacturing Training Centre

MTC have been awarded £18.19m capital funding to establish the MTC Advanced Manufacturing Training Centre

Financial sponsorship from LLOYDS Bank for next 10 years

The Centre will deliver a range of innovation training elements

- Manufacturing Engineering Apprenticeships (SME access opportunity in year 3 and 4)
- Up-skilling of Manufacturing Engineers (internal, external)
- Graduate development



Supported by

- Training equipment via Industrial members (technology providers)
- MTC technical infrastructure (equipment, trainer)
- Expertise via Industrial members

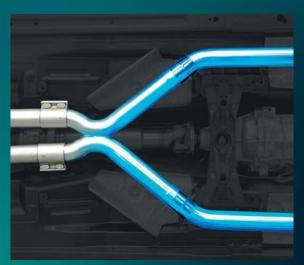




MANUFACTURING OPERATIONAL EFFICIENCY



Improving operational efficiency

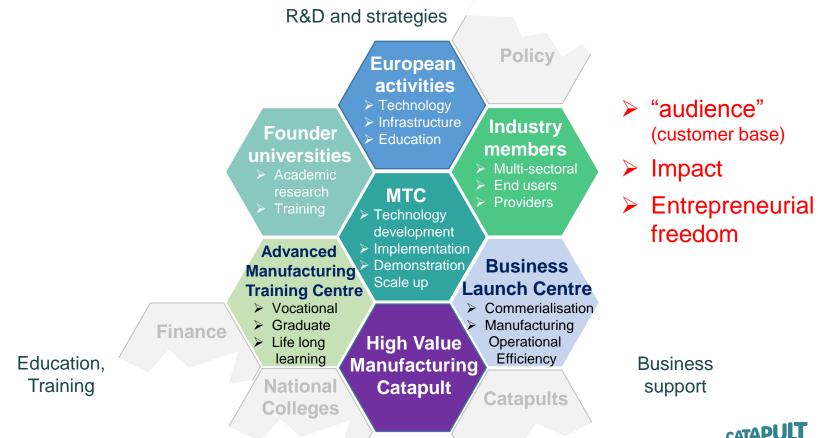


Launching new businesses



SME REACH programme

MTC Innovation Ecosystem







THANK YOU

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