

MTC Digital Innovation Hub

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Digital Manufacturing

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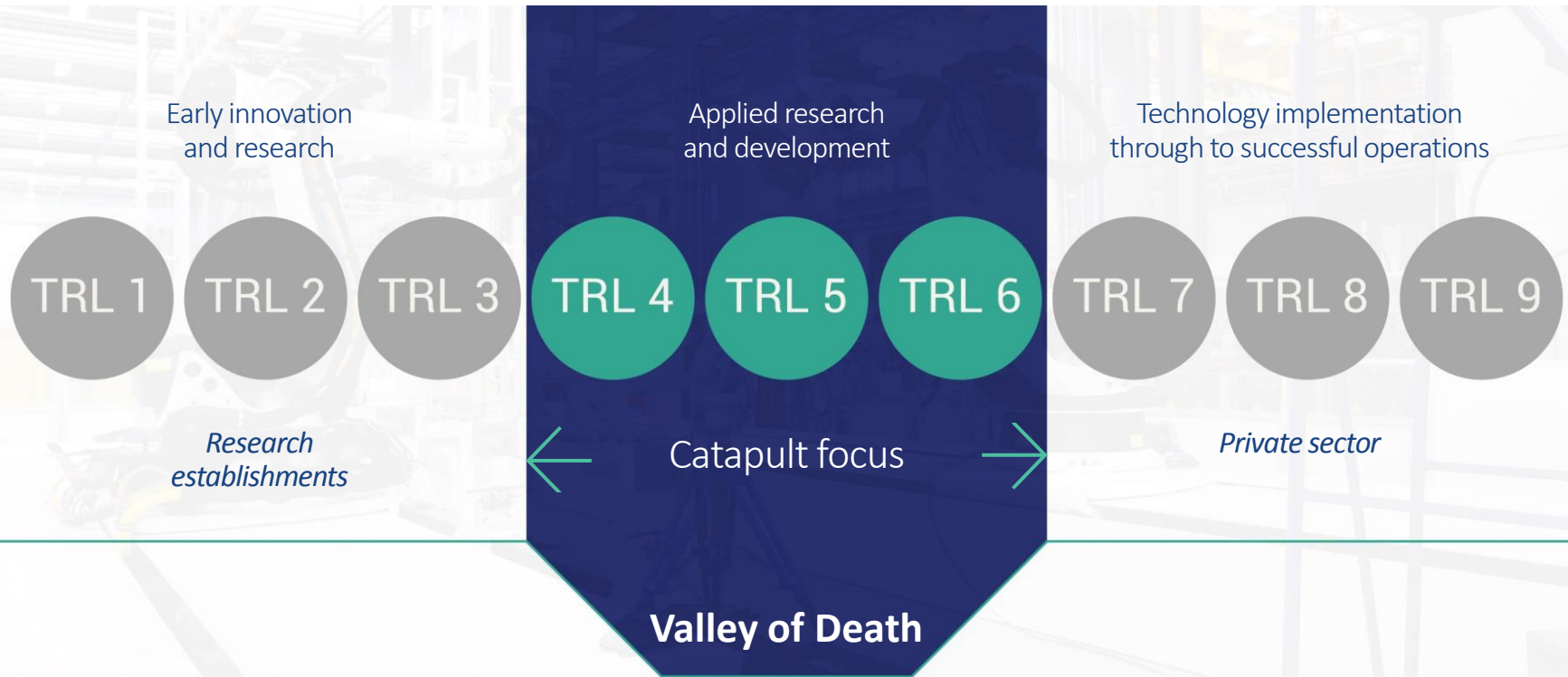
High Value Manufacturing Catapult (HVMC) history



HVM Catapult

- 7 World class centres of industrial innovation
- Cutting-edge equipment for industrial scale up
- Lowering risk for business
- Platform for skills development at all levels
- Cross sector capability
- Supply chain partnership

Market failure: Bridging the Valley of Death



MANUFACTURING SYSTEM SOLUTIONS

ADVANCED PRODUCTION SYSTEMS

COMPONENT MANUFACTURING SYSTEMS

DIGITAL ENGINEERING

Special Purpose Machines & Equipment

Electronics Manufacturing

Net Shape

Additive Manufacturing

Design & Simulation

Metrology & NDT

Assembly systems

Advanced Material Processing

Powder Management

Operational Efficiency

Intelligent Automation & Informatics

Investment

The funding model

An asset base of **£380m**

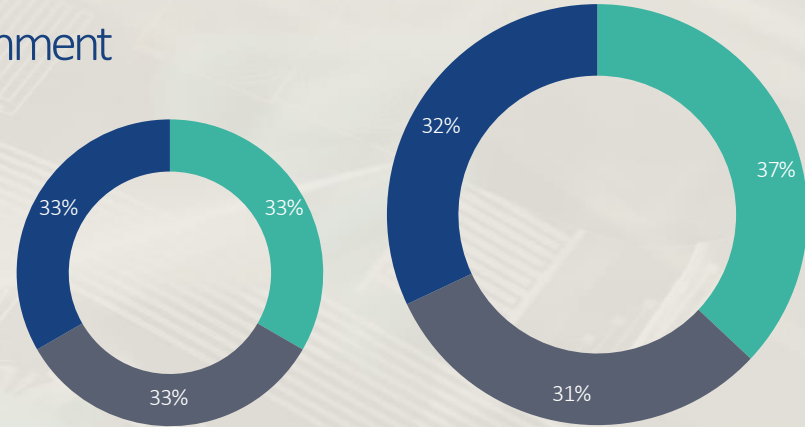
Initial investment of **£140m** by government

+Annual core funding

Core public funding

Commercial

Competitively won CR&D



HVMC result 2015/2016

INVESTMENT

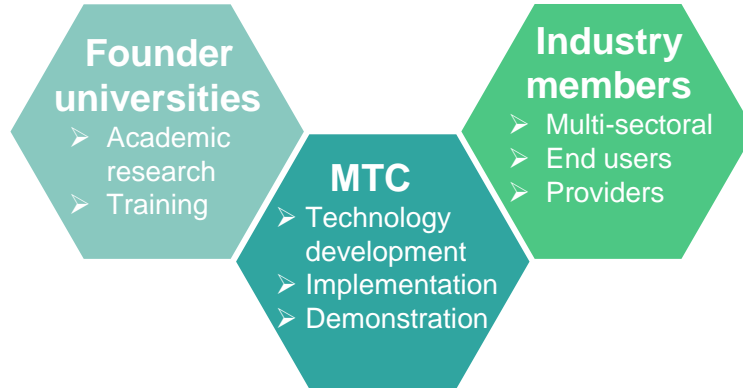


£40m
of initial investment

- ▶ Aerospace Research centre and National Additive Centre
£15.2m + match funding from industry
- ▶ Lloyds Advanced Manufacturing Training Centre
£18m + £5m from Lloyds Bank
- ▶ Factory in a Box for a Thermal Energy Research Accelerator
£10m + match funding from industry

Ecosystem (Networks)

MTC Innovation Ecosystem



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)



MTC MEMBERS

TIER 3

1 year commitment

No cash outlay required

Opportunity to engage with major OEMs and Tier 1's

GÜDEL

CAD TO METAL
Arcam AB

Prodtex

ABB



ROEMHELD
HELM + STARK

gom

BOC
A Member of the Linde Group

Theorem
Solutions

BROWN & HOLMES / Tamworth / LTD
Precision Workholding and Machining

WITTE

Mahr

eurolacer



Precision in Aerial Support

Aerotech
design consultants

HumiSeal[®]

Holovis

Jemtech
Inspiring solutions

SGS
Solid Surface Tools

Ubisense

3D scannersuk

CGTech
VERICUT

ZESTRON
High Precision Coating

METROSAGE

NATIONAL
INSTRUMENTS

VFE
VACUUM FURNACE
ENGINEERING LTD

Höganäs



DEK

Building Success
Layer by Layer

PRODUCTIV
DRIVING GREEN TECHNOLOGIES

LANNER

FlexProp
Thermoplast & Composites

iBASEt

HAUCK
HEAT TREATMENT



alicon

edgcam

CROWN
Brand-Building Packaging™

STEMMER[®]
IMAGING

Sainsbury's

Rexroth
Bosch Group
The Drive & Control Company

fairfield

BECKHOFF

Unilever

greencore
group

capvidia

BLUNDELL
SPECIALISED MANUFACTURING

HEALTH & SAFETY
LABORATORY

Makita

Accelornix

TEK Europe

babcock
trusted to deliver™

ZEISS

ALTUS
GROUP

KOTEM

FORTERRA

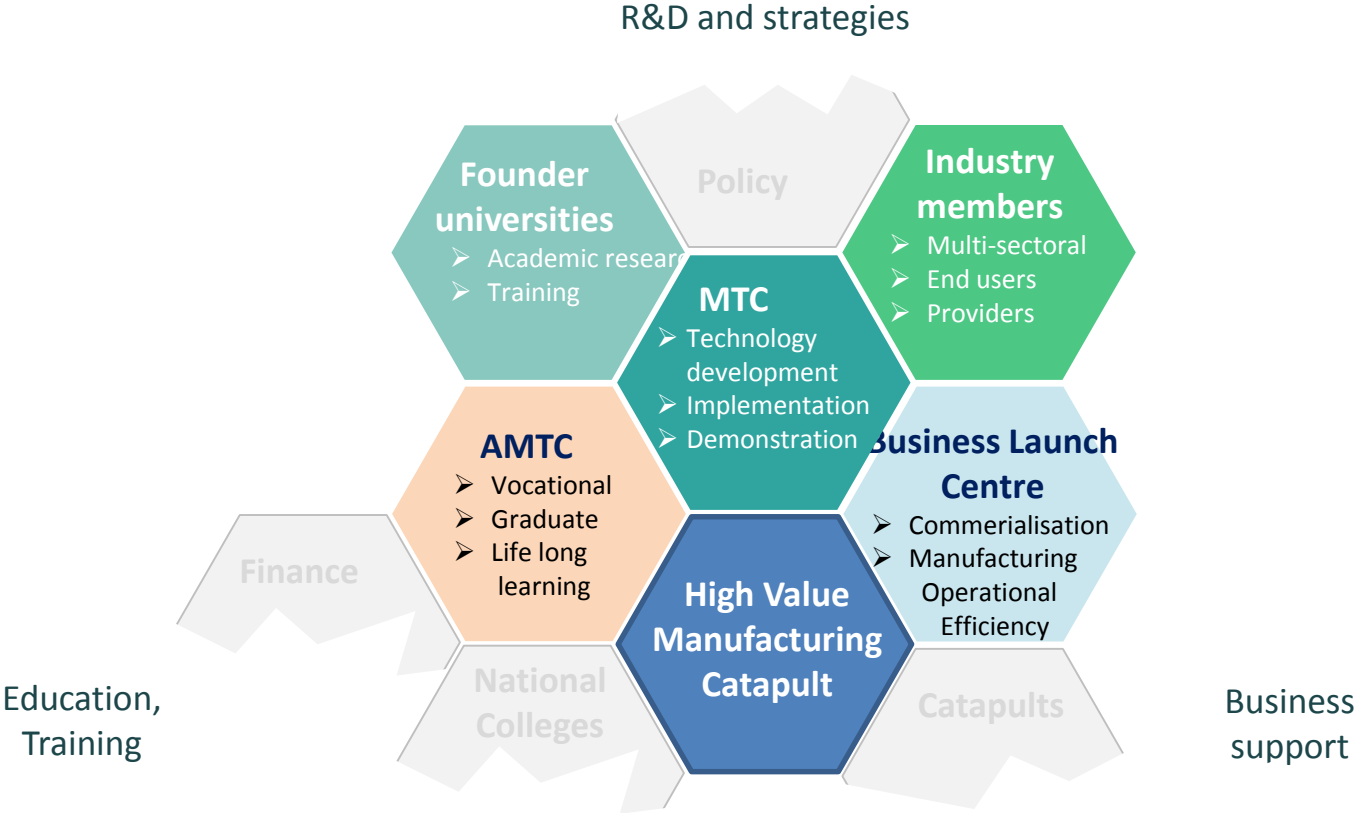
virtō

Altair

LPI

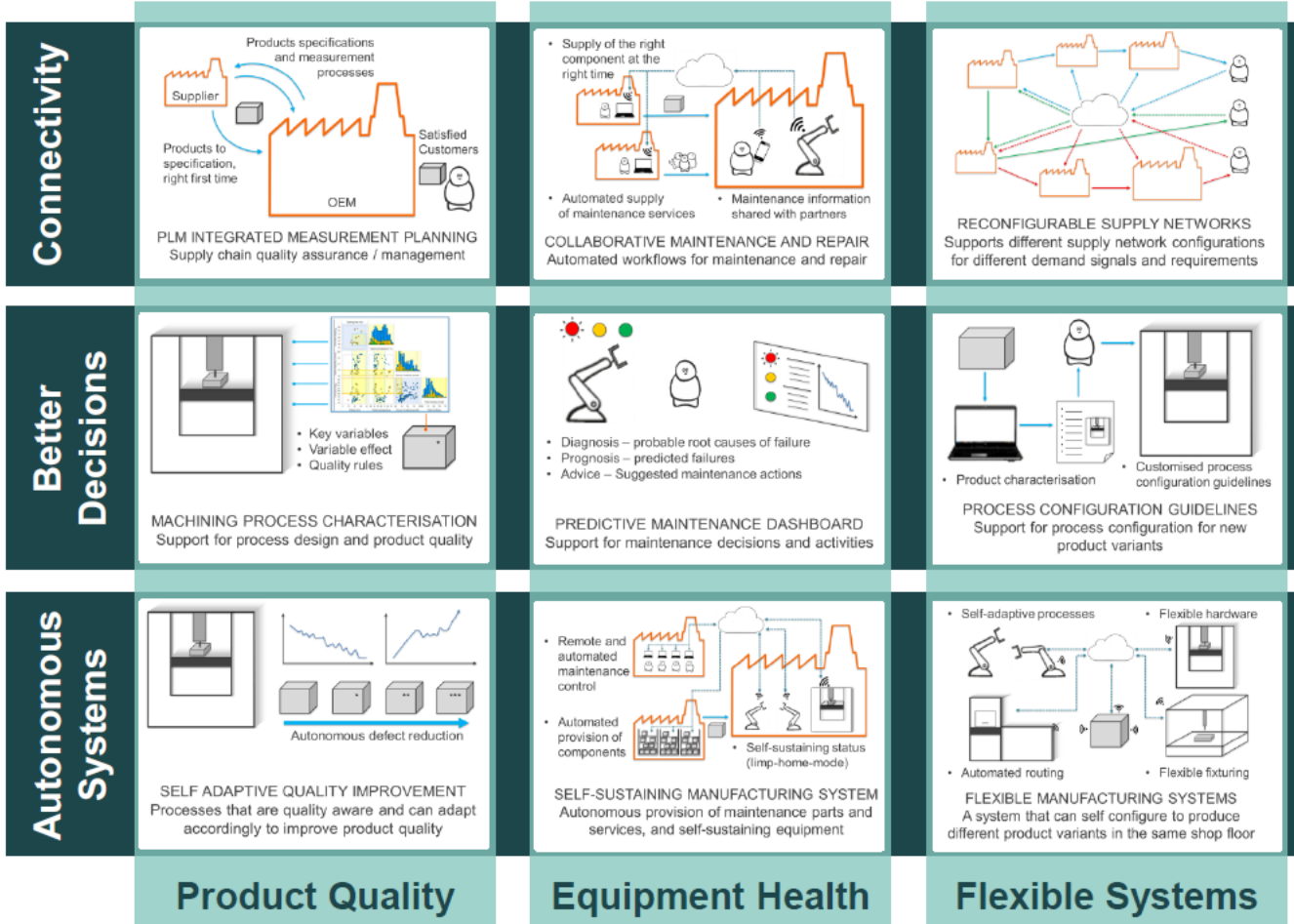
MAHER

MTC Innovation Ecosystem

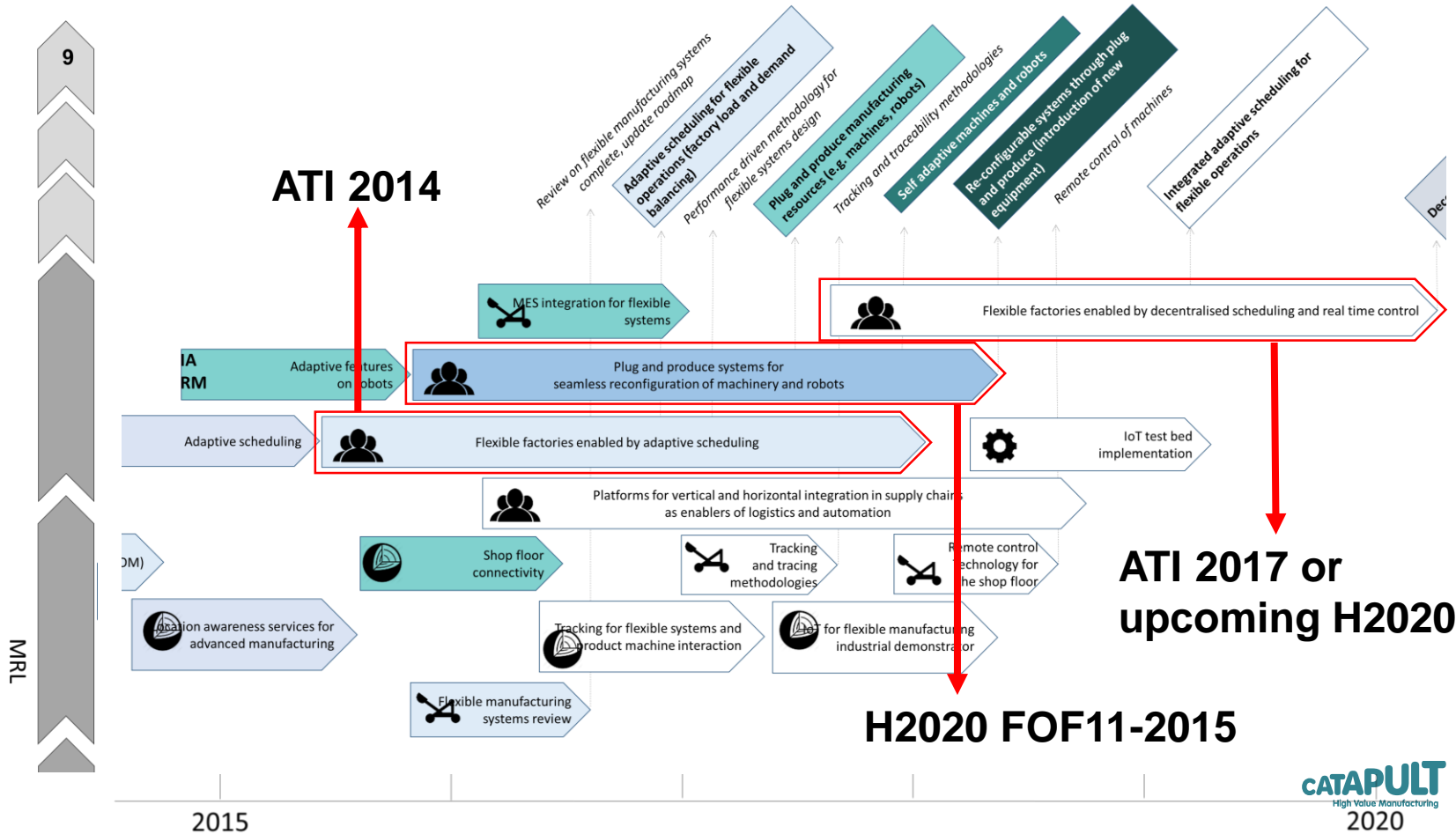


End-User Driven

MTC End-User Driven Digital Manufacturing Strategy



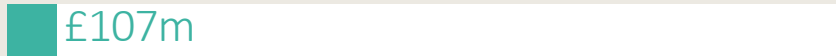
STRATEGIC USE OF PUBLIC FUNDING



Impact

Economic impact

Core funding received to date



Collaborative R&D Funding levered



Net benefits for the UK economy



Potential net benefits by 2020



£15

net benefits to the UK
economy from every

£1

core public
funding received

THANK YOU

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