



mtc

Manufacturing
Technology Centre

INSPIRING

Great British Manufacturing

BACKGROUND

- ▶ Opened in 2011
- ▶ Independent RTO
- ▶ To bridge the valley of death
- ▶ Prove innovative manufacturing ideas
- ▶ Manufacturing system solutions
- ▶ Training

UNIVERSITY OF
BIRMINGHAM

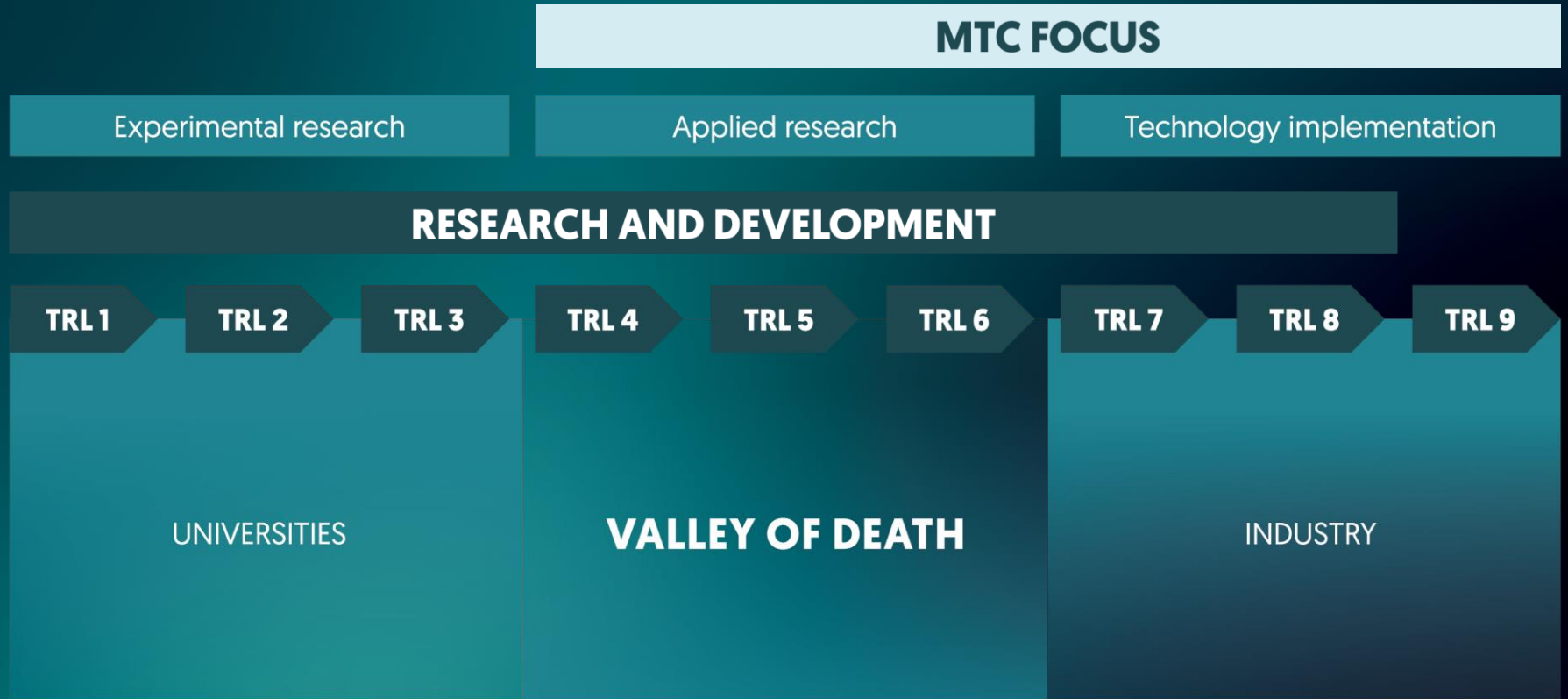
Loughborough
University

CATAPULT
High Value Manufacturing

The University of
Nottingham
UNITED KINGDOM • CHINA • MALAYSIA

TWI

BRIDGING THE VALLEY OF DEATH



WE WILL CONTINUALLY WORK TO:

1

Accelerate the UK's
industrial growth

2

Deliver innovation

3

Change the way
businesses compete

4

Create and embed
future skills

5

Maximise synergies
within supply chains

STRENGTHEN THE UK'S GLOBAL POSITION AND EXPORT POTENTIAL



Improve productivity

Invest more in R&D

Address the skills gap

Develop new market opportunities

Implement new technologies

MANUFACTURING INNOVATION

Component
Manufacturing



Additive Manufacturing



Non-Conventional Machining

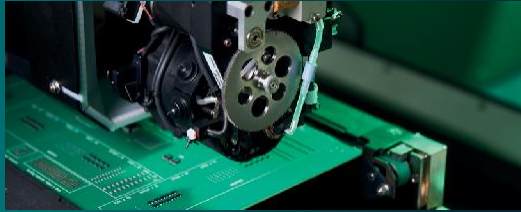


High Integrity Fabrication

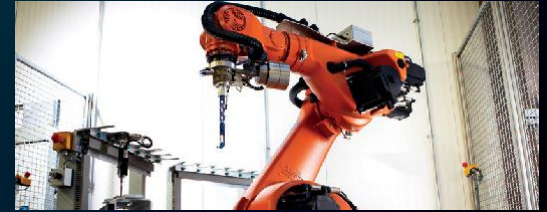
Assembly
Systems



Advanced Tooling and Fixturing



Electronics Manufacturing



Robotics and Autonomous Systems

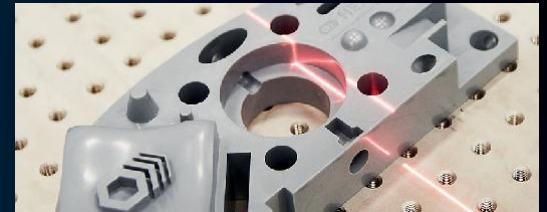
Data Systems



Design and Simulation

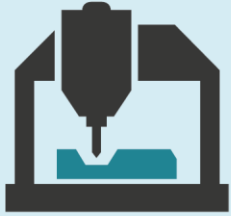


Manufacturing Informatics



Metrology and NDT

INDUSTRY CHALLENGES



You want to make something

at a lower cost
better quality
quicker
in higher volume
you've never made before



You want to assemble something to

minimise reject rate
improve reliability
improve consistency
reduce waste
reduce errors



You want to use data more effectively for

improved design
better quality
efficient logistics
new business models



WHY CONSTRUCTION?



**INFRASTRUCTURE PRODUCTION SYSTEMS
TRANSFORMING CONSTRUCTION**