Manufacturing Made Simple Innovate Local: East Midlands

Dr Becky Bolton Knowledge Transfer Manager – Advanced Manufacturing Becky.Bolton@iukbc.org.uk

13 May 2024



Agenda

15:00 – 15:15Innovate UK Business ConnectBecky Bolton, KTM for Advanced Manufacturing

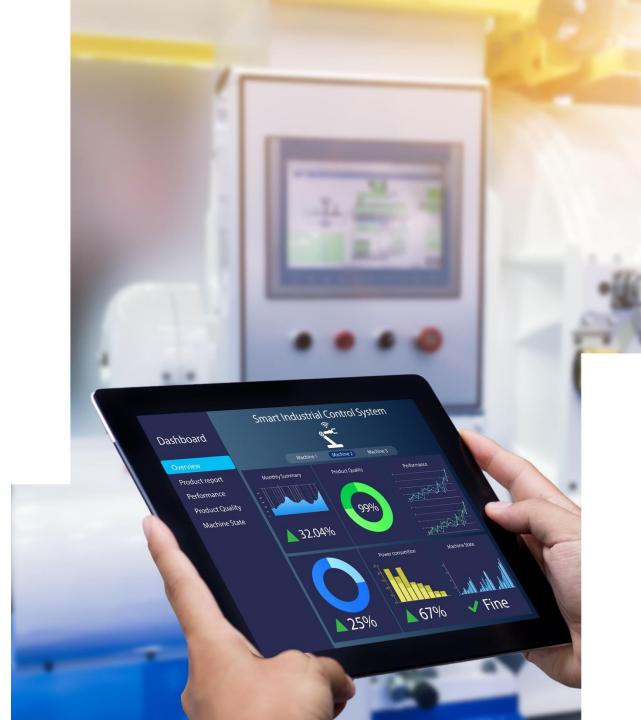
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15:15 – 15:25 DevTank *Tim Telford, CEO*

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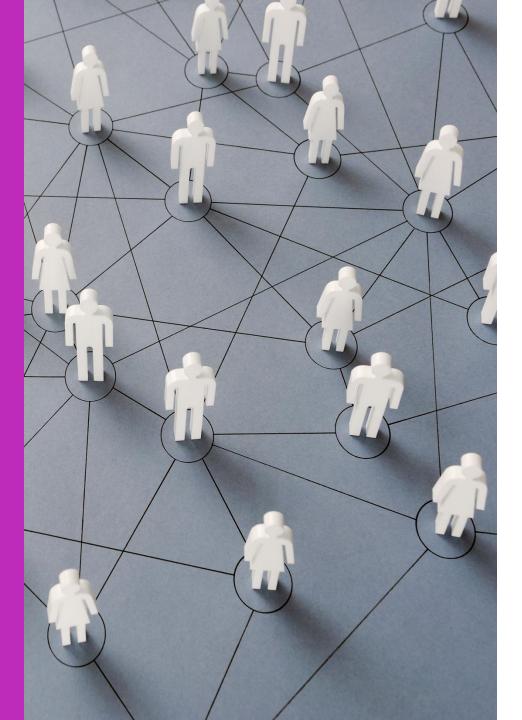




Manufacturing Innovation









Innovate UK Business Connect is the new name for Innovate UK KTN. We exist to connect innovators with new partners and new opportunities beyond their existing thinking – accelerating ambitious ideas into real-world solutions.

Cross-Sector Expertise Includes:

- Agrifood
- Biotechnology
- Chemistry
- Creative Industries
- Computing
- Design
- Digital
- Electronics

- Energy
- Geospatial
- Health
- Industrial Maths
- Infrastructure
- Manufacturing
- Materials
- Photonics

- Quantum
- Robotics & Al
- Security & Defence
- Sensors
- Space
- Transport
- Water
- (Net) Zero

UK Materials and Manufacturing Vision 2050 Now is the time to reimagine materials and manufacturing





Learn more about this significant report <u>here</u>

REforMM & SusBioMM

- Resource Efficiency for Materials & Manufacturing
 - £18.3M total project costs
 - 50 projects supported
 - £650k median turnover increase from Feasibility Studies
 - £1M median turnover increase from CR&D
- Sustainable Bio-based Materials & Manufacture
 - £18.7M total project costs
 - 60 projects supported
 - £370k median turnover increase from Feasibility Studies



Made Smarter Innovation

- £300m cross-council challenge for the development and novel application of Industrial Digital Technologies delivered:
 - 800+ organisation engaged
 - £200M+ investment from industry
 - 459 new jobs created

Innovate

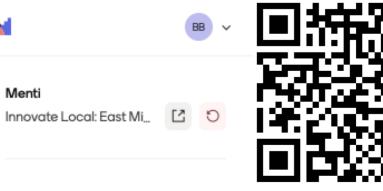
UK

- 8051 people upskilled in IDTs
- 365 new IDTs developed for manufacturers
- 601 companies using new IDTs
- JOIN US AT SMART FACTORY EXPO 2025 TO CELEBRATE!



Manufacturing Community – 25/26





Choose a slide to present

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Funding / Investment



Innovation Loans

- The Innovate UK Innovation Loans Future Economy Programme offers loan funding to UK registered micro, small and medium-sized enterprises for innovative late-stage research and development projects with strong commercial potential that will significantly boost the UK economy.
- Loans can range from £100,000 to £2million and are offered on flexible, patient terms for businesses that are beyond the early stages of development but need funding to take their innovations to the next level, helping bridge the gap between research and commercial success.
- Round 21 open now: https://apply-for-innovationfunding.service.gov.uk/competition/2188/overview/20c89a26-2479-4f80-b35a-b62ed3b9b3ce



https://iuk-business-connect.org.uk/programme/innovation-loans-future-economy/

Investor Partnerships

The Investor Partnership Programme is a unique opportunity for high-growth, innovative UK companies to access the funding they need to thrive and succeed. This programme is designed to support micro, small, and medium-sized enterprises (SMEs) that are working on cutting-edge technology in the Innovate UK Future Economy

Investor Support

Inspiring investors

Supporting the competition and connecting investors to the programme, increasing the pool of active and diverse investors Connecting investors with experts across IUK, and translating sector expertise to map the investment landscape for new technologies

Funder meets Founder

Connecting investors to SMEs seeking investment via events such as Office Hours, speed networking events and investor showcases

Investor Directory

Available on the UKRI website, a brochure containing the full list of investor partners and their contact details



https://iuk-business-connect.org.uk/programme/investor-partnerships-future-economy/

Grant Funding

 UKRI Funding Finder <u>https://www.ukri.org/opportunity/</u>



- Innovation Funding Service: <u>https://apply-for-innovation-funding.service.gov.uk/competition/search</u>
- Innovate UK Business Connect Opportunities Page <u>https://iuk-business-connect.org.uk/opportunities/</u>





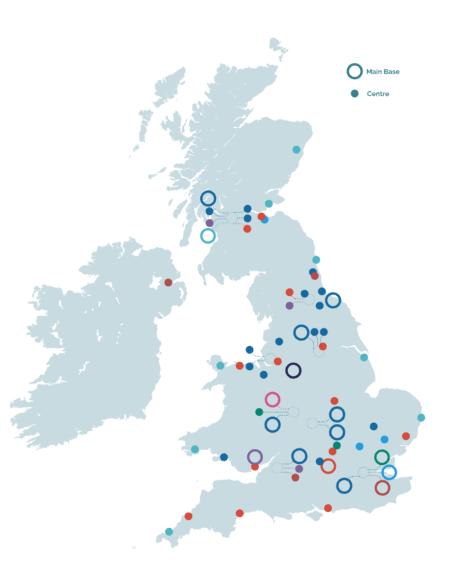
R&D Capacity





Catapult Network

- The Innovate UK Catapult Network provides a unique combination of cutting-edge R&D facilities and world-class technical expertise to support UK business innovation.
- The Catapult Network is made up of nine world-leading technology and innovation centres with more than 65 national locations.
- High Value Manufacturing Catapult (HVMC)

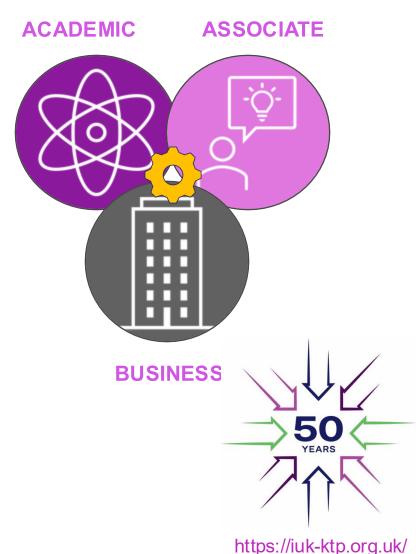




Knowledge Transfer Partnerships (KTP)

- KTP is:
- A three-way partnership that provides
- **O expertise** to innovate
- **O** funding to enable
- **O** resource to deliver transformational positive change*

*Change can be economic, societal or environmental







Partners / Collaborators





Our Network







72% Small

15% Medium

13% Large

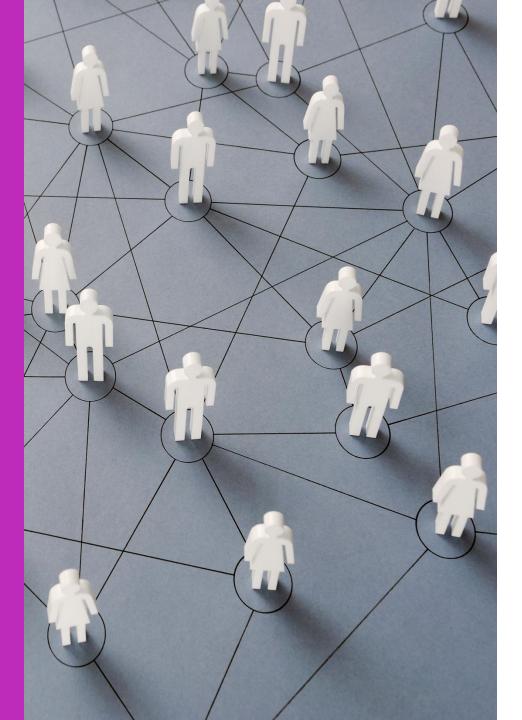


335,478 innovators



Every university in the UK







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https://iuk-business-connect.org.uk/

Innovation Exchange (iX)

- The iX programme introduces organisations with pressing challenges which cannot be solved by available products or services, to innovators across all sectors who are working on solutions.
- Consulting with the lead organisation at every stage, Innovate UK Business Connect will define the innovation challenge, publish and promote the opportunity across our vast networks, evaluate the responses according to published criteria, host a pitch day of selected responders, and support the lead organisation to partner with any chosen companies.
- iX has proven highly successful in energy, defence, health and transport and is now being expanded into other sectors, such as infrastructure, security and agri-tech
- As a result of 107 iX challenges, there has been:
 - Over 2,500 application entries
 - 480 UK companies invited to pitch days
 - 102 trials undertaken, generating £17.2m value to challenge holders
 - 30 commercial contracts, valued at £2.3m







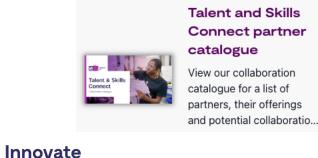
Resource





Innovate UK Talent & Skills Connect

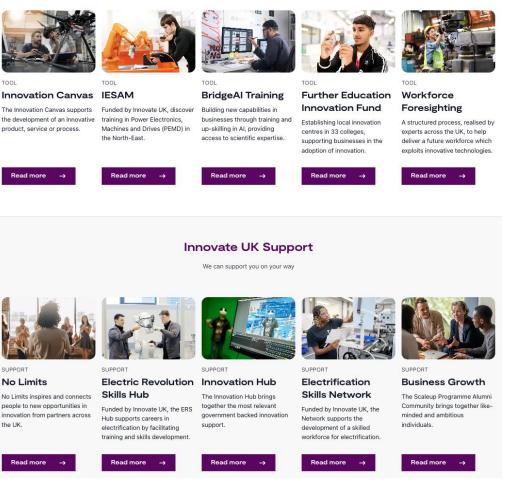
- Innovate UK Talent & Skills Connect streamlines access to a portfolio of offerings, making it simpler for both partners and businesses to tap into the resources they need to succeed
- Innovate UK's Talent & Skills Community connects businesses with resources and partners to develop innovation-ready talent. It aims to simplify access to skills support and reduce system fragmentation



UK

Innovate UK Tools

Tools to help you on your journey



https://iuk-business-connect.org.uk/talent-skills-connect/

Workforce Foresighting Hub

- Aligned with national policy, the Workforce Foresighting Hub is initiated and funded by Innovate UK, built in collaboration with the Innovate UK Catapult Network.
- Workforce foresighting is a systemic approach to identifying the organisational capabilities and workforce skills necessary to enable industry to adopt and exploit innovative technologies

Manufacturing the Future Workforce

This report publishes the findings of an international study demonstrating the benefit of "ensuring that we have the skills to take advantage of new technologies". To do this, an approach would be needed to pre-empt and avoid a national workforce capability shortfall, driven by critical innovation.

Future-proofing UK metalworking SMEs: integrating robotics and workforce development

The Manufacturing Technology Centre (MTC), in collaboration with the Workforce Foresighting Hub, an Innovate UK initiative, has released a new report, **The adoption of robot automation in metalworking SMEs**. This report presents the findings from the Workforce Foresighting cycle, focusing on developing an integrated process for adopting robot automation in metalworking SMEs. The study aims to identify the steps needed to start to prepare the workforce and enable robotics automation for future industrial growth.

https://iuk-business-connect.org.uk/programme/workforce-foresighting/



Innovate UK Growth Catalyst Pilot

 Innovate UK Growth Catalyst is an integrated package of funding and support, designed to help accelerate high-potential start-ups on their journey to becoming scale-ups and beyond. For this first pilot, we are targeting late-stage start-ups from seed to Series A.

Knowledge & Oo Expertise	Funding & finance	Connections and insights	Talent & skills (Facilities 000
Business Growth IGS 1:1 support Innovation & commercial strategy International markets & collaboration strategy Funding & finance strategy Preparing for scaling	Up to £2m project costs through Investor Partnerships • For MVP / prototype development and demonstration	 Business Connect KTMs Supply chain connections Funding opportunity identification Sector intelligence Cross sector team engagement iX challenge opportunities Business Growth initiatives Enterprise Europe Network access 	 initiatives Investment readiness Peer-to-peer learning Business Connect 	Business Growth + Catapults • Access to Catapults & RTO infrastructure & expertise for scaling process / manufacture



https://iuk-business-connect.org.uk/opportunities/innovate-uk-growth-catalyst-for-late-stage-startups/



Thank You

For more information, please get in contact:

Dr Becky Bolton Becky.Bolton@iukbc.org.uk



Innovate UK







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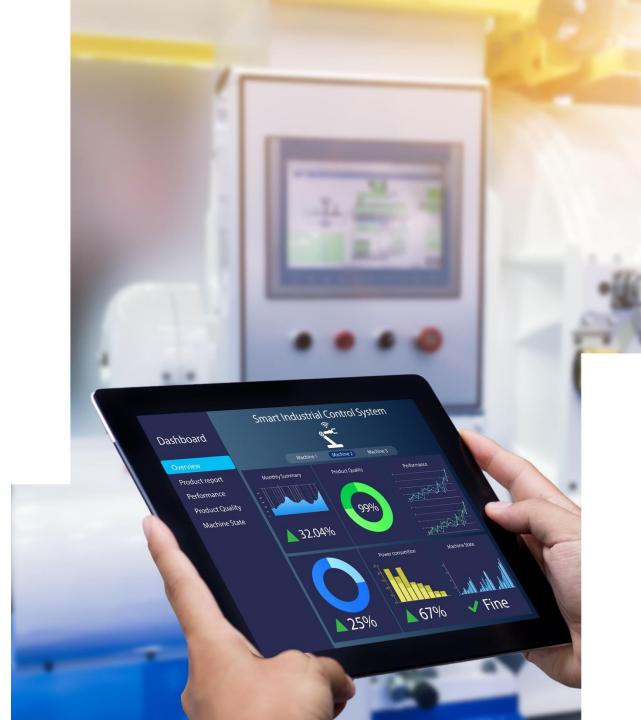
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DEVINK

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A Journey Through Innovation & Growth

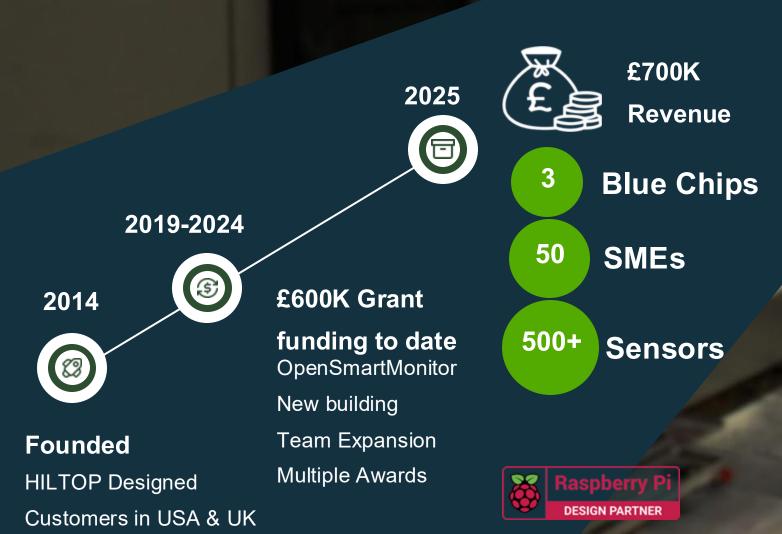
Tim Telford - CEO

Our Growth Journey....

HILTOP



onitor









SMART MANUFACTURING DATA HUB



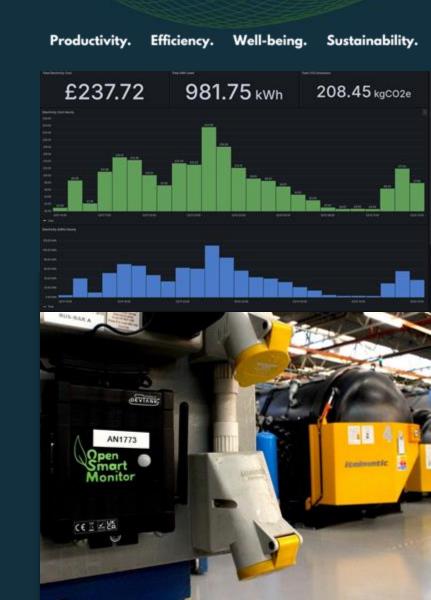


OpenSmartMonitor

Plug-and-play monitoring for businesses

- Steel/Metal Works
- Bakery / Food & Drink
- Woodwork Industry
- Composite Manufacturing
- General Manufacturing
- Warehousing
- Offices
- Schools & Hospitals

Monitor - Utilities, Machinery, and Well-being Insights - Cost, Emissions, Efficiency, and Productivity It Starts With A Sensor.





Plug & Play

Rapid to deploy

30% Anticipated customer savings

Open Source

Reducing e-waste, vendor agnostic

20% Productivity improvement



(4) 1628





HILTOP

Production and end of line product testing solutions

- PCB / Motherboard
- EV Chargers
- Automotive
- Space

Full traceability across production lines Track quality issues Modular and User-friendly platform



Partner for Future Technology









Support & Funding

- Grants IUK / ERDF
- Workshops ENSCITE \bullet
- Mentoring D2N2 \bullet
- Marketing (Business Network Magazine) \bullet
- Accountancy and Business \bullet
- **Recruitment Local Universities & Training Providers** \bullet
- Conferences and Exhibitions
- Networking EMC, EMMN, Marketing Derby ullet
- **Business Consultancy ASCEND**

Keeping us in touch with funding opportunities in Derbyshire and the UK.

east midlands

Derbyshire Leicestershire Nottinghamshire

GREE PROMOTION FOR CH

Eden PR has prompted Charlie Peters to the position of se and digital account executive following a positive year of growth. An experienced content creator and podcaster, Charlie has taken or nore responsibility for strategy, paid social media campaigns and odcast delivery

Since joining the Nottingham-based PR, social media and marketin gency in 2023, he has demonstrated a strong command of skills cross the social and digital sectors, with a passion for podcast roduction, video and graphic design. He has overseen social media chedules for clients on all major platforms

Emily Winsor-Russell, director and head of new business at Eder said: "We're so proud of Charlie's development since he joined us and it has been a pleasure to see his craft flourish as each month goes by

MARTIN MAKES SMART SWITCH TO DEVTANK



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ntor,

Devtank - which is at the forefront of developing test and measurement tools and smart monitoring devices - has brought

in Martin Rigley (pictured) as its chief commercial officer. Martin has been working with the team throughout 2024 as

usiness development manage and has been a driving force for its Smart Manufacturing Data Hub (SMDH) Lighthouse Project. Chief executive Tim Telford said 'Martin has been a long-time friend of Devtank and our team, working alongside him and his previous business Lindhurst Engineering. "His requirements as a business

owner led us to collaborate into designing and manufacturing our sensor products, monitoring his electricity cost and usage, as well as environmental health

"His passion for this technology paired with his mountain of industry knowledge and skills makes him the perfect person for this role at Devtank."

<u>Grants</u>

We have been successful in being awarded grant funding and partnering on major UK funded projects

- V2X Project (Indra Renewable)
- De-Carbonise Project (Derby University)
- Lighthouse Project (Made Smarter / SMDH)
- Ascend Funding
- D2N2 Employment Funding (Martin Rigley)
- Enscite Workshops (Sunil Vara)
- KEI Employment Funding (Harry Geyer Software Dev)
- Horizon Europe EU Trade Funding (INTEC Event Leipzig)





European Union European Regional Development Fund





Apprenticeships

A key part of our growth has been supporting apprentices within the company

- 2019 Derby University (Cameron Browne Ops Manager) \bullet Business Awards Apprentice of the Year 2022 The Manufacturer Top100 Alumni 2023
- 2022 Baltic Apprenticeships (Marcus Holder Software Dev) \bullet ESSD Apprentice of the Year Finalist 2023
- 2022 EMA Training (Anthony Yeomans Marketing Champion) \bullet The Manufacturer Top100 Alumni 2022
- 2023 Derby College (Dan Sayles Electronics Technician Apprentice) \bullet













<u>Business Awards</u>

The annual business awards displays the achievements and innovations made within the region.

East Midlands Chamber

- 2022 Excellence in Innovation
- 3x Finalist Environmental Impact
- 2x Finalist Improvement Through Technology

OpenUK

- 2021 OpenUK Hardware
- 2023 OpenUK Sustainability

Make UK

• 2024/2023 Finalist - Energy & Sustainability

ESSD Business Awards

• Manufacturer of the Year finalist x2







Fund raising: £450K to Rapidly Scale

30%

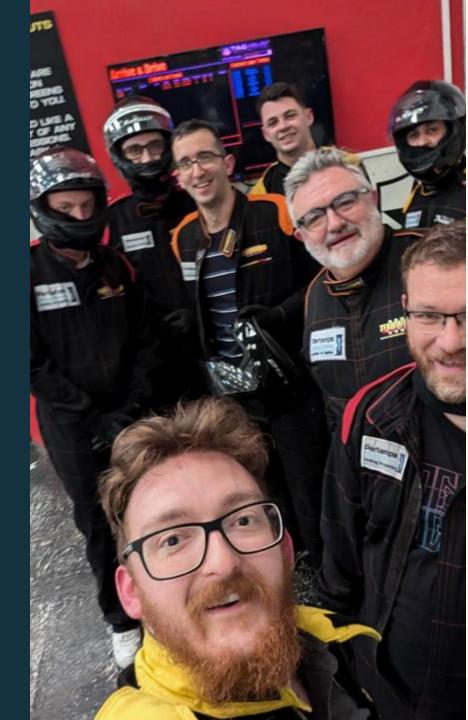
Product development

45%

Hiring Key Staff S/W, H/W, Sales & Marketing **15%** Sales & Marketing

10%

New Premises



opensmartmonitor.co.uk devtank.co.uk



Thank you for listening! Tim Telford

<u>tim.telford@devtank.co.uk</u>

sales@devtank.co.uk

+44 (0)1332 650944

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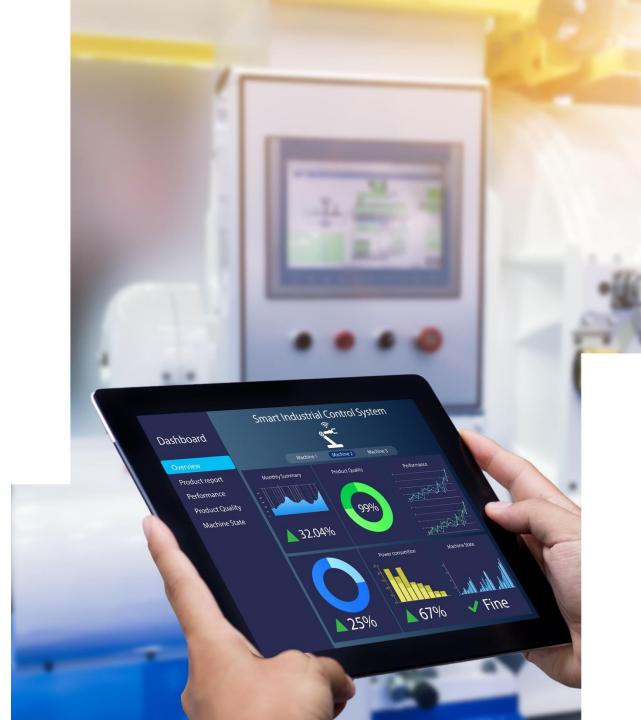
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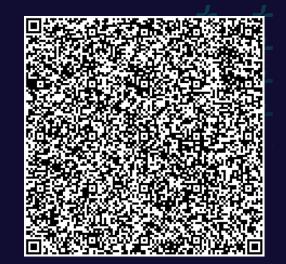
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Innovate Local East Midlands May 2025

Steve Morris MBA

Director,

Start-Ups & SMEs

Programmes, Supply Chain & Partnerships

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SME SUPPORT – ALL VERTICALS





Aerospace



Defence & Security



Construction



Space



Automotive











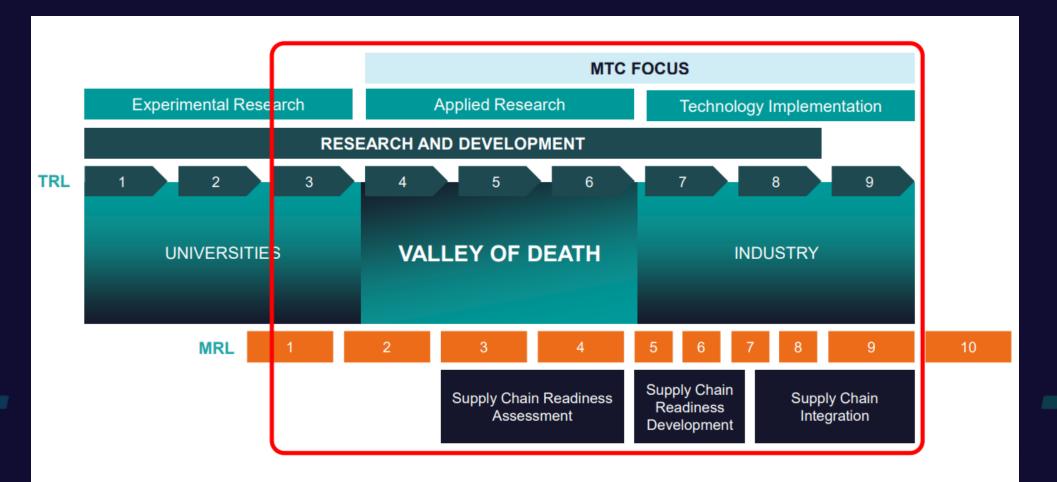
Healthcare

Power & Energy

Electronics

MTC FOCUS: TRL MRL SCR





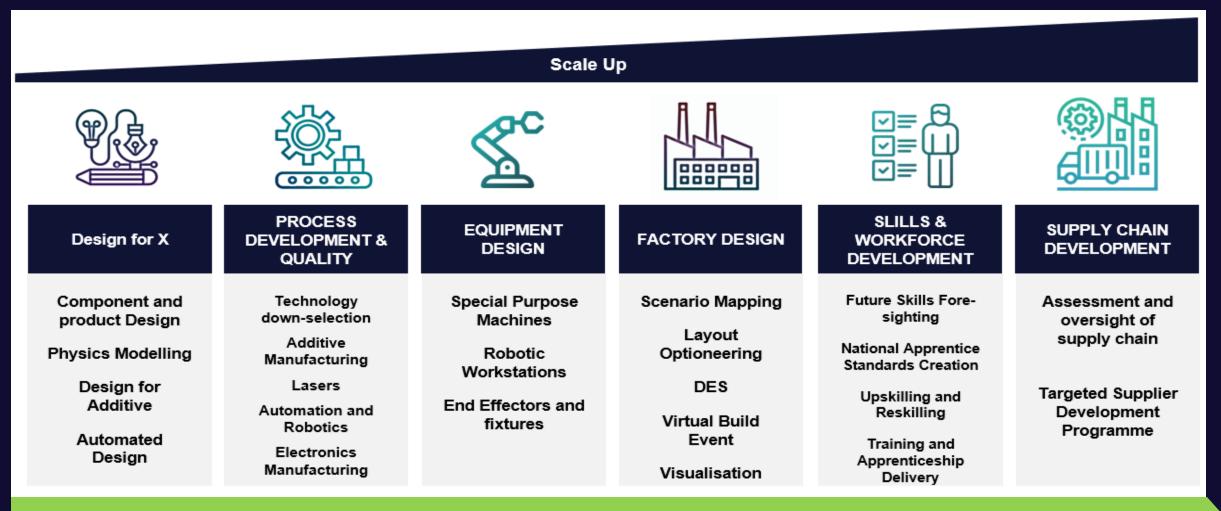
WHAT ARE WE FAMOUS FOR?





MTC SCALE UP CAPABILITIES





SUSTAINABLE MANUFACTURING

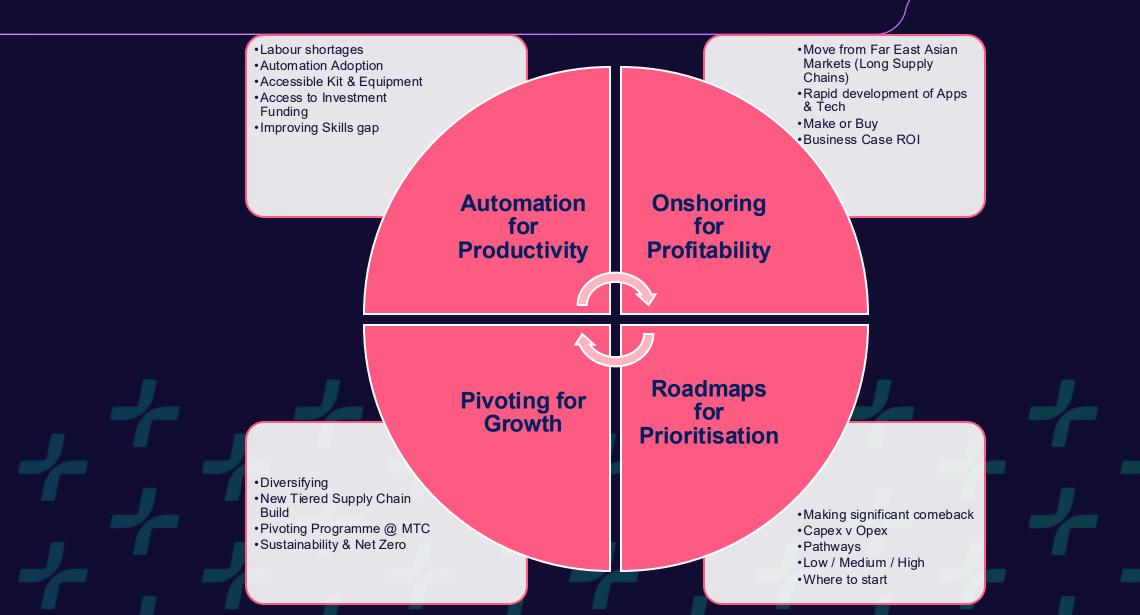
FUNDING LANDSCAPE





4 KEY THEMES

mtc



MTC – Private – Commercial in Confidence



Thank you

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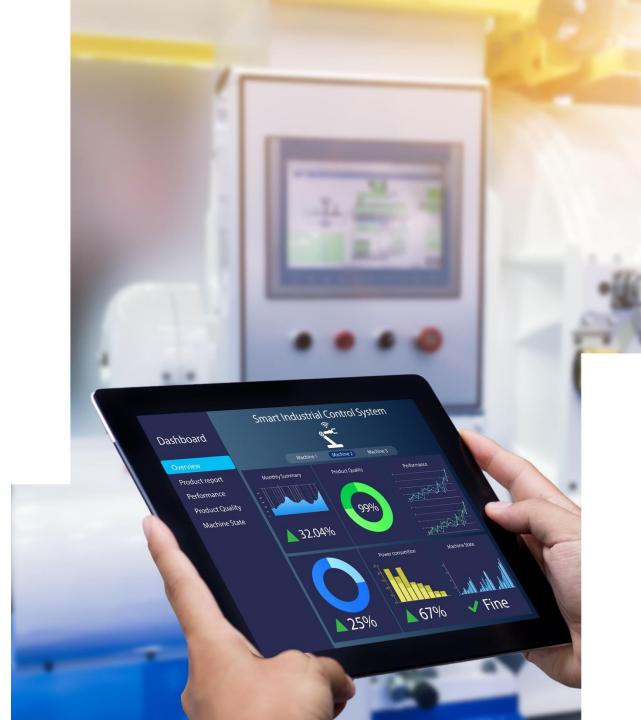
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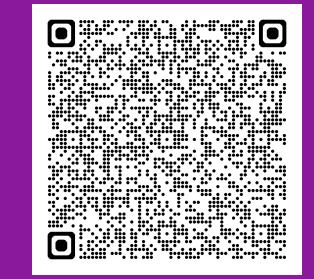
Q&A + Key Messages

Becky Bolton Becky.Bolton@iukbc.org.uk Tim Telford Tim.Telford@devtank.co.uk **Steve Morris** Steve.Morris@the-mtc.org



We want to hear from you.

Share your thoughts on digital and AI for manufacturing with our follow-up survey.







Delivered by Innovate UK, EPSRC and ESRC