WELCOME TO

DIGITAL MANUFACTURING ACCELERATOR
CALLING FOR PHARMACEUTICAL PACKAGING STAKEHOLDERS
The Digital Manufacturing Accelerator (DMA) project is currently seeking pharmaceutical packaging companies and suppliers that can help shape and benefit from this initiative.

The project seeks to create a technology demonstrator for pharmaceutical packaging, utilising smart, digital and highly flexible manufacturing technologies.

CTOs, Production Directors, Commercial Directors and Facility Managers are invited to help the MTC in delivering viable, data driven solutions that can add real value for them and their supply chain.

Access Latest Technologies
Explore smart manufacturing solutions through the DMA to de-risk investment and accelerate exploitation of new technology.

Build Industrial Relationships
Build commercial and regional relationships with the MTC and the Liverpool City Region to access new business opportunities and supply chain development programmes.

Explore Funding Opportunities
The programme offers support and guidance on the latest funding mechanisms available for organisations willing to access public funded R&D.
The Digital Manufacturing Accelerator (DMA) is an initiative that was launched in 2018, in partnership with the Liverpool City Region Combined Authority, and brings world leading manufacturing research, technology and experts together.

Embarking on a ten year mission, the £15 million funded programme aims to accelerate the implementation of innovative physical and digital manufacturing technologies into UK manufacturing and supply chains.

Based in the heart of Liverpool, the project will build a state-of-the-art ‘reconfigurable factory environment’ and a ‘digital factory environment’ across two linked sites.

**WHAT IS THE DIGITAL MANUFACTURING ACCELERATOR?**

In partnership with:

- **Reconfigurable Factory Environment**
  - Rapid reconfigurable and modular
  - Facilitate small batch production
  - Smart Factory applications
  - FMCG and Pharma oriented
  - Delivered by supply chain

- **Digital Factory Environment**
  - Flexible and scalable
  - Deliver new industrial digital infrastructure
  - Digital Factory applications
  - Sector agnostic
  - Delivered by supply chain
EXPLORING THE VALUE AND BENEFITS

Access new market opportunities
Accelerate deployment of new business models
Pioneer innovation to achieve competitive advantage
Reduce commercialisation timescales of new products and services

Easier access to Liverpool City Region’s digital manufacturing capabilities
Develop and embed digital skills and expertise
Strengthen and develop your supply chain
Increase quality, productivity and performance
‘Rapid Adaptable Packaging’ (end to end) for a greater variety of short lead time products, on-time delivery, packed efficiently, securely and with full traceability.

We currently have 6 highly flexible, blister packaging concepts aligned to the following demand challenge that we’d like to review and ‘down select’ with industry stakeholders.

**PACKAGING USE CASE CHALLENGE**

- **15 Minutes, Run and Changeover Cycles**
  - Small batch sizes with rapid changeover

- **Multiple Product Variants**
  - Flexible sizing and multiple formats

The disruptive ‘Smart Packaging’ demonstrator will be enabled by ‘Industrial Digital Technologies’ including:

- Hyper agility, very small order sizes, order(s) of magnitude lower than current production.
- High complexity of product portfolio at primary and secondary packaging.
- Throughput rates for attractive commercial capacity.
- Greater packaging robustness and process capability, zero waste & defects.
- Significantly increased packaging productivity for competitive packaging cost per unit changes.
The DMA is being led by the Manufacturing Technology Centre (MTC) through its localised facility at the Liverpool Science Park.

The MTC is established to prove innovative manufacturing processes and technologies in an agile environment in partnership with industry, academia and other institutions. The MTC houses some of the most advanced manufacturing equipment in the world, creating a high quality environment for the development and demonstration of new technologies on an industrial scale. This provides a unique opportunity for manufacturers to develop new and innovative processes and technologies.

The MTC is part of the High Value Manufacturing Catapult (HVMC), which is sponsored by Innovate UK.
INTERESTED IN FINDING OUT MORE?

Stakeholders Can Become Involved To

► Provide a ‘steer’ that can yield and disseminate technology benefit for them
► Influence the technology strategy and development of the DMA to be aligned to their needs
► Participate with the MTC in future grant funded opportunities to address further challenges

Whether you’re a business looking to explore the possibilities of future manufacturing technologies, or a supply chain looking to get involved with your products, services or expertise, we’d love to hear from you.

Learn more about the project by visiting our website: [www.the-mtc.org/dma](http://www.the-mtc.org/dma)

Questions or interested in participating?
Email us at: [dma@the-mtc.org](mailto:dma@the-mtc.org)