

# Welcome to the Additive Manufacturing Centre of Excellence

Prof Arun Arjunan



# History



## Early adopter of AM

yr. 1999

yr. 2004

yr. 2011

Catapult: High value manufacturing MTC

yr. 2015

yr. 2017 - 2022

yr. 2023

yr. 2024

Installation of the UK's first L-PBF metal AM M250

Development of the first L-PBF titanium printing

Gold and silver development

Conductive alloys Cu, Ag, CuAg

Carbon-negative AM material development diamond

Direct multi-material electrical and thermoelectric device manufacture

~10 years  
PhD completions  
numerous publications  
First fully dense copper print

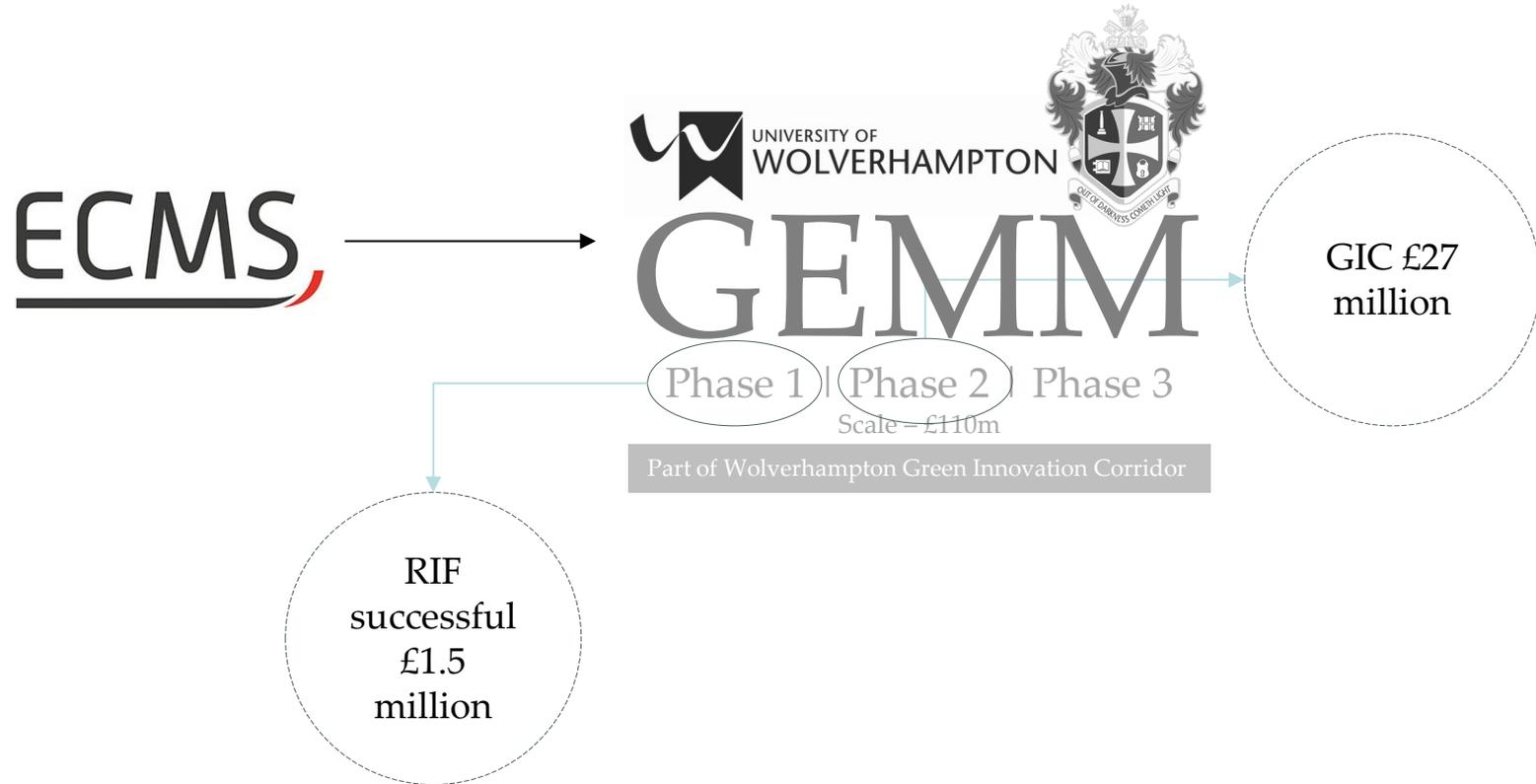
The UK's first beam forming nLight AM machine to be installed at ECMS

# Elite Centre for Manufacturing Skills

- £11m grant from local growth fund (LEP) ending May 2025
- Upskilling UK's high value manufacturing sector with any industry or sector, nationally.
- Address skills gap in the manufacturing sector



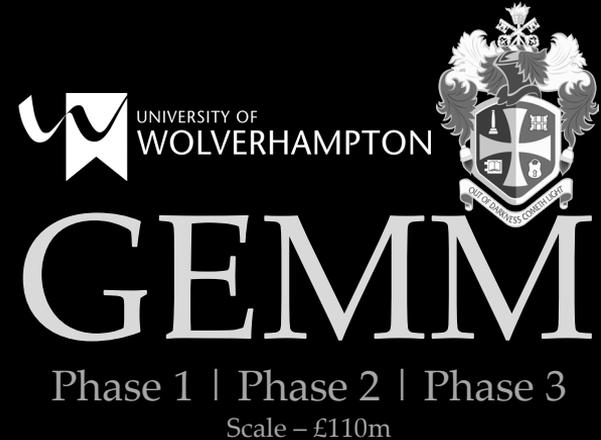
# ECMS to GEMM Transition



1. A strategic platform leveraging business-led research to create **Wolverhampton** as the global net zero leader in electric materials and manufacturing.

2. To act as a **blueprint for levelling up** through innovation, with the capacity and capability to pilot an approach that can be replicated across the U.K.

3. Uniting Wolverhampton's business, scientific, and government sectors to foster **investable priorities** in electric materials and manufacturing.

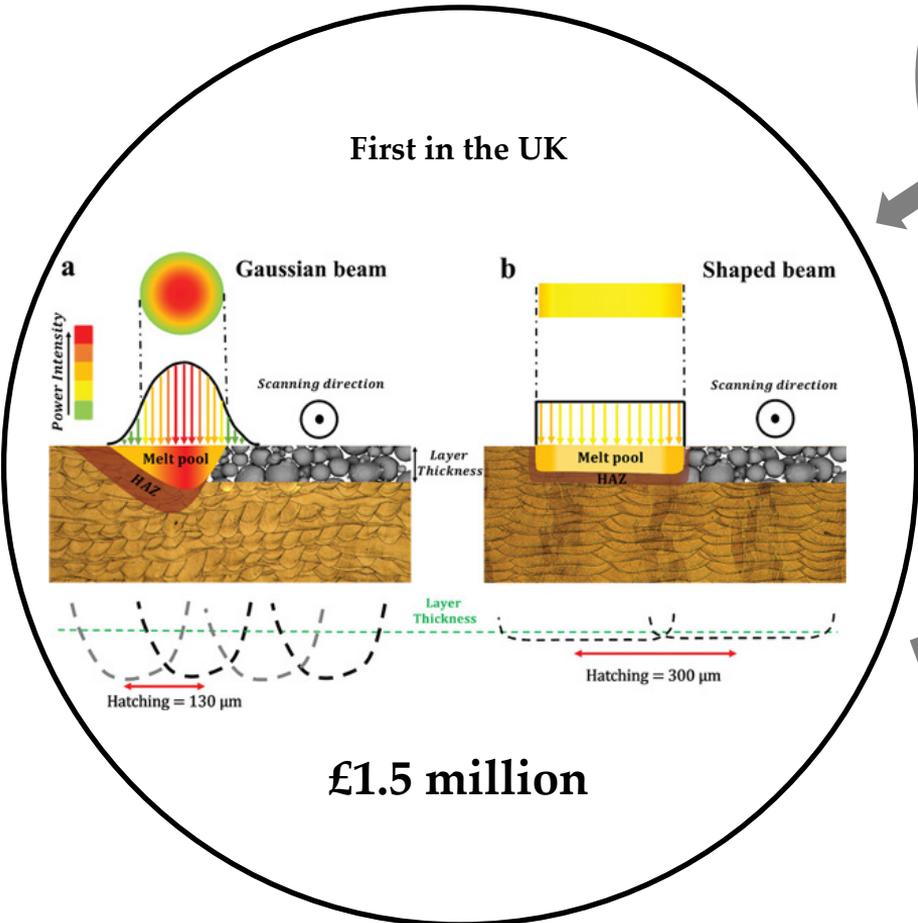


# GEMM Phase 1: Implementation (Springfield ECMS)



UNIVERSITY OF  
WOLVERHAMPTON

RIF funding £650k



EOS

£500k



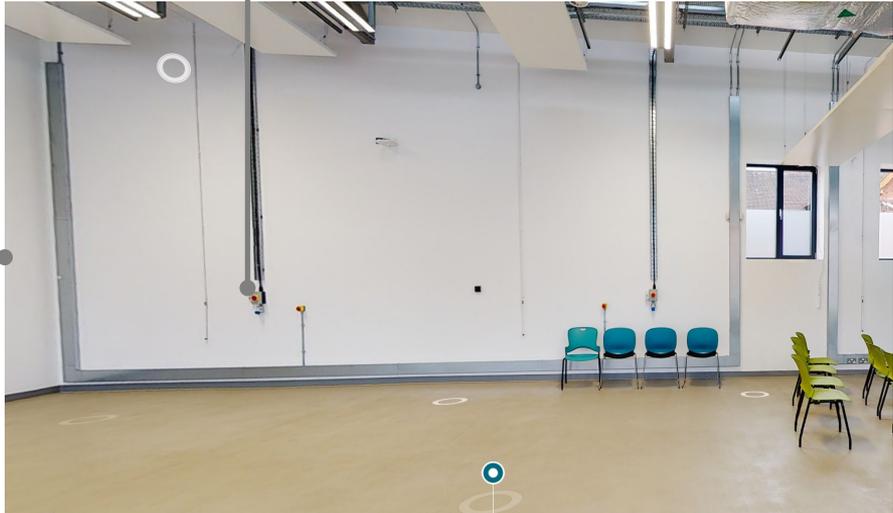
AMM

£350k

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Welcome  
Metamaterials for Health Challenge Sandpit