



# Additive Manufacturing UK

IN PARTNERSHIP WITH



# Agenda

AMUK Introduction

History  
MTA Cluster  
Vision  
Membership

AM in the UK

Context  
Market  
Trends

AMUK Action Plan

Challenges

- Supply Chain
- Skills
- Standards

AMUK  
Actions

Get Involved

Membership  
MACH 2024

# AMUK Introduction - Background



2014: AMUK  
Established by  
MTC

September  
2016: Release  
of report:  
Leading  
Additive  
Manufacturing  
in the UK

2020: AMUK  
Network and  
Branding  
passed from  
MTC to MTA

April 2023:  
AMUK  
Established as  
a trade  
association.

March 2015:  
Release of  
report: The  
Case for  
Additive  
Manufacturing

September  
2017: Release  
of report:  
AMUK National  
Strategy 2018-  
25

April 2022:  
AMUK  
Network  
restarted at  
MACH 2022  
Exhibition

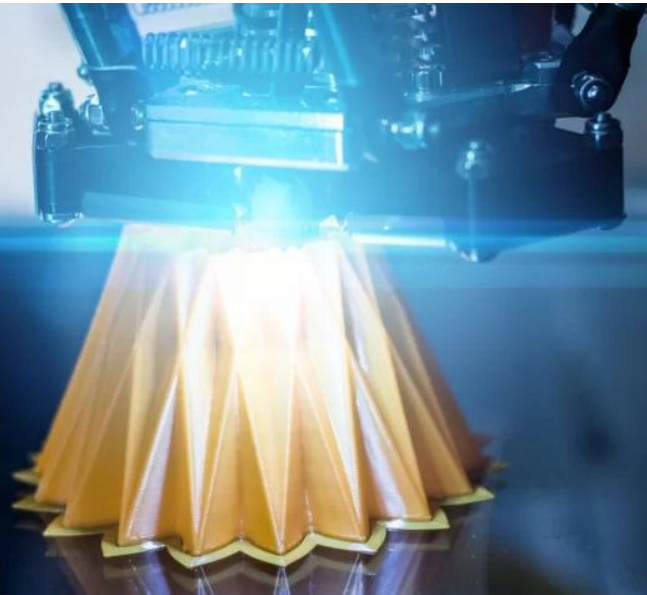
# AMUK Introduction – MTA Cluster



THE MANUFACTURING TECHNOLOGIES  
ASSOCIATION



# AMUK Introduction – Vision



AM-UK AIMS TO ESTABLISH THE UK AS A WORLD LEADER IN THE DEVELOPMENT AND USE OF 3D PRINTING AND ADDITIVE MANUFACTURING TECHNOLOGY.

Business Support

Industry Intelligence

Promotion & Marketing

Academic Engagement

Strategic Partnerships

Sector Development

# AMUK Introduction - Membership

- Membership is open to all companies who make up the Additive value chain
  - Technology/Service Suppliers
  - AM Technology Users
  - R&D Organisations
  - Training Providers
  - Education Establishments
- Currently have 68 members across the UK



# Market Trends - Context

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- We track general trends in the market looking specifically for growth, consistency or decreasing.
- A positive result indicates growth, neutral equals a consistent market and negative equals a decrease
- Scale is from 100 to -100. Anything about +50 is a strong positive outlook, - 50 is a strong negative outlook.
- We look a trends in the following categories:
  - Home Market - AM Products, AM Materials, AM Services, AM Machines, AM Exports.
  - Materials – Plastics, Metals, Ceramics, Composites
  - Industries – Aerospace & Space, Automotive, Medical, Machinery, Chemical & Process
  - Investment Confidence Trend

# Market Trends - Status

- Currently a positive outlook in the UK around the Market Trends for Additive.

Home Market	AM Products	AM Materials	AM Services	AM Machines
	+33 (+83)	+46 (+50)	+24 (+43)	+13 (+25)

Materials	Metals	Polymers	Ceramics	Composites
	+75 (+50)	+61 (+80)	+43 (+46)	+56 (+50)

Industries	Aerospace	Automotive	Machinery	Medical	Chemical
	+50 (+67)	+71 (+63)	+32 (+33)	+19 (+57)	+9 (0)

- Investment intentions are strongly positive and currently tracking at a confidence indicator of 67.4 (78.6).



# AMUK Challenges



- AMUK, as advised by the membership and the AMUK Steering Board, choose the following areas as the challenges it is looking to address:

## SUPPLY CHAIN:

Education, Adoption, Visibility and Qualification

## SKILLS:

Education, Training, Qualifications and Recruitment

## STANDARDS:

Navigating, Implementing, Testing and Inspection

# Challenge 1: Supply Chain

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Supply  
Chain:  
Education,  
Adoption,  
Visibility &  
Qualification

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Lack of understanding/knowledge of current capability of additive technology by UK manufacturing supply chain.

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Lack of uptake and use of additive technology by the UK manufacturing supply chain.

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Lack of understanding of capabilities available in the UK.

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Qualification of the supply chain – link to standards.

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# Challenge 2: Skills

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Skills:  
Education,  
Training,  
Qualifications  
and  
Recruitment

Lack of skills to effectively use additive technology.

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Lack of agreed courses on how to educate and train developers and users in the technology.

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What qualification pathways are there for AM skills?

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Due to lack of personnel very competitive landscape for companies with recruitment – lots of head hunting.

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# Challenge 3: Standards

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## Standards: Navigating, Implementing Testing and Inspection

Lack of agreed standards – with have a lot of competing standards in the UK and companies have to follow each one to get into each supply chain.

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Confusing landscape for smaller companies – which standard to adopt – which organisations to engage.

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Lack of knowledge in how to adopt a standard – Additive industry in the UK is young (less than 10 years old) so education is required on how to adopt.

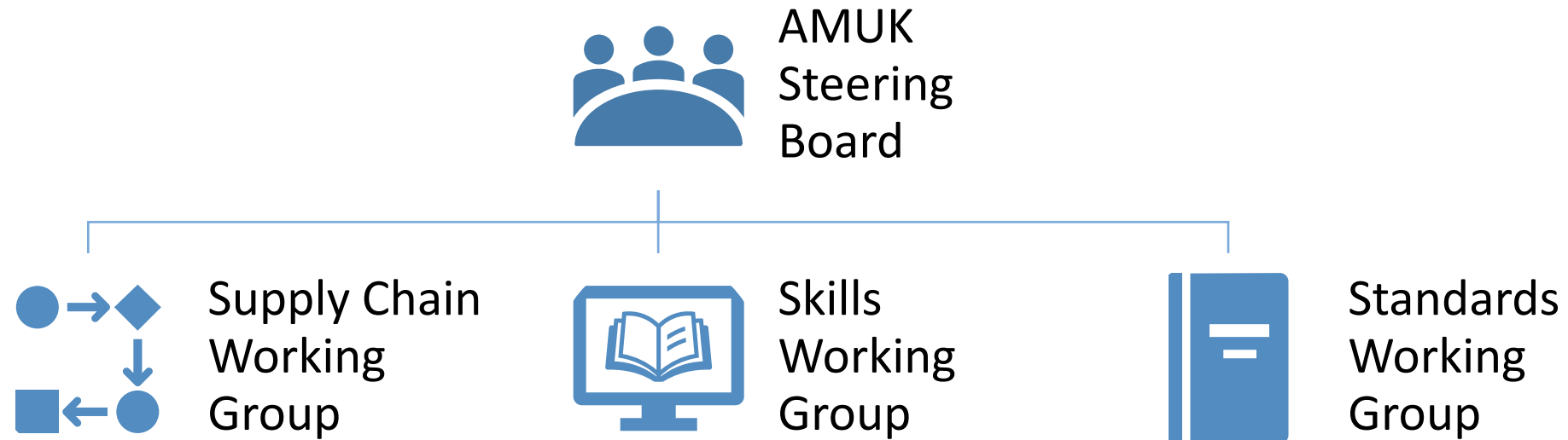
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Lack of understanding of how to implement the testing regime set out in a standard.

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# AMUK Action Plan

- Following setting of the challenges, 3 working groups with members were formed:



- Overall, there are 28 individuals representing 20 companies on the working groups – meetings held in November 2023.

# Supply Chain Actions

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Supply Chain:  
Education,  
Adoption,  
Visibility &  
Qualification

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Comprehensive Case Study Database

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Greater Exposure of Membership across social platforms

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Creation of a roadmap for AM Adoption

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Event for both AM beginners and experts to come together and share best practice – a user's group.

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Create a guide to funding opportunities in the UK

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# Skills Actions

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Skills:  
Education,  
Training,  
Qualifications  
and  
Recruitment

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AM Training Course Review – Pathway for AM skills mapped against courses available.

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AM Open Days – series of smaller events to raise profile of technology to companies and education establishments.

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Establish AM specific competition – aimed at apprentices and university students to bring industry and academia together.

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# Standards Actions

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Standards:  
Navigating,  
Implementing  
Testing and  
Inspection

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Sector Standards Database – What standards are needed for each sector?

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Review of materials databases – what's available and where are the gaps.

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AM Standards Event – share best practice between members to advance standards understanding and adoption.

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# Getting Involved



## MEMBERSHIP

- Open to companies who have a UK presence in the AM value chain, including:
  - AM technology & service providers (materials, build, post processing, NDT etc)
  - AM users
  - R&D Organisations
  - Training Providers
  - Education Establishments
- Visit the website for further details: <https://additivemanufacturinguk.org.uk/am-uk-membership/>



## MACH 2024

- Biennial UK Manufacturing Technology Exhibition - 15<sup>th</sup>-19<sup>th</sup> April @ NEC, Birmingham
- 600 Exhibitors and 25,000 visitors.
- 22 AM Exhibitors: Renishaw, Plastometrex, Laser Lines, Globus Metal Powders, Additive X, CREAT3D, Bowman 3D, Dyndrite, 76 Additive, Apex Additive Technologies, REM Surface Engineering, Kaizen PLM, MSL, Cookson Industrial, HP 3D Printing, Additive Industries, 3DPRINTUK and more
- <https://www.machexhibition.com/>



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