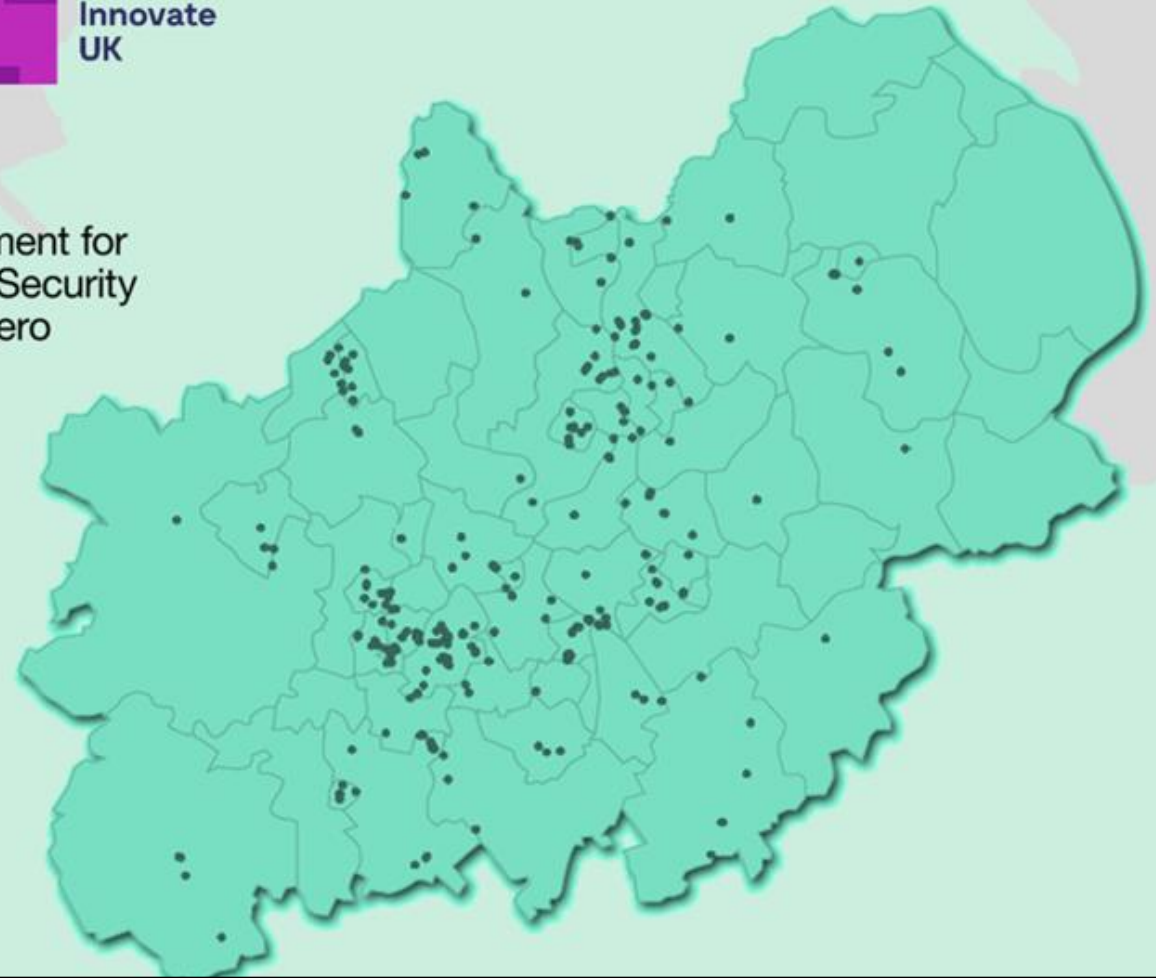


# DMAC Decarbonising the Midlands Aerospace Cluster

## Overview & Industry Opportunities

25<sup>th</sup> April 2024



One year programme (Jan to Dec 2024) to deliver a credible strategic plan for the decarbonisation of the Midlands Aerospace Cluster ... and beyond!

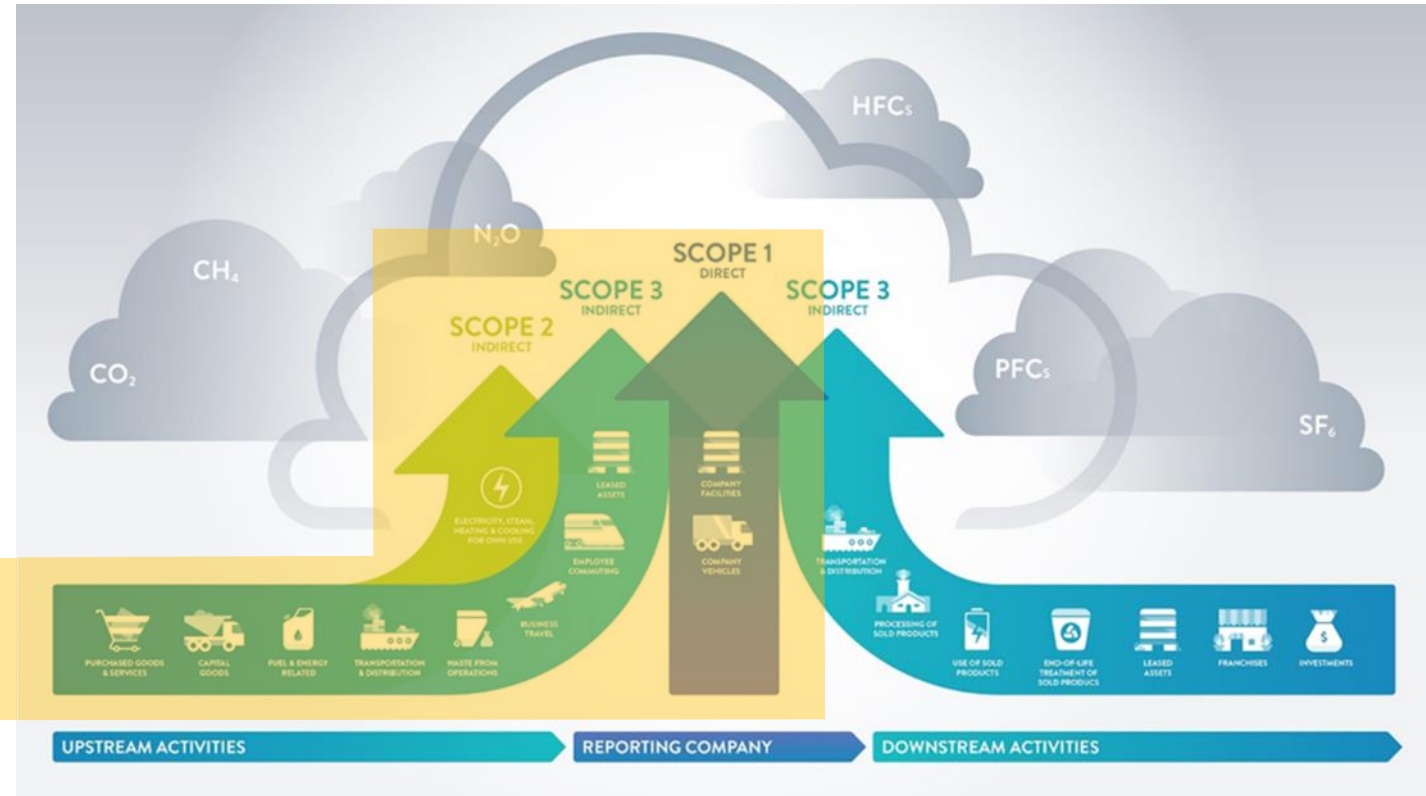


# Background – Drive for Decarbonisation

UK target: 'Net Zero' by 2050 set in law.

What is the sector strategy to achieve this in the aerospace supply-chain?

DMAC focus is on Scope 1, 2 and (upstream) Scope 3.



OEMs & Tier 1s know their Scope 1 & 2 emissions, but face the challenge of upstream Scope 3, where not all suppliers have their Scope 1, 2 & 3 baselines ... let alone a strategy to achieve Net Zero by 2050.

# Overview: DMAC Programme

Objective: To understand how the Midlands Aerospace Cluster could achieve Net Zero by 2050.

## Deliverables:

### 1. Current State

- GHG emissions baseline & fly-forward

### 2. Potential solutions

- Assess for technical & commercial viability
- Assess timescales and policy alignment

### 3. Credible, strategic plan

- Further areas of research
- Implementation projects
- A re-useable methodology



One year programme (Jan to Dec 2024) to deliver a credible strategic plan for the decarbonisation of the Midlands Aerospace Cluster ... and beyond!



# Overview: Approach

- **To develop a strategy from the bottom-up** (“Emissions data obsessed, not infrastructure obsessed”)
  - Build a cluster map from detail (emissions data)
    - MAA regional database
  - Postcode locations to summarise current fuel sources and future replacement needs
  - Align with national and regional infrastructure and energy plans
- **To assist our supply-chain with:**
  - Reducing and eliminating sources of GHG emissions (Environmental Sustainability)
    - Includes opportunities intra-cluster to re-use ‘waste’ etc.
    - Identify common needs within and ultimately outside of aerospace sector (e.g. high-temp furnaces)
  - Prepared for future customer and legislation requirements (Economic Sustainability)
- **Develop a methodology that:**
  - Aligns with GHG Protocol, Customer and National requirements
  - Future proof – e.g. reporting emissions by product for CBAM?
  - Can be automated for reporting and provide an effective source of data for companies to reduce emissions and operating costs.



# DMAC extended team

- **Industrial Team** →
- **Steering Committee** ←
- **Advisory Board** ↔
- **Extended Team** →  
(Supporting Organisations)



The core team comprises of industrial supply-chain partners, assisted by a broader Advisory Board and Supporting Organisations including policy makers and decarbonisation experts.



# DMAC Advisory Board

## Decarbonising the Midlands Aerospace Cluster (DMAC) Advisory Board

### Midlands Aerospace Cluster OEM & Tier 1 Companies

**Rolls-Royce**  
(OEM Aeroengines)  
**Jen Houghton**  
Head of Environmental  
Strategy

**ITP Aero**  
(Engine modules)  
**Brendan Kelly**  
HS&E Business Partner

**Collins Aerospace**  
(Actuation Systems)  
**Dr Dawn Pope**  
EH&S Advisor -  
Sustainability

**Moog**  
(Actuation/Control Systems)  
**Mark Turner**  
Supply Chain Director

**Parker-Meggitt**  
(Equipment/Control Systems)  
**Amanda Martins**  
EMEA Sustainability  
Manager

### Representatives from Local Aerospace Cluster Alliance, Project Partners, Academia, HVM Catapult & Local Authorities

**Midlands Aerospace  
Alliance**  
**Dr Andrew Mair**  
CEO

**Project Partner  
Representatives**  
Representatives from  
partner companies

**Warwick Manufacturing  
Group / HVM Catapult /  
University of Warwick**  
**Simon Webb**  
CTO - WMG

**Local Authorities  
WMCA**  
**Charlie Hopkirk**  
Cluster Delivery Manager  
WMCA

**Regional Policy  
Midlands Engine**  
**Jacob Vivian**  
Project Manager – Policy  
& Partnerships



# DMAC Supporting Organisations include...



## Advisory Board



## Pro Environmental Enterprise Support Network (PEES)

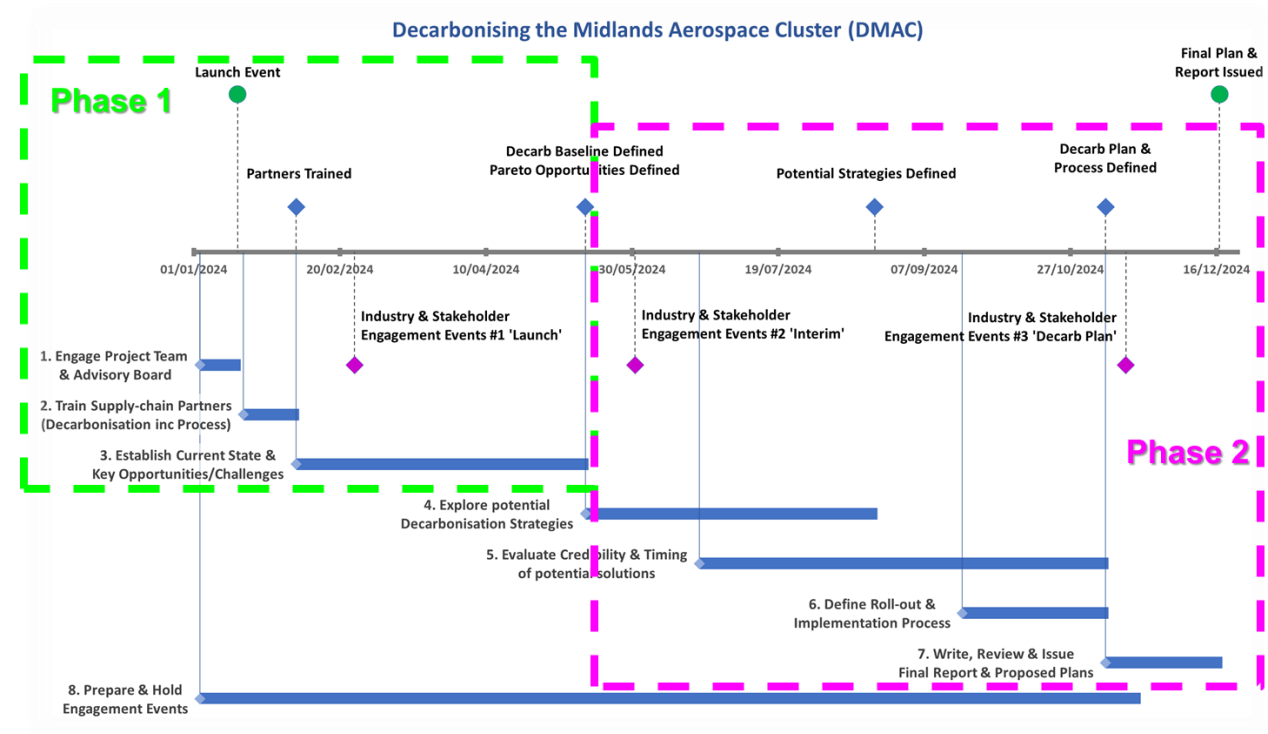


West Midlands Combined Authority



# Progress Against Plan: DMAC Programme

- **Phase 1:**
  - Establish a baseline for GHG Emissions in the local cluster
  - Standardise approach for aerospace supply-chain sector
- **Phase 2:**
  - Develop strategic plan to meet UK's Net Zero 2050 target
- **Dissemination & Engagement Events**



# Interested in supporting DMAC?

**We invite other supply-chain companies to join and support us, for example:**

- Developing our understanding of where the supply-chain is on its decarbonisation journey
- Building a 'typical' emissions baseline model for different types of manufacture
  - Scope 1 and 2 emissions data for Alloy/materials production, Castings & Forgings (inc. furnaces), Heat Treat, Composites, Plastics, Ceramics, Electronics etc.
- Case studies for both achievements & challenges
- Developing local cluster strategies

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Midlands Aerospace Alliance

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# DMAC Decarbonising the Midlands Aerospace Cluster

Thank you

