

# FalconWorks® Product Portfolio Overview



FalconWorks®

2025



# FalconWorks® Overview

As part of BAE Systems' Air sector, FalconWorks® is the agile, forward-leaning centre for advanced research and technology, leading the company's Uncrewed Aerial System (UAS) strategy. As one of the largest suppliers of UAS in the UK and Europe, FalconWorks offers a comprehensive and fast-evolving range of uncrewed capabilities working with SMEs (small and medium-sized enterprises) and specialist suppliers across the UK.

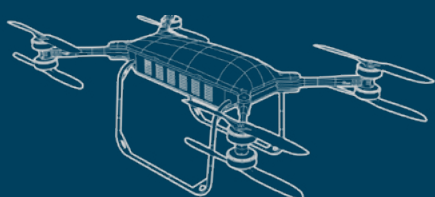
The FalconWorks UAS portfolio continues to evolve, benefitting from access to and application of wider BAE Systems expertise, Academic and Research and Development (R&D) partnerships. Our cutting edge UAS portfolio is deliberately constructed to provide a range of core vehicle categories that in turn offer customer choice and variability in payloads to meet desired end use case outcomes in a cost effective, agile and commodity-based way.



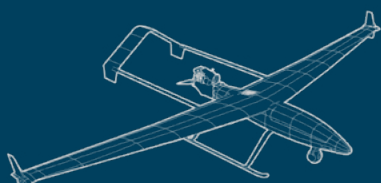
# Product Portfolio

Our tailored expertise across the family allows for rapid digital design, development and production with commonality in processes, toolsets, software modules, supply chain materials and components. Together this approach provides cost benefits to our customers and supports the national endeavour to build a vibrant and resilient industrial eco-system with a focus on reliable on shore supply services.

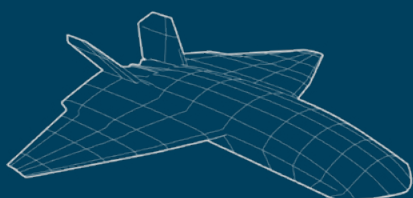
## The broad segmentation of our developing vehicle portfolio spans:



- Disposable/Attritable all electric Vertical Take Off and Landing (VTOL) systems from hand-held devices to autonomous systems capable of carrying multi-role payloads over Beyond Visual Line of Sight Operations (BVLOS).



- Attritable fixed wing rail launched or VTOL hybrid propulsion autonomous systems capable of long endurance and BVLOS operation with agnostic payloads.



- Attritable fixed wing Short Take Off & Landing (STOL) multi-role autonomous collaborative combat aircraft concept with low observability design features and modular design for dispersed and Agile Combat Employment (ACE) operations.



- Solar Powered High Altitude Pseudo Satellite (HAPS) system capable of autonomous globally persistent surveillance and comms/data relay operations at stratospheric altitudes with a private payload capacity.

# FalconWorks EcoSystems

Building on BAE Systems' rich heritage of research and development, FalconWorks is forging unique partnerships with institutions across academia, research organisations, SMEs and national governments to co-create new capabilities that accelerate the innovation of future air power.



## 450+

Key suppliers to FalconWorks operating within the UK

## c.2000

Employees across our UK business and entities

## 60+

Partnerships with industry experts and academia

By leveraging BAE Systems' partnerships with the 6 strategic universities and through multiple catapult centres, FalconWorks drives innovation through an extended ecosystem both internally and externally. Advances in our additive manufacturing and digital capabilities have been driven through our Factory of the Future whilst our Advanced Technology Solutions (ATS) Centre develops our pedigree in materials and coatings for multi-domain uses. The Aircraft Research Association (ARA), a FalconWorks business, can offer unique and rapid support to concept testing via its UK-based supersonic continuous air-flow wind tunnel capability.

# Operational Outcomes

Malloy Aeronautics, Prismatic, and Callen-Lenz are passionately focused on delivering customer operational outcomes.

Their proven track records in fast paced innovation, early adoption of the latest technologies and partnering with global specialist suppliers, allows for rapid solution development for tomorrow's problems, today.

We encourage and ensure that those businesses that retain and maintain their inventive independent agility, but as part of FalconWorks integrated portfolio they can access BAE Systems engineering expertise, manufacturing know-how and functional guidance including funding support to ensure that they can maximise their full growth potential.



Prismatic specialise in solar-electric High Altitude Pseudo Satellite (HAPS) UAS, offering a cost-effective and persistent alternative to conventional satellite, airborne sensing and communication systems.



An uncrewed aircraft incorporating goal-based autonomy that is capable of independent or synchronised action with Combat Air. Designed as an attritable system, the ACP concept offers a pathway to increase affordable combat mass and deliver enhanced operational effects.



Callen-Lenz designs, develops, and manufactures novel UAS. Drawing on over 18 years of extensive UAS experience across military and civil domains, Callen-Lenz delivers innovative technical solutions and plays a leading role in advancing autonomous technology.



Malloy Aeronautics is a world leader in developing and manufacturing all-electric Vertical Take-Off and Landing (eVTOL) heavy-lift UAS and C-UAS strike capability.

## Decision Advantage

The ability to gain situational awareness of threat / tactical scenario

## Assured Mobility

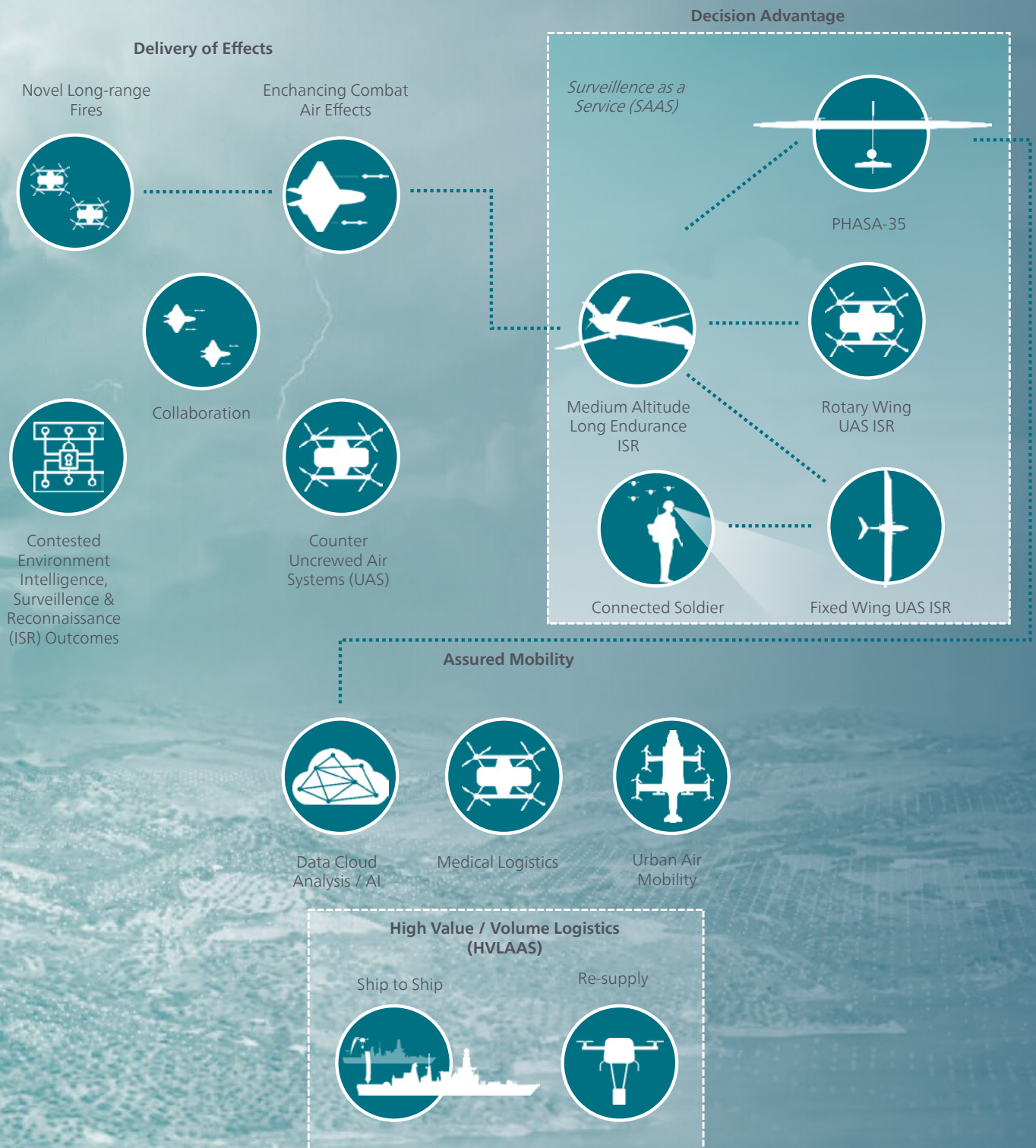
Sustained operation through critical supply

## Delivery of Effect

The ability to repel / defeat enemy advancement to retain force protection

# Emerging & Disruptive Systems

Focused on operational outcomes for our customers.



Training and Readiness | Service Development and Delivery | Multi-Domain Integration

# FalconWorks

## What comes after next

FalconWorks is advancing a range of platform development opportunities. These include hybrid systems and tethering solutions with Malloy Aeronautics to extend range and payload capacity, advanced autonomy and flight systems with Callen-Lenz, and battery and solar array technologies for PHASA-35® with Prismatic. FalconWorks is accelerating efforts in complex systems integration and autonomy, as well as mission planning and management which extend beyond platform delivery. Alternative future technology advancements are also in development, with the business looking into Artificial Intelligence partnering, extending the suite of capability applications.

Alongside Tier 1 uncrewed platforms, FalconWorks is accelerating the development of advanced, uncrewed Autonomous Collaborative Platforms (ACPs) continuing to deliver capability from air-to-air and air-to-ground at pace and at an attritable price point. With the military environment evolving rapidly, FalconWorks is not only engineering next-generation technologies, but also helping shape the future operating environments for ACPs. These efforts position FalconWorks as a key driver in shaping the future use of uncrewed systems globally.

MALLOY AERONAUTICS



Callen-Lenz



For more information on our other subsidiaries, please use the QR code

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