

AIRBUS HELICOPTERS Shaping the future of new generation rotorcraft DEFENCE & SECURITY : a Company priority Focus on UAS strategy

GDH 2024 - TUE OCT 22 | WARSAW

General (ret.) Patrick BRÉTHOUS, Senior Military Advisor of AH CEO Victor GERIN-ROZE Head of UAS Business - Airbus Helicopters Karen LOH, UAS Marketing New Business - Airbus Defence & Space



AIRBUS



World key player in civilian and <u>military</u>





AO

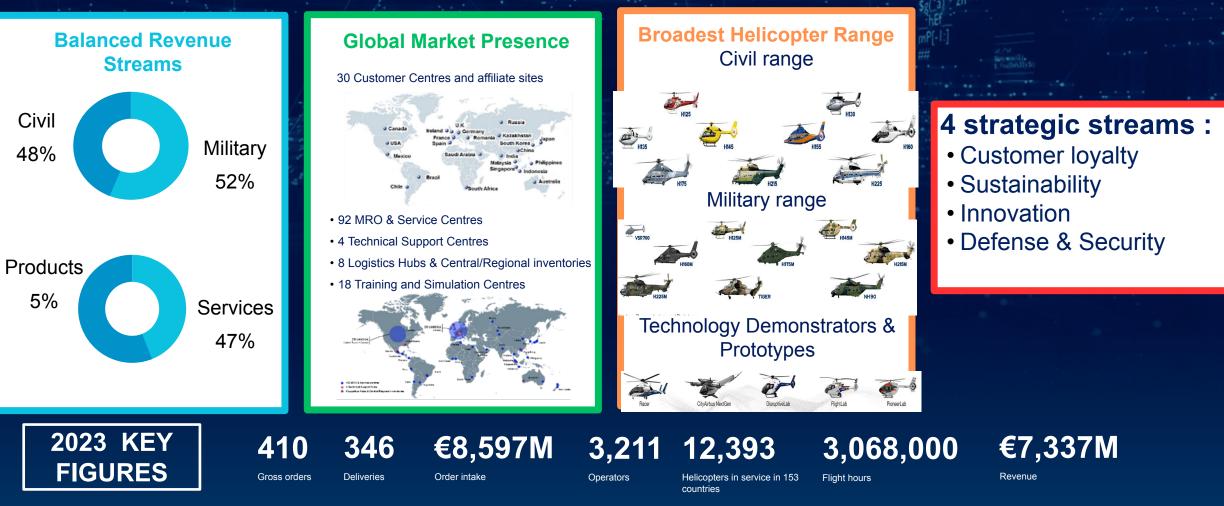
Our role is to support our customers in their most challengir military missions.





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Airbus helicopters: a resilient business model based on 3 pillars and 4 strategic streams



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3

Defence & Security stream

Short Medium Term Lines of Operation

IMPROVE MILITARY CUSTOMER SATISFACTION

OFFER A FULL SPECTRUM OF MILITARY SOLUTIONS

PAVE THE WAY FOR THE FUTURE

Long Term Ambition

ANSWER NGR REQUIREMENTS FOR MILITARY OPERATORS

2024

Company roadmap

2040





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Supporting customers operating the most challenging military missions



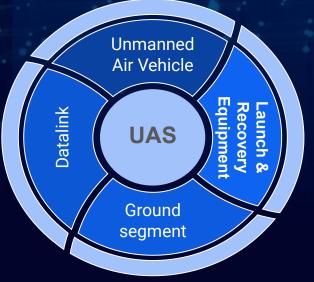
AH is preparing the future of military HCs at 2 horizons

Fleets improvements up to 2030 **New rupture platforms post 2040** H125M **H FORCE** Racer RACER H145 D3 NGRS MUMT REQUIREMENTS DISRUPTIVE Tiger ST3 Affordability UPGRADE LAB NGRC **Availability** NATO WG **Speed / range** NH90 PLAN **OEMs Survivability** R&T R&D ST2 SF SFRD CFRD coop Connectivity H225 **Autonomy ENGRT** MLU **Collaborative fight** EU WG **FLIGHT** Interoperability H 160 M LAB EIS Dispersed maintenance H175M EIS UAV VSR 700 **STRATEGY VSR 700** AIRBUS EIS

An Unmanned Aerial System is....

A system operated without the possibility of direct human intervention from within or on the aircraft





with a specified operational intent





Survivability & Attrition...

...and Different Business Models

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categorised into 5 groups (US DoD)



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Our ambition in UAS: to solve customer challenges by leveraging our multi-domain experience and proposing combined use of manned and unmanned assets

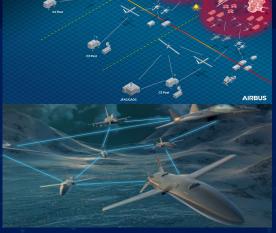


Unmanned Vehicles

Ranging within Airbus from agile **light** tactical to ultra-persistent, stratospheric, solar-powered capabilities

The acquisition of Aerovel in May 2024 marked another step towards building a consistent range of multirole tactical VTOL UAS solutions





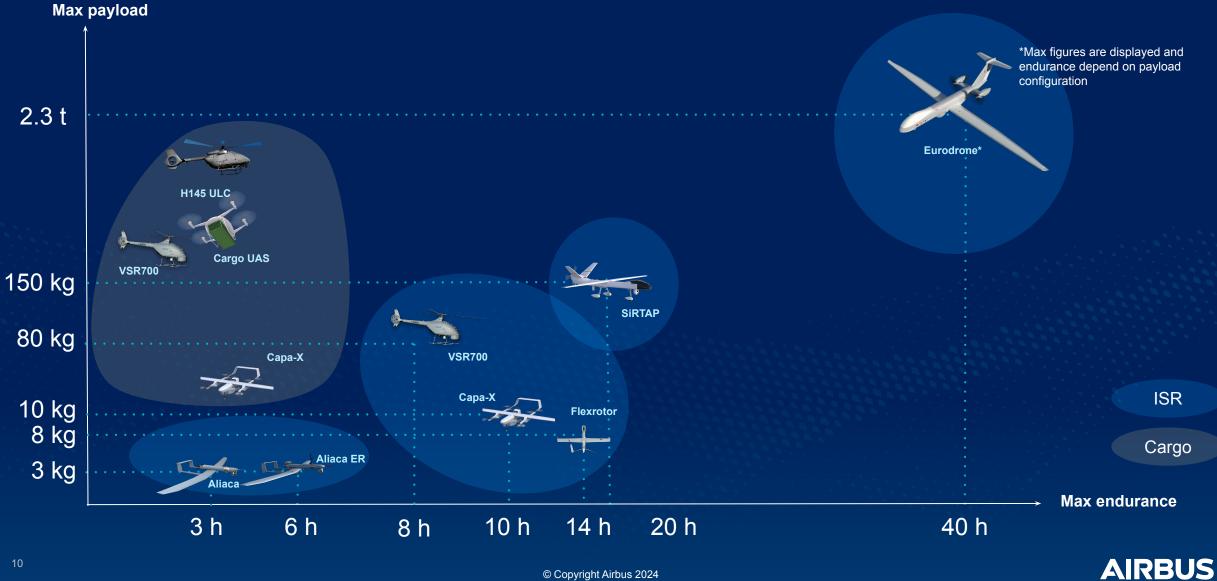
Manned- Unmanned Teaming

Development of interoperability capacities connects Manned and Unmanned assets and enhances tactical situation awareness and mastering

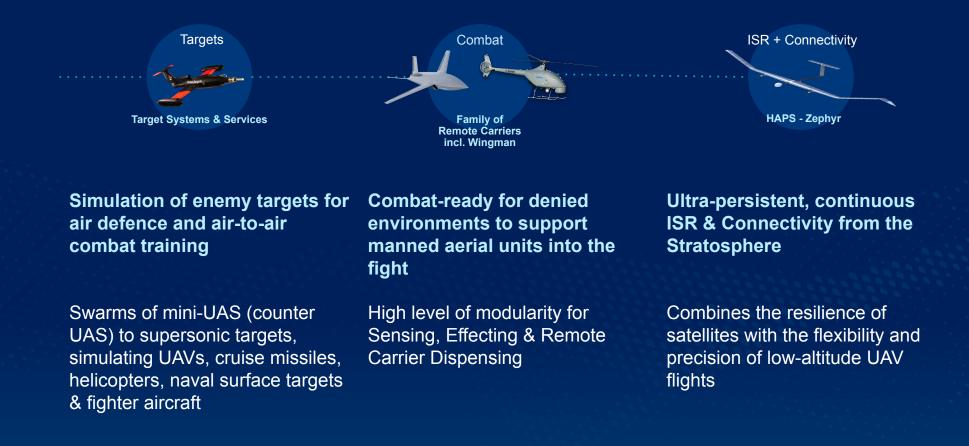
Advanced teaming intelligence equips UAS to complement manned assets by bringing additional capabilities, lowering cost per effect within a collaborative System of Systems



Our UAS portfolio covers a complete range of missions (1/2) Focus on ISR and Cargo missions



Our UAS portfolio covers a complete range of missions (2/2) Mission-specific solutions





Manned-Unmanned Teaming at Airbus

2018-2022

Teaming intelligence through mission group management: Manned C2 aircraft controls five UAVs (Do-DT25)

A400M "mothership" launches Remote Carrier flight demonstrator



2018-2022

H145M Demos Multi-UAS capability demonstrated in complex environments (up to FCAS scenario)

2022

Multi-Domain Flight

H145M and surrogate

Remote Carriers

Demo: MUM-T with surrogate fighter.

2024

MUSHER Demo: H130 with VSR 700 in cooperation with Leonardo and Thales: Common European exchange protocol



Spain MOD Demo teaming 2 H135 and 1 UAV

EMIJÄRVI 20

T-MAIN FLIGA

2024

Automated wide area surveillance demonstrated by 3rd party UAV mission group with Primoco & Helsing

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MUM-T Capabilities Step 1

Tasking 1 UAV from 1 H/C with a safety pilot in the loop and light cockpit integration

2028-29

First flight of FCAS **Remote Carrier** demonstrator teamed with Eurofighter



Future Objectives

Develop MUM-T capabilities to • connect manned assets with UAVs and perform missions in contested environments

2040 +

Air System

Future Combat

Explore teaming potential outside of combat air applications



Mid Term

MUM-T Capabilities Step 2

Tasking multiple UAVs/ALEs from H/Cs, no remote pilot required and solution integrated in cockpit

2030+

IOC of Remote Carriers teaming with enhanced existing fighters



Teaming Use Cases

Different scenarios in different domains require different teaming capabilities and functions

The underlying architecture remains the same

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Airbus provides platform-agnostic end-to-end service solutions and has the flexibility to provide a capability through the desired contractual setup



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As a conclusion

 AIRBUS – A EUROPEAN DEFENCE COMPANY BUILDING TRUSTFUL PARTNERSHIP WITH MILITARY OPERATORS

• AIRBUS UNIQUE OEM OFFERING A FULL SPECTRUM OF SOLUTIONS TO ANSWER THE MOST DEMANDING OPERATIONAL NEEDS

• AIRBUS UAS STRATEGY: FROM TACTICAL TO LARGE LONG ENDURANCE ASSETS, AUTONOMOUS AND COLLABORATIVE PLATFORMS, END TO END SOLUTIONS, MUM-T UP TO UNCREWED HELICOPTERS

