



TRADE MEDIA  
BRIEFING 2022

## Military Air Systems

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**AIRBUS**



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## Military Transport & Tanker Aircraft

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# A400M: Growing Fleet



Over 140,000 Flight Hours in Service  
176 orders from 10 nations  
116 a/c delivered:

- Germany: 41
- UK: 21
- France: 20
- Spain: 13
- Turkey: 10
- Malaysia: 4
- Belgium: 6
- Luxembourg: 1  
(as of November 2022)



Germany



France



Spain



United Kingdom



Turkey



Belgium / Luxembourg



Malaysia



Kazakhstan



Indonesia



# A400M: Development Status

A modern in-service highly-capable tactical and strategic transport, AAR A400M development finishing:

- Low level flight, day/night, visual/instrumental manual/ automatic **certified**
- Helicopter air to air refueling (HAAR) flight test campaign completed
- Completing air delivery last steps such as automatic combat offload and very high altitude airdrops (loads, paratroops)

Concentrating on potential new capabilities such as firefighter, UAV mothership

- Aerial Firefighter: Feasibility / suitability demonstration completed on July 2022. 20 tonnes of water discharged in single pass
- UAV mothership: two successful launches of Airbus drone. Excellent separation from A400M, successful in-flight start of UAV engines



# A400M: Support Ukraine crisis & NATO Ops

Transport: medical & defence supplies

Evacuation of Ukrainian refugees

Continuous NATO missions:

- Baltic air patrol
- Bulgarian air patrol
- East EU deployment support





## Three main objectives

- ## Rapid Pacific exercise (Luftwaffe)

- In less than 24 hours from departure, four A400M, five EF jets and three A330 MRTT reached Singapore
- Participation in Pitch Black exercise
- Germany's first-ever global projection mission to the Indo-Pacific region, with an "All-Airbus" fleet



# A400M: UK RAF SAR Capability

Dec 2019: RAF A400M Mission from Falklands to aid a Chilean AF C130

Oct 2022: Brize Norton A400M assisted distressed sailor rescue

Long range and endurance SAR missions: Over 10 h of mission; over 7 h on station at more than 500 nm from the base.

- FMS calculates up to 3 different SAR orbits:



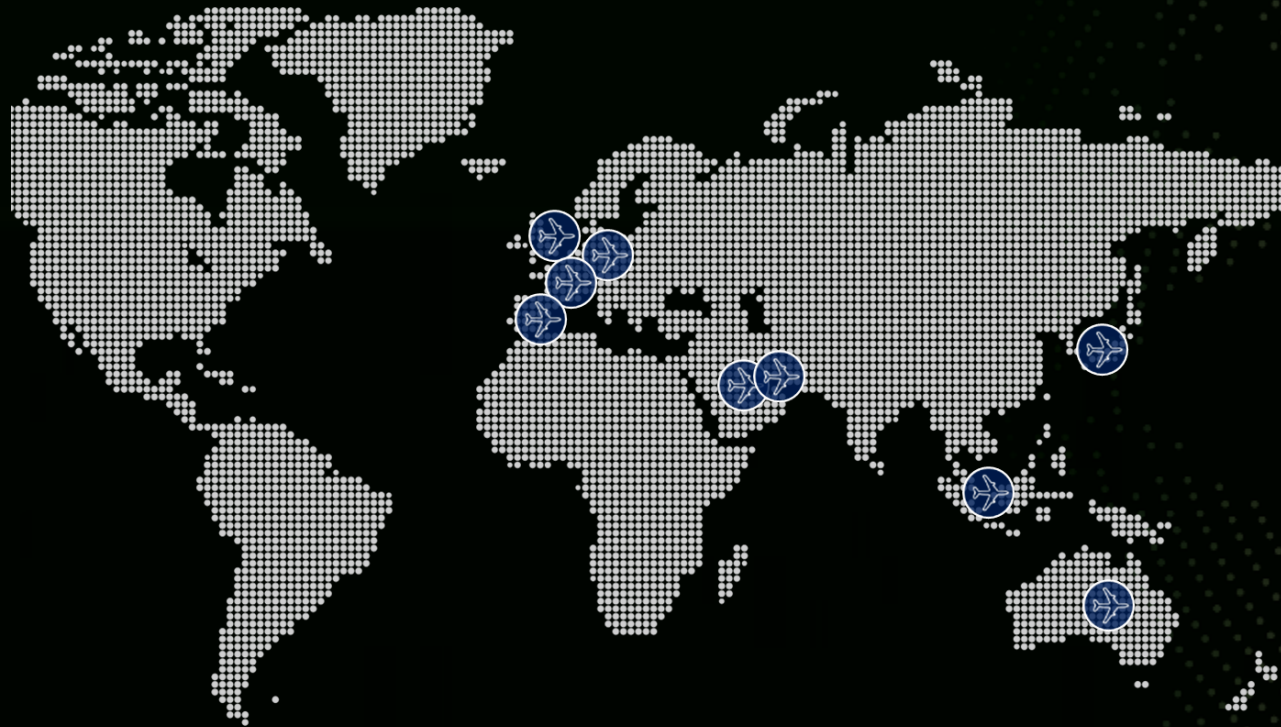
- Airdropping of large SAR survivability kits



search capabilities to locate the yacht amongst the high waves.

The Atlas dropped their Air Sea Rescue Apparatus (ASRA) to the yacht through a rear ramp drop, where it descended via parachute.

# A330MRTT: Programme Status



Australia



UK



UAE



Saudi Arabia



NATO Multinational MRTT Fleet (MMF)



Singapore



France



Rep of Korea



Spain



Germany



Netherlands



Luxemb.



Norway



Belgium



Czech Rep.

## A330 MRTT - The Tanker of Choice

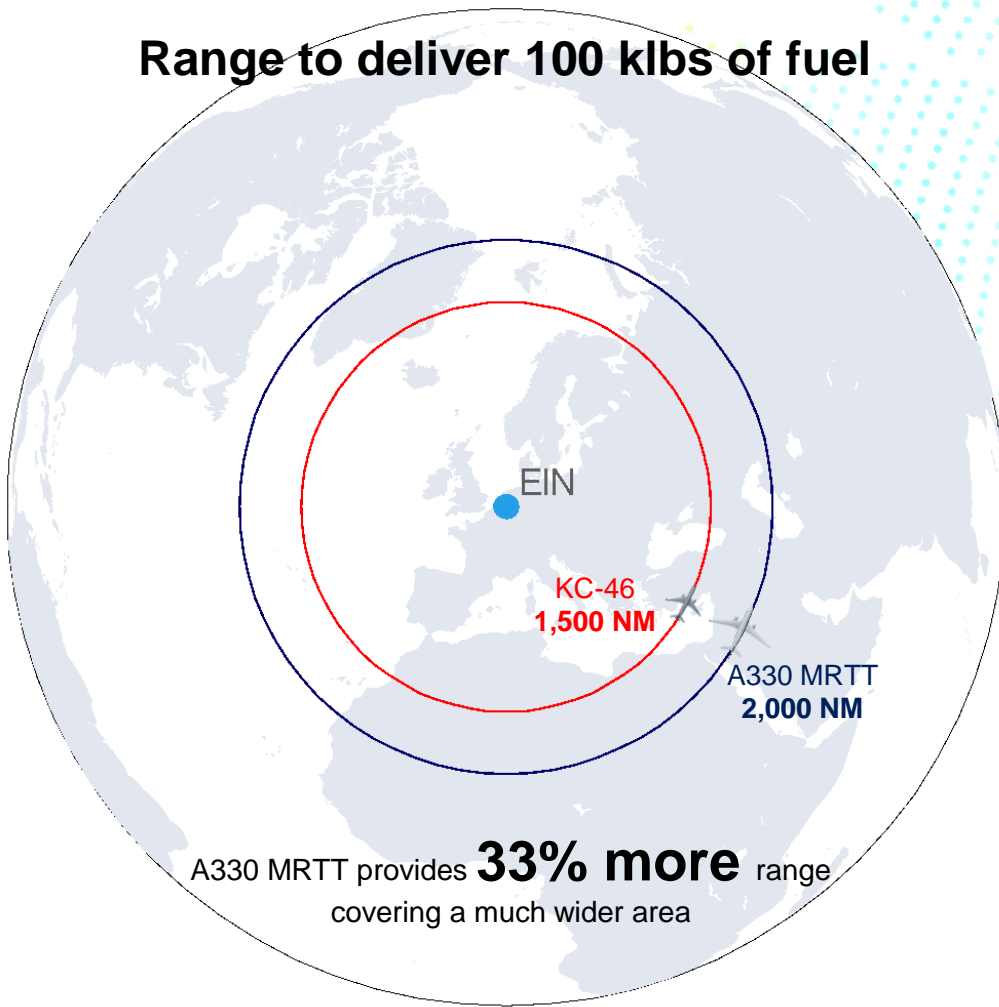
- More than 250,000 Flight Hours in Service
- 66 firm orders from 14 nations
- 54 a/c delivered (as of December 2022)
- Estimated accessible market around 90 aircraft (excl. US)
- Number of countries using strategic tanker keeps growing



# A330MRTT: Undisputed Global Champion

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## Range to deliver 100 klbs of fuel



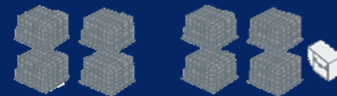
## Long range deployment capacity

### A330 MRTT

A330 MRTT Deployment from Europe to Middle East



- Direct Flight
- No Landing Authorisation required



- 4 Fighters
- 50 Personnel / Troops
- 12 tonnes of Equipment (Spares, Luggage, cargo, etc)
- 2,800 nm (5,200 km)

### KC-46



(AAR + 50 personnel)

+



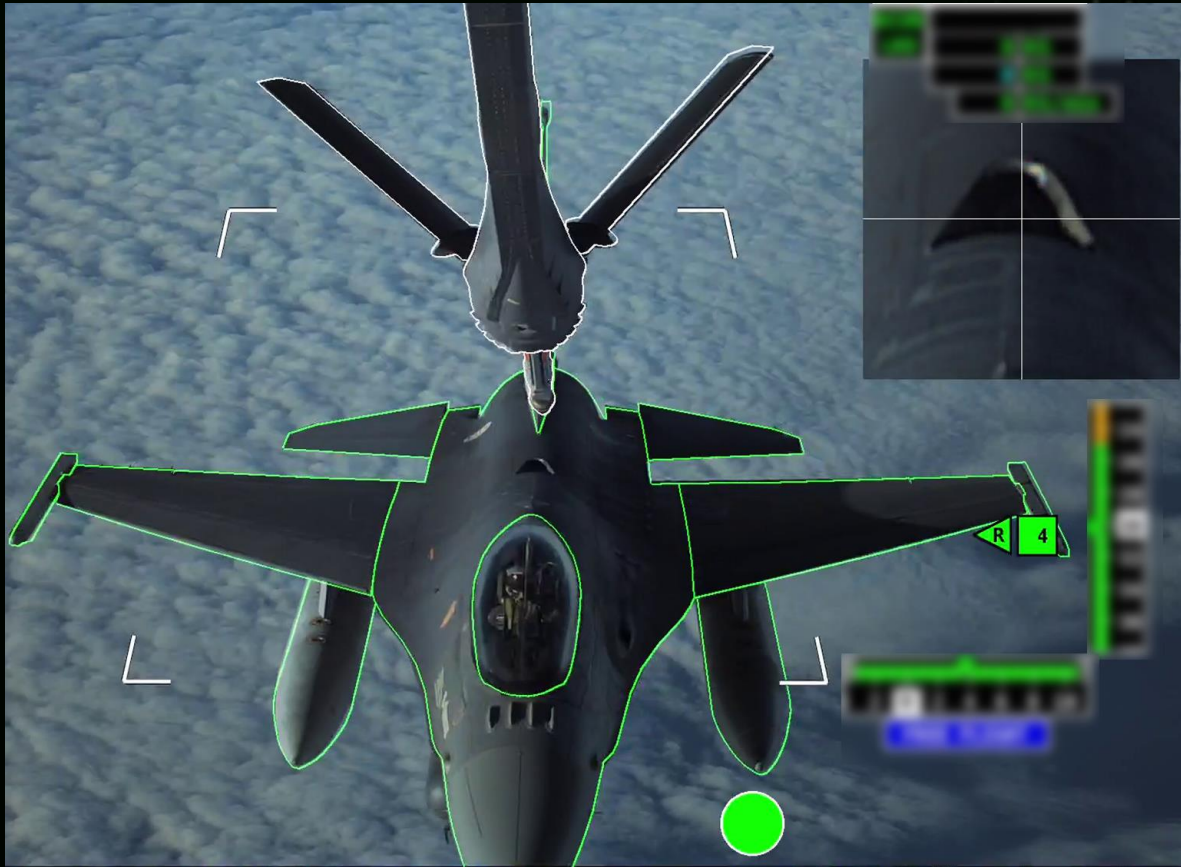
(Spares, GSE, etc.)

A330 MRTT can perform a long range deployment **without the need of an intermediate stop carrying all the needed cargo and personnel**

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# SMART MRTT – A3R

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## Ready & In-Operation<

**SMART MRTT and A3R have been certified during this year 2022**

- The first SMART MRTT entered operation in summer 2022 with the first delivery for Singapore Air Force
- This sets a **historic milestone for Airbus** becoming the pioneers to introduce boom automation

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# Future Roadmap



### Three main pillars in A330 MRTT evolution:

- **Automation** towards A4R, the next technological step after **A3R** with a demonstrator being developed by **Airbus Upnext (Auto'Mate)**
- **Self Protection Systems** enhancing situational awareness and aircraft survivability adapted to any mission
- **Connectivity** expanding to new roles and functions in the FCAS' future battlespace



# C295: Remaining Benchmark



## C295 new orders in 2022

- Three (3) C295 aircraft in Angola
  - One (1) C295 transport and two (2) C295 MSA
- One (1) C295 transport aircraft for INTA
  - To be used as meteorological test bed
- Two (2) C295 transport aircraft for Serbia

# C295: Spanish MPA and MSA

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## P-3 Orion and CN235 MSA (D4) replacements

- The Spanish MoD and AF (Ejército del Aire) has selected the C295 MPA to conduct the missions currently performed by the P-3 Orion fleet, which is will be retired at the end of this year 2022.
- The C295 MPA will equip a more modern mission system, including the latest generation FITS tactical system and state-of-the-art sensors and armament system to conduct Anti-Submarine Warfare (ASW) operations.
- Airbus and DGAM/Spanish AF are currently in the last stages of the C295 MPA configuration definition, expecting an aircraft configuration freeze and contract signature in Q1 2023.
- Spanish MoD and AF is planning to replace the D4 (CN235 MSA) fleet, being the C295 MSA a natural replacement for this mission

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# C295: India Programme

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## Programme Launched!

- Programme launched satisfactorily despite COVID disruptions in 2021
- Kick-Off Meeting held in Seville chaired by the Additional Secretary and Director General Acquisition of the Indian Ministry of Defence;
- C295 Indian version definition and design phase completed through Preliminary Design Review and Critical Design Review
- Groundbreaking ceremony to unveil the Final Assembly Line in India
- First C295 to be delivered by Q3 2023, including all Indian design changes and modifications

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# Decarbonising Military Aviation

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## Sustainable Aviation Fuel (SAF) flight test campaign

Test flights with SAF on board in all our core military aircraft platforms during 2022

- 29% SAF on one engine in A400M (July 2022)
- 29% SAF on two engines in C295 (October 2022)
- 100% SAF on two engines in A330MRTT (RAF Voyager) flown by a combined Airbus, Royal Air Force and Rolls-Royce flight-test crew (November 2022):
  - The world's first 100% SAF flight using an in-service military aircraft
  - The first 100% SAF flight of any aircraft type carried out in UK airspace

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## Combat Aircraft

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# EUROFIGHTER: Into the future

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## A year of contracts and new developments

- Halcon contract signature accomplished – 20 new aircraft for the Spanish Air Force
- 1<sup>st</sup> centre fuselage for 38 new German Quadriga EF produced
- The next weapons system enhancement contract launch, known as P4E, will have fully integrated and operational E-Scan radars, alongside additional capabilities.
- The Eurofighter Long Term Evolution (LTE) study, which will underpin the future development of the weapon system.

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# Unmanned aerial vehicles

# Eurodrone: A MALE for Europe

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**March 2022**

Launch of the most ambitious  
European UAS programme



**Future Ready**

Current and future challenges  
define Eurodrone's DNA



**Programme Advancing**

Work packages and tenders  
distributed all over Europe



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# Aliaca: Light Tactical UAS

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- Certified and qualified by DGA
- In operations with French Navy
- Aliaca ER: a new thermal configuration

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