



Leonardo Helicopters

Innovation and Technologies in Humanitarian Aviation / Capacity Building and Improving Safety

4th Aviation Safety Campaign Meeting WFP/ICAO

São Paulo

December 10-11th, 2024



Electronics



Helicopters



Aircraft



Cyber &
Security



Space



Aerostructures

SUMMARY

- LEONARDO HELICOPTERS INTRODUCTION
- AW139 & AW189 FEATURES & CAPABILITIES TO SERVE WFP HUMANITARIAN OPERATIONS
- TECHNOLOGIES TO EXPAND HELICOPTER CAPABILITIES
- SAFETY
- DIGITAL SERVICES AND DIAGNOSTIC
- SUSTAINABILITY



LEONARDO HELICOPTERS GOAL

To be at the forefront of vertical lift solutions for the benefit of our customers and society.

Providing advanced end-to-end capability

Enabling customers to best
meet every mission

Being a trusted, long-term partner

Fully engaging our
employees and
suppliers – always there for
our customers

Innovating with purpose

Delivering safer, smarter and
more sustainable
vertical lift solutions



PARTNER OF CHOICE

We are proud to be selected by customers across the civil, parapublic and defence sectors worldwide.

1,500

Customers

4,550

Leonardo Helicopters in service

150+

Countries



AW139 & AW189 DISTINCTIVE FEATURES FOR UN WFP OPERATIONS

- High useful load / payload for passengers/troops, materials and mission equipment
- Effective Utility operations, thanks to high-capacity cargo hook equipment
- Large and regular cabin, dedicated baggage compartment
- Wide sliding cabin doors, for easy ingress/egress of personnel, stretchers, equipment, goods
- Compact external dimensions, to operate also in confined areas
- Proven capability to operate on unprepared / soft surfaces
- True multirole / multi-mission flexibility and versatility
- Maximum safety for crew and passengers
- Glass cockpit, enhancing crew safety and situational awareness
- VFR/IFR / NVG capability for overnight / low visibility missions
- Excellent Hot & High performance, unrivalled speed



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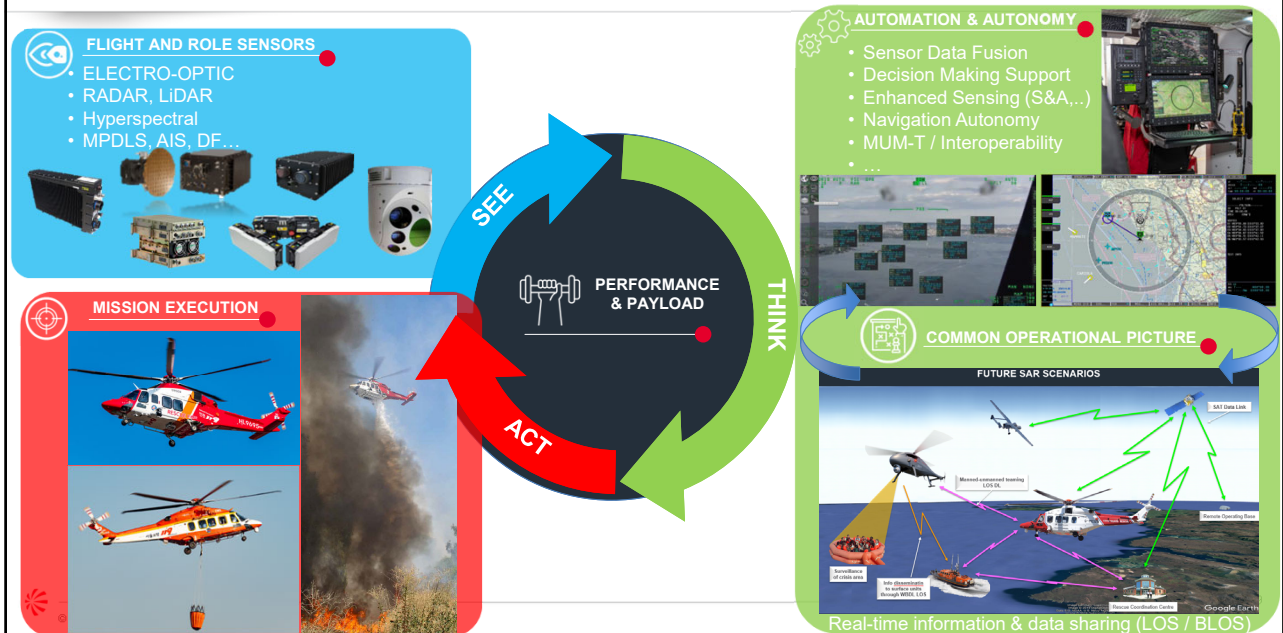


AW139 & AW189 CAPABILITIES TO SERVE HUMANITARIAN OPERATIONS





TECHNOLOGIES TO EXPAND HELICOPTER CAPABILITIES





+



PERFORMANCE

BRAIN

= EFFECTIVENESS



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SAFETY - Modern platforms

AWFamily



Effectiveness

- High Speed
- Excellent Performance
- Extensive Role Equipment List



Safety

- Modern Certification Standard
- State-of-the-Art Avionics
- Improved Situational Awareness
- High Power Margins



Flexibility

- Wide and Regular Cabin
- Enhanced Cabin Accessibility
- Reconfiguration Capability
- Specialised Interiors

SAFETY - Situational Awareness & Operational Capabilities

AWFamily



AW169

AW139

AW189

Full Digital
Glass Cockpit

Excellent
Situational Awareness

4 Axis
Autopilot

Common Layout of
Relevant Flight Data

Reduced
Pilot Workload

Satellite based
Navigation capability



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SAFETY - EXCESS OF POWER MARGINS

AWFamily



POWER TO WEIGHT
RATIO

~0.5 shp / kg

DELIVERING **BEST IN CLASS** POWER TO WEIGHT
RATIO FOR UNMATCHED **POWER RESERVE**



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SAFETY - DRIVE TRAIN UNRIVALLED DESIGN

AWFamily



	Run Dry	TBO
AW ¹⁶⁹	33 minutes	6000 FH
AW ¹³⁹	Up to 60 minutes	6000 FH
AW ¹⁸⁹	50 minutes	5200 FH

- Dual independent lubrication systems with No External Emergency Lubrication System Required
- «Run-Dry» Capability Tested, Certified and clearly reported in the RFM
- Chip Burning Capability integrated with chip detectors



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ALWAYS THERE FOR OUR CUSTOMERS

Our commitment is to ensure customers fly safely, reliably and efficiently with the backing of a worldwide support and training network.

Operational Support

24/7 Fleet Operation Centre

Engineering Services

Continuous support to maintenance and Operational activities

End-to-end Training capabilities

Constantly evolving live and synthetic solutions

Data Driven Helicopter Journey

Smart use of data to optimise operations



110+

Service and Repair Centres

5

Training Academies

3

Integrated Diagnostic Service Towers



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LEONARDO HELICOPTERS, COMPANY OVERVIEW

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DIAGNOSTIC TECHNICAL SUPPORT - HUMS SUPPORT SERVICE

Reduced Customer Activity
No need of specific staff training

1400
Helicopters managed

500
Customers

3000
Users

24/7 Monitoring
Thanks to LH global support-team

450+
new data packages per day

Early prediction of malfunctions
Predictive Diagnostics

2,1+
Millions flight hours

52,000
Data analysis requests

Global Benefit
Increase of aircraft availability

1
Web-based application (ground station)



CONTRIBUTING TO AMBITIOUS CLIMATE TARGETS

Thanks to More Efficient Technology and Sustainable Supply Chain



Sustainability



Leonardo **2024-2028 Sustainability Plan Targets**, now integrated into the **Group Industrial Plan** to enhance the **sustainability competitiveness**

According
to SBT



-53% by 2030
of Scope I and II CO_{2e}
emissions vs 2020



-52% by 2030
of Scope III downstream
CO_{2e} emissions/FH vs 2020



58% by 2028
of Suppliers emissions
committed on SBT

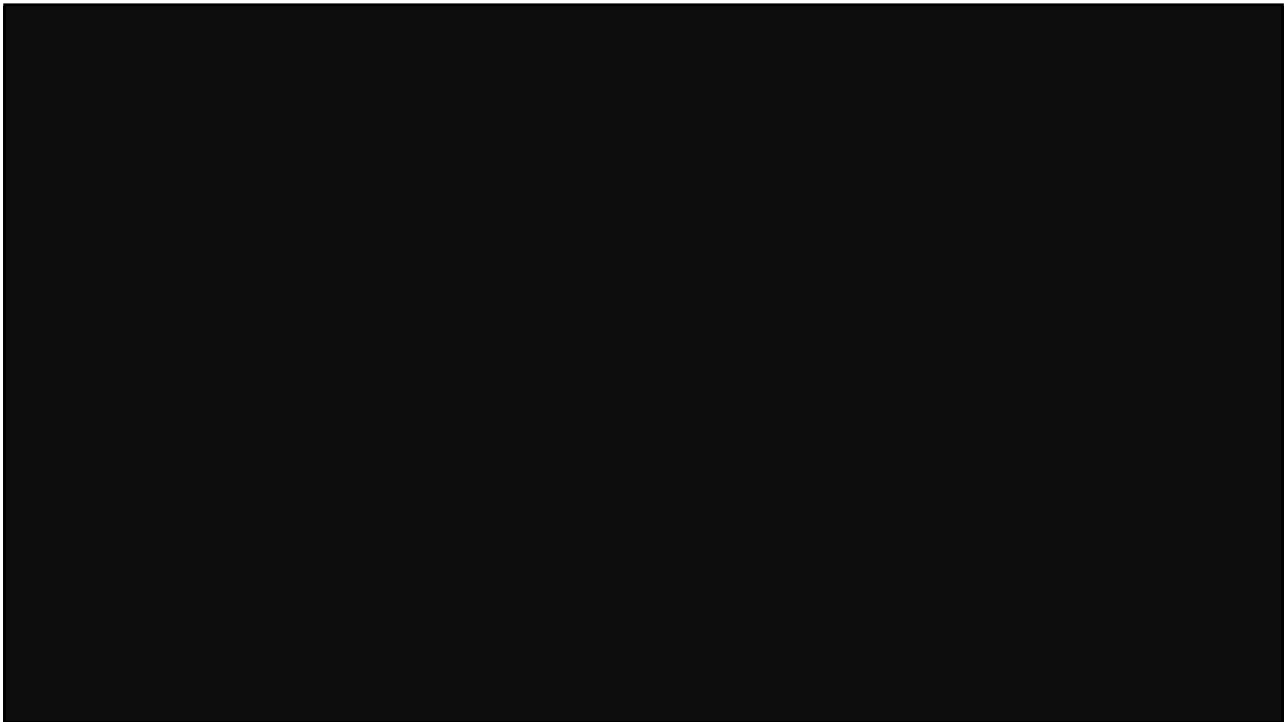


KEY PROJECTS

- Water losses and efficiency program
- Energy self-production program
- Rotorcraft digital twin
- Sustainable Aviation Fuels (SAF)
- Virtualization of flight hours

Leonardo Commitments in line with ambitious climate targets with key projects in the pipeline to support the Energy Transition





THANK YOU
FOR YOUR ATTENTION

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