

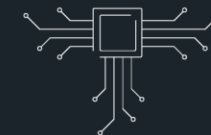


FULL SPECTRUM CAPABILITY

GLOBAL DEFENCE HELICOPTER 2024

Warsaw, Poland

22/10/24



Electronics



Helicopters



Aircraft



Cyber &
Security



Space



Aerostructures

FULL SPECTRUM CAPABILITY

Leonardo focus on achieving Global Security

it works across multi-domains, within a digital continuum, granting the ability to orchestrate, at different levels, terrestrial, aerial, maritime, space and cyber activities in current operational theatres.



RICH HERITAGE ACROSS ALL DOMAINS

HELICOPTERS



- 1907 Giovanni Agusta AG1 first flight
- 1915 Westland Aircraft Works
- 1951 PZL Swidnik
- 1981 Agusta Aerospace Corporation subsidiary
- 2001 AgustaWestland joint venture

AIRCRAFT - AEROSTRUCTURES



- 1913 Nieuport-Macchi
- 1930 Macchi-Castoldi M.C.72 Aircraft
- 1969 Aeritalia
- 2012 Alenia Aermacchi joint venture

DEFENCE ELECTRONICS



- 1864 Officine Galileo followed by San Giorgio, Officine Marconi and UK (Wireless Telegraph & Signal Company, Plessey, Ferranti) converges to form Selex ES in 2013
- 1953 First naval sightseeing radar AN/TPS 1D

1897 Establishment of initial incorporating entity

1948 Finmeccanica

2016
LEONARDO
One Company

DEFENCE SYSTEMS



- 1886 Breda
- 1875 Torpedo Fabrik R. Whitehead, becomes WASS in 1955
- 1905 Vickers – Terni, becomes Oto Melara in 1955
- 1957 76/62 naval gun

SPACE



- 1961 Telespazio
- 1985 Giotto Mission (Halley Comet rendezvous)
- 1996 Officine Galileo and FIAR merge: Space Business Unit
- 2004 Rosetta Mission (Land on Comet)
- 2005 Space Alliance

CYBER - AUTOMATION



- 1905 San Giorgio Company
- 1969 Elettronica San Giorgio - Elsag
- 1973 Selenia GP-160 microcomputer sold by Olivetti
- 2000 First Security Operation Center



COMPANY PROFILE

Leonardo is a global industrial group that builds technological capabilities in Aerospace, Defence & Security. The company plays a leading role in

major international strategic programmes and is a trusted technological partner of governments, defence agencies, institutions and businesses.

PEOPLE WORLDWIDE



53,566 Total Workforce



62%

33,306

Italy



15%

8,106

United Kingdom



14%

7,329

United States



5%

2,913

Poland



4%

1,912

Rest of the world

4 Domestic markets



111

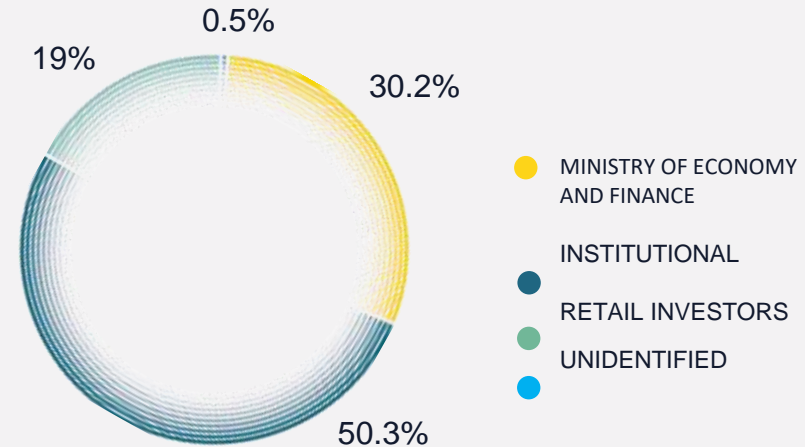
sites worldwide



150 countries

commercial presence

SHAREHOLDER COMPOSITION



32% of investors are signatories of the Principle for Responsible Investments (PRI)

Chairman
Stefano Pontecorvo

Chief Executive Officer and General Manager
Roberto Cingolani

Co-General Manager
Lorenzo Mariani

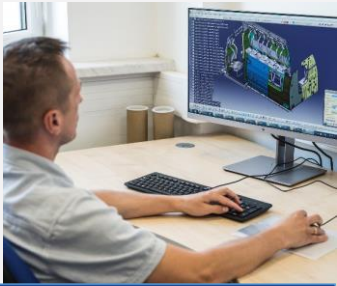
MAIN SHAREHOLDINGS AND JOINT VENTURES INTERNATIONAL

Leonardo UK	100%	Kopter	100%	PZL-Świdnik	100%	Leonardo DRS	72.3%	Telespazio	67%	ATR	50%
Elettronica	31.33%	Thales Alenia Space	33%	Avio	29.63%	Hensoldt	22.8%	MBDA	25%		



PZL-ŚWIDNIK – INDUSTRIAL PILLAR OF LEONARDO IN POLAND

- PZL-Świdnik is a only Polish helicopter OEM with full industrial capabilities.
- Almost 80% of all helicopters delivered to the Polish Armed Forces were produced in PZL-Świdnik.
- More than 7400 helicopters delivered to over 40 Countries since company established.



ENGINEERING



MACHINING



COMPOSITES



COATINGS & TREATMENTS



SHEET METAL
& AEROSTRUCTURES

FINAL ASSEMBLY



FLIGHT TESTS



CUSTOMER SUPPORT



MRO



TRAINING



PZL-ŚWIDNIK - PRIME CONTRACTOR FOR LEONARDO HELICOPTERS IN POLAND

- As a prime contractor of Leonardo Helicopters Division, PZL-Świdnik has delivered 4 of AW101 and is delivering 32 AW149 helicopters for the Polish Army.
- Based on its own unique capabilities as helicopter OEM, PZL-Świdnik supported by LHD can provide a comprehensive integrated training solution for Polish MoD to respond to their demands.



PZL/LHD helicopters currently in service in Polish Army



5 of 32 AW149



4 x AW101



PZL-Świdnik proposition of integrated training solution for the armed forces:

- AW109 Trekker M - light multirole helicopter 100% produced in Poland
- Training system (simulators and trainers)
- Logistics package

PZL-Świdnik as the focal point of a comprehensive integrated system for logistical security, servicing and maintenance of helicopters and simulators.





MULTI-DOMAIN AGILITY

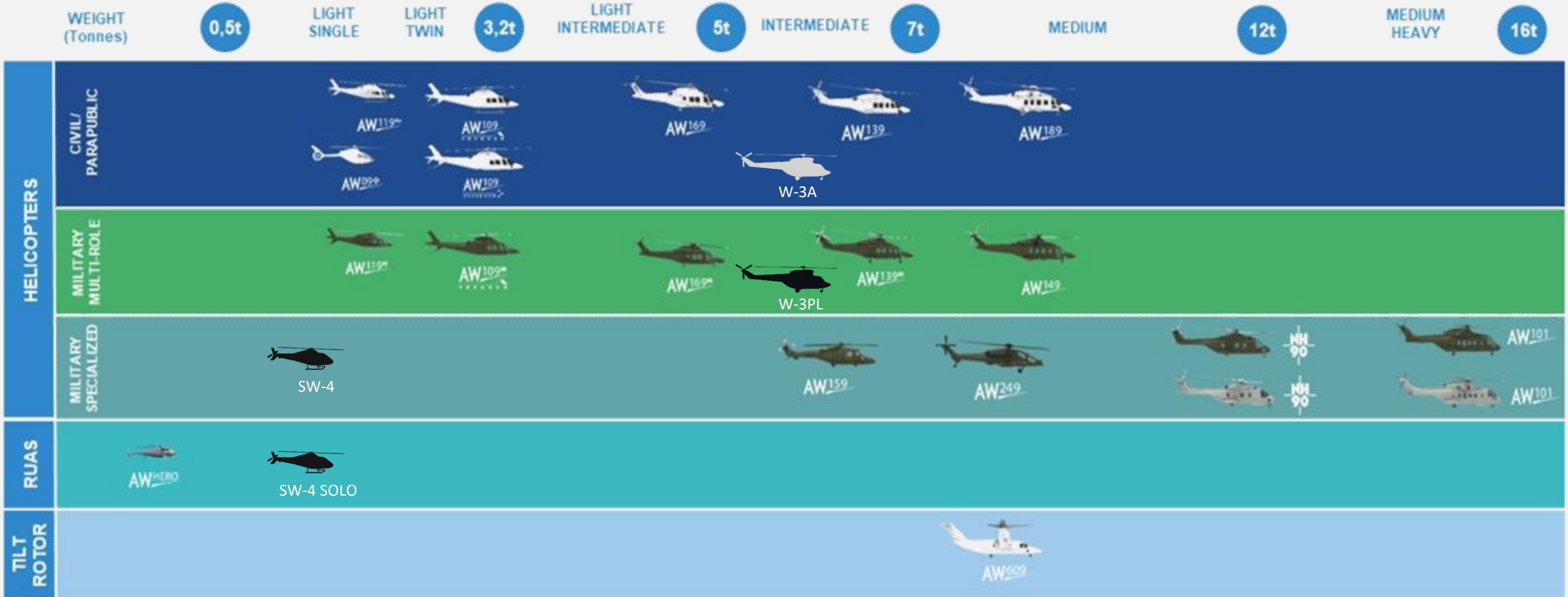


CUSTOMER SUPPORT, SERVICE & TRAINING



ROTARY WING SOLUTIONS

Our technologically advanced products include dual-use and specialised helicopters across all weight classes.



'MIYSIS' DIRECTED INFRARED
COUNTERMEASURE (DIRCM)

'SAGE' ELECTRONIC
SUPPORT MEASURE (ESM)

SURVEILLANCE
RADAR

COUNTERMEASURE
DISPENSING SYSTEMS (CMDs)

STANDALONE/INTEGRATED
THREAT WARNING DISPLAY

LEONARDO YOUR TOTAL CAPABILITY PROVIDER

INTEGRATED MISSION SYSTEMS
(IMS) - MISSION DATA GENERATION,
ANALYSIS AND REPLAY

'MAPPS' INTEGRATED
DEFENSIVE AIDS CONTROLLER

'SEER' RADAR WARNING
RECEIVER (RWR)

'RALM' LASER
WARNING RECEIVER

MAIR (MULTIPLE APERTURE INFRARED)
IR THREAT WARNING SYSTEM



LEADING THE FUTURE

DIGITAL CONTINUUM



LABS



“OUR DIGITAL CONTINUUM IS AN OVERWHELMING WAVE THAT CONVEYS LEONARDO LABS’ MOST DISRUPTIVE TECHNOLOGIES THROUGHOUT THE ENTIRE COMPANY’S ORGANIZATION AND VALUE CHAIN, ENHANCING OUR INDUSTRIAL HERITAGE AND DELIVERING THE BEST SOLUTIONS TO OUR CUSTOMERS.”



MARKET



1st place
in Italy

and 2nd among European A&D companies for R&D investment



13,000
people

involved in R&D and engineering



Collaborations with
90 + universities
and research centres

144 PhDs
in Italy and the UK with
46 universities in both countries



60%
of employees with STEM qualification

6.6
petaflops

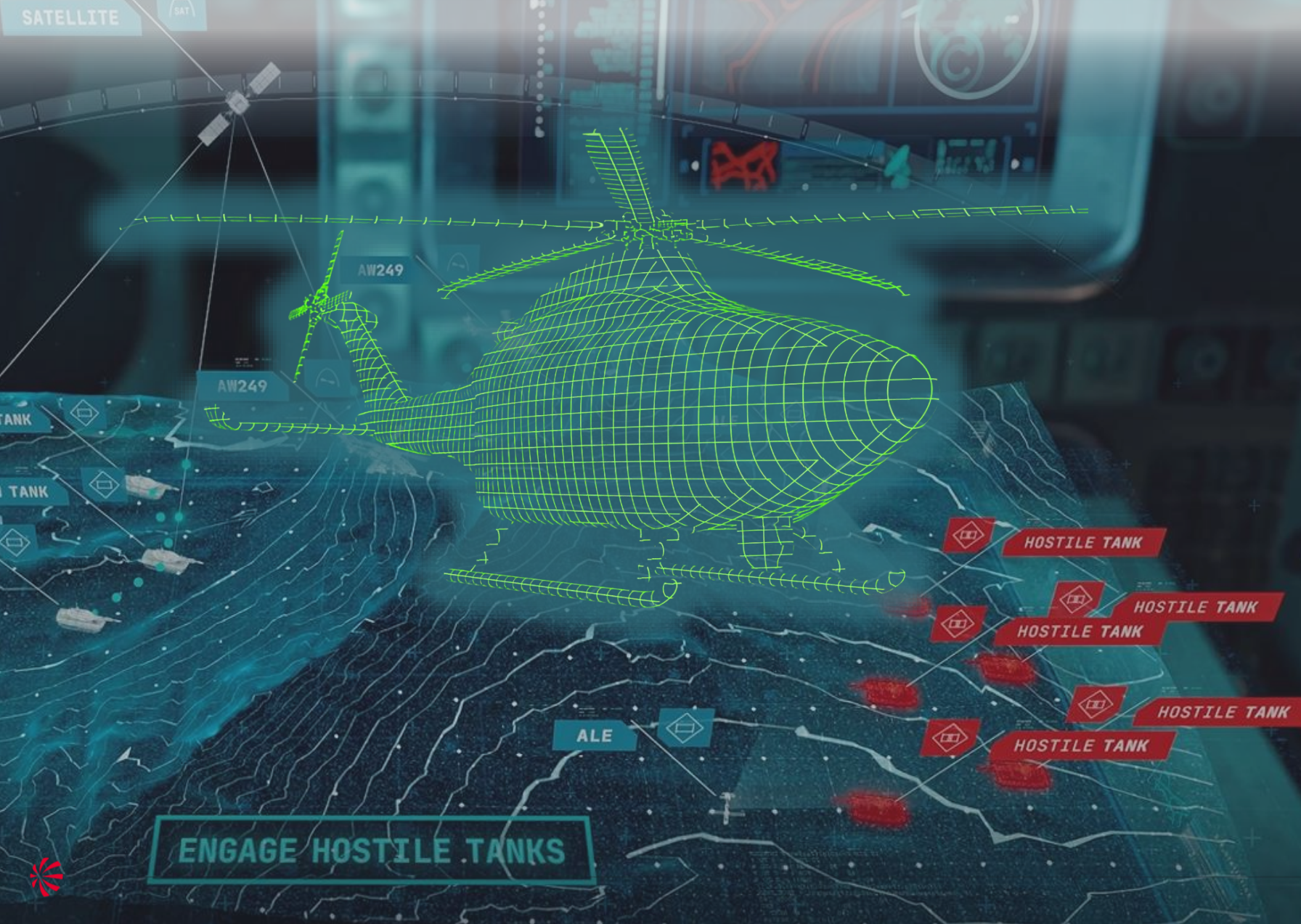
of computing power

31.9
petabytes

of storage capacity



REASONS FOR AUTOMATION/AUTONOMY



**IMPROVE
SAFETY**



**GREATER
EFFICIENCY**



**REDUCE
WORKLOAD**



**ENHANCE
MISSION EFFECT**



**COST
EFFECTIVE**



**AUTONOMY IN
SUPPORT &
LOGISTICS**

AUTONOMY IN AUTOMOTIVE



Level 0
MANUAL OPERATION

The icon shows a white silhouette of a driver with hands on a red steering wheel. The background features a blurred street scene with cars and a yellow warning triangle.



Level 1
ASSISTED OPERATION

The icon shows a white silhouette of a driver with hands on a yellow steering wheel. The background shows a car with a blue bounding box and a 'Driving' label.



Level 2
TASK REDUCTION

The icon shows a white silhouette of a driver with hands on an orange steering wheel. The background shows a speedometer reading '48 mph'.



Level 3
SUPERVISED
AUTOMATION

The icon shows a white silhouette of a driver with hands on a green steering wheel. The background shows a futuristic dashboard with various data points.



Level 4
MANAGE BY
EXCEPTION

The icon shows a white silhouette of a driver with hands on a blue steering wheel. The background shows a futuristic dashboard with various data points.



Level 5
FULL AUTOMATION

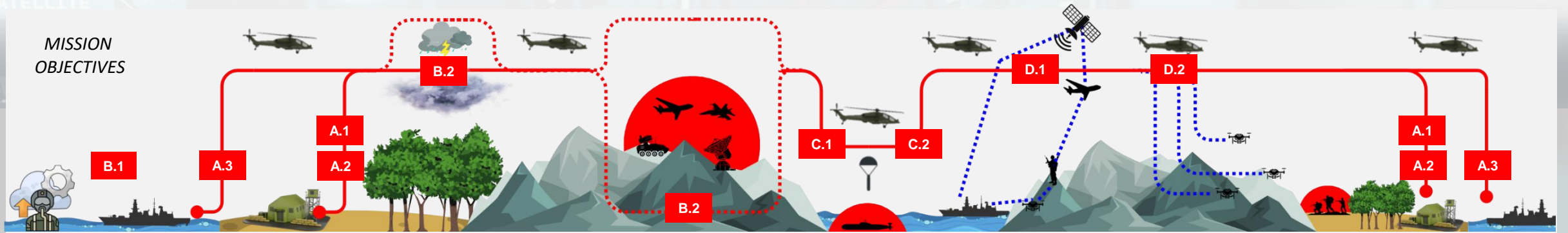
The icon shows a 3D-rendered driver in a blue suit holding a red book. The background is a blurred street scene.



AUTOMATION AND AUTONOMY AT WORK

SATELLITE

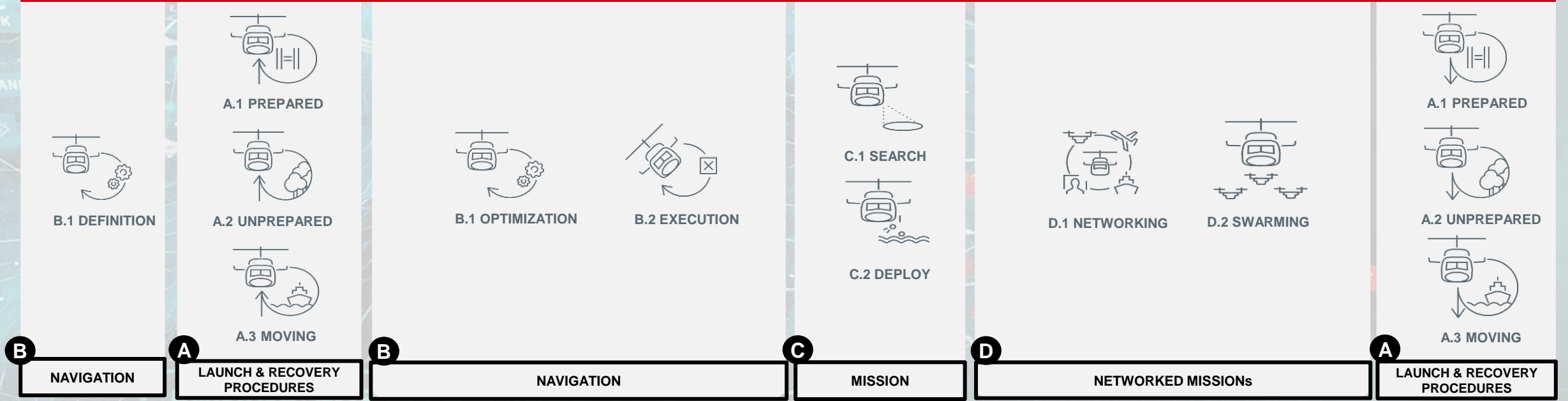
MISSION OBJECTIVES



VFR, GNSS, DATALINK

DVE - IFR

GNSS DENIED



CREWED UN-CREWED TEAMING & ALE



LEONARDO/CALLEN-LENZ
AW159 WILDCAT AND UAV
MISSION MANAGEMENT AND
INTEGRATION DEMO
OCTOBER 2020



LEONARDO/ANDURIL
AW159 WILDCAT AND ALTIUS 600
COOPERATION AND C2 TRIAL
DECEMBER 2022



LEONARDO/EU Partners
AW189 & SW-4 SOLO OPV
TEAMING DEMONSTRATION
OCTOBER 2024

BRITESTORM – THE FUTURE OF ELECTRONIC WARFARE



Designed for easy
integration
into UAS & ALE



Future Proof
Mission
reprogrammable



Operational effectiveness
**Detect. Identify.
Counter.**



Light Weight
2.5kg



Low Volume
3.5l



AT THE FOREFRONT OF FUTURE ROTORCRAFT INITIATIVES A LEADING PLAYER IN TILTROTOR TECHNOLOGY

CIVIL INITIATIVE



LEONARDO - NGCTR Technology Demonstrator



ENGRT

ROADMAP TO NEXT GENERATION ROTORCRAFT

NGRC

Next Generation Rotorcraft Capability



NGRC

NATO NEXT GENERATION ROTORCRAFT

Leonardo, with Bell support, has been contracted the NATO NGRC Concept Study #5 (Integrated Platform Concepts).

Leonardo and Bell entered into an MOU to evaluate cooperation opportunities in the tiltrotor technology domain.



ENGRT

EUROPEAN NEXT GENERATION ROTORCRAFT TECHNOLOGIES

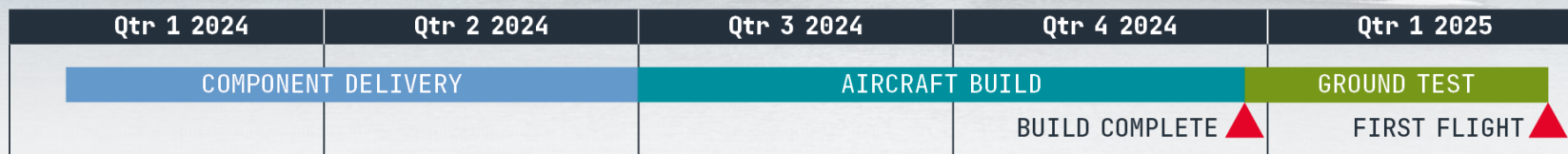
ENGRT Phase 1 performed by a Consortium co-led by Leonardo and Airbus with more than 20 EU Partners

ROTARY WING UNCREWED AIR SYSTEM

PROTEUS



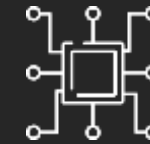
TECHNOLOGY DEMONSTRATOR TIMELINE >>>>>



Weight Class
c3000kg



Modular Payload Bay
1000Kg+



Roadmap to
Full Autonomy



Reduced Costs & Risk
Common Platform Architecture



Range and Endurance
6hrs Endurance
500nm+





THANK YOU
FOR YOUR ATTENTION

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