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PRESS RELEASE

Leonardo's new MAIR system shows off multi-sensor Infra-Red coverage capabilities on first test flight

- The Multiple Aperture Infra-Red (MAIR) was installed on a testbed helicopter and flown along Italy's coast, demonstrating its ability to gather and process information from multiple Infra-Red cameras simultaneously
- MAIR will provide both rotary and fixed-wing aircraft with full spherical IR sensor coverage, delivering capabilities including missile warning, imaging and target tracking
- Leonardo continues to invest in new airborne sensors and mission systems to provide advanced capabilities that meet the evolving needs of customers

Rome, 3 September 2019 – Following its launch in June at the Paris Air Show, Leonardo has successfully conducted the first test flight of its Multiple Aperture Infra-Red (MAIR) system, which provides crews with spherical missile warning, Hostile Fire Indication (HFI), day and night imaging and Infra-Red Search and Track (IRST) functionality. The MAIR system has been installed on a testbed helicopter and departed from La Spezia on the coast of Italy on a round-trip flight path which took it past nearby Genova. During the test, the MAIR operated as expected and was able to record data throughout the flight. Further flights will now take place to verify the MAIR's full suite of modes.

MAIR works by using a series of distributed Infra-Red (IR) sensors to provide complete spherical coverage for aircraft crews. In its missile warning mode, MAIR is able to detect incoming missiles and differentiate them from other heat sources, delivering a high probability of detection and early warning with a low false alarm rate, even in heavily cluttered environments. This level of performance is possible due to MAIR's proprietary processing techniques which draw on Leonardo's years of experience in providing Infra-Red Search and Track (IRST) systems, such as the Skyward-G which equips Saab's Gripen E combat aircraft and the PIRATE which has been operationally-proven on board the Eurofighter Typhoon.

Leonardo sees a growing demand for systems like MAIR as Armed Forces continue to be threatened by heat-seeking missiles. While the testbed aircraft being used for this trial campaign is a rotary-wing platform, MAIR is platform-agnostic and can also be integrated on fixed-wing combat aircraft as well as larger transport and surveillance aircraft. As well as providing situational awareness, MAIR can boost survivability by automatically cueing protective measures such as the Company's Miysis Directed Infra-Red CounterMeasure (DIRCM) system in response to threats. In this scenario, MAIR would detect, track, classify and declare if an incoming missile is a threat and then pass the information to Miysis, which would then defeat the missile by shining a laser precisely onto its seeker, steering the missile away from the host aircraft.

Leonardo, a global high-technology company, is among the top ten world players in Aerospace, Defence and Security and Italy's main industrial company. Organized into five business divisions, Leonardo has a significant industrial presence in Italy, the United Kingdom, Poland and the USA, where it also operates through subsidiaries such as Leonardo DRS (defense electronics), and joint ventures and partnerships: ATR, MBDA, Telespazio, Thales Alenia Space and Avio. Leonardo competes in the most important international markets by leveraging its areas of technological and product leadership (Helicopters, Aircraft, Aerostructures, Electronics, Cyber Security and Space). Listed on the Milan Stock Exchange (LDO), in 2018 Leonardo recorded consolidated revenues of €12.2 billion and invested €1.4 billion in Research and Development. The Group has been part of the Dow Jones Sustainability Index since 2010.