

PRESS RELEASE

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International industry partners announce collaboration agreement for GCAP advanced electronics

The Global Combat Air Programme (GCAP)'s ISANKE & ICS domain (Integrated Sensing and Non-Kinetic Effects & Integrated Communications Systems) brings together the defence electronics powerhouses from three nations.

At the DSEI Japan exhibition in Tokyo, the national industry champions for advanced defence electronics representing Japan, the UK and Italy have announced the signing of a collaboration agreement, the next formal step towards a permanent industrial construct.

The companies: Mitsubishi Electric representing Japan, Leonardo UK representing the UK and both Leonardo and Elettronica representing Italy, have agreed to forge a closer business relationship and assess appropriate commercial and international operating models, readying the partners for the next stage of the GCAP programme. This will happen in parallel with ongoing research and development work by all partners.

As the defence electronics champions for each of the three GCAP nations, each partner brings a wealth of relevant expertise to the ISANKE & ICS domain. In Japan, Mitsubishi Electric has already been involved in development work for advanced electronics under the country's next generation F-X programme. In Italy, Leonardo and Elettronica have been involved in maturing cutting-edge future combat multi-domain technologies including sensors, communications and data/information fusion as part of the Italian Defence Technology Initiative. Leonardo UK is a founding member of the UK's Tempest project, formed in 2018 to develop 6th generation combat air technologies.

Together, the three-nation team will collaborate to form the **ISANKE & ICS domain**, responsible for the advanced electronics on-board the GCAP platform. This will provide the aircrew with information advantage and advanced self-protection capabilities.

ISANKE will unlock the potential of sixth generation tactical sensing. It transitions from the traditional combat air model of individual airborne sensors to instead providing a fully integrated sensing, fusion and self-protection capability that draws on a spider's web of sensing and effecting nodes across each platform. ICS will allow ISANKE to operate as a network across formations of crewed and uncrewed aircraft, as part of each nation's wider, multi-domain system-of-systems. ISANKE & ICS will also ensure that the three GCAP nations can interoperate with allies in joint operations.

Integrated across the five domains: air, land, sea, space and cyber, the GCAP core platform will rapidly manage a large amount of data, providing aircrew with the information superiority they will need to succeed in complex and contested battlespaces, as well as contributing valuable intelligence to other operators. This makes the 6th generation ISANKE & ICS domain substantially more capable compared to previous generation operational capabilities.

To deliver this capability, the ISANKE & ICS domain partners recognise that legacy programme structures, infrastructure and performance metrics need to be reevaluated in order to set the pace required to meet the transformative programme's 2035 target. The new agreement includes joint recognition of fundamental principles of working which will unlock this pace, while meeting customer requirements for a spirit of equal partnership by the three nations and creating an approach that meets each nation's ambitions in terms of



integrated mission support, freedom of action and freedom of modification. As the parties work towards a permanent commercial construct to deliver the domain, national requirements for industrial capabilities and principles of shared intellectual property will be considered in the spirit of a fully integrated tri-national programme.

In this process, all of the companies involved are able to draw on experience and lessons learned from major international collaborations, in many cases having worked closely together previously. For example, Mitsubishi Electric has played a key role in Japan's F-2 programme. With Leonardo as a partner in the Eurofighter Typhoon programme, both UK and Italian teams at the company work on the E-scan radar for the aircraft as part of the EuroRADAR consortium, while Leonardo UK and Elettronica already collaborate to deliver the defensive aids sub system for the Typhoon as design authorities in the EuroDASS consortium. These collaborations have developed critical capabilities for the Eurofighter Typhoon throughout the life of the programme and will continue to do so in the years to come. Leonardo UK and Mitsubishi Electric have also been working since 2018 on the UK-Japan JAGUAR radar technology programme and have developed a relationship that is highly workable, highly cooperative and very trusting.

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About Mitsubishi Electric Corporation

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its "Changes for the Better." The company recorded a revenue of 4,476.7 billion yen (U.S.\$ 36.7 billion*) in the fiscal year ended March 31, 2022. For more information, please visit www.MitsubishiElectric.com

*U.S. dollar amounts are translated from yen at the rate of ¥122=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2022

Leonardo, a global high-technology company, is a leader in the international Aerospace, Defence and Security sector. Organised 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 that include Leonardo DRS (defense electronics), and joint ventures and partnerships: ATR, MBDA, Telespazio, Thales Alenia Space and Avio. Leonardo competes in international markets by leveraging its areas of technological and product leadership (Helicopters, Aircraft, Aerostructures, Electronics, Cyber & Security Solutions and Space). Listed on the Milan Stock Exchange (LDO), in 2021 Leonardo recorded consolidated revenues of €14.1 billion and invested €1.8 billion in Research and Development. The company has been part of the Dow Jones Sustainability Indices (DJSI) since 2010 and has been confirmed among the global sustainability leaders in 2021. Leonardo is also included in the MIB ESG index.

Elettronica has been at the forefront of Electronic Warfare for 70 years, supplying over 3000 high-tech systems to the armed forces and governments of 30 countries. Elettronica's systems are designed for a variety of operational missions, from strategic surveillance, self-protection, intelligence gathering, electronic defence and operational support for the sea, land and air domains. The company boasts a strong list of successful national and international collaborations on major programmes like the Tornado fighter, the Eurofighter Typhoon combat aircraft, the NH-90 helicopter, the Italian offshore patrol vessel and the Franco-Italian Horizon and FREMM warships. The company is part of Gruppo Elettronica which also includes CY4GATE, specialising in Cyber EW, Cybersecurity and Intelligence, EIT GmbH, a German subsidiary specialising in the design of Homeland Security systems and EITHub focused on research, innovation and fast prototyping.