AAC Clyde Space presents INFLECION: Safer Oceans, Smarter Shipping, and Greener Future

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AAC Clyde Space is delighted to announce the start of the INFLECION project, a transformative initiative made possible by a newly signed 0.85 MEUR (approx. 9.5 MSEK) contract with the European Space Agency (ESA). This order covers the first phase, which will be completed by the end of 2025. This marks the beginning of a project that will transform maritime domain awareness (MDA) through advanced satellite technology.

INFLECION is a game changer for global maritime operations, addressing critical challenges and significantly enhancing safety, efficiency, compliance, and environmental sustainability. The total value of the INFLECION project is estimated at 30.7 MEUR (approx. 350 MSEK) and is co-funded at 50% by the UK Space Agency through an ESA Advanced Research in Telecommunications Systems (ARTES) Partnership Project within ESA's Connectivity and Secure Communications.

The project will result in a new satellite constellation, with the system fully operational by 2028. AAC Clyde Space will immediately start signing customer service agreements for data delivery.

"INFLECION is a key step in AAC Clyde Space's strategy to grow Space Data as a Service," says **Luis Gomes, CEO of AAC Clyde Space.** "With this project, we are using space technology to tackle real challenges in the maritime industry. Together with our partners, we are setting a new standard for safety, efficiency, and sustainability at sea."

"The maritime industry faces unprecedented challenges from supply chain disruptions and shifting trade patterns. INFLECION will provide the space-based tools needed to navigate these challenges while protecting our marine environment," says **Laurent Jaffart, ESA Director of Connectivity and Secure Communications.**

Shipping accounts for 80 percent of global transport. Approximately 90 percent of all goods in international trade are transported by sea. But even though two-thirds of the Earth's surface is covered by water, oceans and harbours still get crowded. The maritime industry is undergoing significant changes driven by supply-chain disruptions, shifting global trade patterns, and geopolitical tensions. Recent advancements in technology, regulations, and standards are creating unprecedented opportunities for satellite-based monitoring of maritime activity.

"The modern world relies on shipping, and satellite technology has a vital role to play in making it safer, smarter, and more sustainable. INFLECION is an excellent example of this – the project will enhance connectivity and deploy cutting edge radar technology from space, setting new standards for the industry and helping to protect our marine environment now and for future generations," says **Henny Sands, Head of Telecoms at the UK Space Agency.**

INFLECION combines the latest in VHF Data Exchange System (VDES), Signal Intelligence (SIGINT), and Synthetic Aperture Radar (SAR) technologies. This comprehensive solution offers real-time insights for vessels at sea, shipping companies, insurers, environmental agencies, and coastal authorities. It helps to improve efficiency, cut emissions and combat illegal activities. INFLECION also supports the transition to the International Maritime Organization's (IMO) e-Navigation strategy by improving communication between ships, shores, and satellites, making navigation safer and more efficient while reducing paperwork and human errors.

"The technological brilliance of INFLECION is its integration of VDES, SIGINT, and SAR technologies. They offer powerful tools for addressing challenges in global shipping and coastal monitoring. This innovative system will help improve safety, detect illegal activities, and protect critical marine ecosystems," says **Andrew Carrel, President of Data and Services at AAC Clyde Space**.

INFLECION is the result of a unique partnership uniting the expertise of AAC Clyde Space, AST Marine, Bright Ascension, Craft Prospect, Heriot Watt University, Horizon Technologies, ICEYE UK, Omanos Analytics, Nash Maritime, Plymouth Marine Laboratory, Saab UK, and University of Strathclyde. This collaboration brings together the best of UK expertise to deliver a revolutionary MDA solution tailored to the needs of modern maritime operations.

INFLECION's services will:

- **Improve Operational Efficiency**: Enable vessels to optimize routes, reduce fuel consumption, and achieve just-in-time arrivals.
- **Enhance Security**: Detect and address illegal activities like smuggling and unregulated fishing through advanced satellite surveillance powered by AI tools.
- **Support Sustainability**: Protect marine ecosystems and enforce compliance with environmental regulations.

The INFLECION project is developed in three phases:

1. **Definition phase:** Setting needs and requirements. To be completed by end of 2025.
2. **Development phase:** Following the successful completion of phase 1, the second phase entails building prototypes and systems. This phase spans approximately 15 months.
3. **Demonstration phase:** Testing and preparing for commercial use.

The system is expected to be fully operational in 2028.

For more information:

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ABOUT AAC CLYDE SPACE

AAC Clyde Space specialises in small satellite technologies and services that enable businesses, governments and educational organisations to access high-quality, timely data from space. Its growing capabilities bring together three divisions:

Space Data as a Service (SDaaS) – delivering data from space directly to customers
Space missions – turnkey solutions that empower customers to streamline their space missions
Space products and components – a full range of off-the-shelf and tailor-made subsystems, components and sensors

AAC Clyde Space aims, in our chosen markets, to become a world leader in commercial small satellites and services from space, applying advances in its technology to tackle global challenges and improve our life on Earth.

The Group's main operations are located in Sweden, the United Kingdom, the Netherlands, South Africa and the USA, with partner networks in Japan and South Korea.

AAC Clyde Space's shares are traded on Nasdaq First North Premier Growth Market (Ticker: AAC). Carnegie Investment Bank AB is the Certified Adviser. The share is also traded on the US OTCQX- market under the symbol ACCMF.

About ESA's ARTES Partnership Projects programme

The European Space Agency (ESA) is Europe's gateway to space, coordinating the financial and intellectual resources of its Member States to conduct space programmes and activities. The Partnership Projects programme line of ESA's Advanced Research in Telecommunications Systems (ARTES) drives innovation by federating ambitious large-scale, long-term collaborations between ESA, private companies, and satellite operators. The programme establishes ESA as a key partner in developing major satellite communication systems, new value-adding solutions and services, and providing in-orbit validation. It focuses on substantial, industry-shaping initiatives that require significant investment spanning over several years.

By closely aligning technological ambition with commercial strategy, ARTES Partnership Projects enable European and Canadian organisations to push the boundaries of satellite communications and strengthen their competitiveness on the global market.

Learn more at https://connectivity.esa.int/partnership-projects