



## AAC Clyde Space to develop AI capability with ESA funding

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Leading New Space company AAC Clyde Space's subsidiary AAC Hyperion has acquired a contract to develop an onboard artificial intelligence (AI) capability for small satellites in collaboration with the Royal Netherlands Aerospace Centre (NLR). The European Space Agency (ESA) will fund the project with EUR 0.41 M (approx. SEK 4.2 M) sponsored by the Netherlands Space Office (NSO). The funding comes through ESA's General Support Technology Programme (GSTP).

The AI product, consisting of hardware, software and a demonstration algorithm, will be developed jointly by Hyperion and NLR. Hyperion specializes in electronics and miniaturized subsystems for small satellites and NLR brings in its expertise in AI algorithms applied to Earth observation data.

Primarily, the use of AI onboard small satellites is expected to enable increased use of payloads particularly in Earth observation, as well as for weather and climate monitoring. The data volume of high-resolution images collected by these payloads is so high that not all can be downloaded given the download capacity of small satellites. Through smart processing of the sensor data by dedicated onboard AI hardware and algorithms only reduced data volumes need to be transmitted to Earth.

Onboard AI can also improve satellites' performance beyond Earth observation applications by optimizing data links and upgrading constellation control and navigation. Shorter response times will enable improved decision making on Earth, when monitoring vehicles, ships, production sites, infrastructure, crops and natural disasters from space.

Potential customers have already expressed interest to stay involved in the project throughout the development phase.

*"Our customers have expressed great interest in the project already, which doesn't come as a surprise as the use of AI will increase and improve the capabilities of small satellites. By teaming up with NLR in the AI field, AAC Clyde Space will be able to leapfrog the development of small satellite technology and create many interesting opportunities for our space services,"* says AAC Clyde Space's CEO Luis Gomes.

*"NLR is pleased to support AAC Hyperion in its ambition to improve small satellite capabilities introducing AI onboard satellites as a tool to improve satellite efficiency for Earth observation to the benefit of society,"* says NLR's CEO Michel Peters.

### FOR MORE INFORMATION:

Please visit: [www.aac-clyde.space](http://www.aac-clyde.space) or contact:

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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** – 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 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. Erik Penser Bank AB, e-mail [certifiedadviser@penser.se](mailto:certifiedadviser@penser.se), telephone +46 8 463 83 00, is the Certified Adviser. The share is also traded on the US OTCQX-market under the symbol ACCMF.

#### **About Royal NLR –Netherlands Aerospace Centre**

NLR has been a centre of expertise for over a century now, with a deep-seated desire to keep innovating. It is an organisation that works to achieve sustainable, safe, efficient and effective aerospace operations.

The combination of in-depth insights into customers' needs, multidisciplinary expertise and state-of-the-art research facilities makes rapid innovation possible. Both domestically and abroad, NLR plays a pivotal role between science, the commercial sector and governmental authorities, bridging the gap between fundamental research and practical applications. Additionally, NLR is one of the large technological institutes (GTIs) that have been collaborating over a decade in the Netherlands on applied research united in the TO2 federation.

In the field of space, NLR works closely with both industry and government on developing satellite and launcher systems and subsystems, and on effective use of space infrastructure data through applications using Earth observation and satellite navigation data.

Please visit: <https://www.nlr.org> and <https://www.nlr.org/space/> or contact:

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