# AI-eXpress online Workshop
## March 24th, 10:30 – 12:00 CET

Customers and stakeholders working in space / EO related activities (upstream, midstream, downstream) are invited to join and learn the opportunities to access space offered by AI-eXpress, an activity of the ESA's Φ-lab InCubed programme

## PROGRAMME

10:30 Welcome and presentation

10:35  Introduction of ESA Incubed programme

10:40 AI-eXpress:
- Overview
- Business model
- Opportunities

11:20 Q&A interactive session: Interested to be onboard?

11:50 Conclusion and next steps

**Registration: www.aiexpress.eu**
**Info: aiexpress@planetek.it**

# AI-eXpress - ESA Incubed activity
## A hybrid ecosystem to reshape the EO value chain

Led by Planetek Italia, D-orbit and AIKO, AI-eXpress is an activity co-funded by the ESA Incubed programme, aiming to support innovative and commercially viable EO products and services.

Space mission scenarios are rapidly evolving. Key elements of this evolution can be seen in the New Space Economy approach, from the awareness of the value of Space-based services to the onboard high-performance computing power availability and the availability of big, distributed, satellite data.

Across diverse vertical segments, customers can buy and rely on cloud-based EO services providing insights and actionable information to directly integrate into their core processes, making their business more efficient and effective.

AI-eXpress ($AI^X$) services are born with the final goal to **overcome the sharp separation between upstream and downstream** systems **reshaping the value and supply chain**.

$AI^X$ is a hybrid ecosystem composed of an ever-expanding satellite constellation and a ground cloud-based facility enabling new mission operational concepts which will open up a wide range of opportunities for diverse stakeholders to flourish.

The $AI^X$ system schedules the data acquisition, transforming data into actionable information, raising near real-time alarms if needed.

$AI^X$ exploits the capabilities provided by a novel onboard AI-based framework, by the distributed ledger technologies (blockchain) and their machine-to-machine smart contracts and by a high-performance ground-based computing cluster. Underpinning the $AI^X$ system is an open and diverse marketplace where a plethora of apps can be deployed, configured, purchased and exploited by the $AI^X$ user community.

**For EO algorithm applications and services developers, prototypers, testers and innovative & disruptive operators**, AIX gives you the possibility to:

- Use and process satellite data just after sensing – at the space edge – by using all the AIX blockchain-based HW and SW onboard resources
- Experiment and develop efficient data processing workflows
- Produce timely and accurate information that customers need and at a price, they can sustain.

**For HW and SW space component developers, prototypers, testers and innovative & disruptive operators**, AIX gives you the possibility to:

- Integrate your components onboard of AIX ecosystem
- Perform fast and effect IoV campaigns

**For Companies that want to become shareholders of the $AI^X$ ecosystem**, thanks to the blockchain-based $AI^X$ services, you can:

- Purchase enabling HW and SW technologies and integrate them on your satellites to become part of the $AI^X$ federated constellation
- Embed your space technologies, sensors, memories, radios, on our $AI^X$ spacecraft(s), to be used by all the $AI^X$ customers
- Deploy your app on the $AI^X$ market place.