

IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (E1)  
Interactive Presentations - IAF SPACE EDUCATION AND OUTREACH SYMPOSIUM (IP)

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COMBINING AI AND SATELLITE DATA IN SPACE EDUCATION.

**Abstract**

**Problem.** How to include in education, areas that seem to be very important for the development of the space sector (AI and satellite data) and at the same time encourage young people to follow the space path.

**Project.** The "SpaceShip" Foundation is the implementer of an educational program, the main assumptions of which (in the context of 5 previous editions) were presented during the IAC in Baku in 2023. The current edition called "Cosmic Challenge: Pathfinder/ AI", announced on December 20th, 2023, responds to important directions of development of the space sector - development of AI and the use of satellite data. Additionally, the topic of the current edition concerns the creation of ideas for the business use of satellite data, which seems to be important in the context of the rapid development of the New Space Economy.

**Quality.** To ensure the appropriate substantive quality of the edition, a Strategic Partnership was established with one of the world leaders in the field of satellite data - ICEYE company, which specializes in the use of SAR technology. This partner helped to formulate the theme of the edition, requirements for competition entries and evaluation criteria. In addition, entities such as EUSPA, ESA BIC, POLSA were involved in cooperation as partners/patrons.

**Target group:** Secondary school students (15-18 years old) from all over Poland - this is the group that makes decisions regarding the choice of field of study, so involvement in a challenge/solving an interesting problem related to space may be a strong impulse to pursue "cosmic direction". The prize is also supposed to be such an impulse - a trip to the ESA-ESRIN in Frascati. End of submission of works - 20/03/24, the Final: May 2024. During the challenge, participants - teams consisting of 2 secondary school students and an adult mentor - are to present an idea for "Business use of satellite data with AI".

**Uniqueness:** Business combination of the areas of AI and satellite data in an engaging challenge formula with an attractive prize and the involvement of a global leader in the field (ICEYE).

**Conclusion.** Feedback from the participants of this edition and the solutions proposed by the participating teams will answer the question whether this form of education in key areas for the space sector is engaging and attractive for participants and whether it can be an impulse to undertake space studies/work in this sector.