

# Space Industry in **SLOVAKIA**



# SLOVAK SPACE OFFICE

INDUSTRY UNIT

POLICY UNIT

SARIO  
SLOVAK INVESTMENT AND  
TRADE DEVELOPMENT AGENCY

 **MINISTRY**  
OF EDUCATION, RESEARCH,  
DEVELOPMENT AND YOUTH  
OF THE SLOVAK REPUBLIC



**SECTOR  
DEVELOPMENT**



**INTERNATIONAL  
COOPERATION**



**OUTREACH**



**POLICY  
COORDINATION**



**INTERNATIONAL  
COMMITMENTS  
(ESA, UN, EU)**



**SPACE  
BUDGET**

# INTERNATIONAL SPACE COOPERATION

RELIABLE PARTNER IN EUROPEAN & GLOBAL STRUCTURES



## EUROPEAN SPACE AGENCY

After signing the Cooperation Agreement in 2010 and the European Cooperating State Agreement in 2015, Slovakia joined the Plan for European Cooperating States (PECS) of the European Space Agency (ESA). Since then, **ESA launched 7 PECS calls in Slovakia**. On 13. October 2022 Slovakia became an **Associate Member of the ESA**.

## EUROPEAN UNION

As a member state of the European Union, Slovakia is actively involved in all the key components of the EU space programme including **Galileo, EGNOS, Copernicus, SSA/SST, GovSatCom, or EDA**. Slovak companies and research institutions are also taking part in **Horizon Europe** space projects.



## OTHER INTERNATIONAL INVOLVEMENT



UNITED NATIONS - COPUOS



INTERNATIONAL ASTRONAUTICAL FEDERATION



EUMETSAT



EURISY



GROUP ON EARTH OBSERVATIONS



EUTELSAT IGO



SPACE CLIMATE OBSERVATORY



EUROPEAN CENTRE FOR SPACE LAW



COMMITTEE ON SPACE RESEARCH



INTERNATIONAL ACADEMY OF ASTRONAUTICS



INTERNATIONAL TELECOMMUNICATION UNION



ARTEMIS ACCORDS

## SPACE ECONOMY OVERVIEW

### SLOVAK SPACE COMPANIES IN FIGURES

Slovakia has **more than 60 companies actively involved** in the space economy. On top of that, there are **more than 50 other companies** with a strong potential of entering space - working in relevant areas of sectors such as **electronics, high precision machinery, industry 4.0 and ICT**. Several of them already have initial experience with space projects.



### KEY FIGURES

**60+**

**Companies directly involved** in the space economy with 50+ more active in related areas

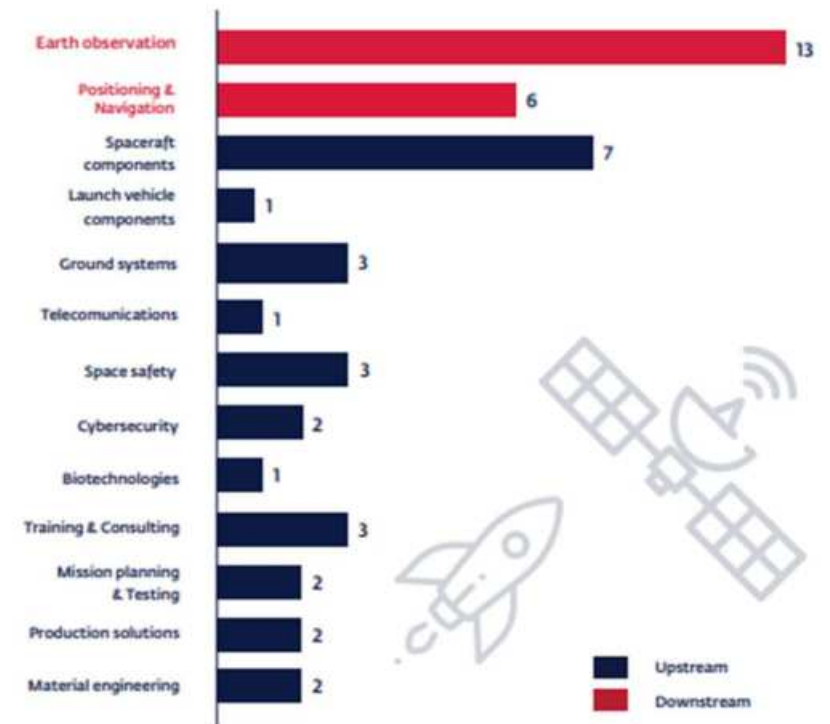
**550+**

**People employed** by companies directly involved in the space economy

**€ 120M+**

**Revenue generated** by companies directly involved in the space economy

### Number of Companies Directly Involved in Space Sector



# HARDWARE AND UPSTREAM LANDSCAPE

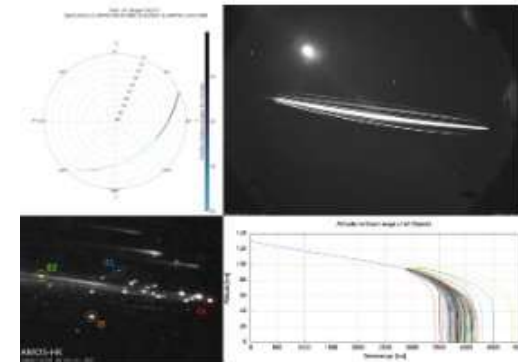
SHOWCASE OF SLOVAK BUSINESS-LED UPSTREAM PROJECTS



**Angular sensors** CTRL



**Optical navigation** M2M Solutions



**Re-entry models / space debris monitoring** Astros Solutions



**Satellite components and integration / sensors** Needronix



**Life support systems** BioX Technologies



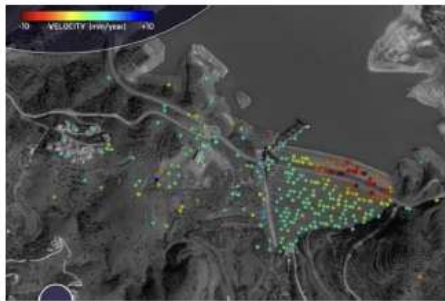
**Complex Machining Technology** MASAM



**High precision reduction gears** SPINEA

## EO LANDSCAPE

SHOWCASE OF SLOVAK BUSINESS LED EO PROJECTS



Infrastructure and land deformation monitoring Insar.sk



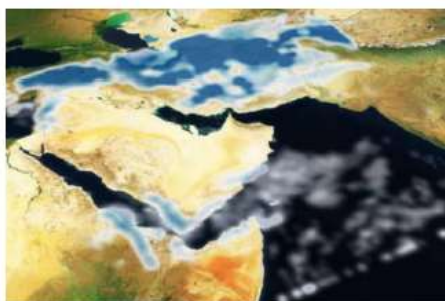
Mining monitoring Photomap



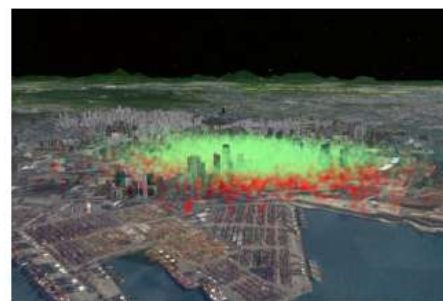
Solar radiation monitoring Solargis



Forest disturbance mapping and monitoring YMS



Meteorological forecasting & modeling  
Microstep MIS & IBL Software Engineering



Radiation monitoring ABmerit



Early warning systems KAJO Services



Habitat monitoring Algoritmy SK



## **NEW VENTURES AND STARTUPS**



## **R&D INSTITUTIONS AND UNIVERSITIES**

- Strong history involving R&D and crewed missions
- Current capabilities (Rosetta, BepiColombo, JUICE, JEM-EUSO)
- Positive trends (e.g. new study programmes)



## **COMPANIES WITH SPIN-IN TECHNOLOGIES**

# BROADENING THE INDUSTRIAL BASE

PROSPECTIVE SOURCES OF FURTHER POTENTIAL

## TECHNOLOGY TRANSFER



TECHNICAL UNIVERSITY  
OF KOŠICE



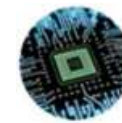
## DIVERSIFICATION / SPIN-IN



Automotive  
Industry



Mechanical  
Engineering



Electrical  
Engineering



ICT





**EMERGING SPACE  
CONFERENCE**



**EUROPEAN SPACE  
ECOSYSTEM  
INTEGRATION SUMMIT**



**SPACEPORT\_sk  
INCUBATOR**



**CANSAT COMPETITION**



**HACKATHONS**



**SPACE CLUSTERS**



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# Spaceport Hackathon

## 2024

Gaming edition

December 6 – 8, 2024

BRATISLAVA

## NEW SPACE FOR YOUR BUSINESS

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# Spaceport\_SK

Batch4 | 6 month incubation program

- ★ Facilities and coaching from hosting space companies and R&D institutions in five locations
- ★ A package of online workshops on topics such as building an effective team, product prototyping, marketing, and legal aspects of a startup
- ★ Feedback on your project from reputable international partners
- ★ Connecting with a network of Slovak space companies and partners
- ★ Preparation to apply for ESA and EU grants
- ★ 3000€ prizemoney for the Demoday winner and opportunity to negotiate with partner investors for an investment of 150+k



<< Inês Castelão  
ESA

### International Advisors



Freddy Geyer >>  
Thales Alenia Space



Peter Vaník >>  
EUSPA



<< Kelli Kedis Ogborn  
Space Foundation



<< Juan Tomás  
Hernani  
YEES & SATLANTIS

INCUBATION  
PARTNERS



PARTNERS



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MINISTRY OF EDUCATION, SCIENCE, RESEARCH AND SPORT OF THE SLOVAK REPUBLIC

# Emerging Space 2023

30.5. – 1.6. 2023 | FEI STU | Bratislava & online

Logos: esa, ESPI, space-tec

INDUSTRY SPACE DAYS 2021 THE CONFERENCE EDITION

7-8 December 2021  
ESA Virtual Event

SLOVAK REPUBLIC | JOINT EXPOSITION

## CATALOGUE OF SLOVAK EXHIBITORS

PARIS AIR SHOW SIAE  
PARIS LE BOURGET EXHIBITION CENTRE | PARIS | FRANCE  
JUNE 19-25, 2021 | WWW.SARIO.SK



EXPO 2020 DUBAI UAE

Postav svoj vlastný satelit

Logos: esa, IAF, SARIO

QR code

CANSAT  
STARTER GUIDE FOR STUDENTS

prihlás sa do stredoškolskej súťaže CANSAT

Logos: innovlab, needronix, STU FEI



SARIO  
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ORGANIZED BY:



HOSTED BY:

مركز محمد بن راشد  
للفضاء  
MOHAMMED BIN RASHID SPACE CENTRE

## 72<sup>nd</sup> INTERNATIONAL ASTRONAUTICAL CONGRESS

25-29 October 2021 | Dubai

Inspire, Innovate & Discover  
for the Benefit of Humankind

IAC2021.ORG



## SARIO'S SPACE ACTIVITIES

BEFORE AND AFTER THE SLOVAK SPACE OFFICE

### 6 YEARS OF SARIO IN SPACE



**25**

COMPANIES ALREADY  
DIVERSIFYING THEIR  
ACTIVITIES TOWARDS  
SPACE



**160+**

OPPORTUNITIES TO ESTABLISH  
LOCAL AND INTERNATIONAL  
COOPERATION FOR SLOVAK  
COMPANIES CREATED



**48**

ENGAGED TEAMS IN  
HACKATHONS AND  
THREE ROUNDS OF  
INCUBATOR



**60**

LOCAL AND INTERNATIONAL  
COLLABORATIONS IN SPACE  
SECTOR GENERATED



**350+**

FOREIGN COMPANIES,  
RESEARCH INSTITUTIONS AND  
OTHER ACTORS MAPPED IN  
THE PARTNER NETWORK



**150%**

INCREASE OF THE  
COMPANIES IN SPACE  
SECTOR

Newsletter | Slovenská vesmírna kancelária



Newsletter Slovenskej vesmírnej kancelárie je určený predovšetkým pre slovenské firmy a výskumno-vývojové inštitúcie. V rámci newsletteru vám budeme posielat aktuálne informácie o projektových výzvach, grantoch, súťažiach a iných príležitostiach, ako aj o rôznych zaujímavých podujatiach na Slovensku aj v zahraničí.

VAŠE EMAIL \*

MEMO

FIRMA

AKÉ INFORMÁCIE VÁS ZAUJÍMAJÚ

ODOSLAŤ

Podmienky ochrany osobných údajov si môžete pozrieť [na www.sario.sk](http://www.sario.sk).



THERE WAS NEVER BETTER TIME TO  
**DO SPACE**  
WITH SLOVAKIA

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SLOVAK  
SPACE OFFICE

TECHNICKÁ UNIVERZITA  
V KOŠICIACH

TECHNICKÁ  
UNIVERZITA  
V KOŠICIACH

Fakulta  
baníctva, ekológie,  
riadenia a geotechnológií

Fakulta  
Strojnícka fakulta

elektrotechniky a informačnej technológie

Stavebná fakulta

ekonomická fakulta

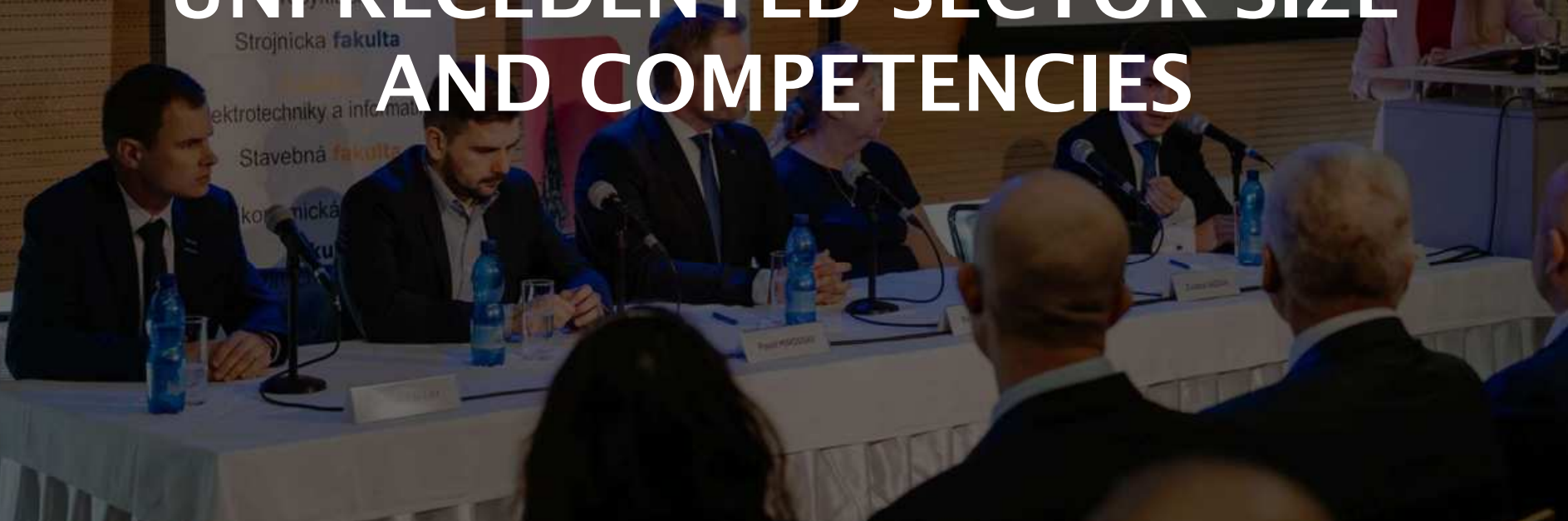
TRUSTED PARTNER  
SINCE 2006

# Východoslovenský Vesmírny Klaster

09:30 - 10:00	Príprava na akciu - registrácia
10:00 - 10:30	Otvorená akcia a prezentácia
10:30 - 10:45	Príprava na akciu
10:45 - 11:00	Príprava na akciu
11:00 - 11:15	Príprava na akciu
11:15 - 11:30	Príprava na akciu
11:30 - 11:45	Príprava na akciu

# UNPRECEDENTED SECTOR SIZE AND COMPETENCIES

Speaker at podium



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# UNPRECEDENTED INTERNATIONAL CONNECTIVITY

Source: Billboard, Czech Republic

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SLOVAK  
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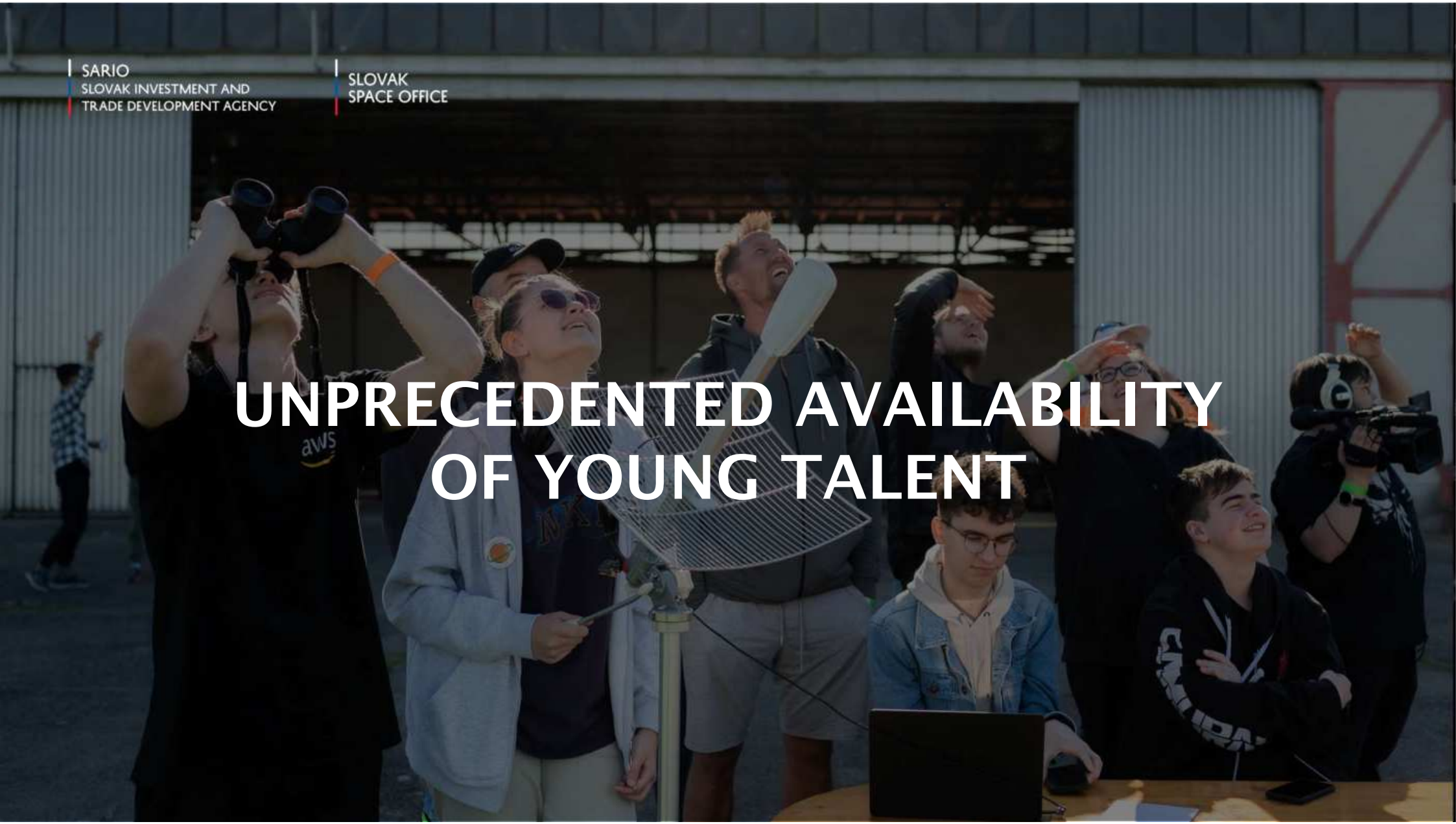


# UNPRECEDENTED FUNDING AND FRAMEWORK AVAILABILITY

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# UNPRECEDENTED AVAILABILITY OF YOUNG TALENT



THERE WAS NEVER BETTER TIME TO  
**DO SPACE**  
WITH SLOVAKIA

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