



**Slovenský vesmírny priemysel pre oblasť downstreamových aplikácií**

# SLOVAK SPACE OFFICE

## INDUSTRY UNIT

## POLICY UNIT

SARIO  
SLOVAK INVESTMENT AND  
TRADE DEVELOPMENT AGENCY

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



**SECTOR  
DEVELOPMENT**



**INTERNATIONAL  
COOPERATION**



**OUTREACH**



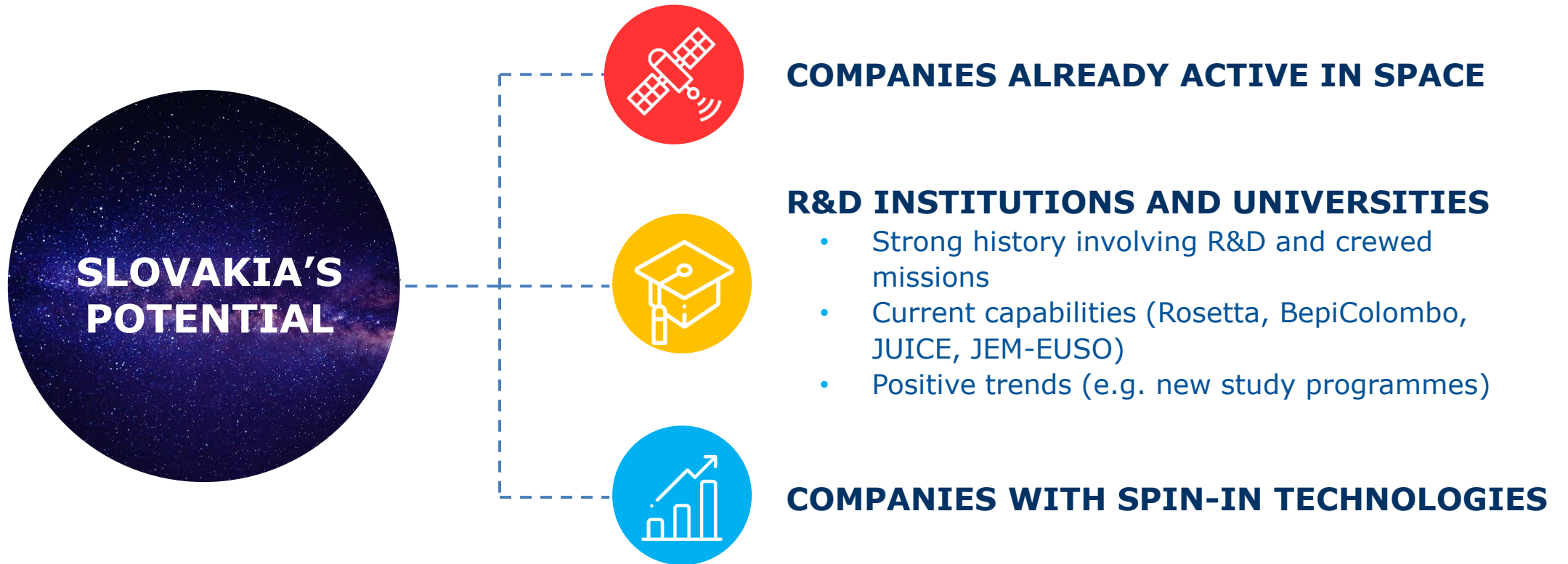
**POLICY  
COORDINARION**



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



**SPACE  
BUDGET**



# BROADENING THE INDUSTRIAL BASE

PROSPECTIVE SOURCES OF FURTHER POTENTIAL

## TECHNOLOGY TRANSFER



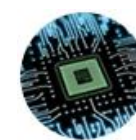
## DIVERSIFICATION / SPIN-IN



Automotive  
Industry



Mechanical  
Engineering



Electrical  
Engineering



ICT



Q-PRODUCTS®



## SARIO'S SPACE ACTIVITIES

BASE FOR THE SLOVAK SPACE OFFICE – INDUSTRY BRANCH

4

Years of systematic work

18

Companies with  
ongoing diversification  
into space

41

International/local  
projects & partnerships  
created

2

Investment Projects  
Generated

## PARTNERS ABROAD





SARIO  
SLOVAK INVESTMENT AND  
TRADE DEVELOPMENT AGENCY

SLOVAK  
SPACE OFFICE

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

# Emerging Space 2023

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

esa

ESPI  
European Space  
Policy Institute

space·tec  
PARTNERS

T  
DEUTSCHE TELEKOM IT SOLUTIONS

SARIO  
SLOVAK INVESTMENT AND  
TRADE DEVELOPMENT AGENCY

SLOVAK  
SPACE OFFICE

## Slovak Space Incubator

- Premises and mentoring from host partners in 3 locations across Slovakia
- Additional mentoring from successful actors in Slovak space and start-up ecosystem
- Feedback on the project from renowned foreign experts
- Support in fundraising and matchmaking with VC players



SLOVAK REPUBLIC | JOINT EXPOSITION

# CATALOGUE OF SLOVAK EXHIBITORS

PARIS AIR SHOW SIAE  
PARIS LE BOURGET EXHIBITION CENTRE | PARIS | FRANCE  
JUNE 19-25, 2023 | WWW.SARIO.SK



**Postav  
svoj  
vlastný  
satelit**

MINISTERSTVO  
ŠKOLSTVA, VEDY,  
VYSKUMU A ŠPORTU  
SLOVENSKEJ REPUBLIKY  
SARIO  
SLOVENSKÁ AGENTÚRA PRE  
KROVVOJ INVESTÍCIÍ A OCHOUDU  
esa  
SLOVENSKÁ  
VESMÍRNA KANCELÁRIA

**CANSAT**  
STARTER GUIDE FOR STUDENTS

**prihlás sa do  
stredoškolskej  
súťaže CANSAT**

DEUTSCHE TELEKOM IT SOLUTIONS  
innovlab  
needronix  
STU  
FEI  
SLOVENSKÁ REPUBLIKA

**INDUSTRY  
SPACE DAYS  
2021** **THE  
CONFERENCE  
EDITION**

**7-8 December 2021**  
ESA Virtual Event



**IAC  
PARIS  
2022**

**73<sup>rd</sup> INTERNATIONAL  
ASTRONAUTICAL CONGRESS**  
PARIS, FRANCE, 18 – 22 SEPTEMBER 2022

*Space for @ll*

**IAC  
2023  
BAKU**

**74<sup>th</sup> INTERNATIONAL  
ASTRONAUTICAL  
CONGRESS**

2-6 OCTOBER 2023  
BAKU, AZERBAIJAN  
Global Challenges  
and Opportunities:  
Give Space a Chance

WWW.IAC2023.ORG

ORGANIZED BY:  
azercosmos





**eurisy**  
ACTING COLLECTIVELY TO  
BRIDGE SPACE AND SOCIETY

## MEMBERS' CORNER

### FOCUS ON THE SLOVAK SPACE OFFICE

Supporting technology transfer for  
sustainable cities and communities

**21 OCT 2022**  
11:00 – 12:00

## Satellite-based Services for Disaster Risk Management

30th November 2023  
9:00 – 15:00 CET  
SLOVAK UNIVERSITY OF TECHNOLOGY IN BRATISLAVA,  
Faculty of Informatics and Information Technologies,  
Ilkovičova 2  
Bratislava, Slovakia



**EUSPA** **eurisy** **SLOVAK SPACE OFFICE**

Slovak Space Office of the Ministry  
of Education, Science, Research and  
Sport of the Slovak Republic and  
Slovak Investment and Trade  
Development Agency (SARIO)

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

SARIO  
SLOVAK INVESTMENT AND  
TRADE DEVELOPMENT AGENCY

## Spaceport Hackathon 2023

Topic: Satellite data  
processing for humanitarian  
and development aid.

December 8 – 10, 2023

**UNIZA Žilina**

**SARIO**  
SLOVAK INVESTMENT AND  
TRADE DEVELOPMENT AGENCY

**SLOVAK  
SPACE OFFICE**

## CASSINI Hackathon

### Slovakia Ahoj!



**UM**  
UNIPO MAPPERS

Join us to celebrate geography  
and make maps with OpenStreetMap

**#osmgeoweb**

## Mapping Tomorrow with OpenStreetMap

**Part #1**

**TASK** Unveiling the Missing Buildings in the  
Prešov Region for Better Decision Making

**Our special guests:**  
Martin Ždila, Freemap.sk  
Denis Sedlák, Slovak Space Office

Nov 16, 2023  
9 am - 11:30 am  
University of Prešov  
Room 1.01 KC

Register here:



**youthmappers** **TeachOSM** **freemap.sk** **SLOVAK SPACE OFFICE** **PREŠOVSKÝ SAMOSPRÁVNÝ KRAJ**

**Urban Mobility** **Co-funded by the European Union**

**CITYTHON 2022**  
KOŠICE

01.-03.  
JULY 2022

**KAJO** **hajoservices.com** **TECHNICAL UNIVERSITY OF KOŠICE** **CARNET**  
FUTURE MOBILITY RESEARCH HUB

**Urban Mobility** **Co-funded by the European Union**

**CITYTHON 2022**  
ŽILINA

29. APRIL  
01. MAY  
2022

**KAJO** **hajoservices.com** **UNIVERSITY OF ŽILINA** **CARNET**  
FUTURE MOBILITY RESEARCH HUB



## Newsletter | Slovenská vesmírna kancelária



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

VÁŠ EMAIL \*

MENO

FIRMA

AKÉ INFORMÁCIE VÁS ZAUJÍMAJÚ

ODOSLAŤ

Podmienky ochrany osobných údajov si môžete [prečítať tu](#).

**NEW SPACE FOR YOUR BUSINESS**

**Slovak Space Office**  
Supporting development of the Slovak space sector and its internationalisation.  
Government Administration · Bratislava · 399 followers

Denis & 2 other connections work here · 4 employees

Following Visit website More

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**About**

Slovak Space Office is a joint project of Slovak Investment and Trade Development Agency (SARIO) and the Ministry of Education, Science, Research, and Sport of the Slovak Republic. While the ministry-led Political Branch is responsible for inter-ministerial political coordination and multilateral issues, the Industrial Branch at SARIO is in charge of developin... see more

See all details

**Page posts**

**Slovak Space Office**  
399 followers  
2w · Edited ·

**SPACE HACKATHON IN SLOVAKIA** sk  
Slovak Space Office is one of 10 local org: ...see more

**Slovak Space Office**  
399 followers  
1d ·

During the last week's UN COPUOS session, we held an official side event themed „Space ...see more

**SLOVAK SPACE OFFICE**

NEW SPACE FOR YOUR BUSINESS

SPACE IN SLOVAKIA ABOUT US NEWS & EVENTS FUNDING OPPORTUNITIES

SECTOR DEVELOPMENT INTERNATIONAL COOPERATION OUTREACH ACTIVITIES

# 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



EUREKA

# Programme for Associate Member States

## Requesting Party Activities (RPA)

Slovak contribution: Approx 1 900 000 EURO per year

Annual call for Slovak Entities, including the opportunity to have subcontractors (max 20% of WP) from other ESA Member States

- To **complement** ESA optional programmes with activities falling outside their nominal scope;
- To **facilitate** the implementation of a holistic **national space policy**;
- To ensure wide support in the Country **for space development funding**;
- To give the best chance of securing the geographical return from ESA programmes by **increasing the capabilities and experience** of national **space industry to an appropriate level**;
- To **prepare the entities in that country for future subscriptions** to additional ESA optional programmes.

[https://www.esa.int/Applications/Observing\\_the\\_Earth/FutureEO/Introducing\\_FutureEO](https://www.esa.int/Applications/Observing_the_Earth/FutureEO/Introducing_FutureEO)  
<https://slovak.space/>



# FutureEO

**Slovak contribution: Approx 550 000 EURO per year**

FutureEO is ESA's Earth observation **research and development programme**.

- underpins the development of operational satellite missions dedicated to delivering **robust systematic data for services** that improve daily life and boost the economy
- Addresses challenges like: climate systems; atmospheric dynamics; societal issues etc.;
- **Objective:** Earth observation data exploited to their maximum potential to benefit society;
- Effective **mission operations, smart data** provision and the implementation of **innovative IT-solutions**, innovative **observation techniques**;
- **Focus on Applications:** Analysis tools, Processing tools, and Visualisation tools;
- Working with **commercial companies**, exploring **artificial intelligence**, benefiting from new **IT platforms** and exploring the world of **quantum computing**.

[https://www.esa.int/Applications/Observing\\_the\\_Earth/FutureEO/Introducing\\_FutureEO](https://www.esa.int/Applications/Observing_the_Earth/FutureEO/Introducing_FutureEO)

# SPACE ECONOMY OVERVIEW

## SLOVAK SPACE COMPANIES IN FIGURES

Slovakia has **more than 45+ 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

**40+**

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

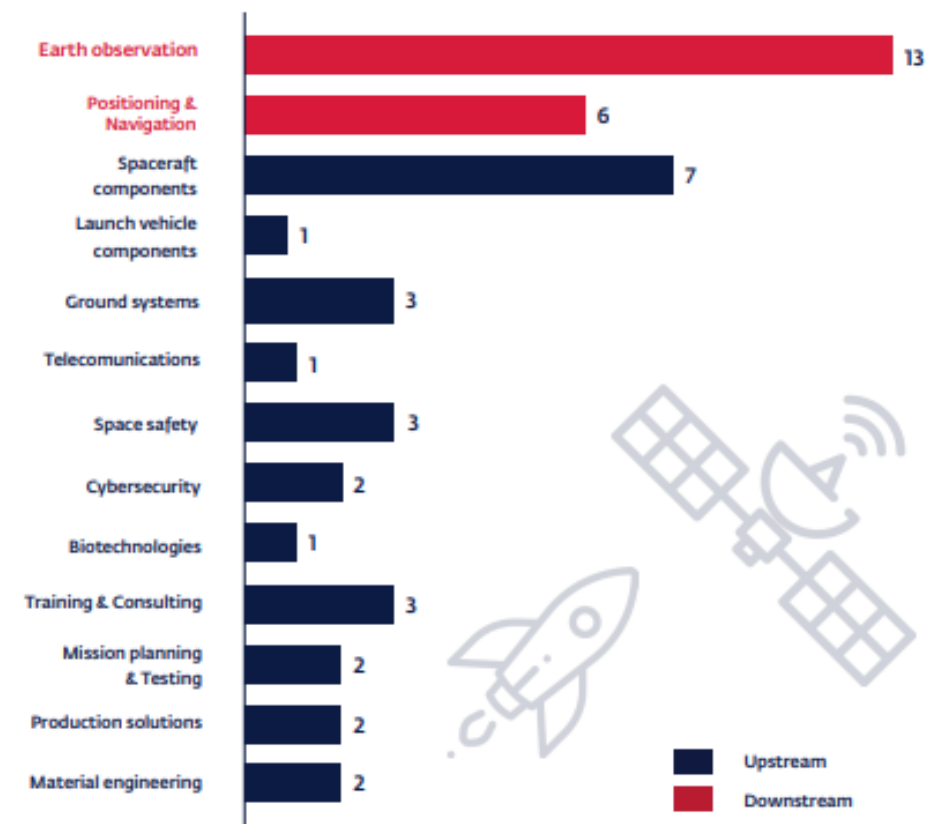
**550+**

**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



# SPACE ECONOMY OVERVIEW

## COMPANIES - DOWNSTREAM

- Remote sensing / Earth observation



insar.sk



- Navigation & Positioning



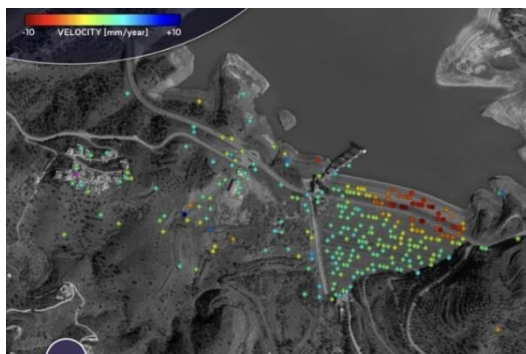
NG AVIATION





# EO LANDSCAPE

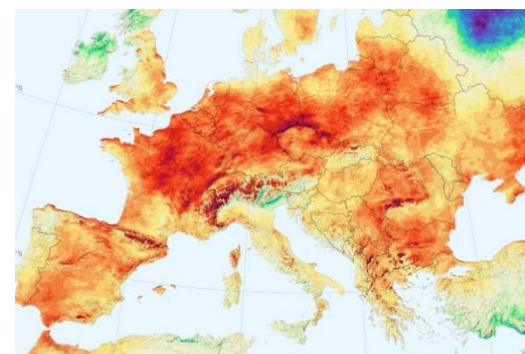
## SHOWCASE OF SLOVAK BUSINESS-LED EO PROJECTS



**Infrastructure and land deformation monitoring** Insar.sk



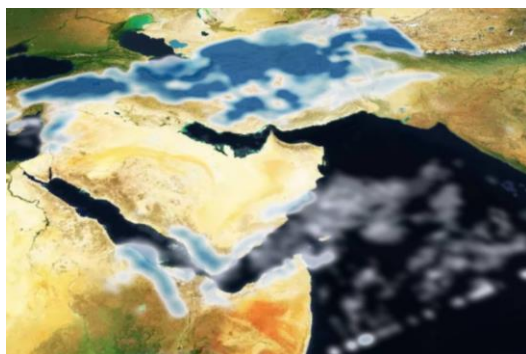
**Mining monitoring** Photomap



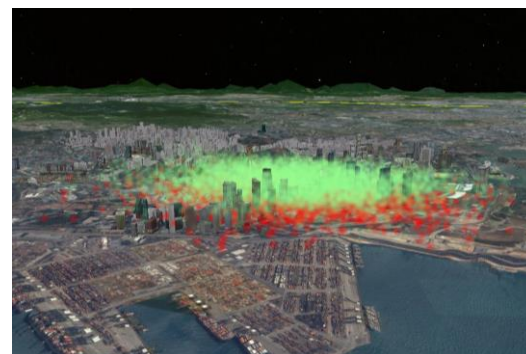
**Solar radiation monitoring** Solargis



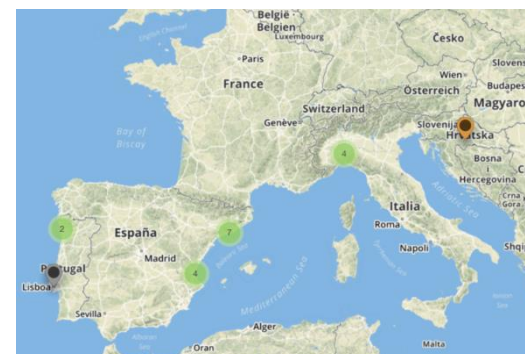
**Forest disturbance mapping and monitoring** YMS



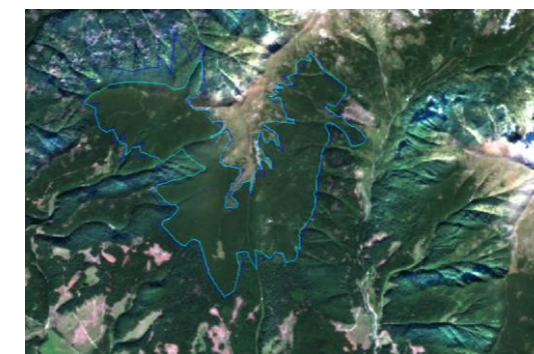
**Meteorological forecasting & modeling** Microstep MIS & IBL Software Engineering



**Radiation monitoring** ABmerit



**Early warning systems** KAJO Services



**Habitat monitoring** Algorithmy SK

## EO LANDSCAPE

### R&D INSTITUTIONS AND GOVERNMENTAL PARTNERS/CUSTOMERS



**Daniel ŠAGATH, PhD.**  
**International Cooperation Manager,**  
**Slovak Space Office - Industry Branch**

daniel.sagath@sario.sk, +421 915 828 792

**SLOVAK INVESTMENT AND TRADE DEVELOPMENT AGENCY (SARIO)**

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821 09 Bratislava  
Slovak Republic