



INTRODUCTION TO SLOVAK SPACE SECTOR

December 2022

SLOVAK SPACE OFFICE

SPACE
INDUSTRY
UNIT

SPACE POLICY
UNIT

SARIO
SLOVAK INVESTMENT AND
TRADE DEVELOPMENT AGENCY

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



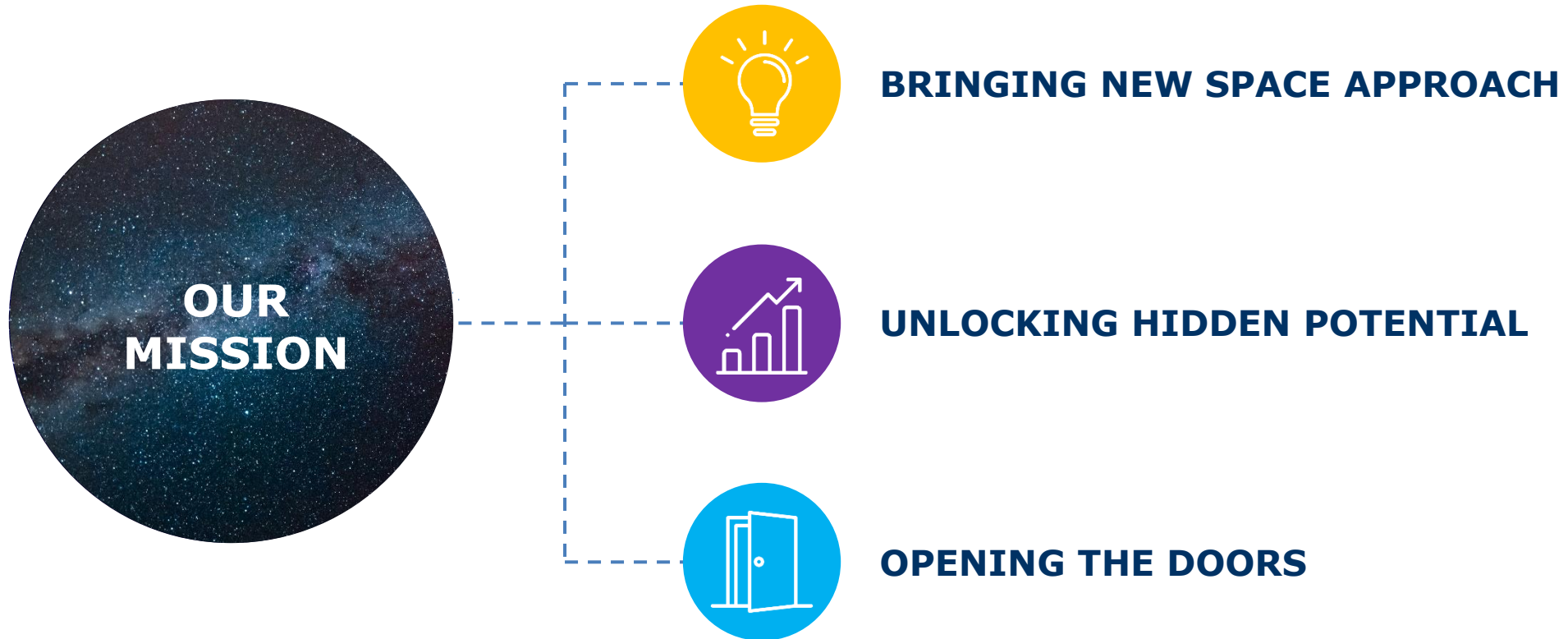
SECTOR
DEVELOPMENT



INTERNATIONAL
COOPERATION



OUTREACH





COMPANIES ALREADY ACTIVE IN SPACE



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



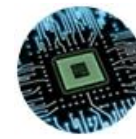
DIVERSIFICATION / SPIN-IN



Automotive
Industry



Mechanical
Engineering



Electrical
Engineering



ICT



SARIO'S SPACE ACTIVITIES

BASE FOR THE SLOVAK SPACE OFFICE – INDUSTRY BRANCH

3

Years of systematic work

14

Companies with
ongoing diversification
into space

28

International/local
projects & partnerships
created

2

Investment Projects
Generated

PARTNERS ABROAD



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

SPACE ECONOMY OVERVIEW

SLOVAK SPACE COMPANIES IN FIGURES

Slovakia has **more than 40 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

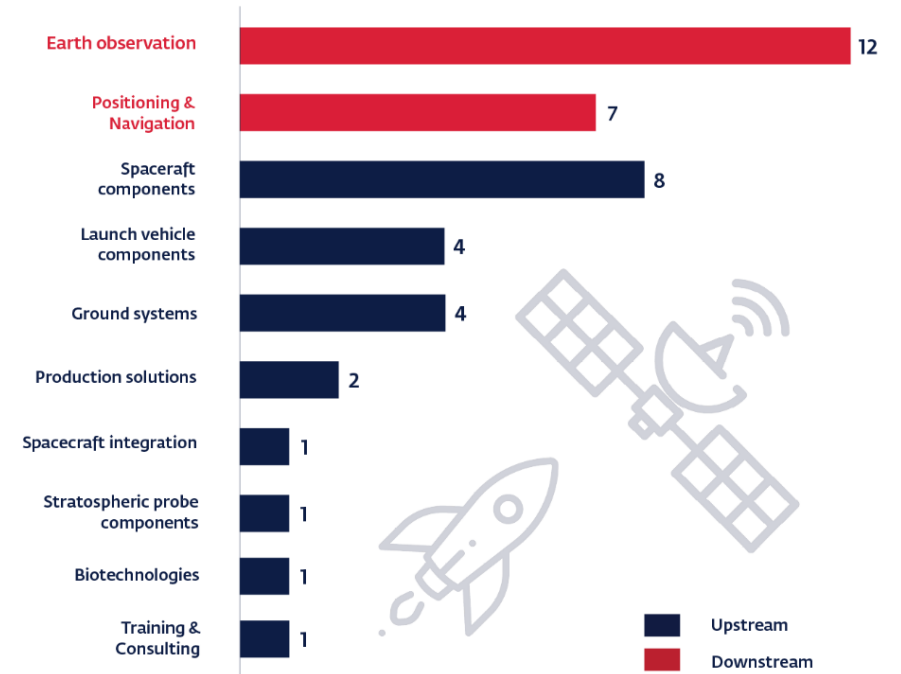
550+

People employed by companies directly involved in the space economy

€ 120M+

Revenue generated by companies directly involved in the space economy

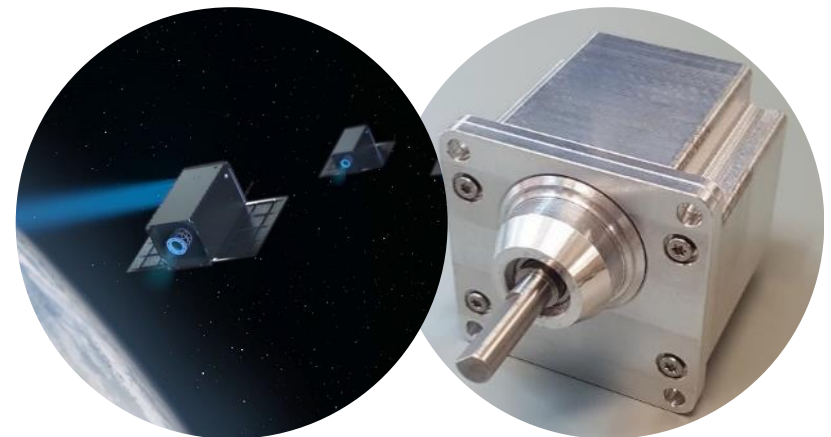
Number of Companies Directly Involved in Space Sector



SPACE ECONOMY OVERVIEW

COMPANIES - UPSTREAM

- **Spacecraft components**     
- **Ground systems & surveillance**    
- **Launch vehicles & components**    
- **Biotechnologies** 
- **Spacecraft integration**  
- **Stratospheric probes** 
- **Production & Testing**   
- **Training & Consulting** 



SPACE ECONOMY OVERVIEW

COMPANIES - DOWNSTREAM

- Remote sensing / Earth observation



insar.sk



- Navigation & Positioning



NG AVIATION





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



ORGANIZED BY:
72nd INTERNATIONAL ASTRONAUTICAL CONGRESS
25-29 October 2021 | Dubai
Inspire, Innovate & Discover
for the Benefit of Humankind
IAC2021.ORG



INDUSTRY SPACE DAYS 2021 | THE CONFERENCE EDITION

7-8 December 2021
ESA Virtual Event

ES2021

400+
Participants
3 side-events

OPENING REMARKS ONLINE

Josef Aschbacher
European Space Agency

Simonetta Di Pippo
UNOOSA

3rd SLOVAK
SPACE TECH DAY
November 30 | 2021

Emerging
Space 2021

Session #1: Emerging space countries ONLINE

Chris Leck
Office for Space
Technology &
Industry (Singapore)

Michal Brichta
Slovak Space Office,
Industry Branch (SARIO)

Angelina Bekasova
Ministry of Economics
of the Republic of Latvia,
Latvian Space Industry
Association

Deganit Paikowsky
Hebrew University of
Jerusalem, International
Astronautical Federation

William Ricard
PwC

Jean-Jacques Tortora
European Space Policy Institute
Keynote speaker

3rd SLOVAK
SPACE TECH DAY
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Emerging
Space 2021

Session #2: Emerging space players ONLINE

Hans Bracquené
SME4SPACE

Lenka Tkáčová
Slovak Space Office,
Industry Branch (SARIO)

Michal Csonga
0100 Ventures,
I Ambitious

Jakub Lajmon
Groundcom

Annalisa Donati
EURISY

Clay Mowry
International Astronautical
Federation, Blue Origin
Keynote speaker

3rd SLOVAK
SPACE TECH DAY
November 30 | 2021

Emerging
Space 2021

Session #3: Emerging space domains ONLINE

Kai Isand
Eventomado

Daniel Šagath
Slovak Space Office,
Industry Branch (SARIO)

Matúš Bakoň
insar.sk

Jakub Kapuš
Spacemanic

Juraj Zámečník
3IPK

Raphael Roettgen
E2MC Ventures

Olivier Lemaître
ASD Eurospace
Keynote speaker

3rd SLOVAK
SPACE TECH DAY
November 30 | 2021

Emerging
Space 2021

CLOSING REMARKS ONLINE

Géraldine Naja
European Space Agency

Michal Brichta
Slovak Space Office –
Industry Branch (SARIO)

Justyna Redelkiewicz
EUSPA

3rd SLOVAK
SPACE TECH DAY
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Emerging
Space 2021

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.

VÁŠ EMAIL *

MENO

FIRMA

AKÉ INFORMÁCIE VÁS ZAUJÍMAJÚ

ODOSLAŤ

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



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