



HUNGARIAN SPACE KALEIDOSCOPE 2025/2026

2025/26 HUNGARIAN  
SPACE KALEIDOSCOPE

**TIBOR KAPU 2025**   
hungarian astronaut

# **HUNGARIAN SPACE KALEIDOSCOPE**

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2025/2026

# CONTENT

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2025/2026

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86-93

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2026

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ISSN 2732-2270



WELCOME FROM THE MINISTERIAL  
COMMISSIONER FOR SPACE RESEARCH



25

I believe that the most significant event

popular scientific visitor center in the history of

2025

Axiom-4 astronauts completed 60 scientific

Irány az Űr!, jointly implemented in cooperation

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in four scientific areas for those with higher edu-

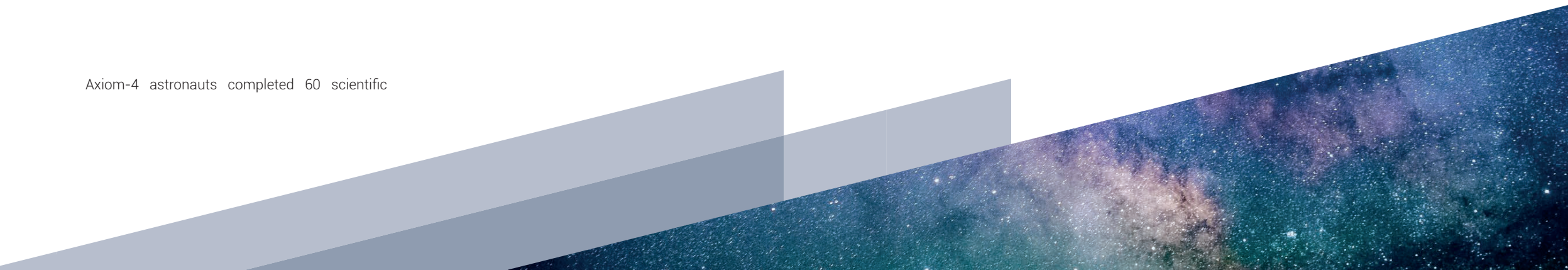
in the fields of natural and social sciences related

Since the first publication of the Hunga-  
20

MANT and financed by the Ministry of Foreign

2026

*Ministerial Commissioner  
for Space Research*





20 2  
the first Hungarian satellite. While earlier the



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scientific programme for our cosmonaut,  
which determined the main fields of our  
observation of the pioneering artificial

20 5

a greater and more solid financial back-ground to

of the Hungarian cosmonaut's scientific prog-

20

The first boom in our space activity  
60

Hungarian experts built some scientific


25

send passive instruments first, then more first steps towards the European Space


week spaceflight of the first Hungarian



## COMPETENCES

 Primary RESEARCH competence

 Further RESEARCH competences


 Primary TECHNOLOGICAL competence

 Further TECHNOLOGICAL competences

## POINT OF CONTACT


 Name

 Phone

 E-mail

## ORGANISATION DETAILS

 YEAR OF FOUNDING

 HEADCOUNT (2023)  
Space department employees / all employees

 YEARLY REVENUES (2022)  
space department revenues / all revenues  
M HUF = million Hungarian forint  
na: not available

 SPACE RESEARCH TENDERS  
number between 2018 and 2022

## ORGANISATION DETAILS (Suppliers to Space Industry)

 ADDRESS


 WEB


 EMAIL

## Cluster

 HATP  
 HUNAGI  
 HUNSPAC  
 MKIK

## RESEARCH COMPETENCES

 Astronomy and Astrophysics

 Biological, Medical, Life Sciences

 Geodesy


 Geophysics


 Material Sciences

 Meteorology


 Physics of Near Earth Space

 Space Physics


 Solar Physics and Solar System Exploration


 Space Communications and Navigation


 Space Chemistry


 Space Law and Economy


## TECHNOLOGICAL COMPETENCES


 **TD-1 On-Board Data Systems**  
1.1 Payload Data Processing  
1.2 On Board Data Management  
1.3 Microelectronics for Digital and Analogue Applications


 **TD-2 Space System Software**  
2.1 Advanced Software Technologies  
2.2 Space Segment Software  
2.3 Ground Segment Software  
2.4 Ground Data Processing  
2.5 Earth observation payload data exploitation


 **TD-3 Spacecraft Electrical Power**  
3.1 Power System Architecture  
3.2 Power Generation Technologies  
3.3 Energy Storage Technologies  
3.4 Power Conditioning and Distribution


 **TD-4 Spacecraft Environment and Effects**  
4.1 Space Environment  
4.2 Environment Effects  
4.3 Space Weather

 **TD-6 RF Payload and System**  
6.1 Telecommunication (sub-)Systems  
6.2 Radio Navigation (sub-)Systems  
6.3 TT&C (sub-)Systems  
6.4 RF Payloads  
6.5 Microwave and Millimetre Wave Technologies and Equipment


 **TD-7 Electromagnetic technologies and techniques**  
7.1 Antennas  
7.2 Wave Interaction and Propagation  
7.3 EMC/RF/ESD


 **TD-8 System Design and Verification**  
8.1 Mission and System Specification  
8.2 Collaborative and Concurrent Engineering  
8.3 System Analysis and Design  
8.4 Verification and AIT


 **TD-9 Mission Operation and Ground Data Systems**  
9.1 Advanced System Concepts  
9.2 Mission Operations  
9.3 Ground Data Systems (MCS)


 **TD-10 Flight Dynamics and GNSS**  
10.1 Flight Dynamics  
10.2 GNSS Systems and Ground-related Technologies


 **TD-11 Space Debris**  
11.1 Ground- and space-based debris and meteoroid measurements  
11.3 Debris mitigation, debris environment remediation and protection


 **TD-12 Ground Station System and Networks**  
12.1 Ground Station System  
12.2 Ground Communications Networks


 **TD-13 Automation, Telepresence & Robotics**  
13.2 Automation & Robotics Systems


 **TD-14 Life and Physical Sciences**  
14.1 Instrumentation in support of Life Sciences  
14.2 Instrumentation in support of Physical Sciences  
14.3 Applied Life Science Technology  
14.4 Applied Physical Science Technology

 **TD-15 Mechanisms and Tribology**  
15.1 Mechanism core technologies  
15.4 Control electronics technologies  
15.5 MEMS Technologies  
15.6 Tribology Technologies  
15.7 Mechanism Engineering


 **TD-16 Optics**  
16.1 Optical system Engineering  
16.2 Optical component technology and materials  
16.3 Optical equipment and instrument technology


 **TD-17 Optoelectronics**  
17.1 Laser Technologies  
17.2 Detector Technologies  
17.3 Photonics

 **TD-18 Aerothermodynamics**  
18.1 Numerical methods  
18.2 Ground Based Facilities  
18.3 Flight Testing


 **TD-19 Propulsion**  
19.1 Chemical Propulsion Technologies


 **TD-20 Structures and Pyrotechnics**  
20.1 Structural Design and Verification Methods and Tools  
20.2 High-stability and high-precision S/C structures  
20.4 Hot structures  
20.5 Active/adaptive structures  
20.6 Damage Tolerance and Health Monitoring  
20.9 Meteoroid and debris shield design and analysis  
20.10 Advanced Structural Concepts and Materials

 **TD-21 Thermal**  
21.1 Heat Transport Technology  
21.2 Cryogenics and refrigeration  
21.3 Thermal protection  
21.4 Heat storage and rejection  
21.5 Thermal Analysis Tools

 **TD-23 EEE Components and Quality**  
23.1 Methods and processes for product assurance of EEE components, including radiation hardness assurance  
23.2 EEE component technologies

 **TD-24 Materials and Processes**  
24.1 Novel Materials  
24.2 Materials Processes  
24.3 Cleanliness and Sterilisation  
24.4 Space environmental effects on materials and processes  
24.5 Modelling of materials behaviour and properties  
24.6 Non-destructive inspection (NDI)  
24.8 Materials for electronic assembly  
24.9 Advanced Manufacturing Technologies

 **TD-25 Quality, Dependability and Safety**  
25.1 System Dependability and Safety  
25.2 Software quality  
25.3 Product and quality assurance

 **TD-26 Earth Observation / Remote Sensing**



address: 2100 Gödöllő, Iskola u. 8.  
www.27g.space



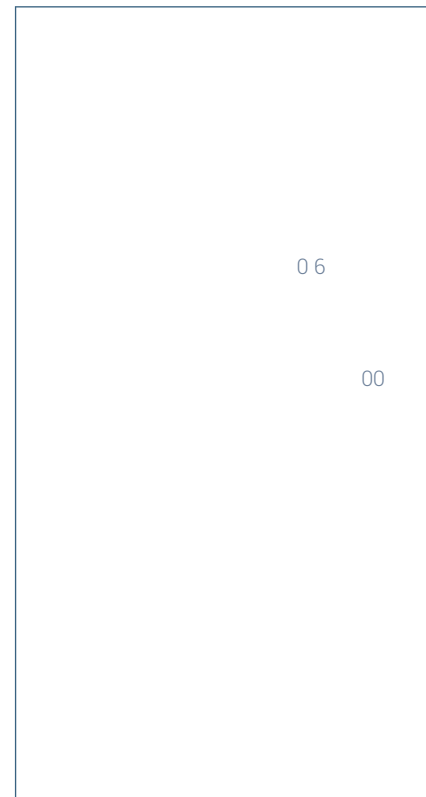
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modern and smallest energy-efficient semicon-

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portable instrument called RadNano Infinity,

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world's smallest, lightest and most energy-effi-

energy-efficient portable astronaut dosimeter  
using its own solutions and technology. The fi-  
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address: 3535 Miskolc, Partos u. 16.  
postal address: 3534 Miskolc, Kandó Kálmán u. 5.  
[www.admatis.com](http://www.admatis.com)

address: 1025 Budapest, Józsefhegyi utca 28-30/A II. em. 22.  
[www.aedusspace.com](http://www.aedusspace.com)

Main products and space qualified technologies:

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Main profile: structural and thermal hard-

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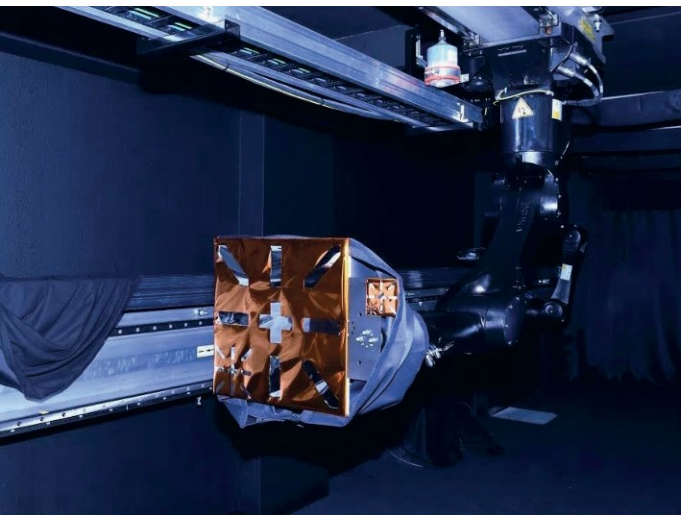
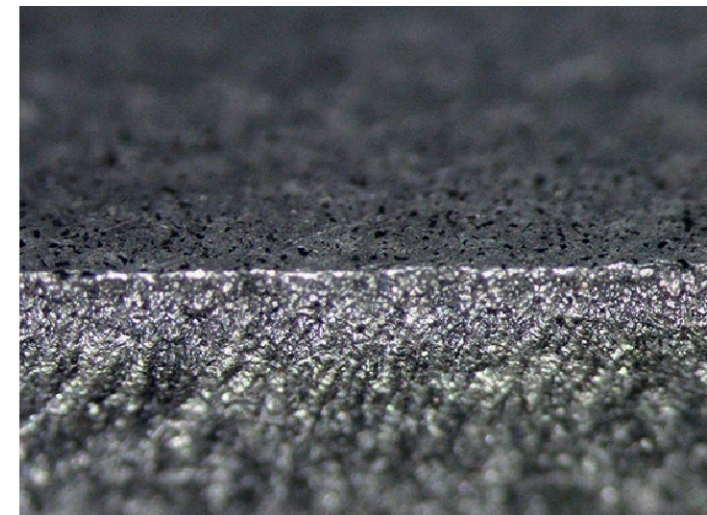
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address: 1095 Budapest, Soroksári út 44., MillPark irodaház  
www.intelligence-airbusds.com

address: 6500 Baja, Czirfusz Ferenc utca 28.  
postal address: 6501 Baja, Pf.116  
www.astrotech.hu

2022

with high capacity server park and efficient im-

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unique tasks for specific demands.

destined for space, scientific measurements,  
and making public relation photos and films.

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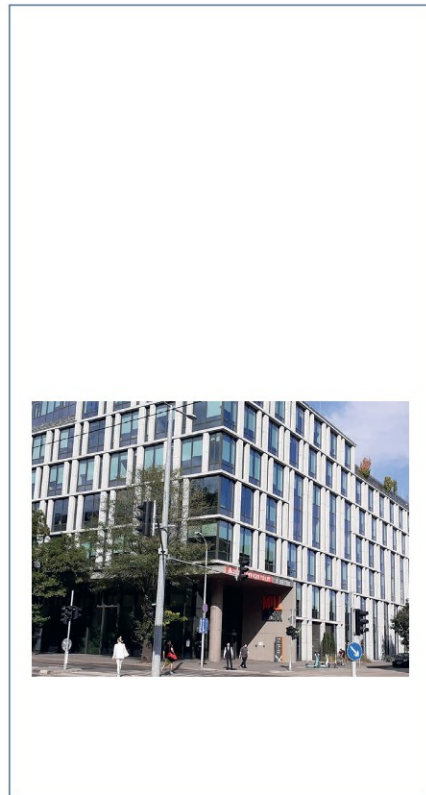
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entific and space exhibition interiors (scaled or

fireball observations and sky quality monitoring.

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- MMT TÉH project (allsky7 fireball)
- DAMBALL project (stratospheric bal-  
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• PAN-8 and HYDRA-03 space debris

• high altitude balloon technology (triple  
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Tibor Hegedűs  
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- 6.1
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- 6.4;6.5
- TD-12
- 12.1



address: 1044 Budapest, Ipari park utca 10.  
 postal address: 1325 Budapest, Pf. 164  
[www.bhe-mw.eu](http://www.bhe-mw.eu)

address: 2167 Vácduka, Pálya u. 1.  
[www.bl-electronics.hu](http://www.bl-electronics.hu)



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- 1.1, 1.2
- 1.3
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- 2.2
- 2.3
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communication industry. BHE has significant

development background support to scientific

and induction magnetometer), preamplifiers and  
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address: 1111 Budapest, Műegyetem rkp. 3.  
www.bme.hu

address: 1111 Budapest, Műegyetem rkp. 3.  
www.epito.bme.hu

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1.2

and space services in various fields. The first

modelling of the gravity field of the Earth with

TD-2  
2.4,2.5

perform scientific research, which encompasses

the university and it is the home of the first Hun-  
2022

TD-3  
3.1,3.4

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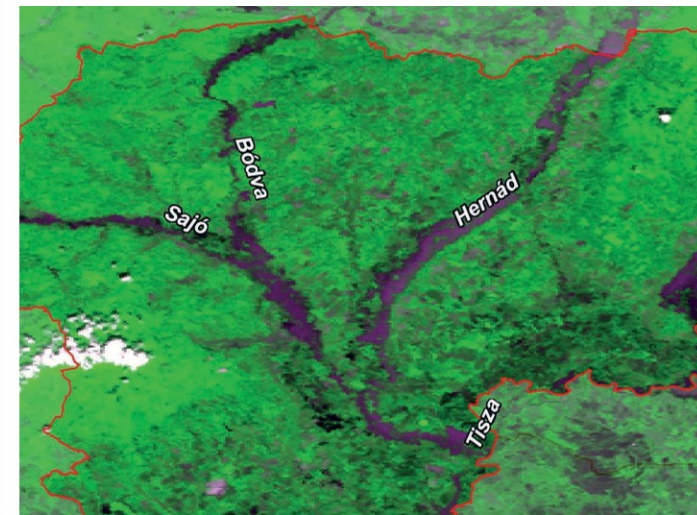
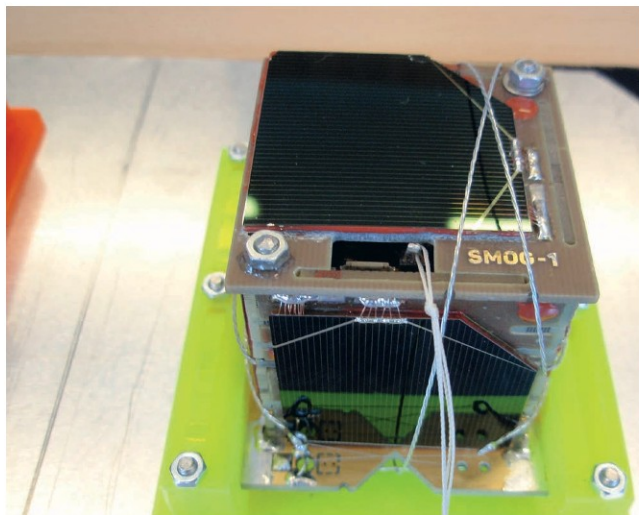
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Zsófia Kugler  
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address: 1111 Budapest, Bertalan Lajos u. 4.-6.  
www.mogi.bme.hu

address: 1111 Budapest, Egry József u. 18.  
hvt.bme.hu

picosatellite was placed into orbit as the first

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- 17.1
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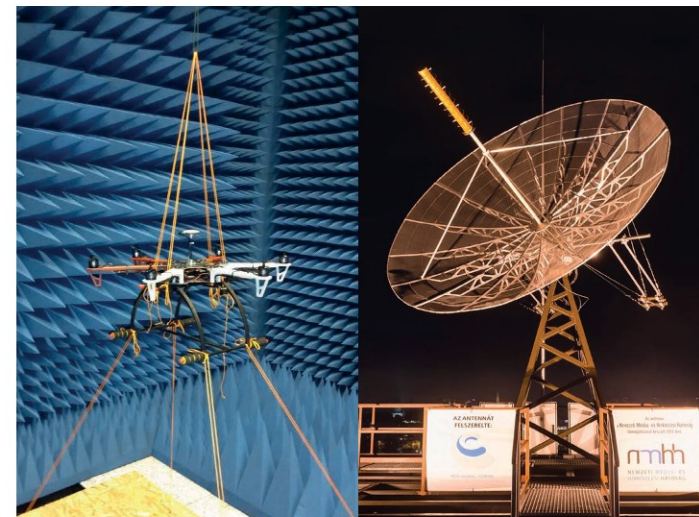
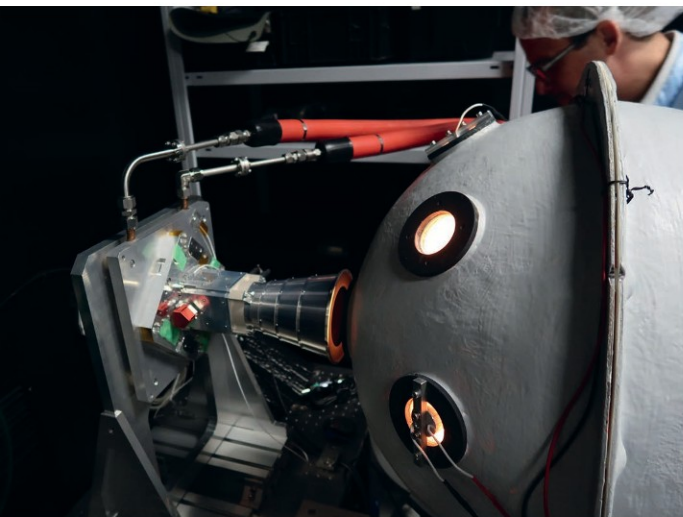
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address: 1097 Budapest, Könyves Kálmán krt. 12-14.  
www.c3s.hu

address: 1126 Budapest, Szendrő u. 49.

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- TD-2.1-4
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- TD-6.1,3
- TD-8.1-4
- TD-9.1-3
- TD-10.2
- TD-12.1-2
- TD-14.3-4
- TD-15.4,7
- TD-18.1,2,4
- TD-20.1-2
- TD-20.10
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requirements of scientific and industrial IoT con-

large satellites. Its first mission, the 3U RadCube,  
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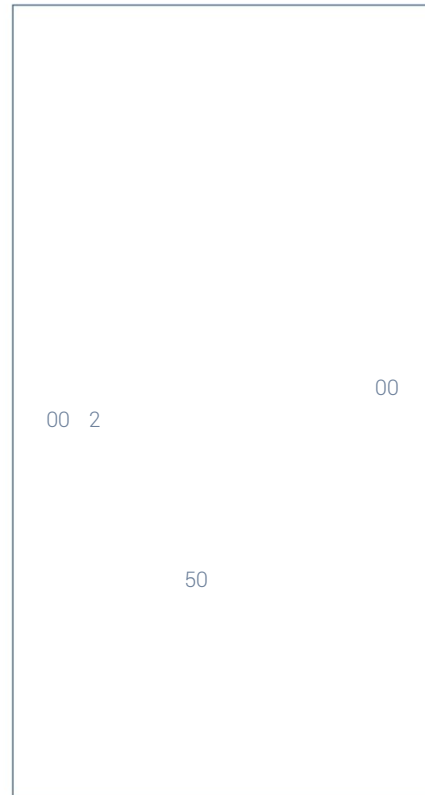
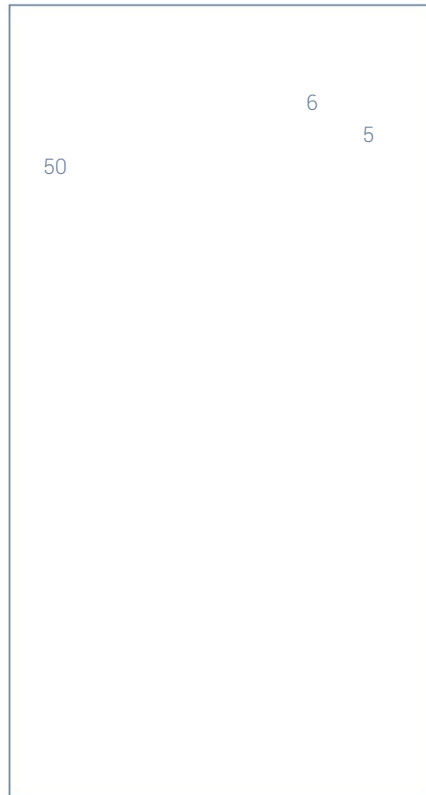
ous fields of agricultural applications. During its 0 65

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national administration. The improved efficien-

additional profit to the users based on the quan-

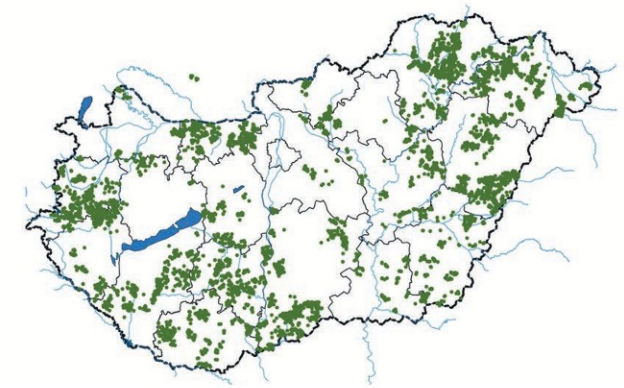
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Precizios cellahozam térképek műholdfelvételek  
2020 2020 2020



2022 2025 6  
year analysis covered a total of 50,000 fields of approximately 650,000 ha of



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address: 2100 Gödöllő, Király utca 16.  
www.cropom.com

address: 1046 Budapest, Mikszáth Kálmán utca 48.  
www.datakart.hu



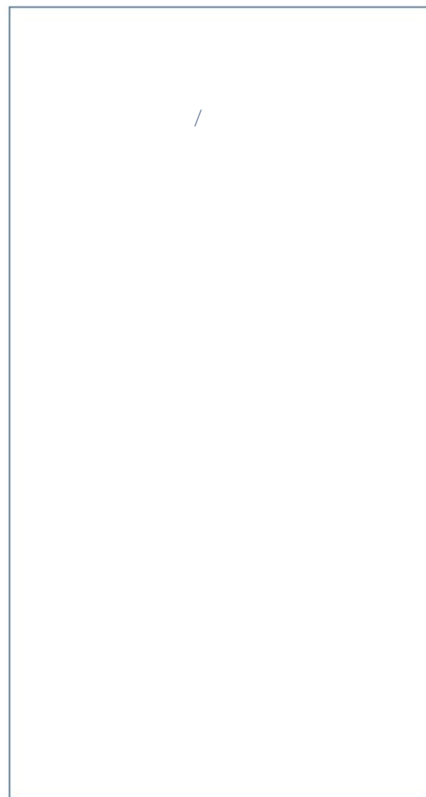
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es, and operational mechanisms within a unified consulting firms, and public administration and we provide structured, scalable, and efficient

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fir.gov.hu

euspaceimaging.com, skywatch.com

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DATelite



DESIGN  
TERMINAL

address: 7621 Pécs Irgalmasok u. 5.  
www.datelite.hu

address: 2800 Tatabánya, Stúdió tér 1.  
postal address: 1122 Budapest, Székács utca 29.  
designterminal.org/hu



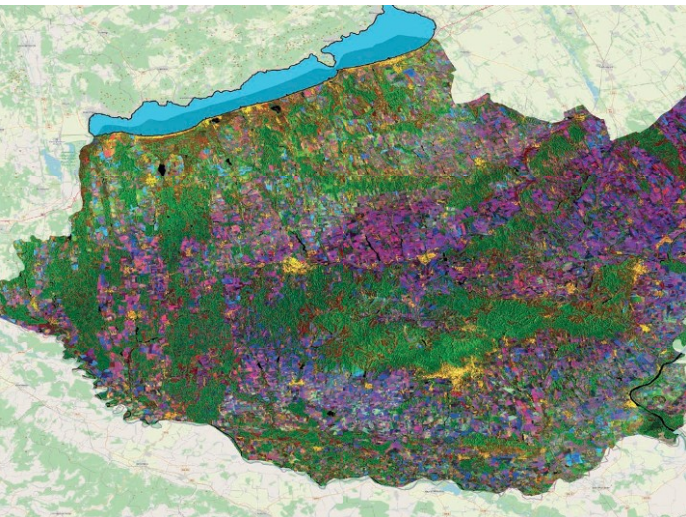
50 000  
financial support to help Hungarian companies

are up and running in fifteen countries, and  
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corporations. Design Terminal launched its first  
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address: 4032 Debrecen, Egyetem tér 1.  
postal address: 4002 Debrecen, Pf. 400  
www.unideb.hu

address: 1116 Budapest, Kondorosi út 3. IV. emelet  
www.econengineering.com



TD-26

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establish the optimal travel conditions, first we

Besides the difficulties of technical feasi-

Econ Engineering (offices: HUN, GER, USA)  
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er, has selected Econ for several finite element

consulting. Econ holds certificates in AS9100,  
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curity, and is a certified partner of simulation



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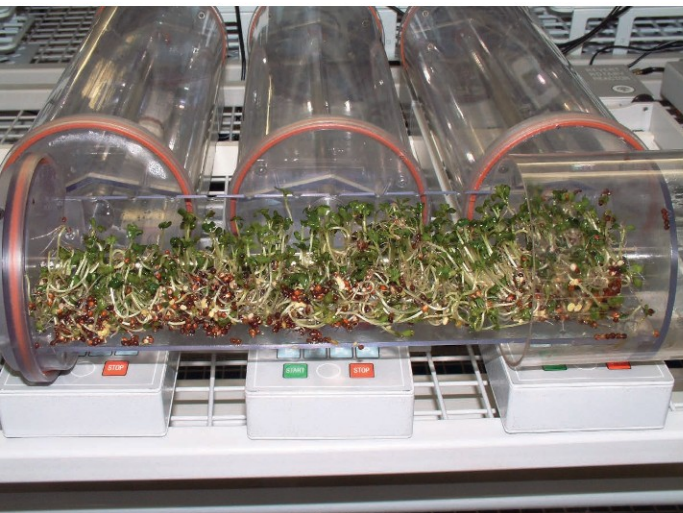
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with NÉBIH certificate  
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### Axiom Space: Space Station Modules Development

### Thales Alenia: Acoustic Analyses for Satellite Equipment

- Power spectral density (PSD) profile

### HUNOR Program: Thermal Comfort Analysis

- Wrinkling, fit, and skin-surface tempe-

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address: 3300 Eger, Eszterházy tér 1.  
 postal address: 3300 Eger, Leányka u. 6.  
[www.uni-eszterhazy.hu](http://www.uni-eszterhazy.hu)

address: 1117 Budapest, Pázmány Péter sétány 1/A  
[astro.elte.hu](http://astro.elte.hu)



TD-4  
 4.3

tronomy missions working on the scientific pro-  
 and/or analysing the scientific results. However,

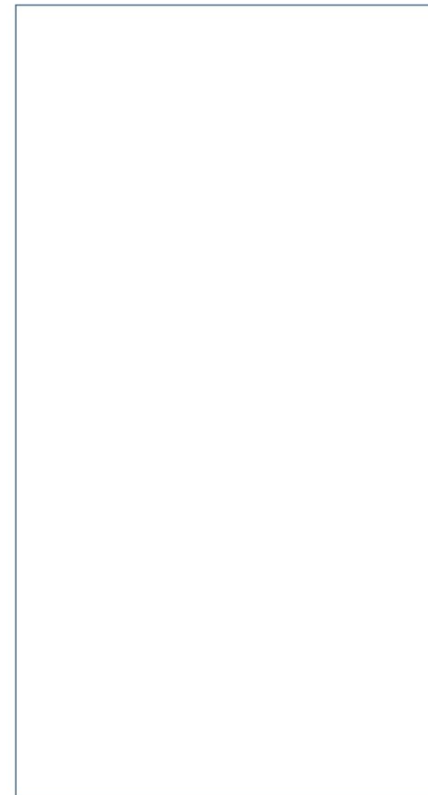
under extreme conditions, can later find industri-

contribute to the work of the Scientific Council

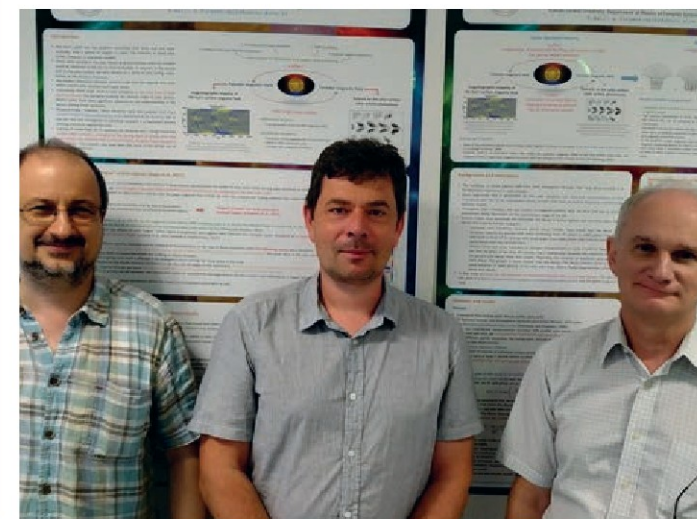
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The research group's scientific fields in as-

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address: 1117 Budapest, Pázmány Péter sétány 1/A  
sas2.elte.hu

address: 4032 Debrecen, Péchy utca 46.  
www.envirosense.hu

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- 4.1
- 4.3
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satellite) for different fields of expertise. The

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Automatic Whistler Detector and Analyzer Network

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Automatic Whistler Detector and Analyzer Network

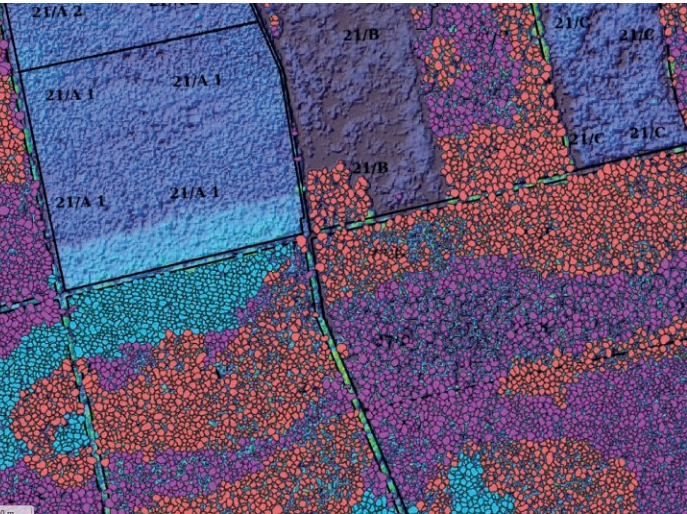
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address: 1174 Budapest, Erdőkövesd utca 46.  
www.ephemersys.com



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ry-specific standards, applicable to both scientific and commercial space missions.



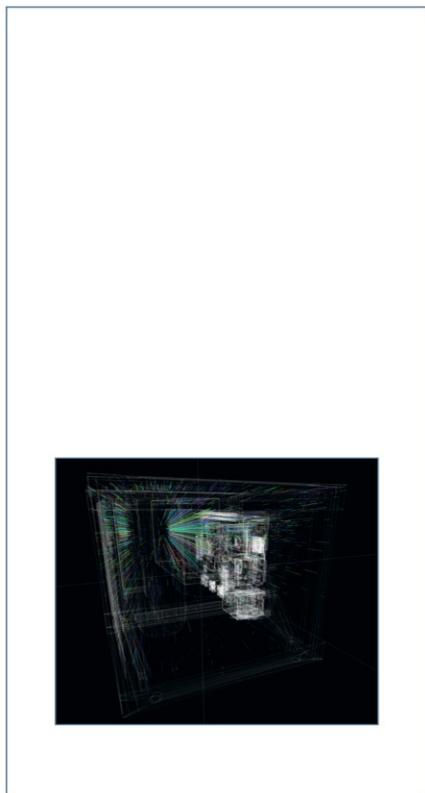
address: 2100 Gödöllő, Páter Károly utca 1.  
www.gatenonprofit.hu



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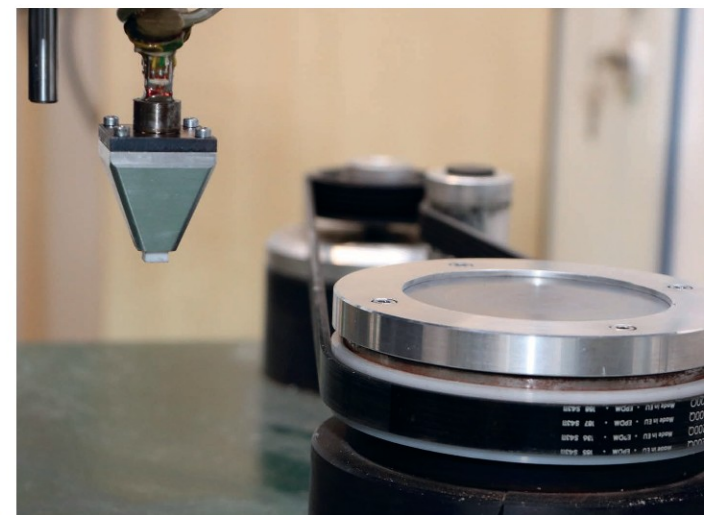
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@ bojszko.balazs@gatenonprofit.hu

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address: 1077 Budapest, Wesselényi utca 16.  
www.geodat.hu

address: 2098 Pilisszentkereszt, Kakashegy utca 56.  
www.geoiq.hu



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TD-2

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observation data can support tasks efficiently in

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software packages. We were among the first

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efficient way. GeoData Services has been offer-

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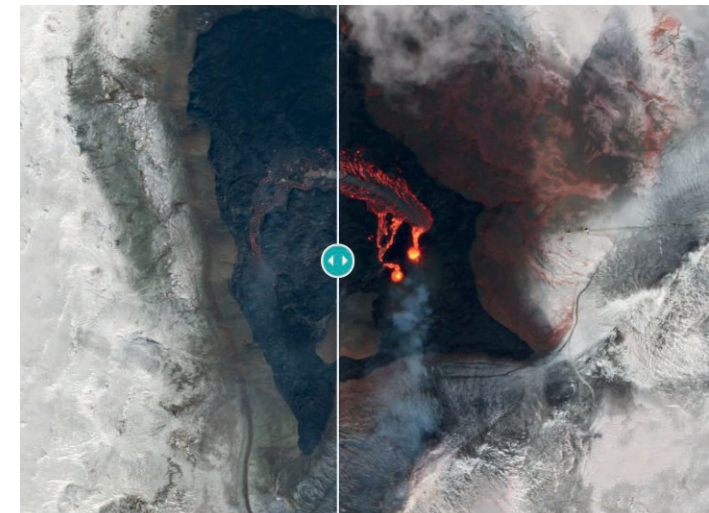
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address: 2132 Göd, Kacsóh P. u. 13.  
www.geo-sentinel.hu

address: 4220 Hajdúböszörmény, Külső-Hadházi u. 24.  
www.goodwillengineering.hu

TD-26

TD-10

10.2



first high-resolution ground motion map. The

265

of experience in leading scientific research and

manage the space-related news portal Űrvilág,

2020



TD-23



TD-14

14.2



TD-18

18.2

18.3



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20.10



TD-24

24.2

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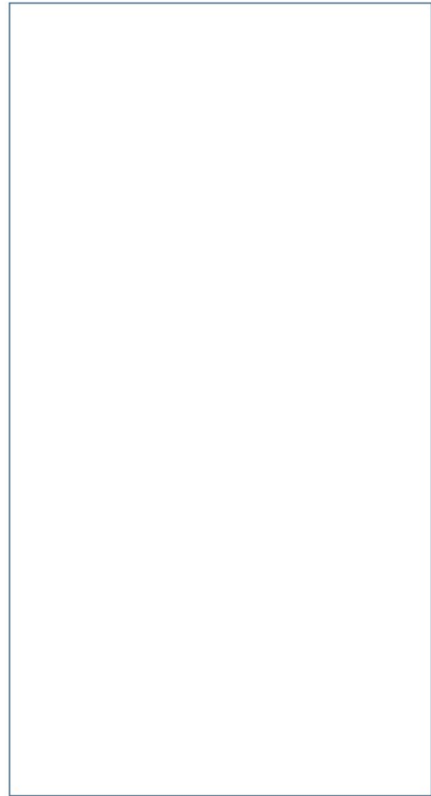
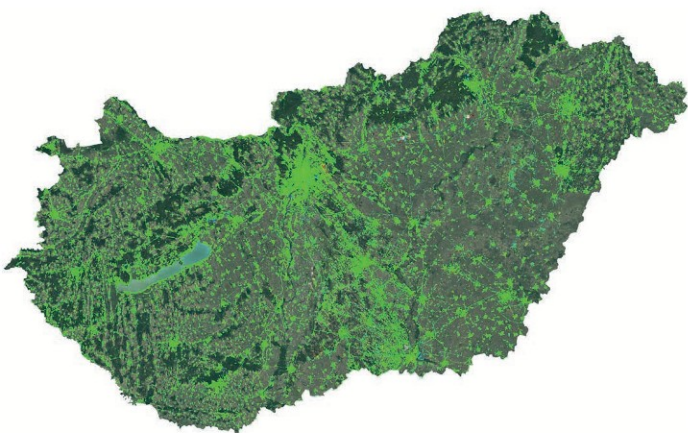
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address: 1121 Budapest, Konkoly-Thege Miklós út 29-33.  
www.hion.hu

address: 2310 Szigetszentmiklós-Lakihegy, Komp u. 2.  
www.hdt.hu



TD-21

21.4

TD-3

3.3

TD-24

24.1-2

24.4-5

24.9

five main areas of activity are: 20

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network configuration and modification, quick

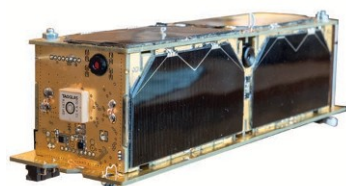
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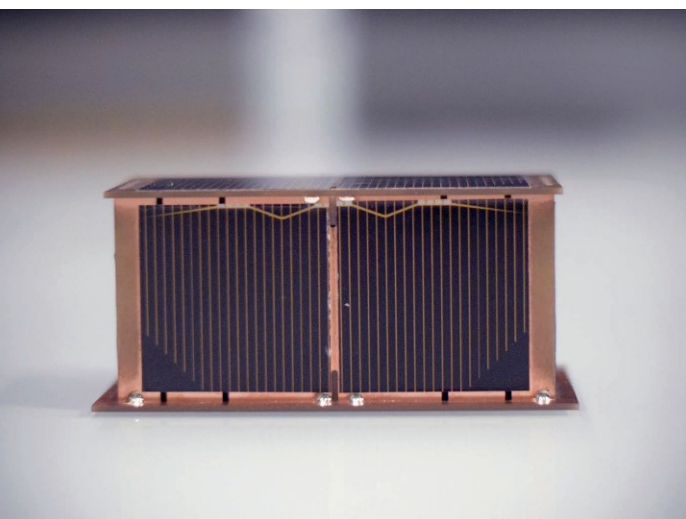
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address: 4026 Debrecen, Bem tér 18/C  
 postal address: 4001 Debrecen, Pf. 51  
[www.atomki.hu](http://www.atomki.hu)

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damental research in the field of atomic, molec-

the ExoMars rover. Peak-identification in infrared

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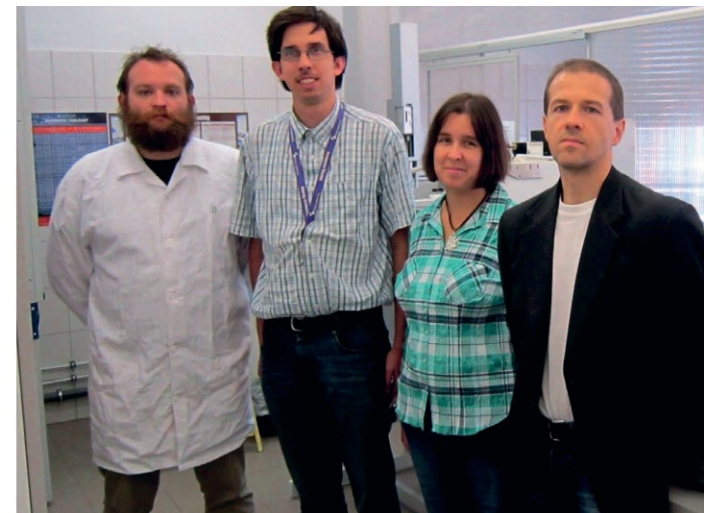
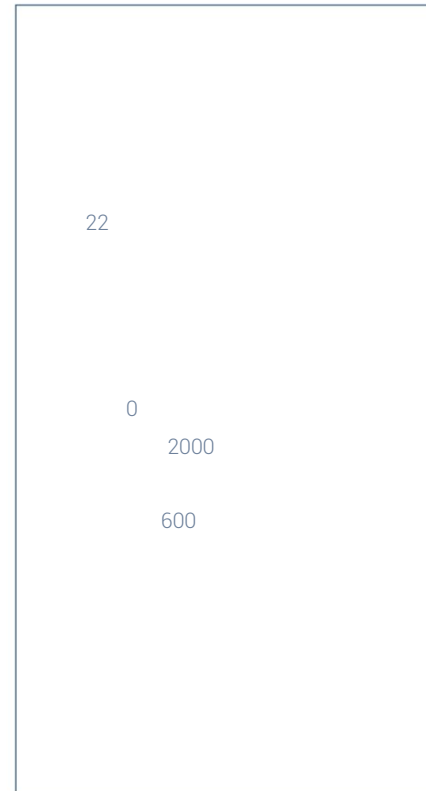
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Main fields of the space related R&D at

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astronomy. The institute has been a scientific

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institute, one has to mention the scientific pre-

competence portfolio. The first satellite – GR-202

tre. The main fields of activities are R+D+I in the field of nuclear techniques, renewable energy re-

EK has five decades of experience in developing scientific payloads (active and passive detector

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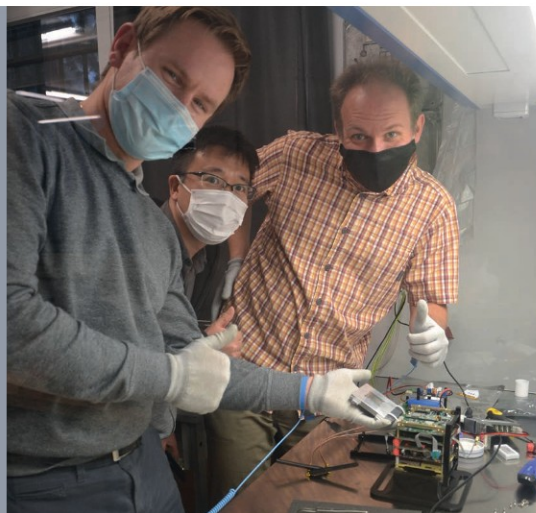
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We are experts on space-qualified hardware

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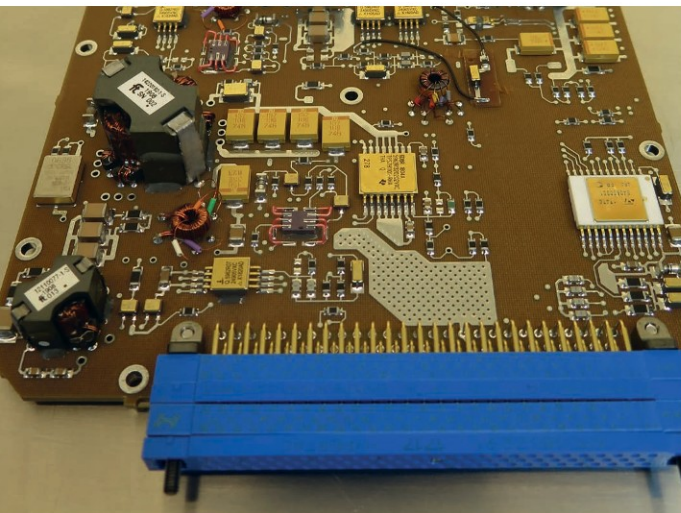
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www.wigner.hu/urfizikai-es-urtechnikai-osztaly

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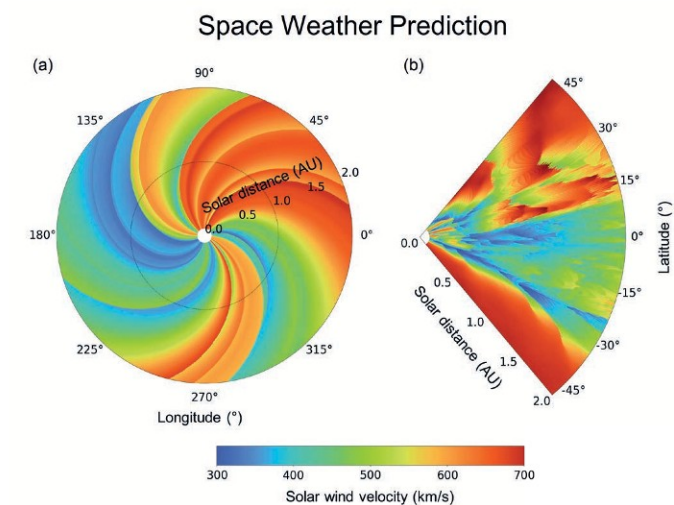
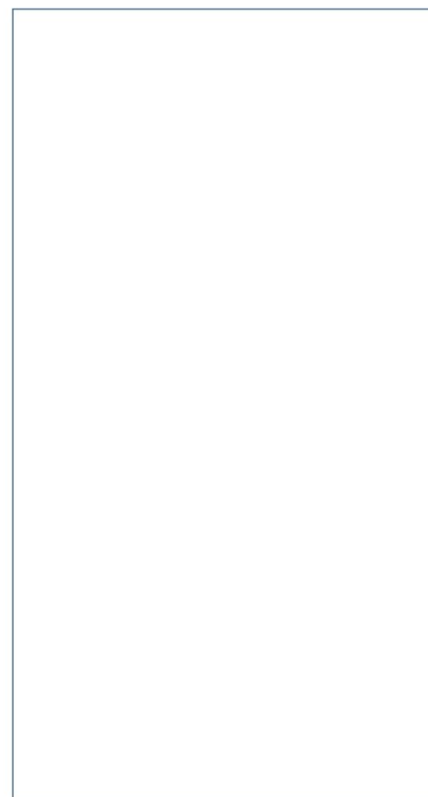
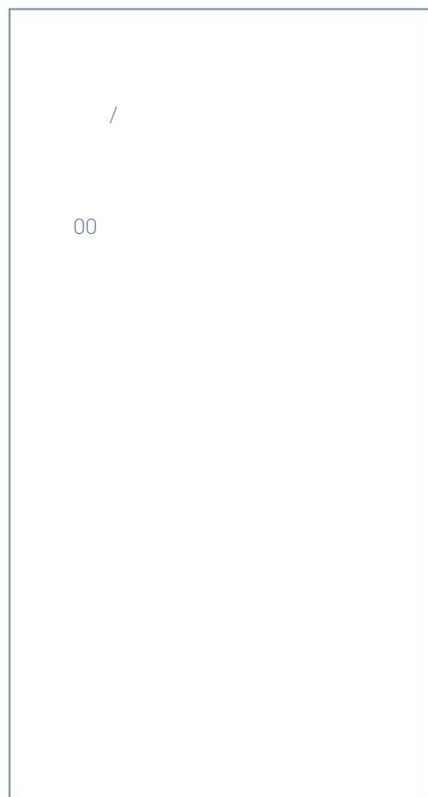
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[www.morph.bme.hu](http://www.morph.bme.hu)

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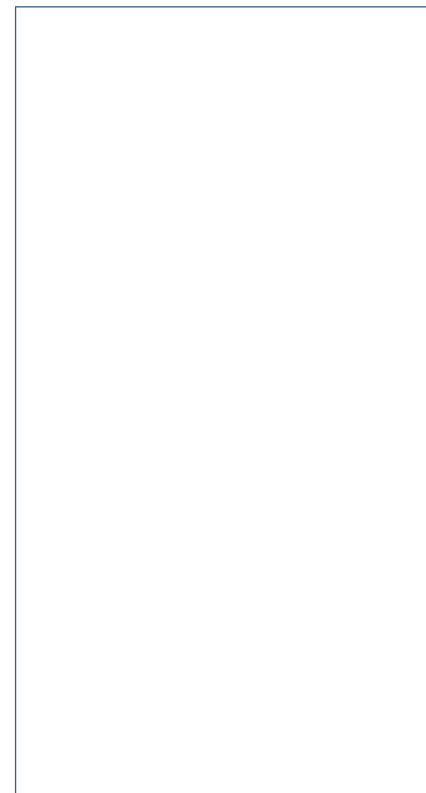
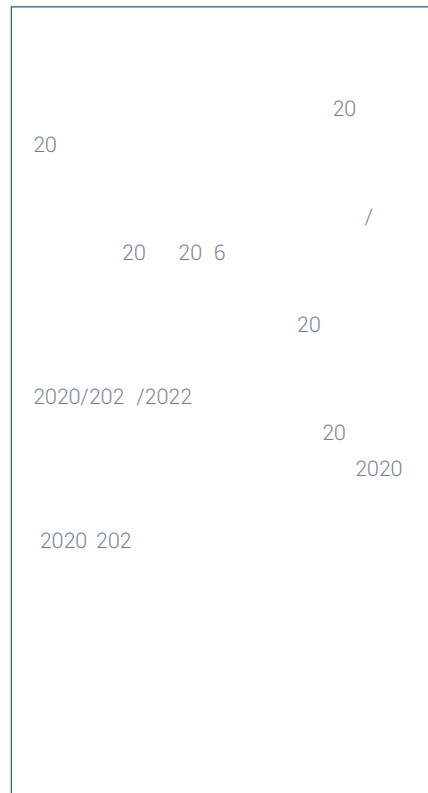
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 www.inmpartner.hu



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Galileo, BeiDou). Thanks to the financial support  
 of ESA, we are the first to make the 4GNSS RTK

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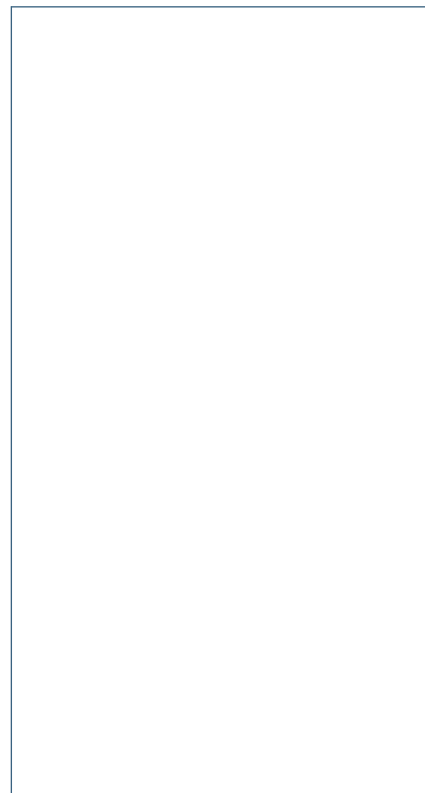
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www.innobay.hu

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www.innostudio.org



research at NASA, the first Hungarian parabolic

chemical tool. Our company, first worldwide,

der to improve drug efficacy. We take the role of

related scientific symposia (USA, 2017-2021).

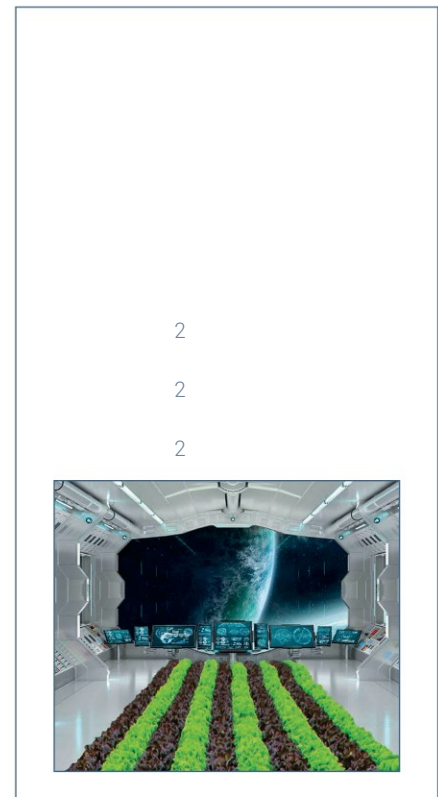
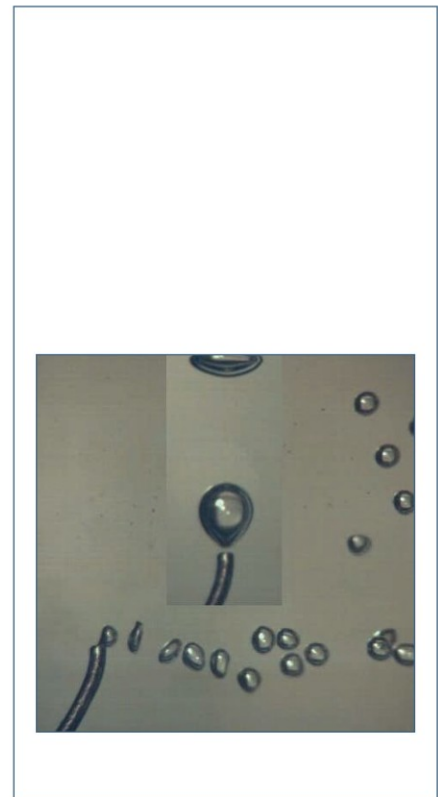
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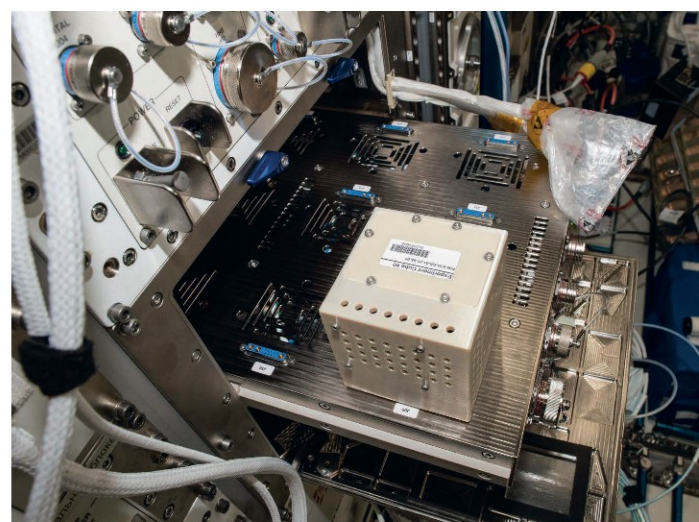
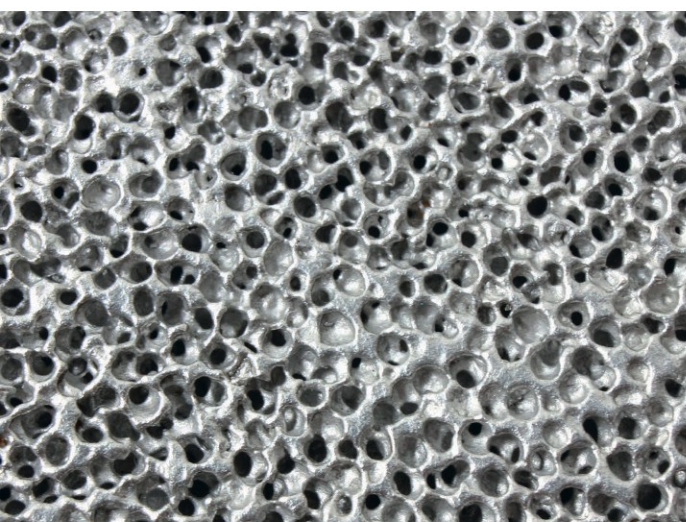
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[www.jglobe.hu](http://www.jglobe.hu)



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Our main profile is engineering research



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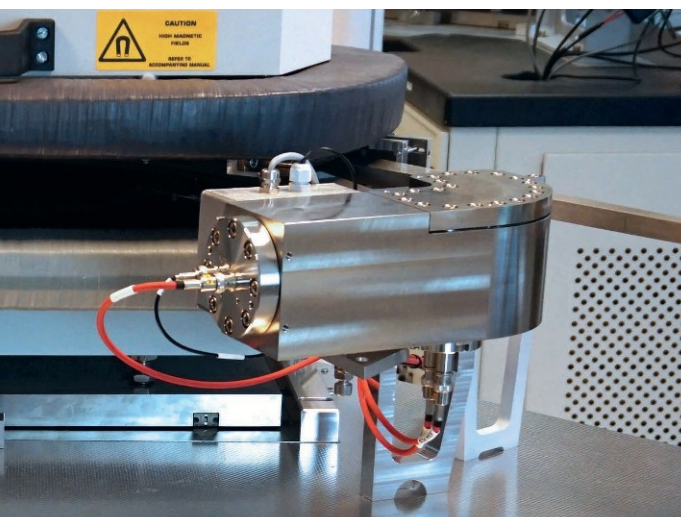
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www.sgo-penc.hu

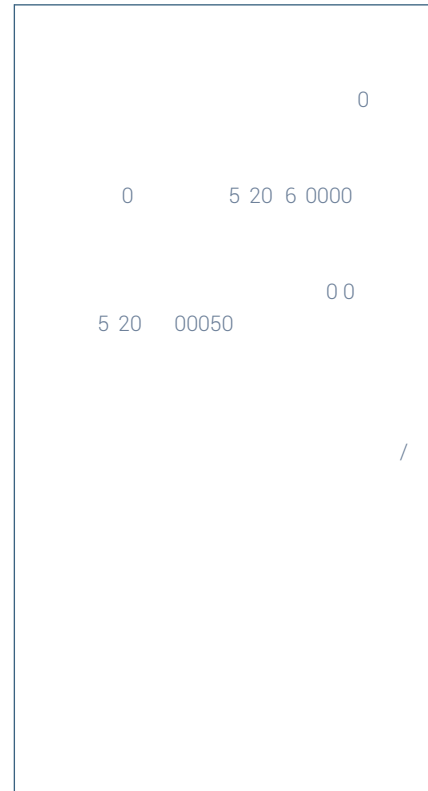
In 2019, Lechner Non-profit Ltd., a back-ground institution to the Prime Minister's Office,

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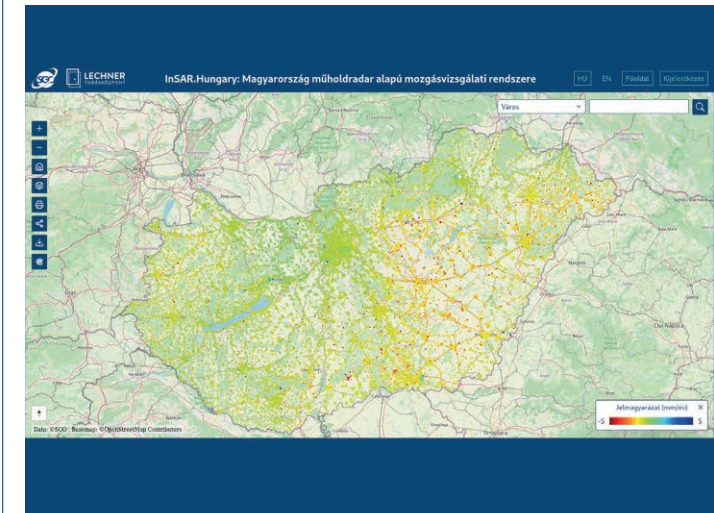
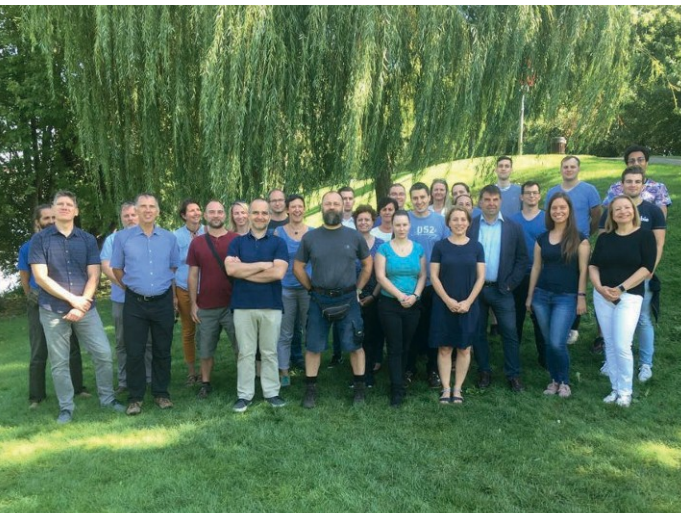
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www.mant.hu

In general, the main aim of our non-profit

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


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www.mcsnkft.hu www.svabhegyicsillagvizsgalo.hu

HAN Ltd. is a non-profit company engaged  
in scientific and science communication activ-

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ganized the first Hungarian Space Lecture at the

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• Competitions: „Towards Space!” (since 2020)  
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


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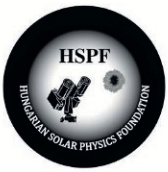
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observations for scientific research in astrono-  
solar and heliophysical scientific research and

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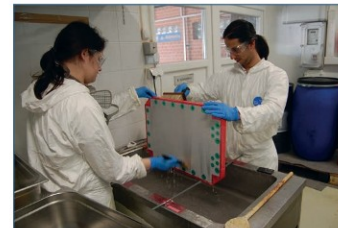
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Space qualified painting booth is



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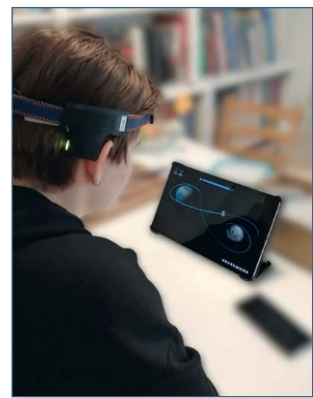
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of melt flow on the microstructure of solidified  
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lished a laboratory for solidification with its own  
able to stir the molten metal during solidification  
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sides scientific research, the group is performing  
investigation and simulation of solidification. As

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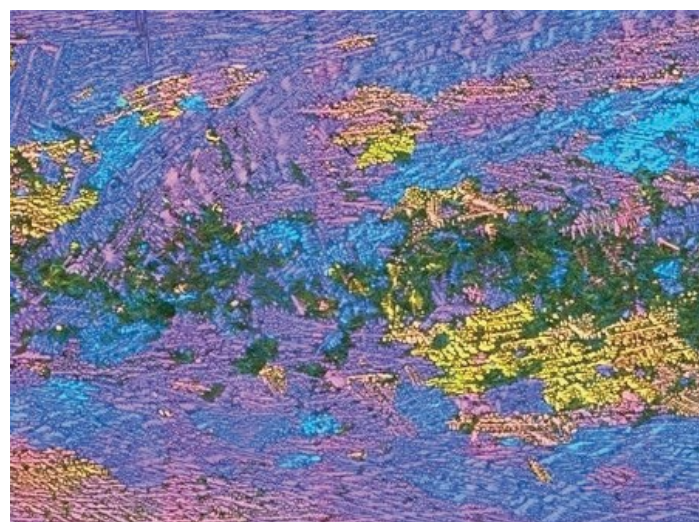


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efficient cooperation of the public and private

branch of industry – by its scientific-technical

By incorporating the latest research findings

in the scientific-professional elaboration of

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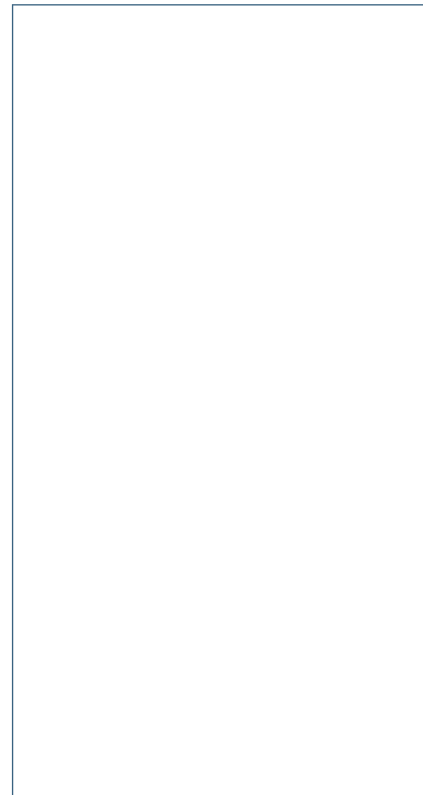
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educational activities in the fields of robotics,

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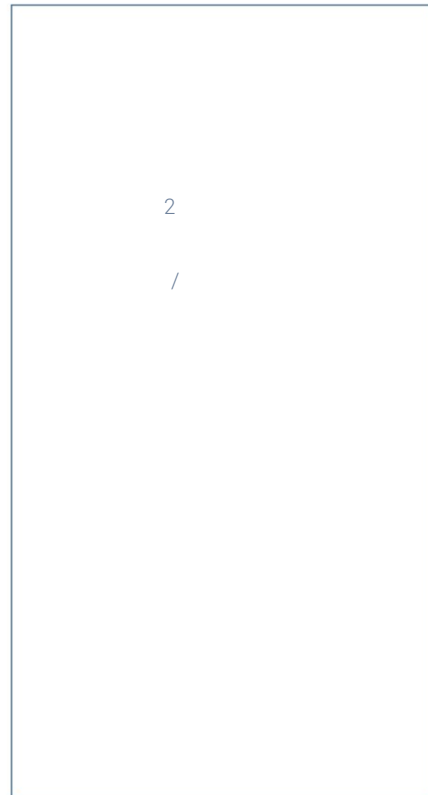


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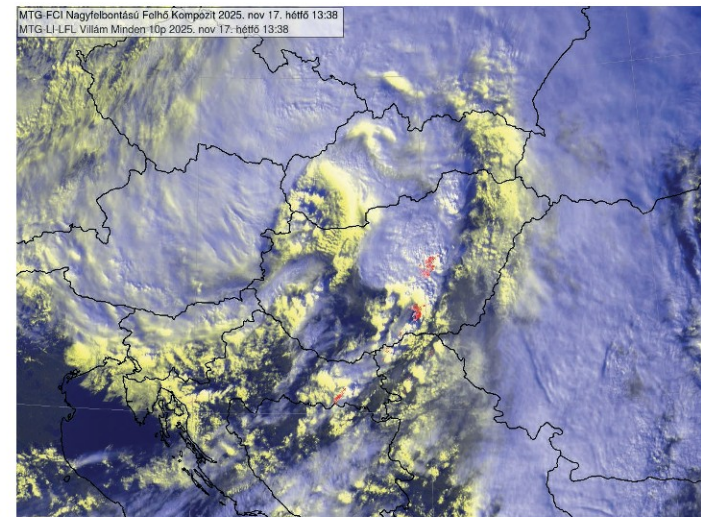
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pulispace.com



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came the first ever Hungarian instrument to land

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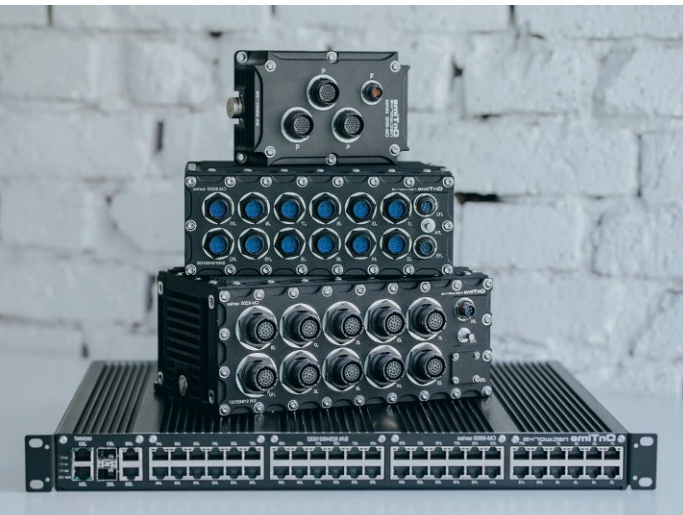
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• Experience in MILSTD and DO certifi-

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


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- HULEO Constellation: 6 2
- Lunar Gateway IDA:
- Digital Processing Module
- Dosimetry systems development for Mars Sample Return Earth Return Orbiter
- Space Dosimetry and Radiation Systems




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for different scientific instruments in missions

testing and verification.

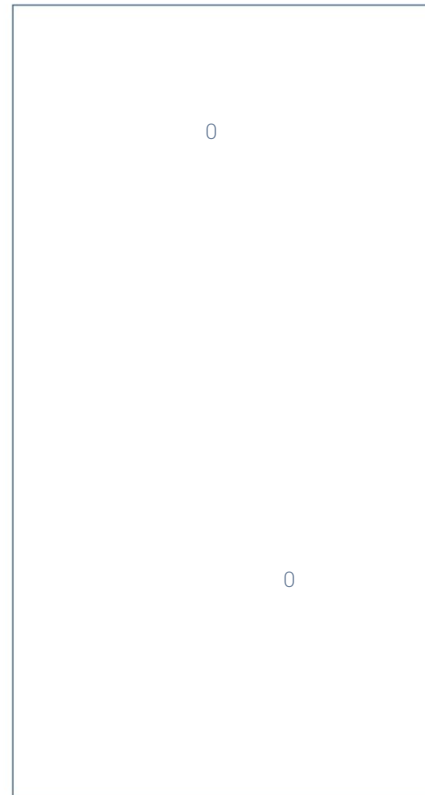
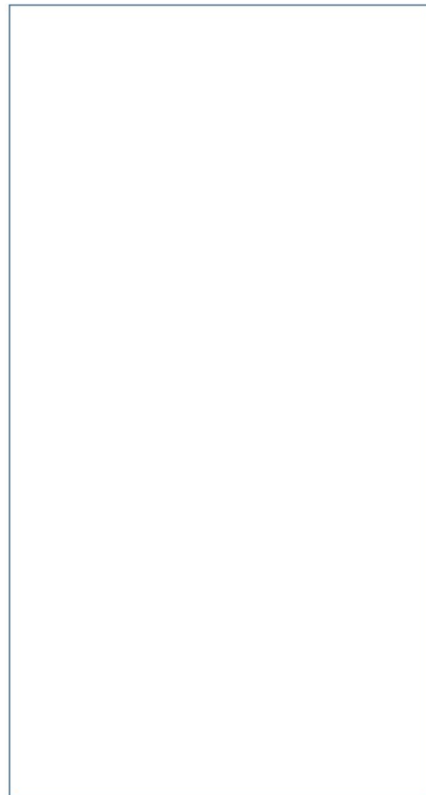
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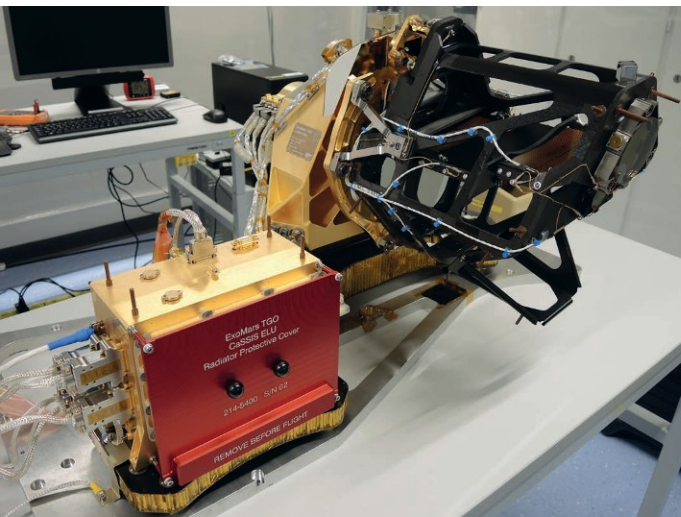
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www.space-medicine.com

address: 6200 Kiskőrös, Batthyány u. 47.  
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is benefiting from remote sensing, IoT, AI and

surroundings. The first startup project selected turned to radar imagery. We use artificial intel-

their fields.

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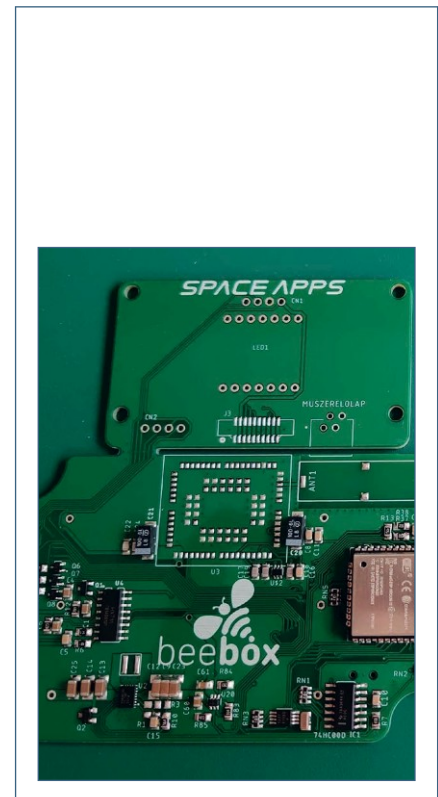
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SpaceABC App

high-fidelity operational settings and



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www.surviot.com

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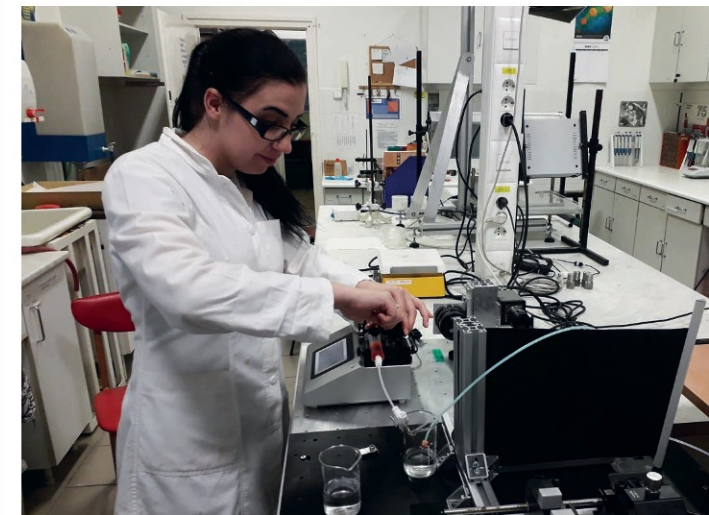
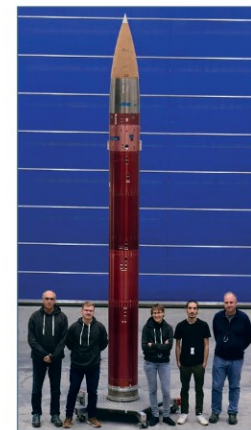
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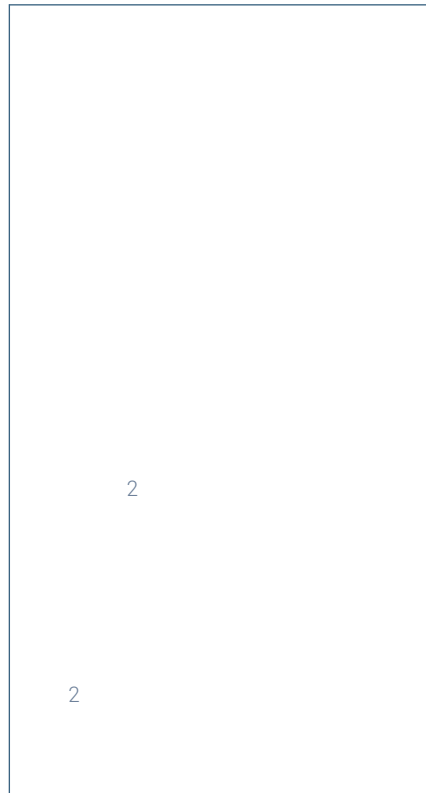


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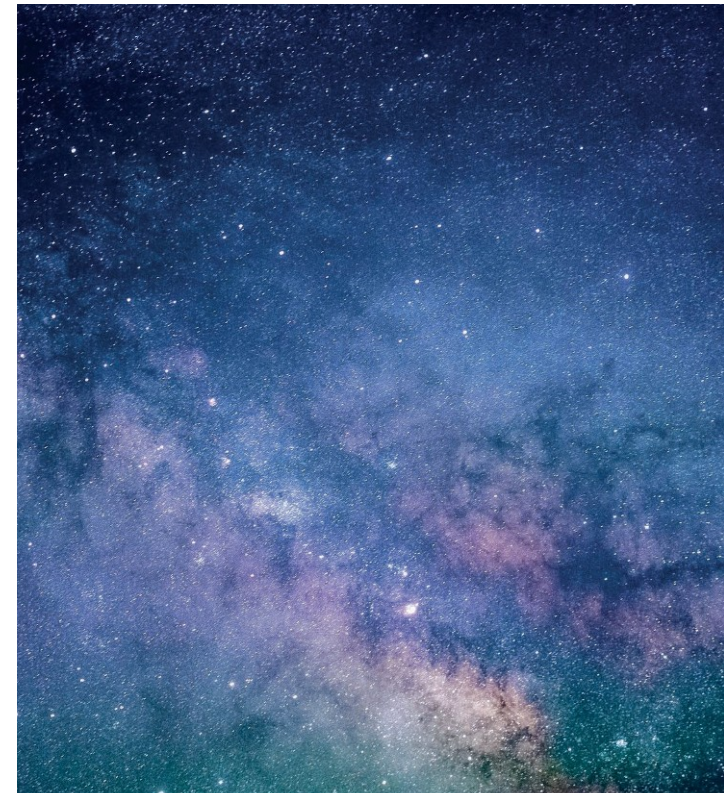
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