



EXPO
2020
DUBAI
UAE

I FEEL
SLOVENIA

OFFICIAL PARTICIPANT - SLOVENIA

Slovenia

Green and smart experience

SPACE

17. - 30. 10. 2021





FACTS ABOUT SLOVENIA

One of the fastest growing CEE countries

- **CAPITAL:**
LJUBLJANA
- **SURFACE AREA:**
20,273 km²
- **POPULATION:**
2.07 MILLION
- **CURRENCY:**
EURO
- **INTERNATIONAL CALLING CODE:**
+386
- **TIME ZONE:**
GMT/UTC +1
- **MEMBER OF THE OECD SINCE 2010**

- **Estimated GDP growth for 2021:**
4.7% (European Commission, Winter 2021 Economic Forecast)
- **Estimated GDP growth for 2022:**
5.2% (European Commission, Winter 2021 Economic Forecast)
- **Export of goods in 2020:** EUR 32.892 billion
- **TOP Export partners in 2020:**
Germany, Italy, Croatia, Austria, Switzerland, France, Poland
- **Import of goods in 2020:**
EUR 32.023 billion
- **TOP Import partners in 2020:**
Germany, Switzerland, Italy, Austria, Croatia, China, Hungary

- **22nd most developed country**
(Human Development Index 2019, UN)
- **11th safest country**
(Global Peace Index 2020)
- **14th in the quality of life**
(Numbeo Quality of Life Index 2021)
- **9th least polluted country in the world**
(Numbeo Quality of Life Index 2021)
- **Strong public healthcare system**
(Life expectancy at birth: 81 years, Human Development Index 2019, UN)



SLOVENIAN COMPANIES SET IMPORTANT MILESTONES IN THE SPACE SECTOR

Slovenian history of space activities goes way back to the year 1929 when a Slovenian rocket engineer and a pioneer of astronautics, Herman Potočnik Noordung, published his visionary book *“The Problem of Space Travel: The Rocket Motor”*.

And still today, Slovenian science and industry develops new solutions for exploring the universe and facilitating better use of space data in all areas of life. Our companies are engaging in various fields of the space industry, with a special focus on niche products and services, such as:

- applications connected to earth observation and the processing of big data obtained from space for different purposes (from agriculture to rescue operations and traffic),
- data acquisition and big data storage,
- telecommunication solutions,
- control and measuring systems,
- artificial intelligence,
- new materials that can be used in the harsh space environment,
- equipment for ground stations (antennas, domes, measuring instruments),
- innovative structure solutions,
- micro coolers,
- new solutions in the field of miniaturisation,

- microgravity facilities,
- on-board monitoring of health conditions of astronauts (bed rest studies),
- development of innovative solutions and products that are used in bigger equipment and applications
- development of micro- and nanosatellites.

In 2016, Slovenia concluded an Association Agreement with the European Space Agency (ESA), which has since been upgraded with the conclusion of a new Association Agreement in 2020. Slovenia already participates in four of ESA's optional programmes: GSTP, the Earth Observation Programme, the Human and Robotic Exploration Programme and PRODEX.

In past few years Slovenia has reached some important milestones. In September 2020, the first Slovenian satellites, Nemo HD and TRISAT, were launched into space. With near real-time multispectral images and videos from space, they made an additional step forward, featuring new miniaturised equipment for operation in the harsh space environment.

A new “human centrifuge” that will recreate gravity in bed-rest studies that are used for preparation of manned space missions has been installed in the Planica Nordic Centre in October 2021.

We look forward to welcoming you in Slovenian pavilion at the EXPO Dubai 2020, where you will be able to witness first-hand the potential and innovative spirit of our Green, Creative and Smart country.

Tomaž Kostanjevec, PhD, Director
SPIRIT Slovenia Business Development Agency





CORE BUSINESS

Designing, manufacturing, and installing air domes

ABOUT THE COMPANY

Today DUOL company is the global leader in the air dome industry with more than 1.600 covered objects worldwide. With custom-designed air domes and frame structures, meeting all local standards and requirements, DUOL has proven to be a valuable partner for any investor, with air dome applications ranging from sports, events & entertainment, industry & warehousing, agriculture, military and space.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- The success of turnkey projects is ensured by DUOL's professional services and DUOL's in-house team of specialists.
- Complete Engineering Support – Consulting, Design, Engineering, Calculations
- Production
- Installation
- Maintenance and repair
- After-sales service

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VALUE PROPOSITION / OFFERING

As a result of several prominent references, rich experience and well-versed team, DUOL sees a bright future ahead also due to the fact that airdomes have become an ideal solution and cheaper and faster alternative than conventional construction for covering any surface temporarily or permanently. To put simply, there is still a lot of ground to cover...

SEGMENTS

- Sports construction engineering
- Industrial production or storage halls
- Design, manufacture and installation of Radomes

REFERENCES

- Total SE
- Renault
- AC Milan
- Watford FC
- Zaha Hadid Architects





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ABOUT THE COMPANY

Out of 100 PCB manufacturers in Europe, we are one of only very few that can deliver high level of performance fast, reliable and economical. Clients who turn to us for help with next generation 5G products are multinational technology conglomerates with billions in turnover.

With over 120 highly qualified staff members and following the latest environmental and technological ISO and UL standards, our products have become an indispensable element of new technology final products.

MAIN ACTIVITIES / PRODUCTS / SERVICES

We have developed a new concept to offer services in this emerging 5G market. It's called INTEC 5G, a 3-stage program for prototyping, market entry and scale up of circuit boards for new products. We take your design, improve and optimize layout, suggest materials selection and architecture, increasing reliability and function. Then build the improved design in a 200 step process. All this in under 2 weeks.

VALUE PROPOSITION / OFFERING

Intectiv - The next half of a century. Nature speaks to our imagination.

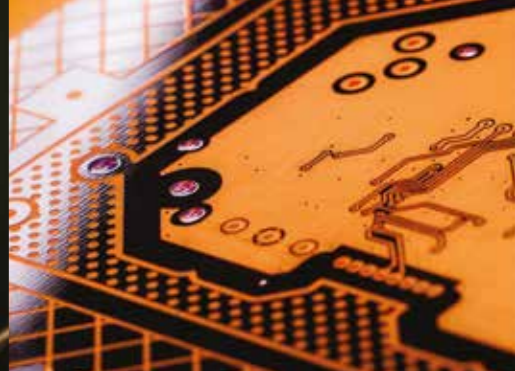
Our imagination speaks to your design.

Half a century of experience, from fine craftsmanship to internet of Everything.

We've been around. And here is what we've learned:

- It's good to offer a product. It's better to offer a service.
- Electronics industry is here to stay and so are we.
- Customers' satisfaction is important. Making this world a better place is paramount.

Bee's eye perfection



PCB perfection





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CORE BUSINESS

Constructing, assembling and producing electronic devices and systems.

ABOUT THE COMPANY

Our company produces samples and prototypes and provides the composition of small, medium and large (up to several thousand pieces) series of electronic circuits and devices. Custom-made final products can also be assembled. SMT and THT technology is used with an addition of manual soldering and own development.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Research&Development
- Prototyping
- Assembly of PCB boards
- Manufacturing electronic devices with state of the art technology (SMT and THT)

VALUE PROPOSITION / OFFERING

High quality and rapid response. We respond to technological challenges and provide custom-made assembly of PCB boards.

As a company with many years of experience, reliability, stability and professionalism we wish to continue offering the production and development of quality electronic circuits for high tech devices of the future.

SEGMENTS

- Ground systems
- Launchers
- Navigation equipment

REFERENCES

- Testing equipment for cable sets
- Electronic devices for FAIR, Germany
- Navigation instruments for ultralight planes and gliders
- Electronic equipment for different accelerators as a partner in projects with multiple companies involved
- Photon detector (Arich) for accelerator SuperKekB in Belle II, Japan





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CORE BUSINESS

Design, production and installation of custom inflatable and wooden halls.

ABOUT THE COMPANY

DBS Engineering presents a new generation of state-of-the-art inflatable halls and wooden structures for sports, industrial and other unique purposes. When developing and designing products, they prioritize energy efficiency in extreme climate conditions and the development of eco-membrane systems that enable the highest level of energy savings.

They are extremely proud to cooperate with Interstellar Lab, one of the fastest growing space technology start-ups in the world. A remarkable achievement and focus of the company are the assistance in the development of technological solutions for the fabrication of a complete ecosystem (BioPods), that will enable man to live comfortably in space.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- air-supported structures,
- wooden halls,
- tensile membrane structures,
- customized architectural membranes,
- development of technological solutions for living in space.

SEGMENTS

Specialized construction engineering, air domes, wooden halls, customized unique facilities, space engineering.

VALUE PROPOSITION / OFFERING

- Innovation with more than 25 years of experience.
- More than a 1000 air domes installed.
- Precision and outstanding quality.
- Advanced HVAC systems for space development projects.
- Completely custom air dome design and development.
- Second to none customer support.

REFERENCES

- **Jätkäsaari Junior air dome:** Joint venture with JKMM Architects, one of the most established architectural firms in Finland. This hall is one of the most architecturally advanced air domes in the world, located in downtown of Helsinki.
- **Connacht GAA air dome:** The largest air-supported structure in Eurasia, covering 15,000 m², that can accommodate up to 5,000 spectators. This places it among the biggest air domes in the world in terms of size.
- **Kempeelen air dome:** First air dome with insulation and A1 fire behaviour in the world.
- **National school of Emirates:** The safest air dome for kids and the first air dome from DBS Engineering's MASTER product line. Criteria was to build a bullet proof air supported structure that provides an extremely safe environment for kids.
- **ES Global - Gainsbury and Whiting:** Unique transparent air supported structure for a fashion show on top of a car park overlooking London city.
- **Interstellar Lab:** DBS Engineering partnered with a French high-tech start-up company to develop technologies to improve environment-controlled pods for crop cultivation on Earth and life support in Space.





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ABOUT THE COMPANY

We're a team of creatives, leaders and engineers solving one of the top 10 reasons for boat accidents. We're developing the world's first video anchor monitoring system. Imagine a baby monitor for the anchor installed on the captain's phone. If the anchor moves, an alarm goes off, so they can react in time and move the boat to safety. It's like parking cameras on cars - in 10 years, blind anchoring will be history.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- VisionAnchor smart anchoring system
- VisionAnchor Pro for charter companies and fleet operators
- VisionAnchor research for underwater observation
- VisionAnchor mapping system for photo mapping the seabed

VALUE PROPOSITION / OFFERING

We help people get eyes on their anchor, so they can anchor safer for themselves and the environment by giving them a complete anchoring system.

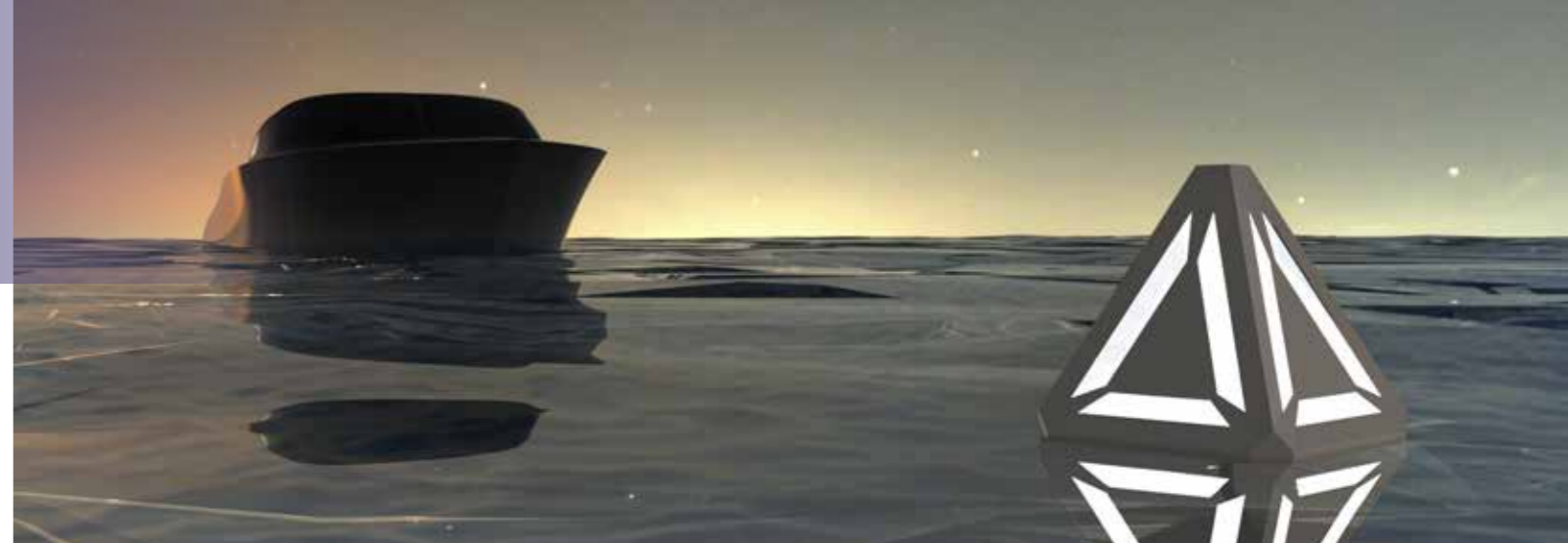
Our collected data will help everyone at sea to avoid danger as well as understand and protect the sea ecosystem.

SEGMENTS

- Marine
- Research
- Space

REFERENCES

- MyGalileoSolution competition winners from European GNSS agency
- Slovenian Ministry of Economic Development and Technology support
- 10+ b2b European nautical companies support





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CORE BUSINESS

Development of electronic components, subsystems and systems for Space.

ABOUT THE COMPANY

SkyLabs is a space-technology oriented company providing miniaturized satellite platforms and an innovative approach to space engineering. SkyLabs is providing services and technology solutions for the most demanding aerospace and terrestrial applications. By following the latest technology trends, we provide innovative solutions with a proactive and creative design approach.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- High-tech tailor-made satellite solutions
- Fault tolerant and radiation tolerant electronics design
- RF systems and signal processing
- Fail safe software design
- AI enhanced solutions with machine learning
- Radiation hardened by design IP/ASIC design
- Advanced RF design and space/ground communications

VALUE PROPOSITION / OFFERING

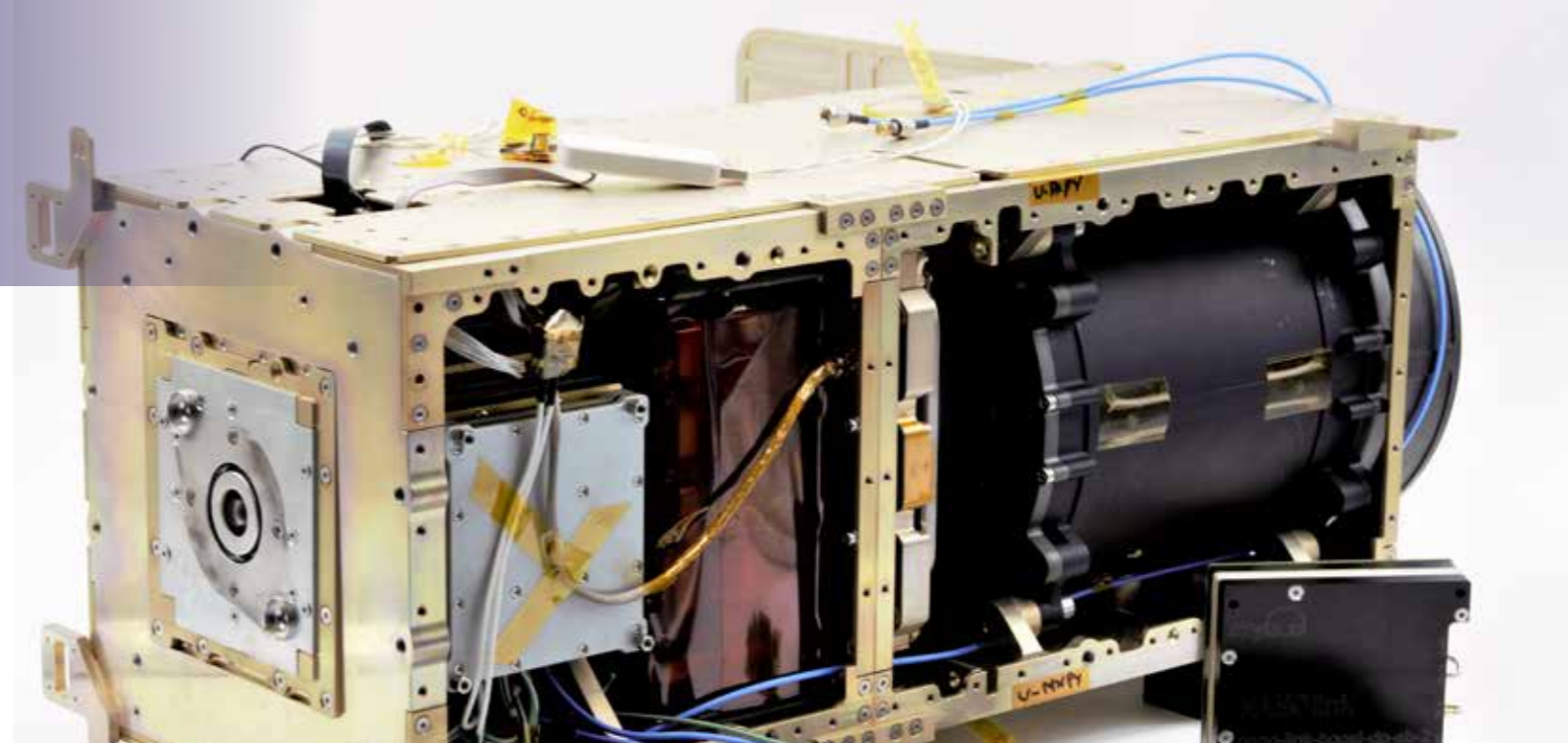
SkyLabs is providing services and technology solutions for the most demanding aerospace and terrestrial applications. By following the latest technology trends, we provide innovative solutions with a proactive and creative design approach.

SEGMENTS

- On-Board Data Handling Systems
- Satellite Communications
- Electrical Ground Support EquipmentReferences

REFERENCES

- First Slovenian satellite TRISAT (based on SkyLabs NANOsky I satellite platform)
- NANOsky I microsatellite platform is utilised on OHB Italia innovative M3 Platform - (Multi Mission Microsatellite)
- NANOsky I platform used also on various Earth Observation, IoT, and Scientific constellation missions
- ATTM-WRTU Radiation tolerant wireless system for CERN - particle accelerator facility
- AI enhanced solutions for Space and terrestrial industry





Tiskana vezja LUZNAR d.o.o
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CORE BUSINESS

We manufacture and assembly printed circuit boards (PCB and PCBA) under one roof.

ABOUT THE COMPANY

We take pride in our successful business tradition which we have been building for the past 30 years, currently managed by the second generation of Luznar entrepreneurs.

Tiskana vezja Luznar is one of the rare companies which combines electronic industry services all under one roof enabling in such a way fast prototype production for the emerging new-era technologies (IoT, 5G, electric vehicles, industry 4.0, ...). Electronic devices are widely used as operational and control units in almost all known industries so R&D departments of established European market leaders are regular customers. Swift and quality production enables customers R&D dept. prototype evaluation and eventual product iterations before launching perfect final product on the market.

Our vision is to actively participate to the plan called "Smart Europe" - enabling in such a way the European Union's long term Third Industrial Revolution economic vision and development plan to usher in an Internet of Things digital infrastructure across the European Union and its partnership regions to create a smart post-carbon economy, ecological society, and the world's largest single integrated economic marketplace.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Our company combines the manufacture and assembly of printed circuit boards under one roof, which enables you to order complete PCBA service at one place
- Upon your request we can produce flawless prototypes of printed circuit boards or other small series in less than 24 hours from order

confirmation - ideal for fast prototyping of urgent projects.

- We are offering long-term relationship for serial production with fixed price annual orders and call-offs upon your request.
- As an additional service for a complete product we organise also functional testing of the boards, programming with your software, wiring, coating, in-housing assembly and packing according to your request.

VALUE PROPOSITION / OFFERING

- Our company combines the manufacture and assembly of printed circuit boards under one roof, which allows us to be flexible and achieve fast manufacturing times
- We are always here for our customers to offer professional advice before, during and after placing an order. Customer satisfaction, not only with the final product, but throughout the entire process - from submitting the order to receiving materials - is our top priority.
- We received highest quality certificates
- We respect the agreed delivery periods and undertake to deliver the ordered materials to our customers within the specified time frame.

SEGMENTS

aviation and aerospace industry / industrial electronics / medical and cosmetic devices / defence industry

REFERENCES

- Aviation and aerospace industry
- Medicine
- Other industrial electronics
- Signalization
- Gambling



Always a step further.



**BALMAR d.o.o.**

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CORE BUSINESS

- Advanced manufacturing (additive manufacturing) of metal products,
- Business in aviation (airline business, training in aviation and smart maintenance).

ABOUT THE COMPANY

Company BALMAR d.o.o. is privately owned small-sized enterprise, established in 2008. It provides services and R&D activities for aerospace, space, automotive, biomedicine and defence industry. Major scope of company activities relates to advanced manufacturing/additive manufacturing of metal products and support activities in aviation for airlines, training and maintenance organisations.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Development and additive manufacturing of metal products,
- Advanced joining and thermal solutions for space and aerospace,
- Effective repair solutions,
- R&D and testing of metal materials,
- Consultancy service for Air and Ground Operations (EASA AOC support activities),
- Training in Aviation (EASA ATO and Part FCL support activities).

VALUE PROPOSITION/OFFERING

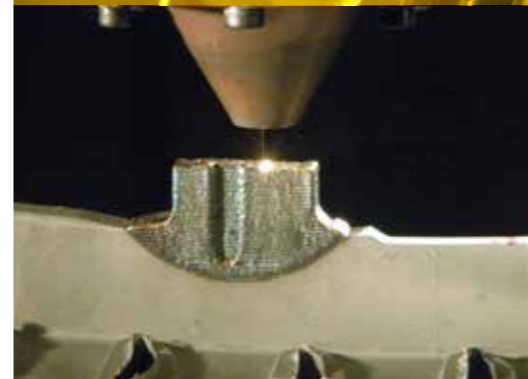
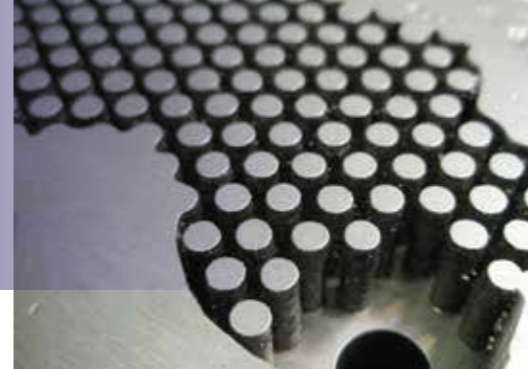
BALMAR Company provides wide range of products and services for aerospace, space and defence Industry. Major advantage is company flexibility in product's designs and manufacturing process, enabling development and production of advanced products with high added value.

SEGMENTS

- Advanced structures, mechanisms and propulsion systems for space industry.
- Support activities for airlines and aviation training organisations.
- Smart Maintenance for space, aerospace and defence applications.

REFERENCES

- European Space Agency (ESA): Development, Prototyping and Manufacture of special Metal Components for Space Applications with Advanced Laser Technology LENS (LENS FOR SPACE); Contract No. 4000103860/11/NL/KML.
- European Space Agency (ESA): Assessing the Use of Advanced Manufacturing to Improve and Expand Space Hardware Capabilities; Contract No. No.4000121982/17/NL/BJ/gp.
- European Space Agency (ESA): Secondment of dr. Simon Malej at ESA as the Advanced Manufacturing Engineer in the Structures and Mechanisms Division (TEC-MS), ESTEC, the Netherlands.
- Airline project Express Airways (Slovenia-Germany)
- Airline project Cosmo Airlines/MIDEAMERICA, S.L.U. (Spain).





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ABOUT THE COMPANY

Bias Variance Labs is a research-led SME, with a mission to facilitate the data-to discovery & decision processes for space research and technology, by developing, deploying and supporting state-of-the-art interpretable Artificial Intelligence (AI) solutions for modeling and analysis of complex systems. We advise and provide sophisticated and accurate AI solutions, best tailored for our clients' needs.

MAIN ACTIVITIES / PRODUCTS / SERVICES

GalaxAI: Machine learning for optimal space operations

- A toolbox for modelling spacecraft status and behaviour
- Facilitate better mission planning through accurate data analysis and more informative decision making
- Mars Express: substantial improvements in predictions of thermal power consumption
- NTEGRAL: Recovered up to 2h science-time per orbit, by significant improvement in predicting Van Allen belts crossings.

AiTLAS: AI toolbox for Earth Observation data

- Make AI methods available to EO experts & EO data ready-to-use for AI experts!
- Archaeology: Maya sites location
- Agriculture: Crop type prediction for Slovenia, the Netherlands and Denmark

VALUE PROPOSITION / OFFERING

We provide novel solutions that address all aspects of the data lifecycle: data storage & stewardship, data and knowledge representation, machine learning and visualization.

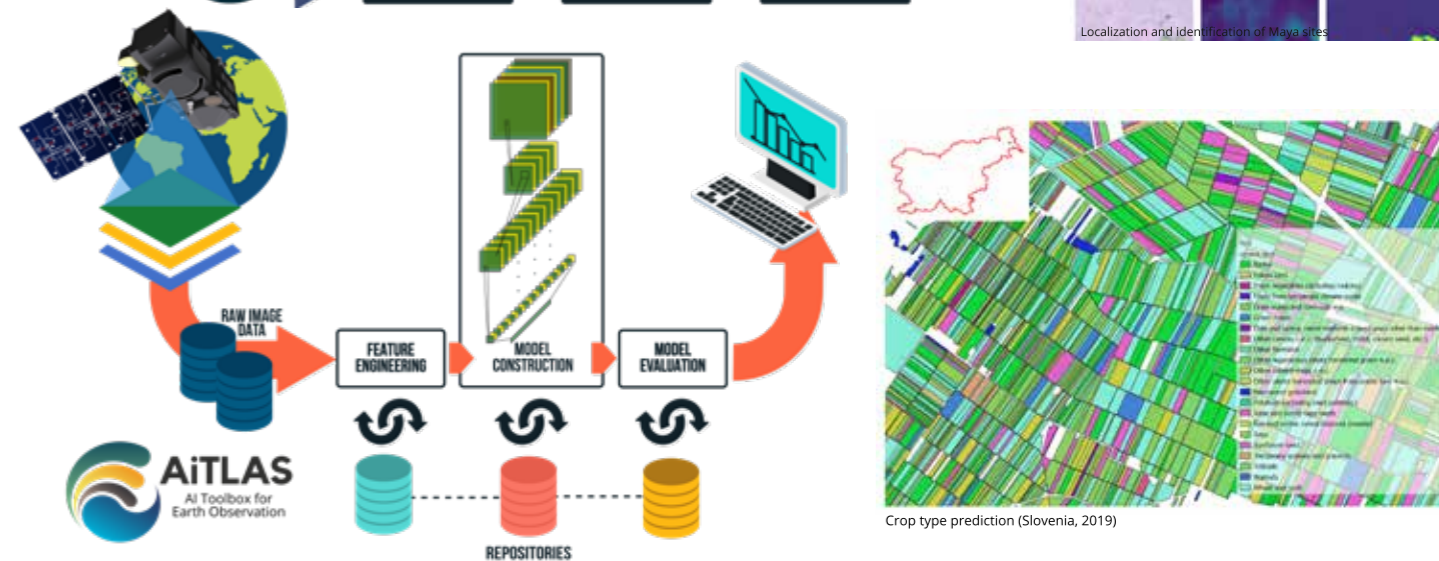
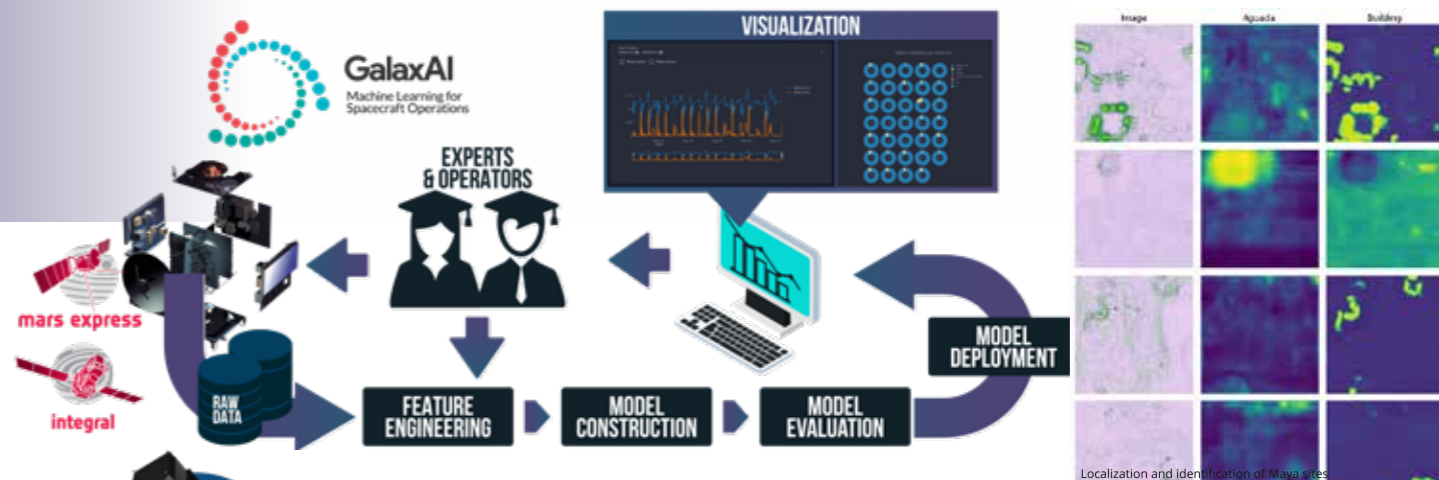
- Our mission is open-data, open-source & open-science:
- Open data in an AI-ready format
- Open source SOTA AI models
- Easy to use, re-use & apply through modular and intuitive design in different computing environments

SEGMENTS

- Space segments that are most relevant for your company (by categories: ground systems, launchers, life in space, satellites, space applications, earth observation, space exploration, space mining, space settlement)
- Earth Observation; Satellites; Space Exploration

REFERENCES

- Prime contractors of GalaxAI and AiTLAS, both ESA funded activities.
- Presentations at scientific/technological events (incl. SMC IT 2017-2021, PhiWeek2019, DS2019, SpaceOPs2021)
- Organization of events (ML for spacecraft health @SMC IT 2021, AI for spacecraft longevity @JCAI 2021, Space & AI 2021, Maya Competition @ECML PKDD 2021)





CORE BUSINESS

Research and development activities in the social sciences and humanities

ABOUT THE COMPANY

The basic mission of Center Noordung is to research, collect and communicate the knowledge of space and space technologies to the public in a way that sensibly connects and intertwines the science, economy, tourism and art. It features interesting and interactive exhibitions and multimedia content that give visitors an insight into space exploration and encourage them to think about the infinity of the Universe.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- The development, installation and marketing of space content in the form of exhibitions, exhibitions of items and multimedia interactive applications that we offer to the general public.
- Virtual experiences.
- Learning about artificial intelligence with a humanoid robot.
- Conference center and organisation of events.

SEGMENTS

- Research and development activities
- Museum activities
- Organization of events

Center of space technologies Herman Potočnik Noordung Na vasi 18, 3205 Vitanje

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VALUE PROPOSITION / OFFERING

- Modern architecture, a facility that gives an impression of something different, futuristic.
- The round hall suitable for conferences and symposiums (up to 300 chairs).
- Independent conference room in the gallery (up to 15 people).
- Catering with local delicacies.
- Guided or independent viewing of space exhibitions and interactive applications.

REFERENCES

- Ministry of Economic Development and Technology
- U.S. Embassy in Slovenia
- Embassy of the Russian Federation in the Republic of Slovenia
- Skylabs
- ASIS - Alpine Social Innovation Strategy





COSYLAB d.d, Control System Laboratory
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CORE BUSINESS

Engineering services and products for Cutting-Edge Industries:
Space, Radiotherapy, Fusion and Big Science

ABOUT THE COMPANY

Cosylab is a global technology company employing 300+ people that develops and integrates state-of-the-art software and electronics for the world's most complex, precise, and advanced systems. Specialized in control systems software in various high-tech industries, COSYLAB has been collaborating with ESA and primes in the domain of software for support of space missions.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Engineering services for EGSE development and system integration (Software & Electronics).
- Control systems engineering services for mission pre-launch and operations phases
- ECSS-compliant project execution; expertise in space-specific communication protocols, space system data models preparation and editing, MCS software vertical column expertise, ground station system integration, AIT, etc.

SEGMENTS

- Ground systems
- Satellites
- Space applications

VALUE PROPOSITION / OFFERING

- By partnering with Cosylab, you gain:
- a competitive advantage by shortening your time-to-market and lowering your business risk,
- complete documentation according to the required standards and processes
- ability to tap into a large pool of highly skilled employees with domain and subject-matter expertise
- worldwide support, remote and on site.

REFERENCES

- ESA/ESOC: Integration of various communication bus technologies (MIL-STD-1553, CAN/CANopen, SpaceWire) into the EGS-CC for AIT use-cases
- ESA/ESTEC: EGS-CC MVP consolidation activities and QA-system improvements
- European Ground Segment - Common Core (ESA): end to end system validation
- Development of essential space system modelling tools for ESA's new ground segment
- ESA/ESOC: Development of the new generation user interface for operational monitoring and control applications



©EPS



©ESO



©CERN



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ABOUT THE COMPANY

Our mission is to revolutionize the measurement industry by developing innovative solutions that are tailored to our customers' needs.

We are on a mission to challenge and change the world of measurement technology. We develop solutions that are based on the end-user experience in mind by always thinking differently and bounding ourselves to the highest standards.

Our vision is to design test equipment that simplifies the advancement of humanity.

We are striving to be the customer's ultimate choice in measurement equipment created for maximum effectiveness and with stunning design. By working together with our customers on highly challenging projects we are able to provide the ultimate solution to the job at hand.

Dewesoft is a best-in-class provider of data acquisition devices. What distinguishes our approach is the human element. While most companies design tools starting with the device and ending with the user experience, we take the opposite approach. We reverse engineer our products, starting with the experience that our users require. We then construct the hardware and software around the outcome of delivering the fastest, most efficient, most intuitive user experience possible. We don't just manufacture machines; we engineer moments that elevate your businesses' understanding of a particular learning outcome.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Data acquisition systems development and manufacturing
- Measurement and signal processing software development
- Calibration services
- Sales and support services (local offices worldwide - <https://dewesoft.com/support/distributors>)

SEGMENTS

- Aerospace telemetry
- General data recording (temperature, vibration, strain gauge, distance, force, weight, CAN, XCP, GPS, IMU, Video, ...)
- Vehicle testing (ground and air)
- Power analysis
- NVH (vibration and acoustics analysis)

VALUE PROPOSITION / OFFERING

- Our DAQ system include free software with life-time free software upgrades
- Industry-leading 7-year warranty
- Modular design of hardware
- One software for all measurement and testing applications
- FREE online PRO training for beginners and advanced users

REFERENCES

SpaceX / NASA / Boeing / Airbus / ESA





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ABOUT THE COMPANY

GeoCodis, information systems, Ltd. is a company specialised in software development in the fields of remote sensing, water management, GIS and mobile network industry solutions. GeoCodis developed a visualisation and analysis portal focused on detection of surface water and flood areas from radar satellite Sentinel-1. Results of the radar satellite image analyses are integrated into the final portal www.vodakje.si which is daily used by Slovenian Environmental Agency and others. GeoCodis was involved in the ESA-founded project Customised Earth Observation Services. Several automated services for detection of built-up areas and water bodies were developed for serving World Bank needs in Sub Saharan African countries. GeoCodis developed a prototype system MLEO for creation of machine learning data samples and analysing satellite images using machine learning approach.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Development of customised Earth Observation services
- Integration of Earth Observation products to business applications
- Development of high value products based on Spatial Analytics and Artificial Intelligence

SEGMENTS

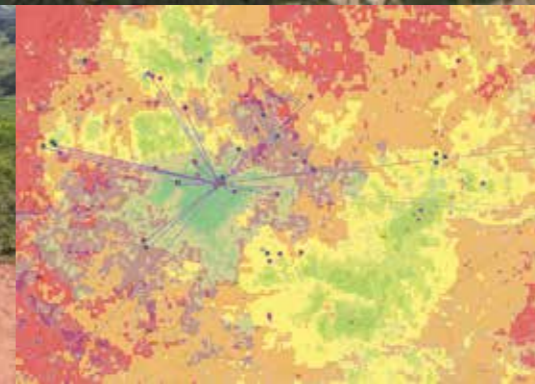
- Earth Observation
- Water Management
- Mobile Phone Industry

VALUE PROPOSITION / OFFERING

GeoCodis is offering professional and high value customer-based applications and integration services. Our team is having experiences also to work with customers from different countries including Middle East, Africa and Asia.

REFERENCES

- Portals WhereIsWater.at and VodaKje.si for automatic detection of water bodies based on Sentinel 1 radar imagery,
- Customised Earth Observation Information Services for detection of built-up areas in sub-Saharan countries, European Space Agency
- Improvement, Adaptation, and Implementation of previously developed Customised Earth Observation Services for Improving Water Supply Management in Uganda, European Space Agency
- Monitoring and Management solutions for mobile phone industry, A1 Slovenia, A1 Serbia
- Different Water Management related applications developed for public and government institutions in Uganda, Rwanda and Kenya





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CORE BUSINESS

GIS company building large turn-key geospatial systems in the fields of cloud GIS, agriculture and real-estate administration.

ABOUT THE COMPANY

Sinergise is focusing on areas where it can have the greatest impact: Earth Observation, making it easier for individuals, institutions, and value-adders to get actionable insights into what is happening with our planet; supporting IT processes in Agriculture that ensure more efficient use of resources while ensuring ecosystem sustainability; and Land Administration processes that are essential for government transparency and economic growth.

MAIN ACTIVITIES / PRODUCTS / SERVICES

- **Sentinel Hub** - an award-winning satellite imagery archiving, processing and distribution service - powers EO applications around the world, processes hundreds of millions of requests each month, crunching more than 50 PB of data from Sentinel, Landsat, Planet, Pleiades, WorldView and other missions.
- **Area Monitoring** - machine-learning assisted extraction of information from EO data for proactive monitoring of state of the land (identification of agriculture activities, new building constructions, etc.)

SEGMENTS

- Space
- Agriculture
- Real-Estate

VALUE PROPOSITION / OFFERING

They started by partnering with AWS to bring the open Copernicus Sentinel data to the cloud and make it accessible to everyone. By automating the continuous monitoring of our planet and shuffling through dozens TB of data available daily, they help extract relevant information. Using batch processing, they create machine-learning features to demonstrate cost-efficient low-scale analysis, combined with drill-down methods and fusing data from sources other than EO.

REFERENCES

- European Space Agency (CreoDIAS, Mundi Web Services, ONDA, WEkEO, CODE-DE; EO Browser, Euro Data Cube, Query Planet; Digital Twin of News)
- NASA, Geoscience Australia (Sentinel-1 CARD4L tool)
- European Environmental Agency, Joint Research Centre (Sentinel-2 Global Mosaic, part of Copernicus Land Monitoring Services)
- Various corporate clients such as Maxar, TomTom, CLAAS, EU Satellite Centre, JRC and 1,500 others, using Sentinel Hub data to power their applications.





CENTRE OF EXCELLENCE
FOR SPACE SCIENCE AND TECHNOLOGIES

ABOUT THE COMPANY

SPACE-SI is the Slovenian Centre of Excellence for Space Sciences and Technologies specialised in the development and applications of microsatellite technologies. It has developed the first Slovenian microsatellite mission NEMO-HD, transportable ground station system STREAM and fully automatic processing chain for Earth observation data STORM. The centre is well equipped for thermomechanical testing and integration of materials, components and space systems including clean room facilities, Thermal Vacuum Chamber and nanoindenter.

SPACE-SI is provider of video and multispectral images from space, it operates three ground stations in Slovenia for UHF, S and X band satellite communications and is Copernicus Relay Centre that combines Sentinel data with NewSpace satellite sensors to enable frequent and cost-effective remote sensing applications in ecology, agriculture, forestry, land cover mapping, urbanism and maritime, as well as for monitoring climate changes, natural disasters and use of natural resources

MAIN ACTIVITIES / PRODUCTS / SERVICES

- Small satellite mission design and operation (NEMO-HD)
- Video and multispectral imaging for low latency and real time EO
- Agile and precise tracking of stationary scenes and EO paths
- Micro/macro imaging using multi-payload LR/HR sensors
- Ground station development and operation (STREAM)
- Transportable ground station technologies for S, X, Ka/Ku bands
- Autotrack and feed technologies
- Earth Observation Data Processing and Applications (STORM)
- Video analytics for environmental and economic indicators
- Natural disaster monitoring including droughts, floods, forest fires
- Monitoring of blue and green corridors, coastal areas, river basins,

SPACE-SI

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smart cities, ports, airports, motorways, open mines, etc.

- Testing and integration of materials, components, and systems
- Thermomechanical testing in Thermal Vacuum Chamber
- Nanoindentation materials testing and characterisation
- Clean room facilities

SEGMENTS

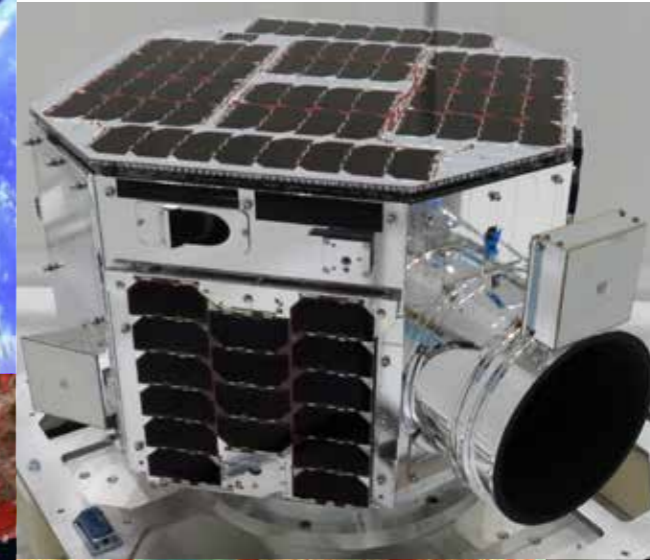
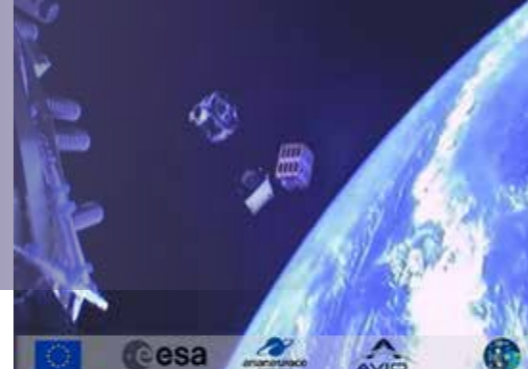
Ground systems / Satellites / Space applications / Earth observation

VALUE PROPOSITION / OFFERING

SPACE-SI develops high-tech NewSpace products and services from customised satellite and ground segment components all the way to the complete end-to-end solutions for the most advanced space missions.

REFERENCES

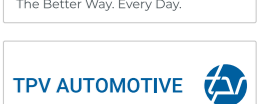
- ESA, Verification of Small Satellite Market Development Concepts for Commercial Transportable Ground Station Operators - ESA GS1 (2020 - 2022)
- ESA Prodex, Enhanced Scientific Data Acquisition for ESA M5 THESEUS Mission - eTEZEJ (2020 - 2021)
- ESA, Novel EO data for improved agricultural drought impact forecasting in the Pannonian basin - DryPan (2019 - 2021)
- ESA PECS, New low-loss radomes for broadband communications up to 40 GHz - NewRadome (2018 - 2019)
- UIA, APPLAUSE (2017 - 2020)
- Interreg Danube, project DriDanube - Drought Risk in the Danube Region (2017-2019)
- ESA PECS, Geopedia pay-per-use demonstration on optical HR cloud platform (2016-2018)
- ESA PECS project Sentinel2Agri4Slovenia (2015-2017)
- SRA J2-6777 Automatic object-oriented land cover classification of optical remote sensing data (2014-2017)
- ESA PECS project SatDroughtMon (2012-2014)



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