

I FEEL
SLOVENIA

GREEN.
CREATIVE.
SMART.



SLOVENIA@CERN

“ In Slovenia, you can drink tap water, since it is pristine.”

FACTS ABOUT SLOVENIA

Official name: Republic of Slovenia.

Capital: Ljubljana.

Political system: parliamentary democracy.

Surface area: 20,273 km².

Population: 2.07 million.

Currency: euro

International calling code: +386

Time zone: GMT/UTC +1.

Member of the EU since 1 May 2004.

Adopted the euro (€) as the national currency on 1 January 2007.

Schengen area member state since 21 December 2007.

Member of the OECD since July 2010.





“Slovenia is a country of forests, which cover almost 60 % of its surface. In percentage of forest cover, Slovenia comes in the third place in the European Union, after Sweden and Finland.

Honourable CERN representatives, esteemed researchers and Slovenian business representatives,

The Republic of Slovenia's associate membership in the European Organization for Nuclear Research (CERN) undoubtedly marks an important milestone on the path towards the full membership that Slovenia hopes to obtain in 2022. Nevertheless, the associate membership in itself provides an opportunity for Slovenian science and economy to create additional value and enhance development.

This membership grants Slovenian scientists unlimited access to all CERN programmes and thereby increases the intellectual base of collaborating institutions. Associate membership also bodes well for the Slovenian economy, seeing as it allows Slovenian businesses full access to CERN contracts and, through that, entry into highly competitive markets of knowledge-based products.

Slovenian scientists established scientific cooperation with CERN many years ago, in fact even before Slovenia became an independent state. In their decades of joint projects with CERN, Slovenian scientists achieved multiple scientific breakthroughs in understanding the fundamental building blocks of nature and the relations between them. Based on the research conducted at CERN, Slovenian scientists published more than 1,300 scientific papers in high-impact international journals. These works contributed around 54,000 citations to Slovenian science, of which more than 5,000 can be attributed to the paper on the discovery of the Higgs particle. In addition to the work carried out at CERN, twenty-five bachelor's, twelve master's and twenty-three doctoral theses were completed. Another benefit is the opportunity to be involved in not only the scientific research at CERN, but also to participate in educational programmes and the construction of parts and instruments for future accelerators.

I am overjoyed that the associate membership opened up opportunities for cooperation for the Slovenian economy.

For that reason, I welcome the very first Slovenian Industry Day at CERN, which I hope will result in new and stronger collaborative relationships, and provide opportunities for joint scientific and economic work related to research and development in CERN. I believe that including Slovenian businesses in CERN's work will also strengthen the relationship and cooperation between Slovenian science and economy.

The positive response of the Slovenian economy to the first Slovenian Industry Day at CERN is encouraging and it suggests that such events at CERN will become a well-established practice allowing exchanging information, strengthening cooperation and, in the future, furthering Slovenian business interests in these events.

With the Slovenian Industry Day at CERN we aim to draw attention to the importance of research and development activities and the benefits they provide to society. I am glad that the event at CERN is taking place in autumn, as, in Slovenia, this is a season with many events related to the presentation, work, successes and promotion of scientific achievements.

I wish you all successful work and I hope for many productive individual meetings between Slovenian business representatives and CERN, which will bring new business and long-term collaboration.



Dr. **Jernej Pikalo**
Minister of Education, Science and Sport



“ The basic activity of the public institute is the promotion of space technologies and the manifestation of human achievements in space with the interweaving of art and high technologies.

The offer includes the development, installation and marketing of space content in the form of art exhibitions, exhibitions of items and multimedia interactive applications that we offer to the general public.

www.center-noordung.si

Center of Space Technologies
Herman Potočnik Noordung, Vitanje



“Your business can be easily driven by innovation based on local knowledge: 41.2 % students graduated with degrees in science and engineering. (IMD world competitive yearbook 2018)

Message of Director General of SPIRIT Slovenia



When it comes to building international presence of Slovenian companies, the Public Agency SPIRIT Slovenia spares no effort to open doors for those willing to take up the challenge. The Slovenian Industry Day is an exceptional opportunity to give a boost to the cooperation between Slovenian industry and CERN by helping companies and research institutions gain knowledge on how to become part of the flow of knowledge and services to and from CERN.

Knowing that Slovenia's return coefficient for both supply and service contracts is below 0.40, we wish to make the most of this event and accept with greatest gratitude this window of opportunity. On the one hand, there are many potential ways for Slovenian companies to collaborate with the international high-energy physics community in CERN's areas of expertise. On the other, however, to grow international sales by catching the eye of a business partner such as CERN is a big deal indeed.

Slovenian companies have proven that our attributes are worth considering – technical knowledge combined with

creative innovation set forth the best products and services in the world. A proven fact is, that in the last decade, Slovenian products and services are trusted so much worldwide, that our export has increased by almost 80 %. We believe that the notions associated with CERN such as driving technological advancement forward, computing for high-energy physics and quantum thinking sets new benchmarks for the industry and go hand-in-hand with green thinking.

Boosting trade and investment relationships by connecting knowledge, technology and productivity reduces the carbon footprint. In turn, it reaffirms Slovenia's key attributes: Green. Creative. Smart.

In conclusion: No task is too tall for Slovenia, an Associate Member State in the pre-stage to full Membership of CERN!

Ajda Cuderman
Director General SPIRIT



“Slovenia’s talented workforce delivers creative and sustainable solutions.

(Global innovation index 2018; Global creativity index 2015)

Message of President of the Chamber of Commerce and Industry of Slovenia

Due to the fact of being the largest independent, voluntary, non-profit association of companies in Slovenia with a broad network of direct connections to companies and partner institutions in Slovenia and abroad, the Chamber of Commerce and Industry of Slovenia (CCIS) has taken over the role of identifying export-oriented companies with high potential of creating value added to CERN partners and promoting the advantages of cooperation with CERN amongst them.

During the last decades, Slovenian companies have found their strengths in different specialised fields and niche markets. The quality approach new ideas and solutions, created by Slovenian experts and innovators, have enabled them to play an indispensable role in global supply chains. With their long-standing experience in international business, these companies are reliable and development partners. Many of them are looking for new opportunities to prove themselves in a hi-tech global environment. The CCIS is proud to have motivated such a significant number of companies determined to explore the opportunity of presenting themselves to CERN partners and will support their export efforts in every possible way.

Boštjan Gorjup
President of the Chamber of Commerce
and Industry of Slovenia





SLOVENIA@CERN

Industrial exhibition | 9 - 10 October 2019

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INDEX PROCUREMENT CODES ACCORDING TO CERN

01 00 00 00 Civil engineering, building and technical services	02 00 00 00 Electrical engineering and magnets	03 00 00 00 Electronics and radio frequency	04 00 00 00 Information technology	05 00 00 00 Mechanical engineering and raw materials	06 00 00 00 Vacuum and low temperature	10 00 00 00 Health, safety and environment	13 00 00 00 Services on the CERN site
LUZNAR*	DEWESOFT	ARCTUR	ALCAD	TALUM	DEWESOFT	ARCTUR*	ARCTUR
DEWESOFT	INTRA LIGHTING*	DEWESOFT*	ARCTUR	ŽUST-AL		DEWESOFT	DUOL
INEA*	MYBIZ	ELGOLINE	BASS*			METRA*	INEA
SM PUMPS	NANOCUT*	INSTRUMENTATION TECHNOLOGIES *	COMTRADE*				
	RLS	INTEC TIV*	COSYLAB*				
		ISKRATEL*	XENYA*				
		L-TEK*					
		LOTRIČ*					
		MYBIZ*					
		RLS					
		LUZNAR*					

* COMPANY HAS A PRESENTATION



Alcad

ALCAD podjetje za projektiranje, trgovino in storitve d.o.o.

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OFFER

- Full stack application development, mainly angular (with typescript and dart) and react.js, and for hybrid applications, flutter with dart as well as GraphQL
- Consulting and implementation of services from the IBM Watson service group
- Packaging of solutions using the MSA concept (REST+Docker+Kubernetes)
- DataScience, analysing data, and data correlations
- OpenSource frameworks for machine learning and deep learning

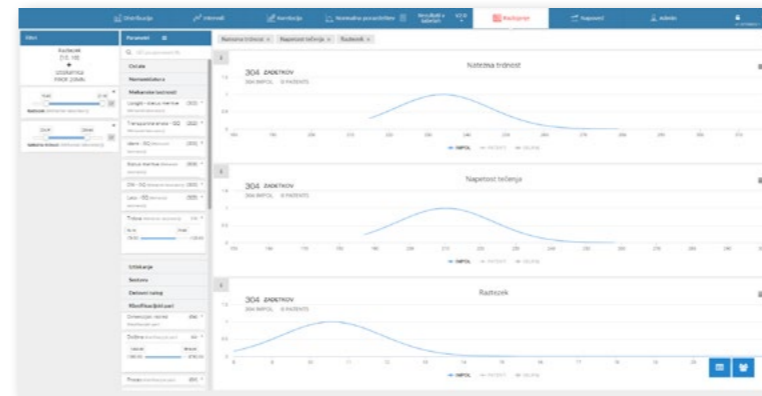
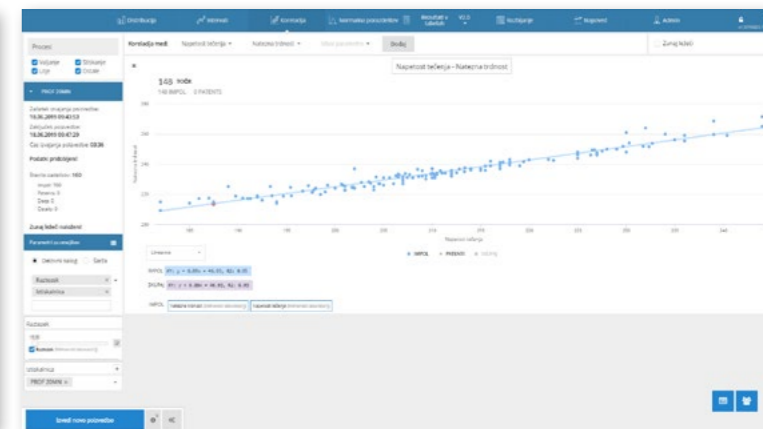
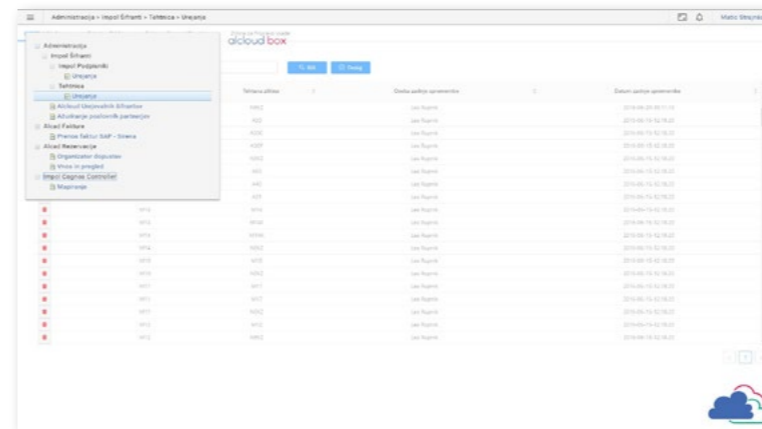
Watson metallurgy: a solution that guides the user through the preparation and composition of new metals and their key mechanical properties.

Consulting, migration, and education on IBM mainframes IBM DB2, PostgreSQL, and mongoDB administration.

- WebSphere Portal – Administration
- Full stack application development
- Hybrid mobile application development
- Use of machine learning model training and deployment on the IBM Watson platform
- Use of open source machine & deep learning libraries
- MSA – Microservices Architecture

CERTIFICATES

- ISO standard: 9001:2015 (SL21783Q)



ARCTUR

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COMPANY BUSINESS ACTIVITIES

Arctur is an R&D-oriented SME active in two main fields: it is the main Slovenian commercial supplier of HPC (high performance computing) services and solutions, and it offers innovative solutions in the field of radiation detection.

COMPANY PROFILES

Radiation detection expert, HPC services supplier, HPC components distributor, innovation, R&D.

COMPANY SECTORS

Radiation detection, high performance computing, informatics, and telecommunications

OFFER

- High performance computing (HPC) is our core field. We both lease our HPC capacities and offer Supply of Servers/Storage/Workstations/etc. packages.
- The world's first true real-time gamma-ray locator – the first handheld instrument that provides the direction vector towards a gamma radiation source in real time. It identifies the radionuclides and detects neutrons as well.

COMPETENCIES

- High performance computing, data centre
- Innovative radiation detection
- Advanced IT solutions (project management, content management system, etc.)

REFERENCES

- The largest HPC centre in the region
- A number of successful FP7 and H2020 projects
- The Slovenian Army
- Y-12 National Security Complex, USA

CERTIFICATES

- ISO 9001:2008





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BASS has been providing information solutions to demanding users since 1991.

Ensuring the quality and reliability of software solutions and state-of-the-art information technology in support of business processes is our everyday obligation – thus enabling you to conduct your business without worries. That is why we at **Bass** handle demanding system solutions just like we would handle you – individually, as we are convinced that only integrated and personalized system solutions can provide the key to business success. While you concentrate on success, we provide for the rationalization of your business. We are the leading Slovenian system provider for the implementation of comprehensive computer and information turnkey solutions for demanding users.

We are unmatched in the field of **municipality/communal economy, mass accounts/bills, and complex systems**. And we are proud that for the past two decades most Slovenian utility companies, municipalities, publishing houses, as well as other companies have trusted our personalized system solutions.

The use of information technology and the view thereof changes from day to day, and thus confronts us with challenges that come in every form and level of complexity. Our business information system is the result of many years of development and cooperation between the experts on our team and users in the fields of public utilities, financial accounting, and computer engineering.

While you focus on your business, let our information system work for you.

As part of our comprehensive information solutions, we also provide clients long-term maintenance of our information system, all necessary software and hardware upgrades, as well as reliable assistance and continuous training of users in the use of our software solutions.

THE BASS TEAM

We have the best team of experts in the fields of IT, business informatics, economics, and other fields that are important for our sphere of operation and the challenges faced by our clients. International and domestic education gives the team energy and a constant drive to remain competent, punctual, and continuously available.

Together we process each idea and proposal in order to arrive at the best possible experience for our team and the user.

VISION

Our vision is to remain a leading information company and to expand in domestic and foreign markets, especially in the areas of Smart Cities, the optimization of mass data processing, IoT devices, and all other advanced technologies.



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COMPANY BUSINESS ACTIVITIES

- Software services and software development
- Hardware

COMPANY PROFILE

Manufacturer, producer, innovator, R&D, distributor

COMPANY SECTORS Informatics and telecommunications

BUSINESS COOPERATION INTERESTS

Doing business with CERN:

- Software service support for CERN infrastructure:
 - development of the system for handling CERN carpooling
 - updating and professionalization of CERN's human resources software
 - development, implementation, and support regarding mobile services for handling CERN projects
- Provision of IT hardware for CERN infrastructure:
 - smart phones for CERN employees
 - storage devices ensuring data loss prevention

OFFER • Software services and software development
• Hardware

NEEDS Details as regards opportunities and needs in CERN

COMPETENCIES Advance software development

REFERENCES Clients and customers worldwide

CERTIFICATES

ISO/IEC 27001:2013, ISO 9001:2008, ISO 13485:2003,
ISO 14971:2007, IEC 62304:2006, ISO 13485
CISA, CBCP, ISO/IEC 27001 (CIS/SIQ), ISO/IEC 27001 (CIS/SIQ)

TURNOVER IN 2018 50 mil.

SIZE OF THE COMPANY Large



COSYLAB, Control System Laboratory, d.d.
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COMPANY BUSINESS ACTIVITIES

Cosylab performs system integration and provides products and solutions adapted to the client, covering the entire field of control systems and instrumentation.

We are specialized in accelerators for scientific research, particle therapy, and industrial applications, as well as in tokamaks and radio telescopes.

Our services are used by project directors, group leaders, and engineers burdened with deadlines and user demands, in order to achieve better performance while significantly reducing commissioning time, manpower, and costs.

Cosylab employs over 150 people, the majority of whom are engineers and physicists – expert developers and integrators of state-of-the-art software and electronics. We have at least 20 experts in each of our core technologies (e.g. C-ACS, C-TCS, EPICS, FESA, PLCS,

TANGO, LabVIEW, Control System Studio, as well as WinCC OA and FPGA). Services range from writing specifications and design to implementation and installation. This ensures the cost-effective, low-risk delivery of control systems and the components thereof at a fixed price. Cosylab offers deep inside knowledge and industry-standard development processes, including systems engineering, project management, and quality assurance.

COMPANY PROFILES

Provision of services, consultancy, innovation, R&D

COMPANY SECTORS Electronics and electrical engineering, informatics, and telecommunications

BUSINESS COOPERATION INTERESTS

- System design and engineering of accelerator-specific software and electronics.
- Integration of hardware components and instrumentation into control systems.

OBJECTIVES DURING THE EVENT

To establish new relationships and networks and to evaluate engineering collaboration possibilities with CERN.

OFFER

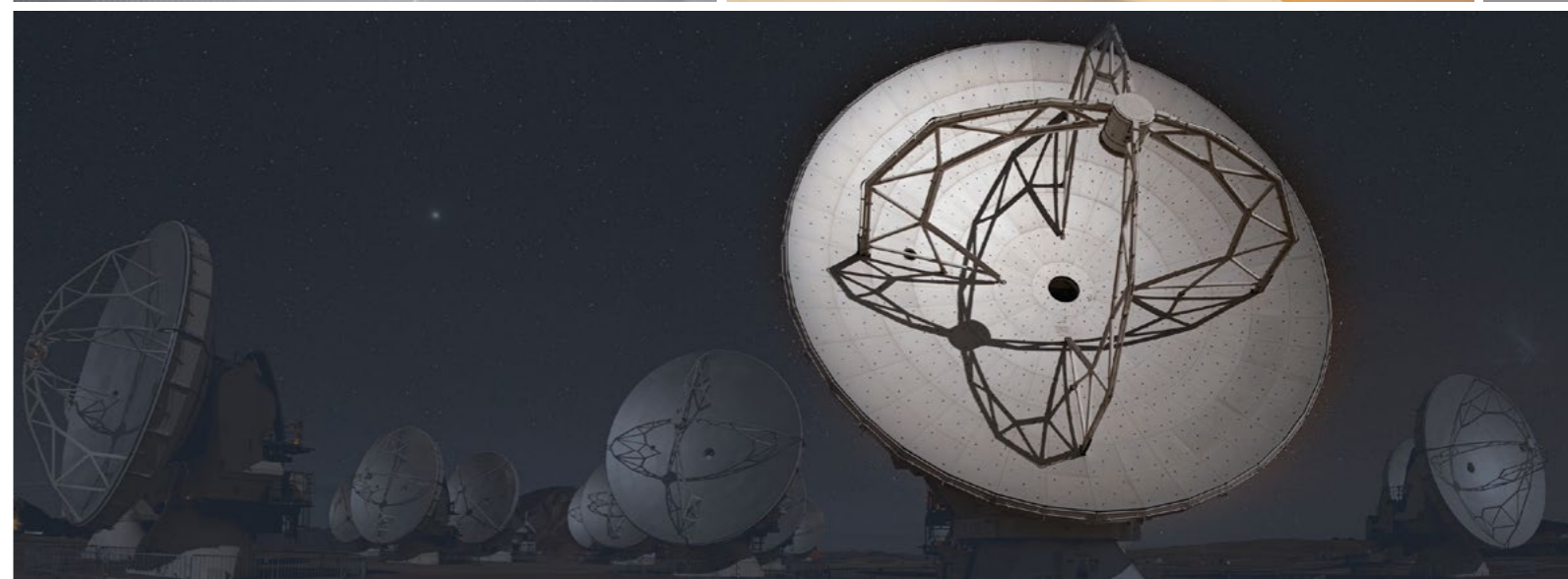
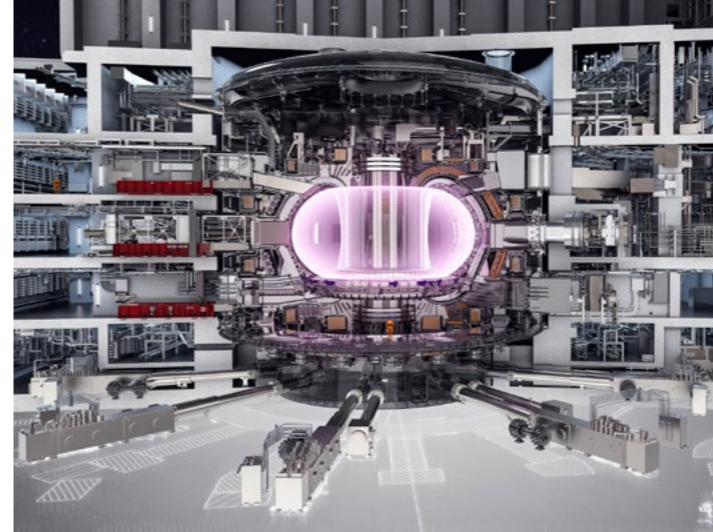
- Large-scale distributed real-time control systems
- Electronics design and embedded systems engineering
- System integration
- All control systems technologies, e.g.: LabVIEW, PLC, C++, FESA, WinCC OA, TANGO, CSS, Java, SCADA, EPICS, etc., incl. training
- Consulting and training services

COMPETENCIES/ REFERENCES www.cosylab.com

CERTIFICATES (ISO, etc.) Our processes are certified by ISO 9001:2015 and ISO 13485:2016.

TURNOVER IN 2018 EUR 16 mil.

SIZE OF THE COMPANY Medium-sized





DEWESOFT d.o.o. izdelava programske opreme in proizvodnja elektronskih komponent
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COMPANY BUSINESS ACTIVITIES

Dewesoft develops and produces data acquisition, test, and measurement instruments that are used in the most advanced labs all over the world to develop rockets and satellites, thus ensuring fast worldwide communication and new safer vehicles and products that are improving our everyday lives.

COMPANY PROFILES

Innovation, R&D, manufacturer, producer, distributor

COMPANY SECTORS

Electronics and electrical engineering, engineering, machinery and equipment

OBJECTIVES DURING THE EVENT

To identify any synergies/opportunities for future cooperation.

OFFER

Dewesoft is the best-in-class provider of data acquisition devices and software for measurement engineers.

NEEDS

Dewesoft is eager to identify opportunities for cooperation.

COMPETENCIES

Dewesoft has more than 15 years of experience in complex and international R&D projects and in analysing the operation of the most demanding complex devices.

REFERENCES

Volkswagen, GM, Toyota, ESA, Honeywell, NASA, CAT, CNH Group, Siemens, etc.

CERTIFICATES (ISO, etc.)

ISO 9001, ISO 14001

TURNOVER IN 2018

21 EUR mil. (DEWESoft d.o.o.) and approximately 40 EUR mil. worldwide

SIZE OF THE COMPANY Medium-sized



DUOL

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COMPANY BUSINESS ACTIVITIES

DUOL is specialised in membrane structures, either in the form of air domes or structures with a metal or wooden framework. With more than 25 years of experience and over 1000 covered surfaces in sports and industry, we are a global leader in the air dome market. Our biggest membrane structure is a 150 × 100 m air dome in Kazakhstan. Our products are suitable for various purposes, ranging from sports and agriculture to military, space, and industrial applications.

COMPANY PROFILES Manufacturer, producer

COMPANY SECTORS

Construction and building materials, engineering

BUSINESS COOPERATION INTERESTS

Warehousing needs of CERN

OBJECTIVES DURING THE EVENT

To meet with a responsible person from CERN to whom we can present our solution.

OFFER

DUOL can offer CERN temporary or permanent warehouse solutions, ranging from free-standing air domes to frame structures covered with membranes at a lower cost and boasting faster completion time than conventional construction.

COMPETENCIES

Static calculations, FEM structure modulation, CFD analysis, 3D visualisation.

REFERENCES

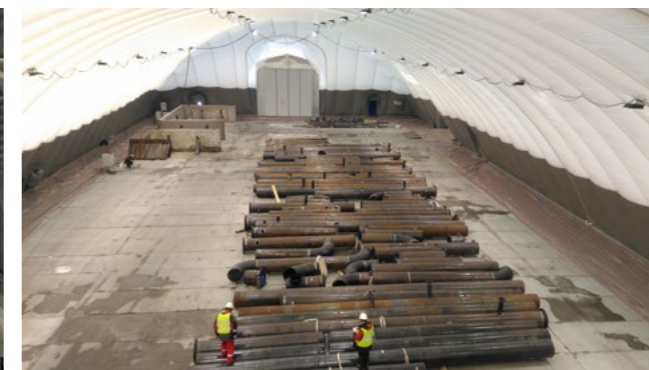
Watford FC, Cardiff City FC, Luxembourg Football Federation, Renault.


CERTIFICATES (ISO, etc.)

ISO 9001 2015, EN 1090-1:2009

TURNOVER IN 2018 EUR 7.35 mil.

SIZE OF THE COMPANY Small



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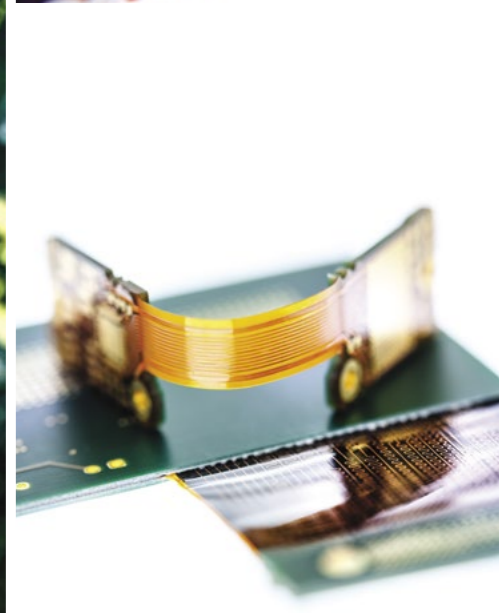
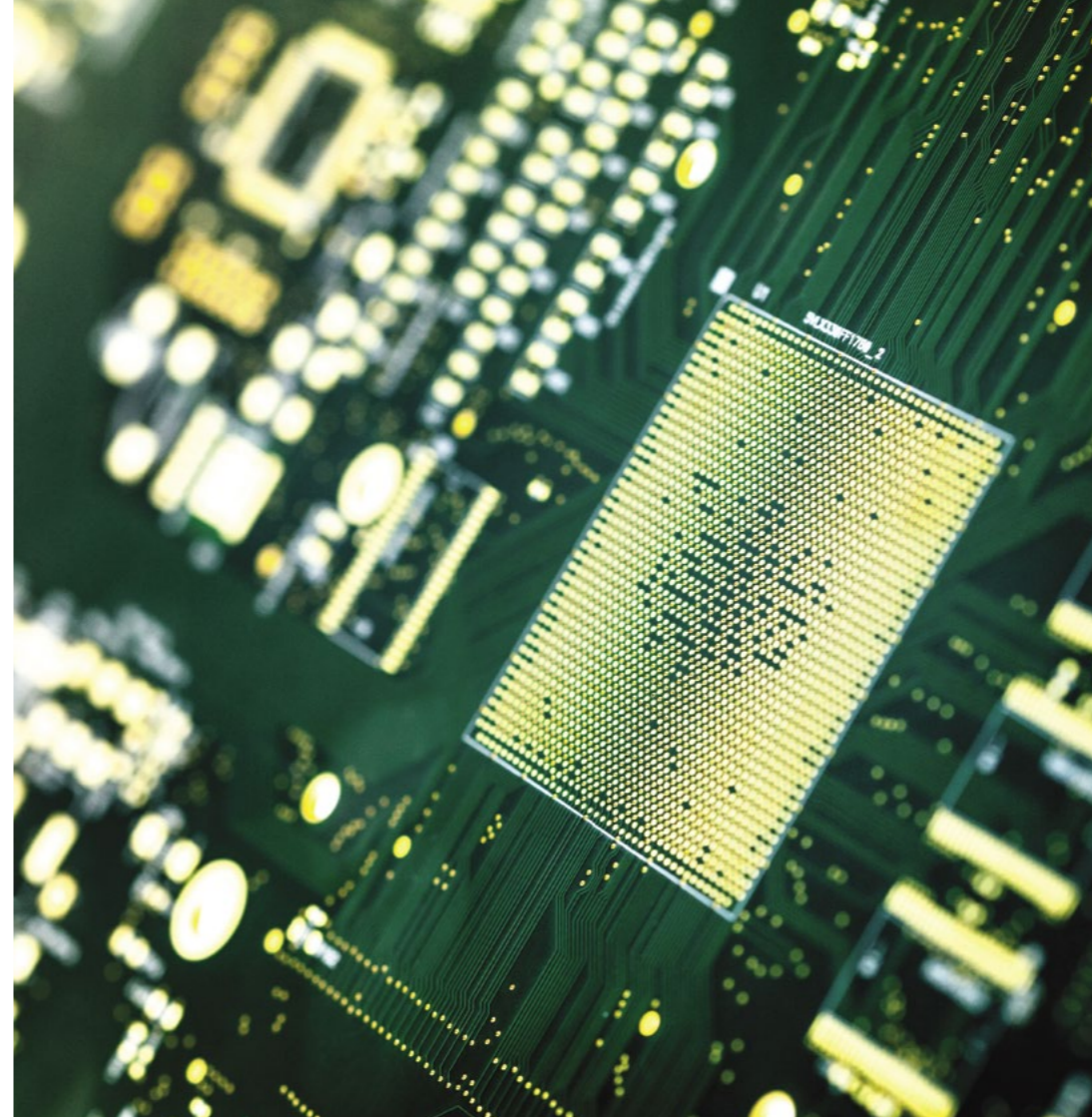
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COMPANY BUSINESS ACTIVITIES

Elgoline was founded in 1986 and has always had investment and manufacturing goals as the foundation of its development. During its early period, the company gained a great amount of new knowledge by updating and manufacturing spaces and equipment. This led it to becoming one of the leading manufacturers and developers of different circuit boards in Europe.

In the year of 2000 **Elgoline** merged with the company Intec TIV Ltd., from Kranj, Slovenia, which had been manufacturing printed circuit boards since 1973. This move was very beneficial and successful for both companies since they have managed to cooperate on development ever since.

The **Elgoline** development group has also been cooperating with the Jožef Štefan Institute for many years. Our top developers have been working on the ATLAS project – part of the Large Hadron Collider project – with the Institute's experts since its very beginning, of which **Elgoline** is very proud. The company has received several international awards, ranking it among the top printed circuit manufacturers in Europe.





INEA

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ABOUT INEA

INEA provides industrial automation, manufacturing intelligence, and industrial energy management solutions worldwide. For over 30 years the company has cultivated an approach to understanding the requirements of each individual customer in combination with industry specifics in order to successfully design, implement, and maintain solutions that ideally satisfy our customers' needs.

The company was founded in 1987 by the Jozef Stefan Institute (IJS) as one of its projects for expanding the use of research achievements in the field. To this day, INEA continues to cooperate with institutes and universities on joint R&D and other industrial projects by means of dedicated research teams, thus successfully combining business and academia.

SUSTAINABLE. EFFICIENT. GREEN.

The cost efficiency and environmental sustainability of a business are closely related to the management of its energy processes. Through groundbreaking solutions for energy system optimization, we continue to strive towards a bright, green future.

Holistic management of all energy vectors in a microgrid:

- A system for monitoring energy flows for overall monitoring of energy use
- Energy production and consumption optimization
- Smart grid solutions for techno-economic optimization of supply and demand
- Integration of demand response systems into virtual power systems enabling trading flexibilities
- An intelligent electricity peak levelling system with automatic real-time response and minimal effect on the underlying process for a significant reduction in peak power
- Turnkey implementation of energy production systems
- Innovative CHP applications (e.g. fuel cell and hydrogen applications)





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www.facebook.com/InstrumentationTechnologies

www.linkedin.com/company/instrumentation-technologies-d.d.

Instrumentation Technologies is a very experienced high-tech company that is able to provide cutting-edge solutions as needed.

Our flexible team is comprised of curious and innovative – yet reliable and experienced – engineers, who strive to excel in every solution they develop. Twenty years ago we started in the field of particle accelerators, regarding which we now offer diverse high-performance instruments, under the name Libera.

Utilizing the knowledge we have gained in the demanding field of particle accelerators, we are also able to offer consultation expertise in other technologically demanding fields, such as MedTech, IoT, smart cities, telecommunications, aerospace, and university research.

We have an extensive product portfolio, and also offer services in technologically demanding fields. Our solutions include hardware and embedded software design, rapid prototyping, product development, and certification assistance. Our products can be customized based on the needs of the client.

Our competencies include analogue and digital engineering, high and low level software, extensive FPGA programming, user-specific applications and solutions, significant experience in the field of precision electronics, RF measurements, and real-time digital signal processing.



We work with more than 70 laboratories all around the world, with some of the most important being: GSI (Germany), NSRRRC (Taiwan), ESRF (France), DESY (Germany), SINAP (China), PAL (Korea), IHEP (China), PSI (Switzerland), ANSTO (Australia), STFC (UK), JINR (Russia), KEK (Japan), etc.







 **INTECTIV**  www.intectiv.si

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COMPANY BUSINESS ACTIVITIES

Intectiv employs over 90 highly qualified staff and follows the latest environmental and technological ISO and UL standards. Our main advantages include high-tech production and expertise, continuous improvement and development, as well as the provision of flawless support to clients along with fast (24 hours) and quality production.

COMPANY PROFILES

Manufacturer, producer, innovation, R&D, other

COMPANY SECTORS Electronics and electrical engineering, automotive industry

OBJECTIVES DURING THE EVENT

To achieve a better understanding of CERN technology standards and demands and the possibility of PCB production for CERN, as well as a mutual understanding of the level of technological solutions required.

OFFER High-technology PCB products. Our production range includes single-sided, double-sided, and multi-layer printed circuit boards (up to 26 layers), both Flex and Rigid-Flex. At the request of our customers, we use special production materials, including ALU and Cu core, Teflon, High-Frequency Rogers PCB, etc.

NEEDS The possibility to establish a strategic relationship with a partner with a strong demand for high-technology products.

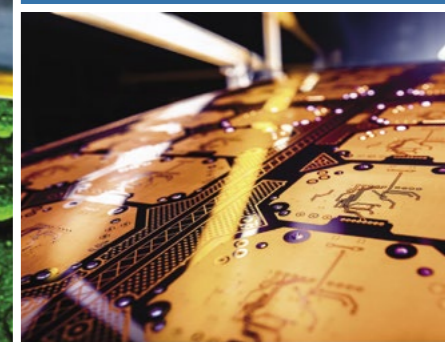
COMPETENCIES Decades of experience, know-how, and the development of a technologically advanced production line are the foundation of our production of highly complex HDI.

REFERENCES Murrelektronik, Phoenix Contact, Wika, Junghans, Elobau, Infineon, Raycab, Honeywell, Rimac, Elrad, Metrel, Instrumentation Technologies

CERTIFICATES

ISO 9001, ISO 14001, UL No. E79481

TURNOVER IN 2018 EUR 10 mil.




intra lighting




 **INTRA LIGHTING d.o.o.**
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 www.facebook.com/intralighting/

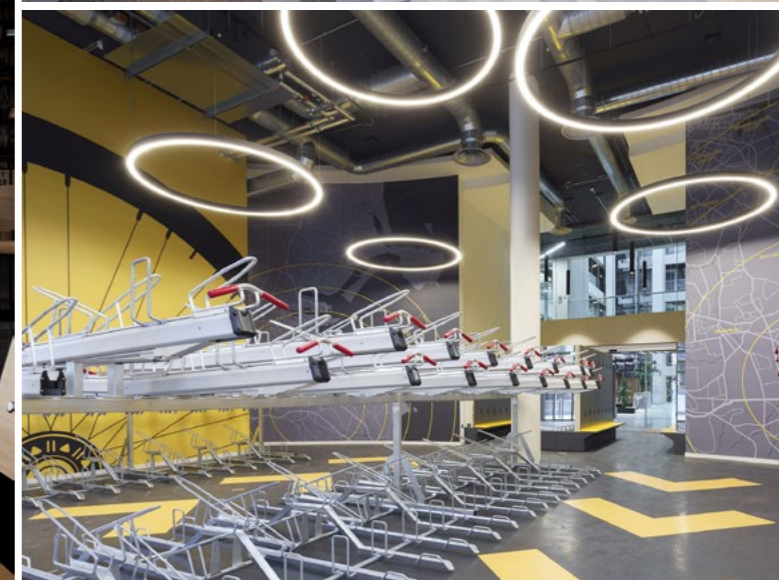
 www.linkedin.com/company/intra-lighting-d.o.o./

 www.instagram.com/intralighting/

Intra lighting's vision is giving solutions to every challenge regarding illumination. The company does not only create architectural luminaires but more so provides holistic lighting solutions answering customer's needs. From 1989 a team of experienced professionals actively collaborates with architects and lighting designers worldwide. The thirty-year tradition, constant investments into research and development, a sense of aesthetics, and nonetheless environmental consciousness, places the company among the leaders in their field.

Intra lighting is a leading brand for smart lighting solutions globally, solidified by the fact that it's present on 68 global markets. It is illuminating numerous interior projects from boutique stores to bigger shopping malls, restaurants, hospitality, health, education buildings, centers of culture, industrial architecture, warehouses, as well as private premises.

It is no coincidence that it is trusted by brands Armani, Google, Facebook, Microsoft, Ferrari, and alike.



ISKRATEL

EMS Electronic
Manufacturing Services

📍 **ISKRATEL, d.o.o., Kranj**
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Key Account Manager EMS

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🌐 www.iskratel.com

COMPANY BUSINESS ACTIVITIES

We are an established EMS provider with more than 70 years of experience manufacturing and integrating complex products and solutions.

COMPANY SECTORS

Electronics and Electrical Engineering, Informatics and Telecommunications, Transport and Communications/Logistics

BUSINESS INTEREST OF COOPERATION

Providing EMS services to OEM and OED companies.

OFFER

From idea to serial production (Research & Development, New Product Implementation, DFC, DFM, Supply-Chain Management, Prototyping/Serial production, Programming & Testing, Electronic Assembly, System integration/Box build, Logistics & Distribution, After-sales support.)

COMPETENCIES

Over 70 years of experience in manufacturing services, Excellent know-how from 20 years of joint venture with Siemens, High responsiveness to last-minute design changes, 100% reliability test at board and system level, SAP-managed production, planning, and delivery process, Technology from the world's leading manufacturers, Strong European core engineering team and quality assurance, Worldwide references.

REFERENCES

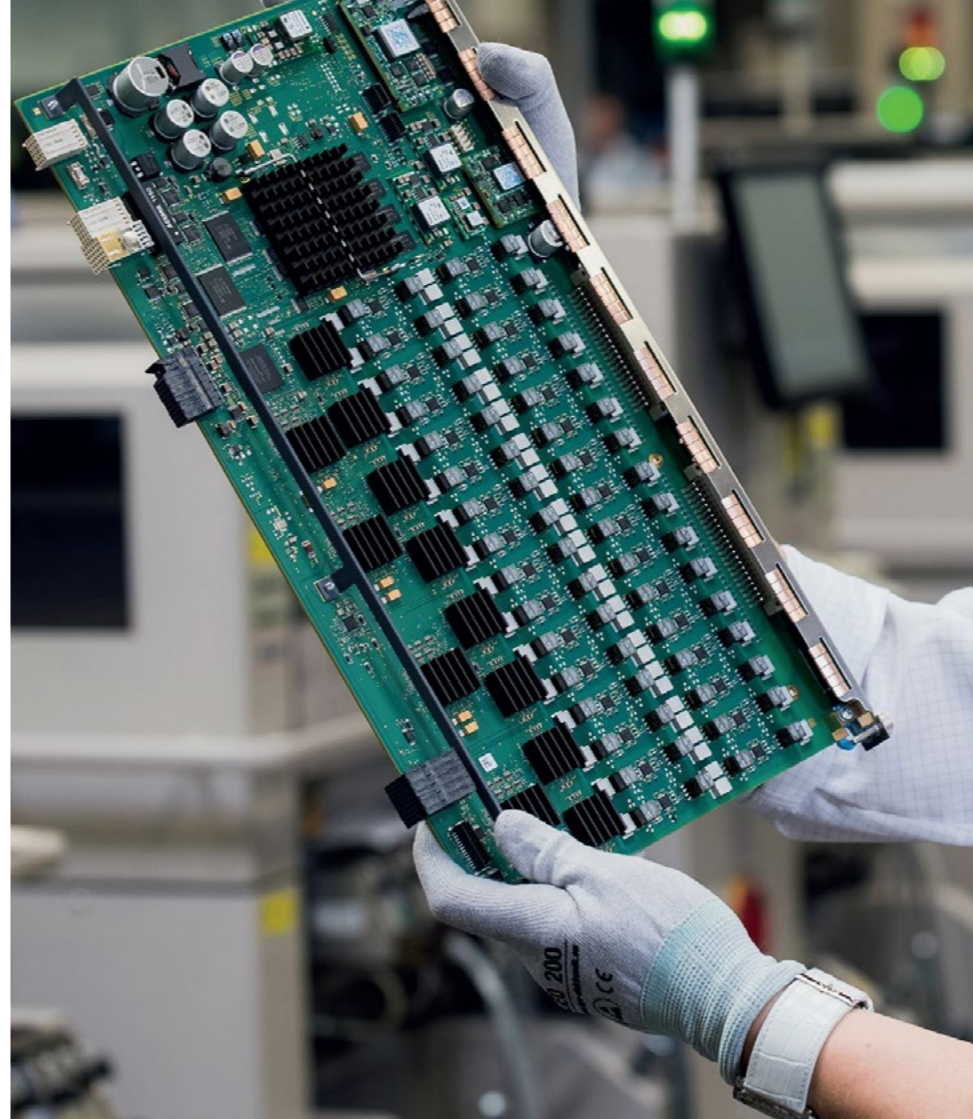
Strong references in the following segments: Telecommunications equipment, Industrial electronics, Measurement equipment, Entertainment electronics, Automotive electronics, Home appliances, Medical electronics

CERTIFICATES

ISO 9001:2015, ISO 14001:2015, ISO 27001:2013, TL9000 Rev. 6.0, ISO 13485:2016 In the process of acquiring standard (medicine).



TURNOVER IN 2018 103.9 Mio.

SIZE OF THE COMPANY Large




WE MEASURE. YOU GROW.

 **LOTRIČ Metrology Ltd.**
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COMPANY BUSINESS ACTIVITIES

We have been calibrating and testing with a passion for metrology for nearly three decades. We develop state-of-the-art, perfected, but easy to use metrology products and services. There are five main metrology solutions in the company's portfolio:

- Calibrations for the widest possible range of needs (covering 95 % metrology needs of our customers). Measurements

are conducted by qualified experts on location or at our accredited laboratories.

- Testing through the entire lifecycle of the sample – from raw material to prepared material, and from semi-finished product and finished product to waste. Based on the obtained test results, we offer expert counselling to help optimise the processes and sales.
- Conformity assessment of a wide range of legal measuring instruments, equipment under pressure, health and safety regulations, fire regulations, compliance of vehicles with the ATP, good practices in the pharmaceutical industry, and technical specifications of producers.
- Metrology & Quality Academy with more than 11 educational programs and custom-made program.
- Products in the field of metrology, such as **EXACTUM** and **TRAMES**.


EXACTUM – A new generation of measurement systems that automatically collect the measured values from measuring points equipped with sensors. In the event the environmental parameters exceed the prescribed limit values, EXACTUM sends a warning by electronic mail or text message. This allows users to respond promptly and take immediate action.

TRAMES – Unique systems for measuring machines that are fully adapted to the demands of our buyers. A unique concept enabling measurements in 1D, 2D, or 3D space.









Your challenges our solutions

 **L-TEK elektronika d.o.o.**
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COMPANY BUSINESS ACTIVITIES

L-Tek is a medium-sized company specialising in the development (R&D) and manufacturing of electronics (EMS).

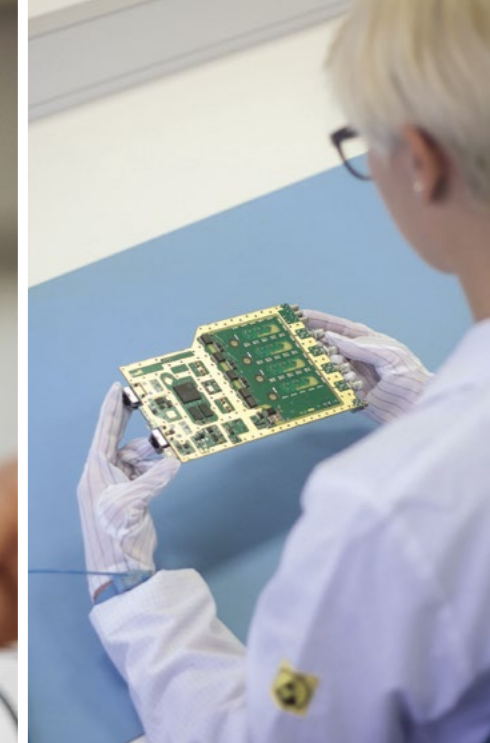
We offer high-tech production services, from prototypes to small and medium-sized series, with quality and flexibility firmly in the foreground. In addition, we also offer electrical engineering services in the field of IoT solutions.


Our manufacturing services consist of SMT and THT assembly, testing, mechanical assembly, milling, and packaging.

Focused on quality, we have set up various control points in our production, including SPI, AOI, and X-RAY services, if required.


We are ISO 9001:2015 and ISO 13485:2016 certified.

Our customers are active in industrial, research, and accelerator areas, where we are recognized as a very flexible and responsive partner in the field of prototype manufacturing.



 **Tiskana vezja Luznar d.o.o.**
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Sales Manager

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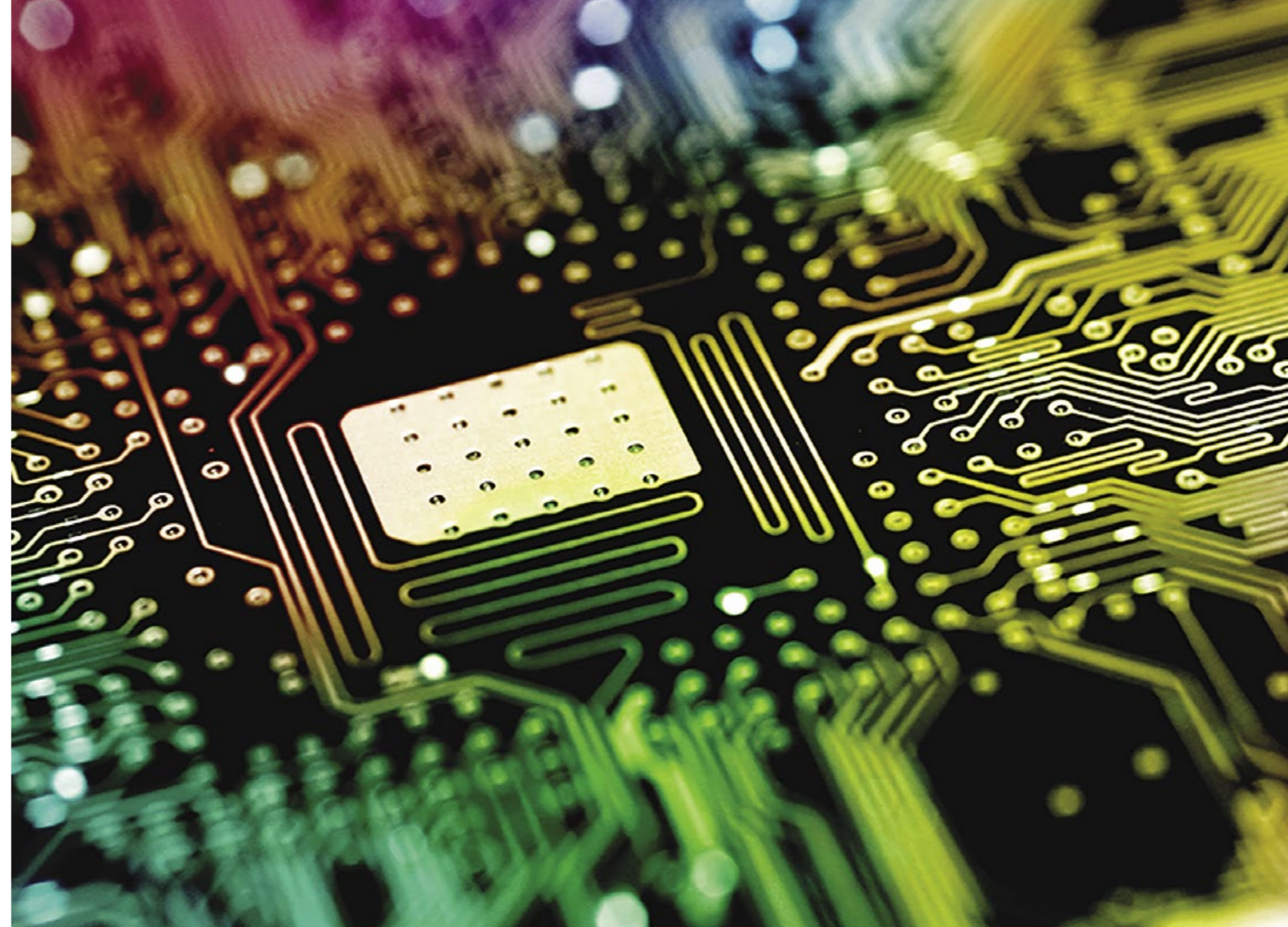
 elvir@luznar.com

 www.luznar.com

Our customers value our fast response time, the quality of our products, and accurate delivery times due to the fact that we produce electronic boards under one roof:

- production of PCBs
- purchasing of components
- board populating
- specific testing
- cabling
- housing assembly
- packing
- delivery of the finished product.

Thanks to our dedicated automatic production line and when so required due to urgency, we can provide PCBs within 24h and assembled boards (PCBAs) within 48h of receiving an order, without failure.



📍 **METRA INŽENIRING d.o.o.**
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Metra is a globally renowned manufacturer of highly reliable, secure, low-maintenance, eco-friendly and user-friendly intelligent locker systems for various types of smart lockers in offices, factories, universities, hospitals, and other commercial, industrial, public, and other facilities.

Of the company's intelligent locker solutions, two highly suitable ones are highlighted here, i.e. **Metra Workplace Lockers** and **Metra Workplace Delivery & Pickup Lockers**.

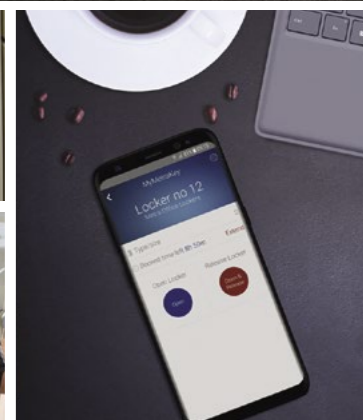
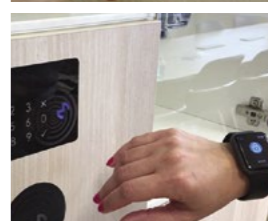
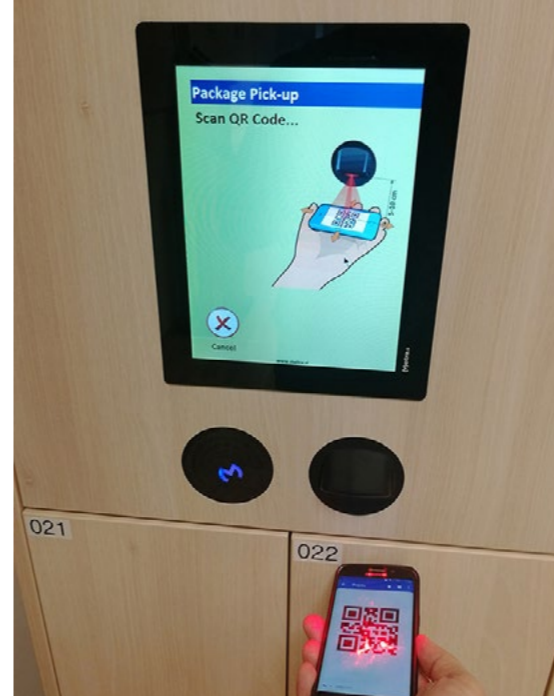
Smart Workplace Delivery & Pickup Lockers is an intelligent locker solution that will enable internal individual deliveries/pickups among CERN staff to be performed in an easy, secure, discreet, error-free, and traceable manner (e.g. secretaries distributing incoming post to employees, employees sending sensitive, need-to-know documentation to a superior or project co-worker, etc.).

It saves time and reduces operating costs, as a minimum or no distribution staff is required. The recipient receives a unique code for pickup and info where to make the pickup (if multiple delivery locker locations are available). No items can be lost, forgotten, or delivered/picked up by the wrong person.

Smart Workplace Lockers is an intelligent locker solution for activity-based and permanent smart storage lockers, for either individuals or groups (for projects, departments, etc.). An individual's access card becomes a secure locker key. A PIN code or mobile app can become a secondary locker key, if there are no access cards at hand. Visitors and guests can utilise short-term lockers with a visitor access card or random PIN code, e.g. to securely store belongings during a visit or meeting.

CERTIFICATES

- ISO 9001:2015
- ISO 27001:2013



My Biz

📍 **MyBiz d.o.o.**
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COMPANY BUSINESS ACTIVITIES

With over 100 Years of combined experience, we offer outstanding custom design and development of HW, SW and FPGA services across all applications.

5 out of 6 of us have combined more than 50 years of experience with beam positioning hardware/FPGA and SW development, which has been successfully sold to various accelerators around the world.

Other experience includes the design and development of a micro-beamline, which is to be implemented at the IJS institute. As well as a configurable phase delay with a 2ns resolution for a time-of-flight mass spectrometer that is being developed for GSI.

HARDWARE

INPUT	4 analog channels, 1GS/s, 8 bit 1 digital channel, 1GS/s, 16 bit
OUTPUT	2 analog channels, 250MS/s, 16bit 1 digital channel, 1GS/s, 16bit
FPGA	UltraScale+ ZU2 – ZU15 103k – 747k logic cels
BUFFER	2 GByte DDR4
CONNECTIVITY	ETH 1Gbit USB 3.0
COMPATIBILITY	Industrial I/O Python Jupyter Matlab

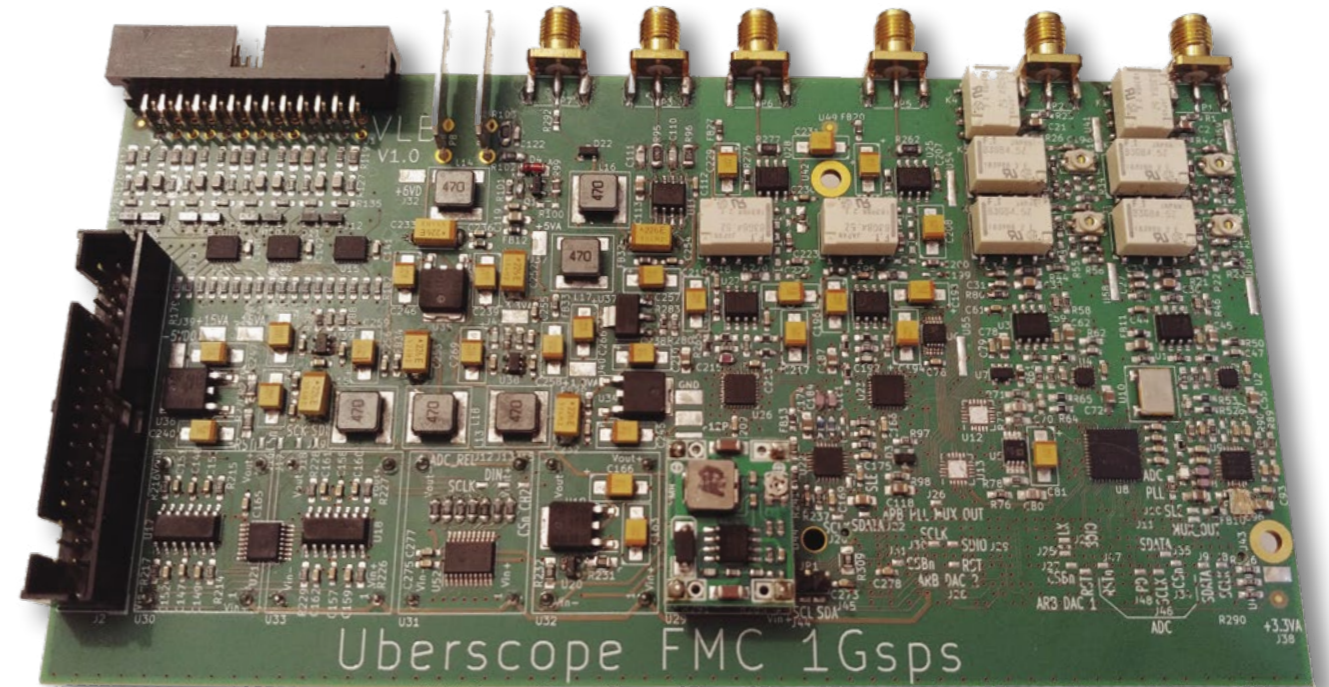
Our hardware can be remotely controlled by Matlab, Python or Jupyter. Control and communication is based on Industrial I/O.

SOFTWARE

Can transform our HW into a 4-channel oscilloscope with 100 MHz bandwidth, a 2-channel signal generator with 50 MHz of bandwidth, FFT Spectrum Analyzer, DMM, and a programmable power supply.

We also offer Hardware, Software and FPGA consultancy and development services.

With our in deep hardware, software, FPGA design, and development expertise, we can help you achieve the best solution for your needs with on-time delivery.



NANOCUT d.o.o.

LED LIGHTING

📍 **NANOCUT,**
proizvodnja, trgovina
in storitve, d.o.o.
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🌐 www.luminos-nuclear.com

COMPANY BUSINESS ACTIVITIES

NANOCUT d.o.o. was established in year 2014. After our standard LED luminaire production we developed UV LED, 365nm for CRACK testing in Forging industry, and GAMMA - NEWTRON FLUX hardness LED luminaires.

COMPANY PROFILES

Small company with extensive knowledge in physics, electronics and mechanical engineering with our own electronic and mechanical design.

COMPANY SECTORS

Electronics and mechanical engineering, physics and lighting business.

BUSINESS INTEREST OF COOPERATION

Offering GAMMA-NEWTRON FLUX hardened LED luminaires and electronic circuits. Standard and on customers request.

OBJECTIVES DURING THE EVENT To inform the people working in non standard environments project, that LED lights and electronics can also work in radiation area.

OFFER Different GAMMA-NEWTRON FLUX hardnes LED luminaire and electronic circuits.

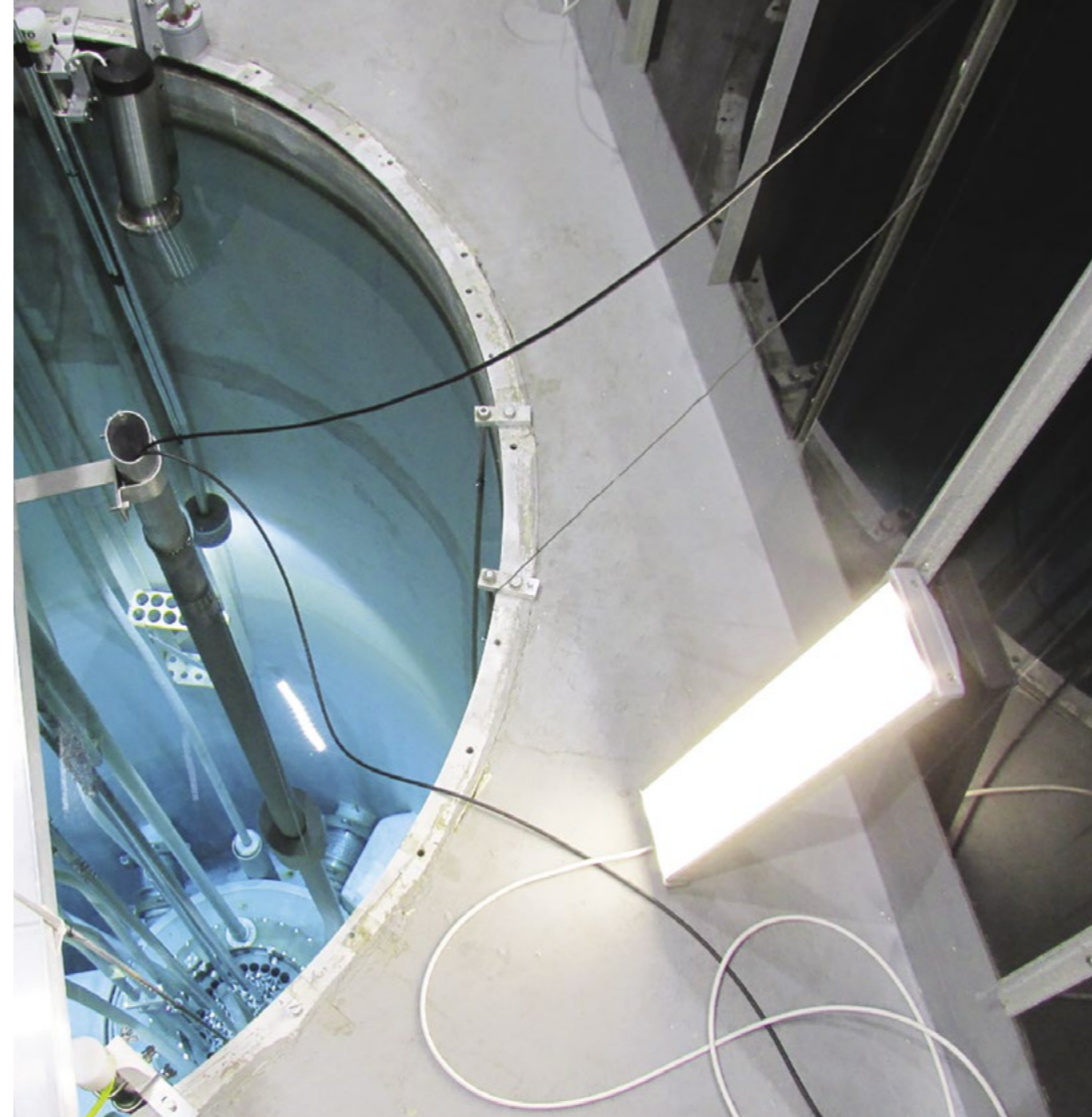
COMPETENCIES Small company with extensive knowledge and experience, own mechanical design, electrical design and mechanical manufacturing facility. We can develop new OEM light and electronics product in short time.

REFERENCES

- 300 000 m2 different industrial instalations.
- GAMMA resistant LED luminaire in:
 - WMB (Waste man. build.), NEK, SLOVENIA
 - BB2 object, built by ANSALDO-Italia, NEK, SLOVENIA
- Project for:
 - low and medium waste storage building, (ARAO, SLOVENIA)
 - used fuel, dry storage building, (HOLTEC-USA - NEK, SLOVENIA).
- UV LED luminaires for CRACK testing (UNIOR Zreče d.d., SLOVENIA).

CERTIFICATES AND TESTING

1. SIQ Ljubljana testing on EN norms (Power suply and Luminaire).
2. GAMMA testing in TRIGA REACTOR in Jozef Stefan Institute.
3. University of Ljubljana, Faculty of Electrical Enginering, Testing angular luminous intensity distribution.





📍 **RLS d.o.o.**
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🌐 www.rls.si

RLS is the world renowned developer and producer of magnetic encoders for a broad range of industries.

Since 1989, **RLS** has been on a mission to make encoder solutions that fit into various applications and environments. Whether in robotics, electric motors, industrial automation, printing, machine tool, medical, green energy, aerospace and submarine applications, our encoders comply with even the toughest requirements.

RLS strives to deliver advanced sensor solutions in European, American and Asian markets working with world leading companies and brands from various industries.

RLS is an associate company of **Renishaw**, a world leading metrology company which holds a 50 % share in the ownership of **RLS**, and which sells and supports our magnetic encoders through an extensive global network.



📍 **SM PUMPS, Srečko Mitruševski s.p.**
Ulica Milana Majcna 18, 1000 Ljubljana, SLOVENIA

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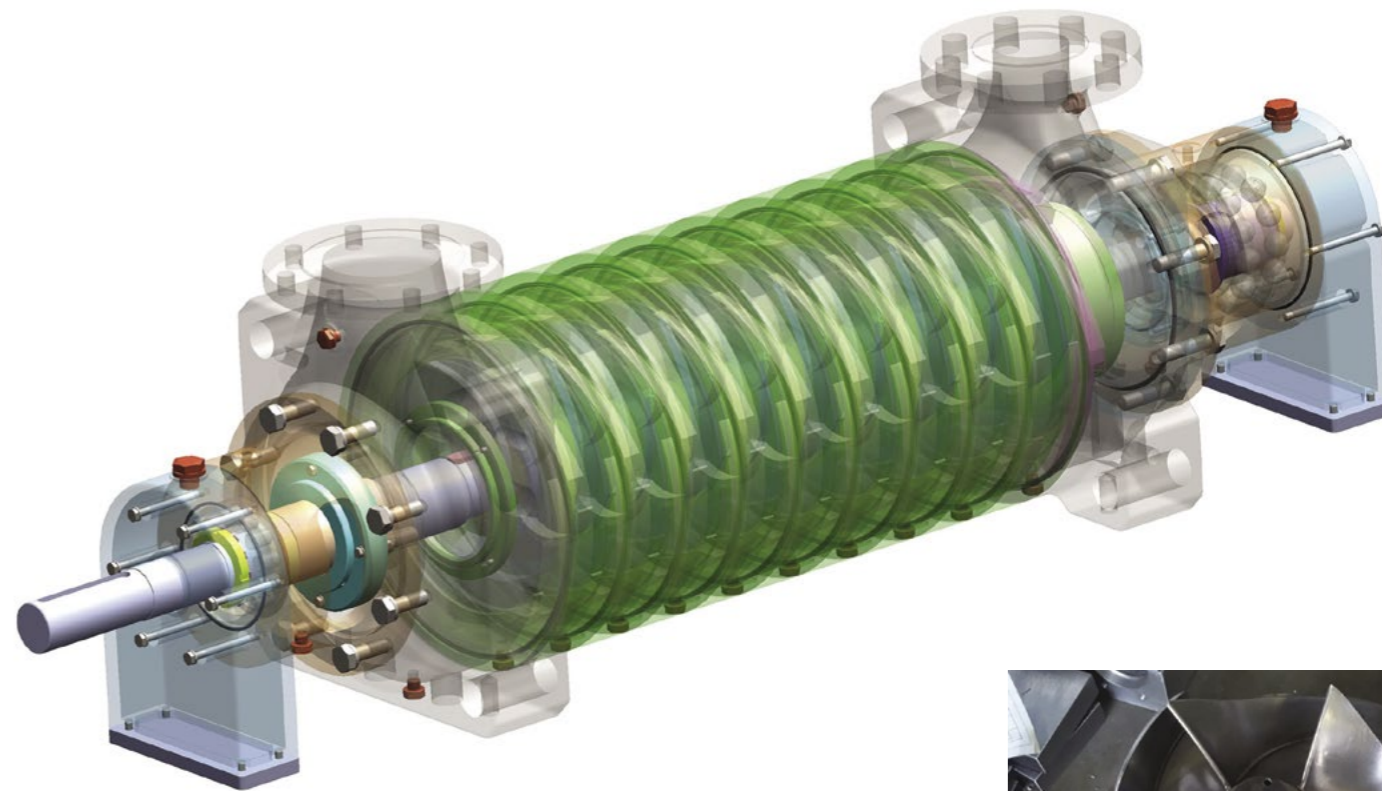
🌐 www.smpumps.tech

Our main activity is the development and design of different types of centrifugal pumps. We develop pumps for nuclear, oil and gas, and general industrial applications.

We also manufacture custom-made pumps in special cases for which it is difficult to purchase a regular production pump.

Our second activity is water turbine design. Our current project is the design of a 125 MW reversible pump turbine for Bharat Heavy Electricals Limited, India.

Our third activity is water treatment. We have a great deal of experience in engineering and producing water treatment plants for clean water and wastewater. Under the UN Oil for Food Programme for Iraq, we have delivered more than 300 water treatment units intended for villages and small towns.





The Lightness of the Future

**TALUM Tovarna
aluminija d.d. Kidričevo**
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Tadej Dobrun, Mechanical Engineering Team Leader

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COMPANY BUSINESS ACTIVITIES

Talum is a well-established manufacturer of aluminium slugs, discs, billets, and foundry alloys and supplies components and assemblies to leading manufacturers in the automotive industry.

COMPANY PROFILES

Manufacturer, producer, innovation, R&D, services supplier

COMPANY SECTORS

Manufacturing of basic metals, automotive industry, engineering

OBJECTIVES DURING THE EVENT

To meet with CERN representatives and network with other participants.

OFFER

Know-how regarding aluminium alloys, machine manufacturing, automatization, and robotization.

NEEDS

Collaboration with research organizations, partnerships.

COMPETENCIES

The development and characterization of new materials and technologies, automatization, and robotization.

REFERENCES

The development of aluminium alloys and technologies, and the automatization and robotization of processes; design and modelling, machine manufacturing, and installation.

CERTIFICATES

ISO 9001, ISO 14001, OHSAS 18001, IATF 16949, ISO/IEC 17025

TURNOVER IN 2018 EUR 335 mil.

SIZE OF THE COMPANY Large



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DATA CENTRE EQUIPMENT PORTFOLIO

Server equipment

- Enterprise and HPC computing based on AMD and Intel CPUs and Nvidia GPUs
- Highly scalable and still compact solutions (up to 80 HPC servers in a standard rack)

Data centre networking

- Ethernet 100 Gb + Spine-Leaf fabric networks
 - VXLAN tunnelling with EVPN management, isolated L2 and L3 domains, multi-tenant solutions
 - Configuration generation from common fabric configuration using orchestration (Ansible, DevOps, Git)
 - Converged networking solutions (DCB with RDMA and network congestion notification in HW; NVMe over fabric)
- Infiniband networks with extreme low latency communication
 - HDR, HED100, EDR and legacy, Flat or routed

- networks.
 - Dedicated storage networks
- **Storage systems**
 - Centralized and distributed SSD-based storage systems (with NVMe over fabric)
 - Disk-based storage appliances
 - Automated tape-based storage systems for long term archiving and fast access to archives
- **Inter data centre connections line systems**
 - allow use of low cost PAM4 modulated pluggables: 100 Gb, 400 Gb
 - 2 to 40 channels, 10 to 80Km reach, single or dual fibre interconnection

REFERENCES

In the past year we have delivered and configured communication networks with aggregated port speed in excess of 88300 Gb, excess of 1 PF of compute power in CPUs and GPUs, more than 400 TB of SSD storage and 1.2 PB of disk storage in multiple installations. Some notable projects were following:

- Two ARNES data centres (DC) have been upgraded with 100 Gb Spine/Leaf fabric network with VXLAN overlay L2 and L3 tunnels and EVPN control plane with redundant 100 Gb IDC between the DC. Ansible based orchestration allows common configuration for both DC.
- The HPC prototype for the University of Maribor, which included the delivery and setup of 102 compute nodes with 192 AMD EPYC Naples CPUs and 24 Nvidia V100 GPUs and HDR100 Infiniband and 100 Gb Ethernet on most of compute nodes.
- RTV Slovenia Archive Digitization Project – Two tier storage system with Real time disk based playback of frequently accessed contents and robotized tape libraries with 20s access of archived contents. Tape storage provides recording life of 50+ years for 25PB of archived data, expandable.
- And many others.





ŽustAL

📍 **ŽUST-AL, Obdelava kovin
in druge storitve, d.o.o.**
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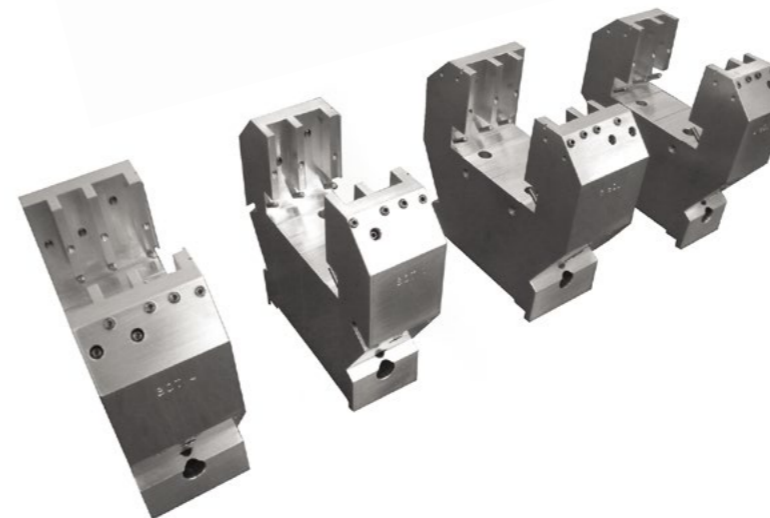
ŽUST-AL

Žust-AL d.o.o. is a modern, family-owned company situated in Žiri, Slovenia. Founded in 1996, it has grown into a successful business in CNC technology and welding throughout Slovenia and abroad.

With years of experience, high quality work and traditional values, the company has established strong business relations by constantly adjusting to the modern market, resulting in growth from a craft activity into a tool manufacturing company, providing components for the automotive, science and other industries. Following only high quality production standards, we are constantly developing and creating long lasting growth opportunities.

Through the recent years we have established many solid partnerships with other leading companies, specializing in CNC turning, grinding, water jet cutting, laser cutting and other techniques. We can also take care of 100% dimension control of parts by independent certified measuring laboratory.

All this, makes it possible for us, to take care of your projects, from the plan, to the final product. "From mould to top-notch product" – This expression well describes the volume of our product portfolio, covering toolmaking, machine construction, automation, and the delivery of turnkey machine vision solutions that reliably inspect production line products before being shipped to clients.



ORGANIZERS



REPUBLIC OF SLOVENIA
MINISTRY OF EDUCATION,
SCIENCE AND SPORT



Slovenian Public Agency for
Entrepreneurship,
Internationalization, Foreign
Investments and Technology



Chamber of Commerce
and Industry of Slovenia

FINANCED BY



REPUBLIC OF SLOVENIA
MINISTRY OF ECONOMIC DEVELOPMENT AND
TECHNOLOGY

HOSTED BY

