

Innovation Day 2018

Slovenian National Innovation Awards 2018

feeling

innovation

Prudence and perseverance are crucial for successful business operations, but courage and innovation are what opens new opportunities. To get there, however, we need a competitive and predictable business environment. This can only be created through cooperation and the timely announcement of changes. We will act according to this principle during this mandate as well.

Ministry of economic development and technology

Innovative and creative insanities are changing the world.

It seems impossible until an innovator sits at the table.

The earth is round but we find an innovation at every corner.

Innovations are the ideas and solutions made by individuals for the benefit of all.

SPIRIT Slovenia Public Agency

The mind is like a parachute: it only works if we keep it open!

Don't think just outside the box – get rid of the box itself!

Logic will take you from point A to point B. Innovation will bring you anywhere.

Someone who believes that something cannot be done will always be interrupted by someone who is already doing it.

The best way to predict the future is to create it by yourself!

Chamber of Commerce and Industry of Slovenia

How and when do we feel that we are on the right path with our innovation?

Our basis for recognizing the right path of innovation is our knowledge and experience, the right information, thorough testing, and the ultimate customization of development according to the needs of the market.

The feeling of "the right path" comes through tests that show good results.

For a successful innovation we need an idea, the courage to realise it, and an environment that supports us as innovators on our development paths.

Define clear, time-defined goals. Innovators need to have all the necessary equipment available to innovate.

Compile a team of experts from several fields. Combine different knowledge and make decisions in a timely manner, and with appropriate argumentation.

For the right idea ...

Follow the market trends, legislation, customers, and standard requirements.

Handle professional papers, patents, and Google everything all the time.

Think a lot. Select ideas and let them grow. Develop those that have the potential.

Debate. Sales and technical teams, exchange information!
When both sides of the information are aligned, innovative ideas come in!

Upgrade your existing products with new ideas.

Encourage employees to propose ideas.
Implement and protect them!

The best ideas are formed in cooperation with different people, professions, and generations.

Various aspects ensure the integrity of innovation.

Learn from positive and negative experiences when planning innovation. These contribute to determination of the direction of further development.

Be curious. Move your borders and turn your thoughts upside down. Learn to look differently, from several perspectives.

Check your each idea from an economic point of view.
Does it pay off?

When planning innovation, communicate with potential users from all over the world, not only from Slovenia.

Development and testing of innovation

Cultivate courage, perseverance, high motivation.

Understand customers and precisely define the problem.

Believe in your solution and work with developers, marketers, brand leaders, and designers!

Design an analytical approach to the innovation. Define the intermediate objectives, indicators for individual phases, and how to keep tweaking until you get the final results.

Get trust from management, and ensure their motivation and engagement. Innovation will be easy to implement with their support.

Respond to the innovation challenge as your own mission. The personal engagement of the innovator leads to above-average results.

Let your innovation be unique! Check everything on the market. Connect the best with your differentiation and people will recognize it.

The team must have sincerity, trust, and respect!

Cooperation means that it is permissible and expected that doubts and possible wrong decisions might also be exposed.

Seek other people's feedback. It is not enough if the idea seems great only to an innovator, but not to others.

Evaluate the process of innovation development. This will help you to recognize the wrong path quickly and adjust it in time.

Innovate modularly. Set a big goal and smaller intermediate goals. Regularly monitor and evaluate them, and, if necessary, adjust your innovation.

When innovation is successful ...

Enjoy the feeling that the problem has been eliminated – that you and your innovation solved it.

Feel the enthusiasm – IT CAN BE DONE!

This is what the market tells us. The success of innovation is reflected in the increase in orders and reduction in the number of complaints.

We feel that the product is working properly when the customer is satisfied. We also feel the praise of the management and the recognition of our colleagues.

We look forward to seeing innovation in production. We pride ourselves in seeing customer satisfaction.

INNOVATION AWARDS 2018

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GOLDEN AWARD

Danfoss Trata d. o. o.

Automatic balancing valve ASV

Statistics show that up to 80% of all buildings in Europe do not have a properly balanced heating system, which consequently leads to higher energy consumption. On average, as many as 68% of all the energy used in buildings is absorbed by the heating system. By using the automatic balancing solution for hydraulic systems, up to 20% of heating energy can be conserved. Also, automatically balancing systems eliminates problems associated with excessive or insufficient heat or noise problems in certain parts of a building. Compared to the competition, the main advantages of the ASV product are better functions, simpler installation and servicing, simpler and quicker setting modulation, and simpler and faster system filling and cleaning.

Innovators:

Matej Volk, Matjaž Osojnik, Matjaž Gustinčič, Primož Papež





Company:
Danfoss Trata d. o. o.
Jožeta Jame 16
SI-1210 Ljubljana-Šentvid
E: customerservice.SI@danfoss.com
www.danfoss.si

GOLDEN AWARD

Domel Holding d. d.

Development and industrialization of modular EC suction units

State-of-the-art simulation tools have helped Domel develop a new family of brushless, electronically switched (EC) suction units and associated electronics, which feature 45% higher efficiency, low noise, and long service life. Its extremely low weight and compact design put Domel in the position to respond to the market trend of battery-powered products quickly and effectively.

The EC suction unit is designed modularly, enabling the use of one type of engine in various segments of battery cleaners and even in different applications. It was developed for products with 50-400 W power, and, in addition to the suction unit, an electronics unit was developed to meet customer demands.

Innovators:

Domen Čemažar, Ladi Nastran, Igor Markič, Danijel Rodič, France Mohorič, Tomaž Stanonik, Primož Bajželj, Marjan Kokalj, Jože Kamenšek, Aleš Dolenc, Franc Potočnik, Matej Tadina, Jani Šuštar, Franjo Gorše, Katarina Prezelj, Matevž Rihtaršič, Janez Kavčič, Matjaž Čemažar, Janez Rihtaršič



Company:
Domel Holding d. d.
Otoki 21
SI-4228 Železniki
E: info@domel.com
www.domel.com



GOLDEN AWARD

Efos informacijske rešitve d. o. o.

Trapview

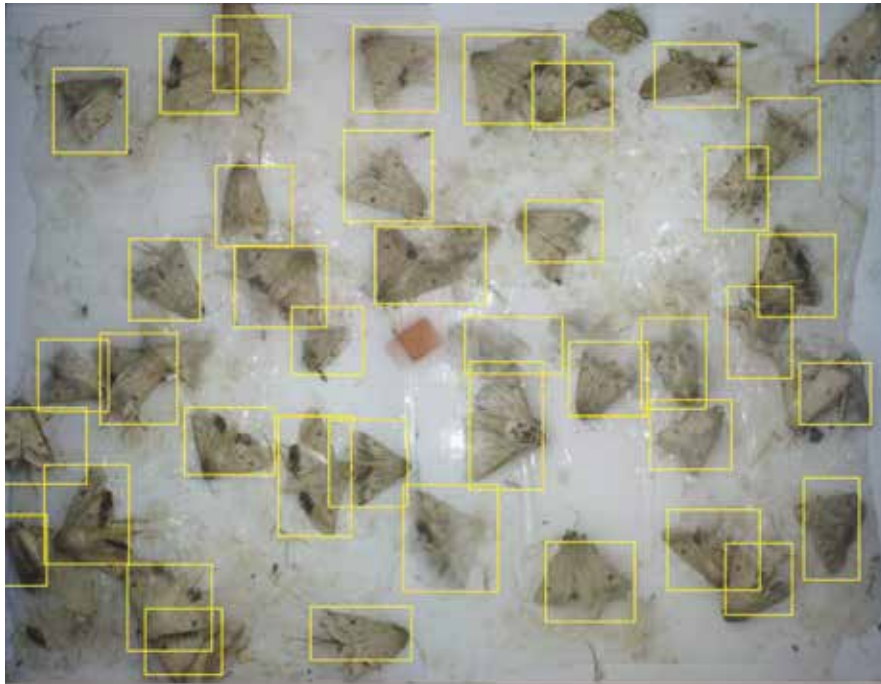
Modern crop protection must be both efficient and environmentally sustainable. This difficult goal is achieved only through the proper timing of application.

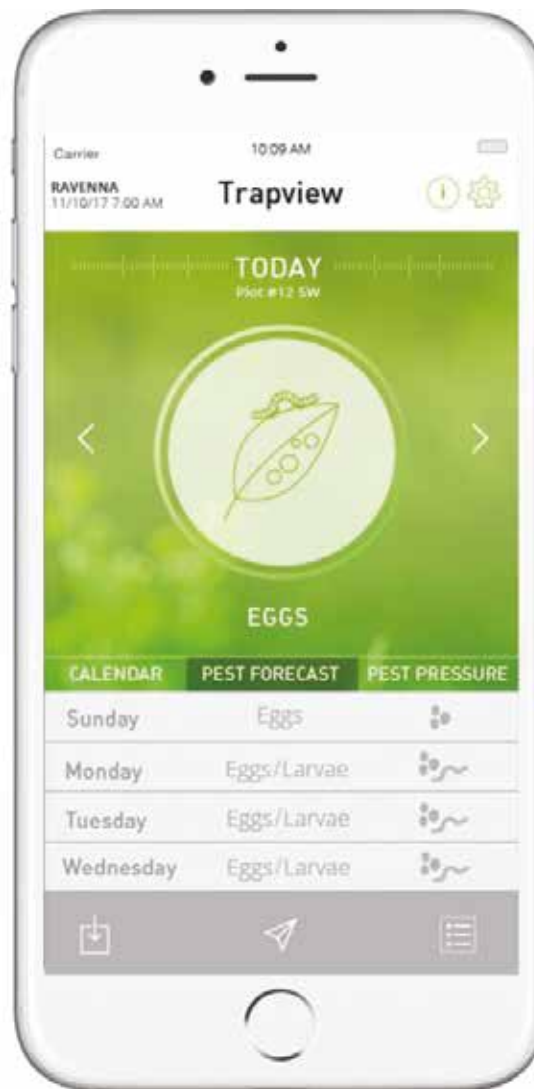
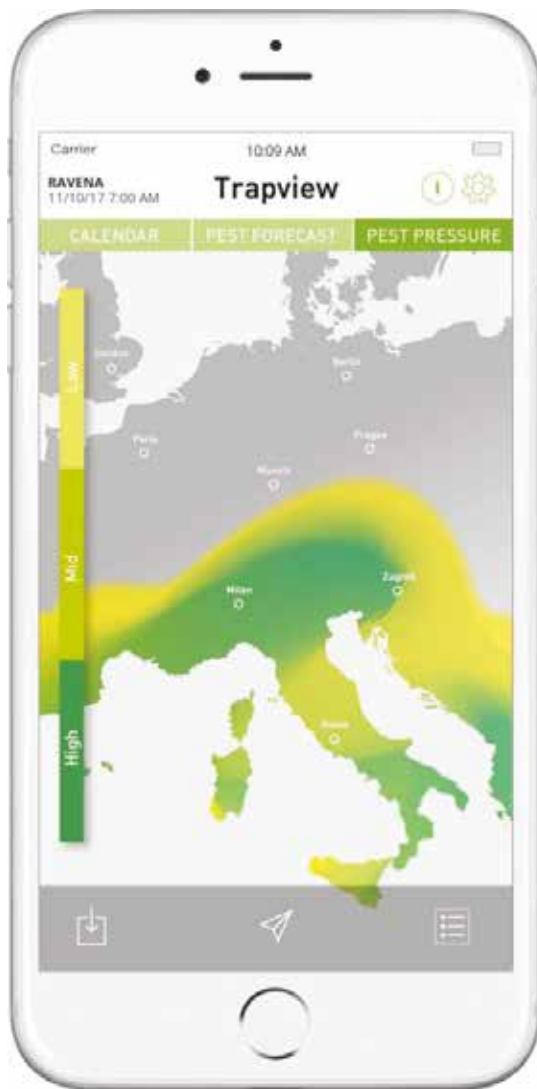
Introducing (mainly) artificial intelligence-based innovations has made the Trapview platform the most advanced pest monitoring and forecasting platform in the world.

It allows customers a completely automated approach to cost-effective and area-wide planning and verification of crop protection-related field activities, resulting in higher profits for farmers and a smaller impact on the environment.

Innovators:

mag. Matej Štefančič, dr. Katarina Mele, dr. Mateja Štefančič, dr. Dorjan Šuc, Dejan Jerič, Mitja Strojanshek





Company:
Efos informacijske rešitve d. o. o.
Razdrto 47 b
SI- 6225 Hruševje
E: info@efos.si
www.efos.si

GOLDEN AWARD

Gorenje d. d.

New generation of premium ASKO washing machines and tumble dryers

The new generation of ASKO Pro Home Laundry premium washing and drying machines developed in Gorenje was designed in intensive cooperation with users to deliver a range of new innovative solutions that help turn one of the most unpopular household tasks into a quick, efficient, safe, and reliable experience. The new generation of ASKO premium washing and drying machines has been proven by rigorous tests to be capable of 15-20 years of normal household use, with sensor-supported technology handling minimal time, water, and energy needs, and giving you more time for things that matter.

The ASKO line is Gorenje's first business model for the circular economy.

Innovators:

Tea Dovšak, Mojca Šilc, Jon Carlehed, Mitja Krajner, Izidor Rupnik, Mitja Vranc, Jože Skornšek, Uroš Gril, Matej Volk, Miha Plevel, Amadej Kvas, Janko Hrašar, Mitja Štimulak, Aleš Gašper, Alen Zavolovšek, Gregor Tepež, Klemen Horvat, Matjaž Kuhar, Alojz Jelen, Tomo Vodovnik, Marko Pečnik, Đorđe Kojičić



Company:
Gorenje d. d.
Partizanska 12
SI-3320 Velenje
E: info@gorenje.si
www.gorenje.com



GOLDEN AWARD

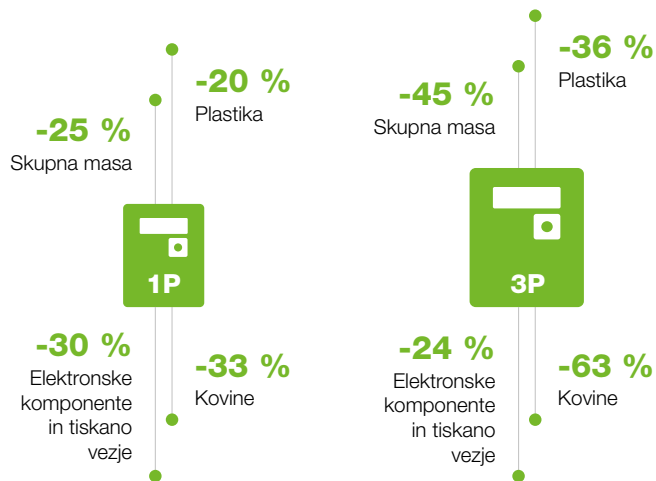
Iskraemeco, d. d.

Fair Meter

The Fair Meter project incorporates sustainable and circular economic practices in the production of fair smart meters. It is a vital element of Iskraemeco's three-tier sustainability strategy, focusing on implementing sustainability throughout the company, the supply chain, and in partnerships. The project places attention on materials, their origin, labour standards, on developing higher standards in the industry. An important aspect is educating customers and spreading awareness among them, suppliers, and stakeholders. The Fair Meter adds circularity and sustainability to the map of essential business values.

Innovators:

Mojca Markizeti, Nives Gregorc, Janez Bitenc, Primož Košir, Jan Cvek, Luka Šparovec, Damir Zajec, Janez Okorn, Aleksander Jerman, Boštjan Kerbev, Nikolina Vidovič, Katja Lipič, Nika Černivc, Simon Balanč, Nataša Hartman, Nina Merše



PRAVIČNI ŠTEVEC





Company:
Iskraemeco, d. d.
Savska loka 4
SI-4000 Kranj
E: info@iskraemeco.com
www.iskraemeco.com

GOLDEN AWARD

KRKA, d. d., Novo mesto

Development of an imatinib fast disintegrating tablet for treating cancer

This innovation relates to a fast disintegrating dispersible tablet containing imatinib for the treatment of some types of cancerous diseases. The dispersible tablet is dissolved in a glass of water or juice before intake, which makes it easier for oncological patients to swallow. This innovative medicine is the result of intensive research by Krka's scientists, along with the use of cutting-edge development and production equipment and the most advanced analytical methods. The product has been successfully launched on key markets and contributes significantly to the company's competitiveness and good business results.

Innovators:

Klemen Korasa, dr. Vesna Krošelj, Tamara German Ilič, dr. Špela Miklič, Marija Rangus, dr. Polona Bukovec, mag. Lucija Hvalec, Iztok Klobčar

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- (71) Applicant: KRKA, D.D., NOVO MESTO (SI);
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- (72) Inventors: KORBASA, Klemen; Kardijska cesta 73, 8000 Novo mesto (SI); KURBEC, Simon; Trbovcje 121, 8255 Trbovcje (SI); KROŠELJ, Vesna; Ragnska 158, Novo mesto 8000 (SI); VREČER, Franc; Polka 59, 8351 Senca pri Novem mestu (SI); SKRABANJA, Vid; Zaprta 48, 8300 Novo mesto (SI)
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(54) Title: FAST DISPERSIBLE PHARMACEUTICAL COMPOSITION COMPRISING TYROSINE-KINASE INHIBITOR

(57) Abstract: The present invention relates to a stable pharmaceutical composition in the form of fast dispersible tablets that comprises tyrosine-kinase inhibitor, which is preferably imatinib or a pharmaceutically acceptable salt thereof. The composition is produced by a simple, selective, straightforward, cost-effective process and by use of standard pharmaceutical excipients. Fast dispersible tablets obtained according to present invention are dispersible in water and/or other aqueous liquids, characterized with disintegration time of less than 3 minutes using purified water at 15-25 °C, preferably at 23°C.



Company:
KRKA, d. d., Novo mesto
Šmarješka cesta 6
SI-8501 Novo mesto
E: info@krka.biz
www.krka.si





Company:
KRKA, d. d., Novo mesto
Šmarješka cesta 6
SI-8501 Novo mesto
E: info@krka.biz
www.krka.si

GOLDEN AWARD

Radeče Papir Nova d. o. o.

Increased durability banknote paper produced with surface sizing mixture and surface sizing process for security paper with enhanced mechanical and anti-soiling properties

The majority of global banknotes are made from traditional cotton paper. The properties of cotton fibers and their processing in the manufacturing process lead to better mechanical, surface, and printing characteristics of the paper. Attempts to switch to plastic money are already underway; however, cotton paper is firmly in the prime position in the production of banknotes. New solutions to extend the life of paper banknotes are constantly being sought.

The life of banknotes is influenced by conditions in circulation, dirt, heat, moisture, mechanical stress, etc. The company Radeče Papir Nova has developed a process for producing banknote paper and handling paper that increases resistance to grease and water, and also improves the paper's mechanical properties.

Innovators:

Barbara Sušin, Sabina Medvešek, Dušan Kolman, Brane Bajc, Maks Pregrad, Marko Novak

Company:

Radeče Papir Nova d. o. o.
Njivice 7
SI- 1433 Radeče
E: info@radecepapir.si
www.radecepapir.si





GOLDEN AWARD

Swatycomet d. o. o., PE Zreče

Special Ultracut thin-cutting disc produced with innovative solid core technology

The company's breakthrough was achieved through the development of new thin-pressing technology in premium quality. This innovation allows for up to 30% faster cutting and a thinner product, faster turnaround times, higher productivity, lower labor costs, lower consumption and workpiece waste, less dust in cutting, easier work, and more precise cuts. The 15% higher density allows for up to 30% more cuts, resulting in less tool change, more processed pieces, and even greater added value for the customer.

Innovators:

Valentina Prapotnik, Rok Mezgec, Vili Potočnik, Milena Krajnik, Peter Matavž, Primož Mumelj, Marija Kotnik, Valerija Napotnik, David Gorenjak, mag. Iva Mlinšek Lešnik



Company:
Swatycomet d. o. o., PE Zreče
Tovarniška 5
SI-3214 Zreče
E: info@swatycomet.si
www.swatycomet.com



GOLDEN AWARD

TPV d. o. o.

First Integrated Mechanical Door Check with Unlimited Door Positioning

Car doors have always been fitted with a retainer, which allows the vehicle door to rest on two intermediate positions between the closed and the open position. TPV found that these two positions were not sufficient and that there is the need for a door hinge that facilitates the continuous closing of doors in any position between the two extremes.

This innovation solves the issues mentioned. The innovative door check is lightweight, compact, durable, easy to manufacture and use, and doesn't need maintenance during its lifetime, so it is perfect for serial manufacturing processes.

With the innovative solution TPV provides car manufacturers and of course car users with major benefits.

Innovators:

mag. Mirko Zupanc, mag. Vili Malnarič, Jurij Švegelj, Miran Podpečan, Marko Malnarič, Mitja Drenovec, Aleš Jakša, Tadej Verce, Dušan Šimec, Matevž Masilo, Boštjan Judež





Company:
TPV d. o. o.
Kandijska cesta 60
SI-8000 Novo mesto
E: tpv@tpv.si
www.tpv.si



SPECIAL INNOVATION AWARD FOR YOUNG COMPANY

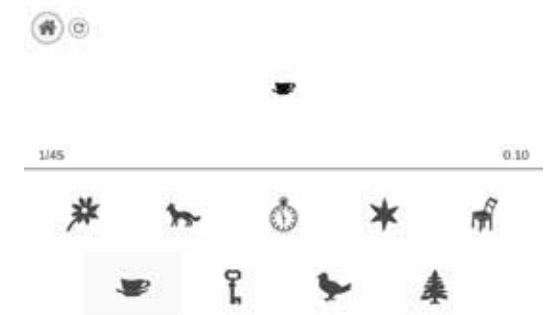
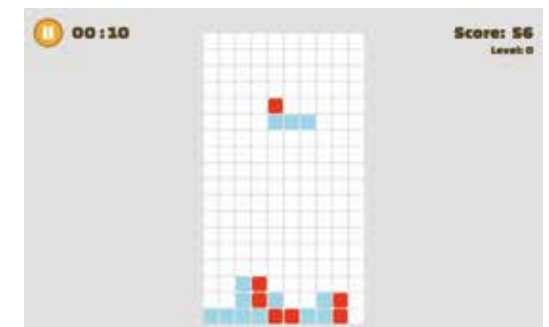
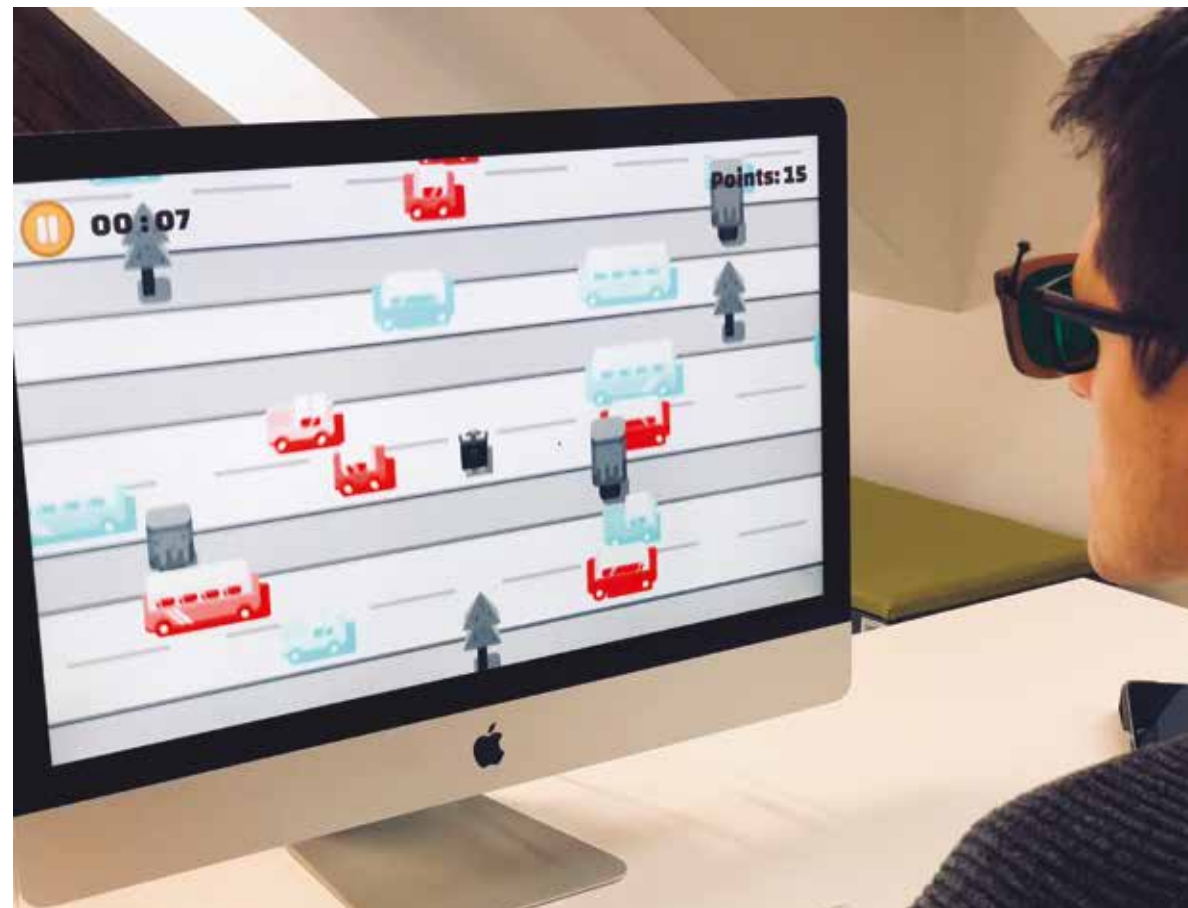
Smart Optometry Programske rešitve za optometrijo d. o. o.

AMBLYOPLAY – Vision therapy through games for children

AmblyoPlay is a vision therapy designed for children with some sort of seeing problems (convergence insufficiency, lazy eye, strabismus, etc). These problems affect up to 15% of the population, but they can fortunately also be eliminated through practice. Training should start as early as possible, as the results are best for children up to 8 years of age. Training should be interesting for children, so AmblyoPlay is designed as a game on a tablet or computer that adapts to a child's needs and progress, which can then be tracked by parents and specialists. The goal is to motivate the child to play, since the regular exercise of vision training is a prerequisite for success.

Innovators:

Blaž Grah, Urban Kodela, Žan Menart, Matic Ozebek, Matic Vogrič





Company:

Smart Optometry Programske rešitve za
optometrijo d. o. o.

Lapajnetova ulica 19

SI- 5280 Idrija

E: zan.menart@smart-optometry.com

www.smart-optometry.com

SILVER AWARD

ARCTUR računalniški inženiring d. o. o.

Alsense, raziskave in razvoj, d. o. o.

AI Sense Gamma IV, handheld real-time instrument showing the direction of a gamma-ray source

AI Sense Gamma IV is the world's first true real-time handheld gamma-ray locator, providing users with the direction vector towards a gamma-ray source, detecting the presence of neutrons, and describing gamma-ray energy spectral information; all of those are used for subsequent radionuclide identification (Nuclide ID). This device fundamentally changes the way gamma-ray sources are sought and results in safer and dramatically shorter search operations.

Innovators:

doc. dr. Matjaž Vencelj, dr. Toni Petrovič, Andrej Košiček

Company:

ARCTUR računalniški inženiring d. o. o.

Industrijska cesta 1 a

SI-5000 Nova Gorica

E: info@arctur.si

www.arctur.si

Alsense, raziskave in razvoj, d. o. o.,

Pečice 8, Pečice

SI-3257 Podsreda

E: info@aisense.si

www.aisense.si



SILVER AWARD

BSH Hišni aparati d. o. o. Nazarje

Fully automatic coffee machine EQ.3

For everyone who craves "coffee shop feeling" in their own home, Siemens has developed the fully automatic entry-level EQ.3 coffee machine, compact with high design quality, straightforward usage, and of course uncompromisingly high-quality coffee.

The innovations that EQ.3 introduces include coffeeDirect touch display with illuminated sensor buttons (for choosing the drink type and strength) and a newly developed milk system for making specialty coffees. The result is a perfectly crafted cappuccino or latte macchiato.

Innovators:

Rok Apat, Slavko Fujs, Miha Berginc, Primož Gortnar, Boštjan Jan, Sebastijan Vehovar, Marjan Miklavžina, Matej Spasič, Vitko Remšak, Rok Stakne, Anže Podgoršek, Klemen Britovšek, Jan Ažman, Darjan Savič, Aleš Kreslin, Peter Leskovšek, Franček Brinjec



Company:

BSH Hišni aparati d. o. o. Nazarje
Savinjska cesta 30
SI-3331 Nazarje
T: +386 3 839 82 22
www.bosch-home.com/si/

SILVER AWARD

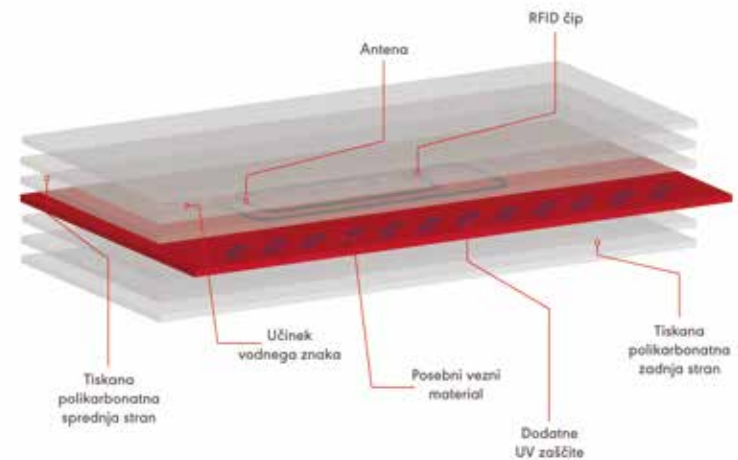
CETIS d. d.

CCH - Cetus Chip Hinge

Cetus is among the few global passport data page providers with original, patented, tested, and effective solutions. Their latest patented passport data page version includes an integrated contactless medium into the flexible bonding material. This solution makes passports much more impervious to counterfeiting and falsification. Any attempt to change the content of the variable data is clearly visible; the document gets destroyed and is no longer usable.

Inovators:

mag. Roman Žnidarič, Milan Kerič



Company:
CETIS d. d.
Čopova 24
SI-3000 Celje
E: info@cetis.si
www.cetis.si

SILVER AWARD

ebm-papst Slovenija d. o. o.

Development of vibro-insulation for dishwasher fan motors

Our homes employ various household appliances, which together produce relatively high levels of noise and have a bad influence on human feelings and moods.

The company follows the trends in the development of increasingly quiet products, and has thus developed the principle of vibration isolation, which reduces the transmission of vibrations from electric motors to adjacent components. The new home appliances produce less noise and give the end user a more relaxed and quality life.

Innovators:

Tadej Kranjc, Alen Turk, Matjaž Velikajne

Company:

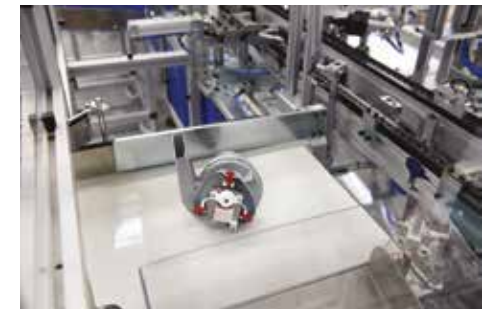
ebm-papst Slovenija d. o. o.

Podskrajnik 16

SI- 1380 Cerknica

E: info@si.ebmpapst.com

www.ebmpapst.si



SILVER AWARD

ETI d. o. o. Izlake

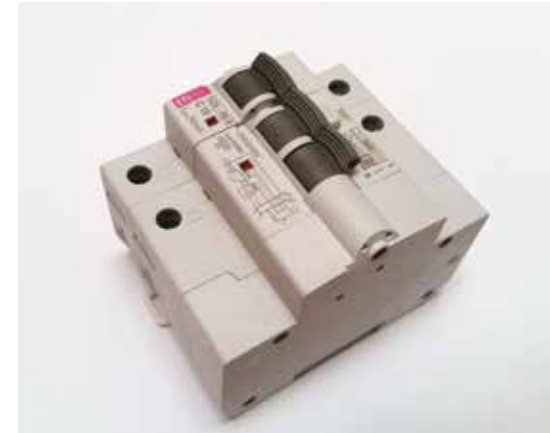
Residual current circuit breaker with integral overcurrent protection KZS-4m 2p B type

Type-B residual current circuit breakers with overcurrent protection are vital products on the worldwide market, as they protect single-phase frequency converters and charging stations for electrical cars, which are on the rise at the moment. In addition to the overcurrent, short circuit, and residual current protection of type A, the RCBO also offers the protection for residual currents of type B, where sinusoidal residual currents up to 1 kHz and direct residual currents are included. The RCBO was designed at a width of four modules, making ETI the only company in the world that produces it in such narrow size.

Inovators:

Andraž Pušnik, Lucjan Strehar

Company:
ETI d. o. o. Izlake
Obrezija 5
SI-1411 Izlake
E: eti@eti.si
www.eti.si



KZS 4M 2p B
 $I_n = 6 - 40 \text{ A}$
 $I_{\Delta n} = 30, 100, 300 \text{ mA}$
 $I_{cn} = 10 \text{ kA}$
Type: B
Tripping Characteristic: B, C



SILVER AWARD

ETI d. o. o. Izlake

Development of technology for the production of low voltage NV fuses

Low-voltage NV fuses require absolute precision in assembly due to their demanding characteristics. In order to ensure the required accuracy, ETI developed and integrated new advanced technology, which replaced the manual assembly with a fully controlled, automated, and robotized manufacturing process.

ETI's new production line adds a unique serial number to each manufactured product and stores the measurement data in ETI's databases. Since ETI produces more than a million fuses per year, this data will give the company a great advantage over its competitors.

Innovators:

Peter Drnovšek, Matjaž Drnovšek, Anton Rome, Miha Drnovšek, Matej Kerin, Peter Bregar, Tomaž Pirnat, Blaž Zupančič, Jano Arh, Peter Benko



Company:

ETI d. o. o. Izlake

Obrezija 5

SI-1411 Izlake

E: eti@eti.si

www.eti.si



SILVER AWARD

Gorenje d. d.

New generation of free standing cookers - FS16

The kitchen as a single-person workspace is becoming a thing of the past; kitchens are becoming the heart of a family, where meals are prepared with love and care. Gorenje presents a new generation of freestanding cookers with a dazzling array of advanced features and details that ensure a significantly simpler, safer, and more pleasant user experience.

With its new generation of cookers (50, 60, and 70 cm wide) Gorenje fleshes out its range of universally functional household appliances that respond to the demands of fast-paced modern life.

Innovators:

Elvir Čaušević, Jiří Balhar, Mitja Oštir, Matevž Popič, Jon Carlehed, Tadej Plantev, Dalibor Petrinjak, Viktor Verdev, Igor Svečko, Bojan Felle, Janez Pak, Uroš Kokolj, Mitja Križnik, Klavdija Žerdoner, Zbynek Brazdil, Jiří Dvorák, Aleš Bombera, Petr Pospíšil, Michal Stibor, Simon Grobelnik, Pavel Višnievský, Uroš Kovačič, Franc Koren

Company:

Gorenje d. d.

Partizanska 12

SI-3320 Velenje

E: info@gorenje.si

www.gorenje.com



SILVER AWARD

HELIOS d. o. o.

New generation resins for two-component polyurethane paints for metal and wood protection.

Innovation at Helios is seen in a group of acrylic binders to produce the most demanding coatings for the protection and attractive appearance of metals and wood. Compared to the existing market, Helios has managed to reduce emissions of hazardous organic solvents to create the potential for energy savings and to incorporate bio-renewable raw materials. At the same time Helios guarantees high quality according to the requirements of some of the most demanding customers in Western Europe. Helios managed to penetrate the relatively conservative coatings market within just a few months, which is a great confirmation of the innovation's quality.

Innovators:

dr. Martin Ocepek, Peter Mišvelj, Jožefa Zabret,
asist.dr. Miha Steinbücher, Tomaž Košir, Roman Pestotnik,
dr. Peter Venturini



Company:

HELIOS Tovarna barv, lakov in umetnih
smol Količevo d. o. o.
SI-Količevo 65
1230 Domžale
T: +386 1 722 40 00
www.helios.si



SILVER AWARD

HYB, d. o. o.

Piezoresistive manifold differential low pressure sensor HPSD8000

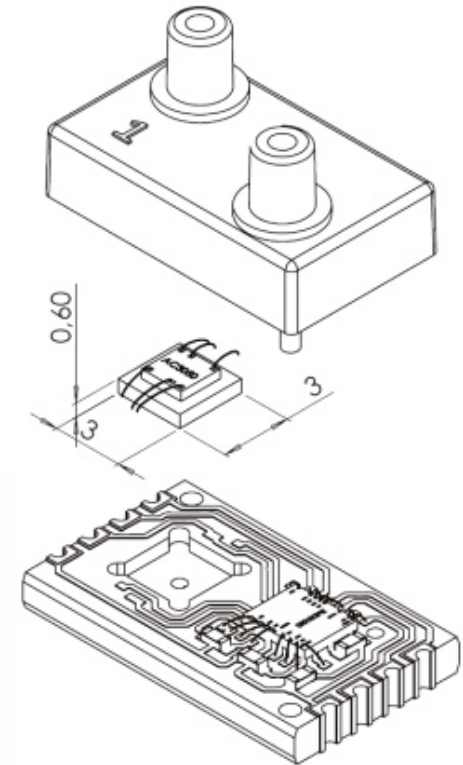
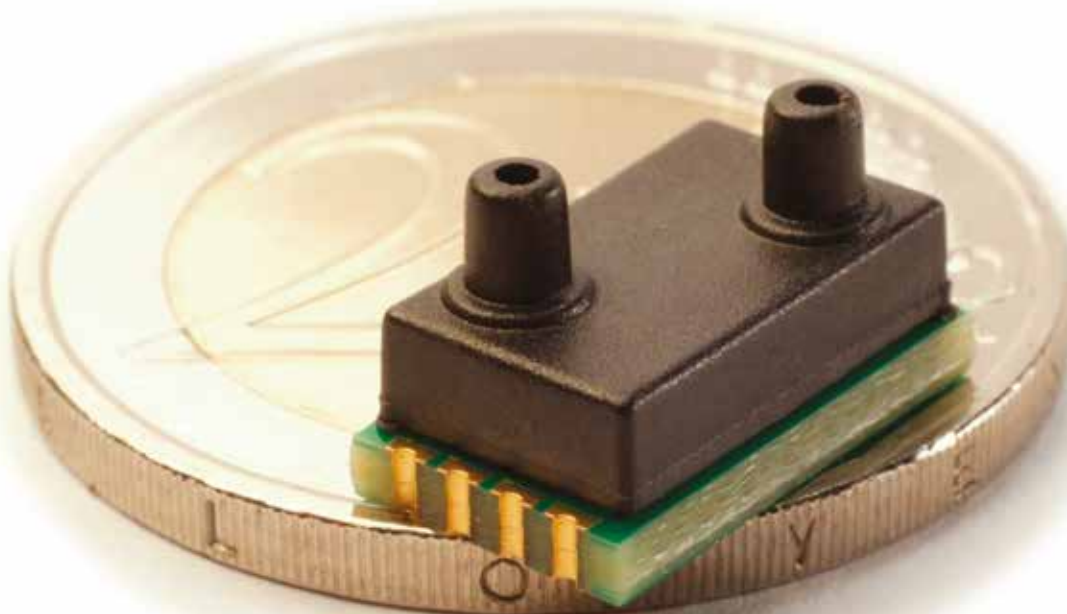
The miniature differential pressure sensor is based on a modern CMOS circuit for digital sensor signal processing; its algorithms eliminate all of the unwanted effects of temperature and nonlinearity.

The high-accuracy and long-term stable sensors with 3 V or 5 V supply are perfect for battery-powered applications in mobile and portable devices.

Typical applications of the HPSD8000 sensors can be found in medical devices (anesthesia machines, machines for help with breathing, CPAP, spirometers, oxygen concentrators), HVAC (volumetric flow controllers, filter monitoring, burner control), instrumentation, and other industrial applications.

Innovators:

dr. Marko Pavlin, Sandi Kocjan, Tadej Zarabec, Janez Gramc



Company:
HYB, d. o. o.
Levičnikova cesta 34
SI-8310 Šentjernej
E: info@hyb.si
www.hyb.si

SILVER AWARD

Impol 2000, d. d.
Alcad d. o. o.
C3M d. o. o.

OptiAI-recycling friendly wrought aluminium alloys from Impol

This innovation came in the development of an advanced algorithm for designing wrought aluminum alloys of specified quality with an increased share of waste aluminum and process paths for the production of finished products, which provide the desired combination of functional properties. The algorithm is based on the use of artificial intelligence and machine learning from the data obtained by data mining in the processes of the Impol group collected in the large data matrix.

Innovators:

dr. Varužan Kevorkijan, Uroš Kovačec, dr. Peter Cvahte,
Vukašin Dragojević, Marina Jelen, dr. Darja Volšak, Borislav Hostej,
Irena Lesjak (Impol d.d.)
Sara Hmelak, Branko Hmelak (Alcad d.o.o.)
dr. Tomaž Šustar, dr. Janez Langus(C3M d.o.o.)

Company:

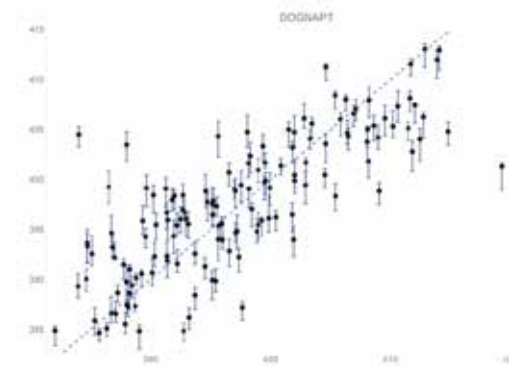
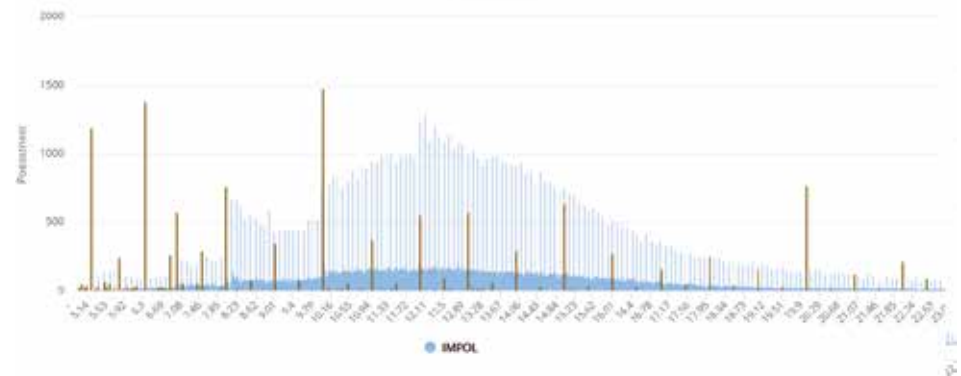
Impol 2000, d. d.
Partizanska 38
SI-2310 Slovenska Bistrica
T: 02 845 31 00
www.impol.si

and Company:

Alcad d. o. o.
Zg. Bistrica 4
SI-2310 Slovenska Bistrica
E: info@alcad.si
www.alcad.si

and Company:

C3M d. o. o.
Tehnoloski Park 21
SI-1000 Ljubljana
E: info@c3m.si
www.c3m.si



SILVER AWARD

INCOM Proizvodno trgovsko podjetje d. o. o.
Ajdovščina

Leone ALIVE Better Choice Ice Cream

The company has produced two special ice-cream brands under the LEONE ALIVE brand name; Protein Vanilla Ice Cream stick and Mini Meal Stick.

The low calorie protein sticks are distinguished by high protein content (11.5%), naturally occurring sugars, and a texture that allows the ice cream to adhere to the stick (the competition fills the ice cream into pots).

The low-calorie Mini Meal Stick is ice cream with Greek yoghurt and vitamin D, semi-candied berries, and raw oats that keep their crispyness – this combination has only been achieved by Incom.

Innovators:

Nataša Kofol Ščuka, Darja Vrečar, Iris Kavčič,
Tamara Juričič, Matija Šinigoj, Kristjan Jerončič

Company:

INCOM Proizvodno trgovsko podjetje d. o. o. Ajdovščina
Tovarniška cesta 6A
SI-5270 Ajdovščina
T: +386 5 364 39 00
www.leone.si



SILVER AWARD

Iskratel, d. o. o., Kranj

Iskratel Innbox V70-U in Innbox G69

Iskatel has developed a unique solution for fiber termination in its latest range of fiber products.

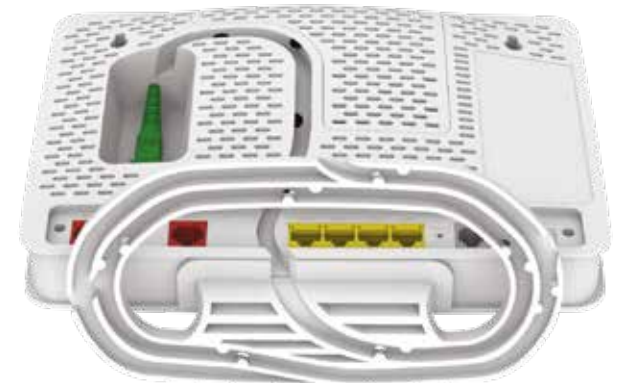
The reverse side of the Innbox G69 gateway features integrated fiber optic winding/organizing grooves, as well as a fixing area and secure storage for the optical weld. The optical fiber, the end connector, and the optical connection are thus well protected against any external influences.

In addition to the similarly integrated optical termination unit, the Innbox V70-U universal product is an innovative solution for adding a wireless module. The product's supporting foot serves as an optical termination unit, while the opening in the middle of the support leg helps organize the cables for wall mounting.

The innovation protected by the model features among other things a robust design and optimized production costs.

Inovators:

dr. Mitja Golja, Uroš Habič



Company:

Iskratel, d. o. o., Kranj

Ljubljanska cesta 24a

SI-4000 Kranj

E: info@iskratel.si

www.iskratel.com



SILVER AWARD

Kolektor KFH d. o. o.

High coercitive polymer bonded magnetic material with designed properties for specific, technologically advanced rotor applications

The development of new magnetic material, based on polyamide 6 (PA6), high coercive strontium ferrite magnetic powder, and additives, has reduced our production scrap rate with the current market-bought material. The newly developed material's lower viscosity has improved the processability during injection moulding. Better processability also lowers imbalances in the rotors. The improved magnetic powder implemented into the magnetic material has brought the magnetic characteristics of the rotor within specifications. Production scrap has decreased, while injection moulding is more stable and productive.

Inovator:

Karla Kosmač

Company:

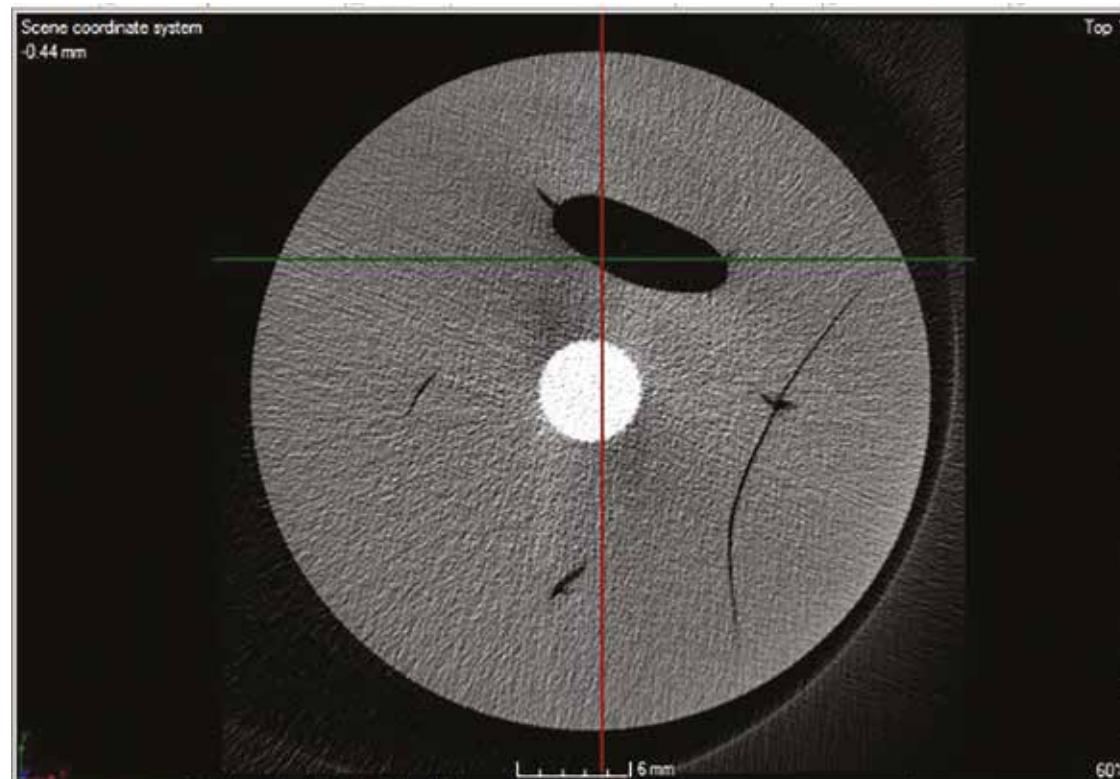
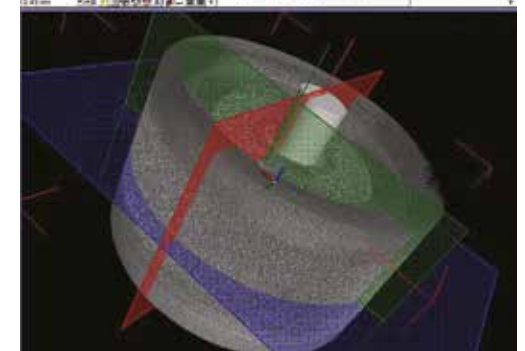
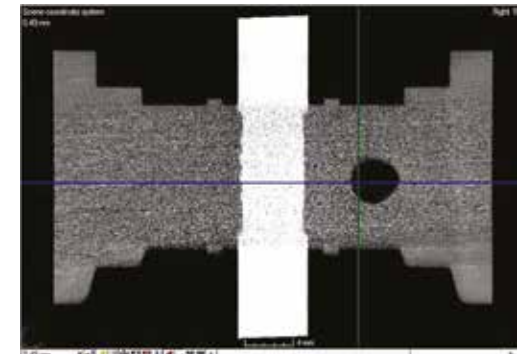
Kolektor KFH d. o. o.

Vojkova ulica 10

SI-5280 Idrija

E: kfh@kolektor.com

www.kolektor.com



SILVER AWARD

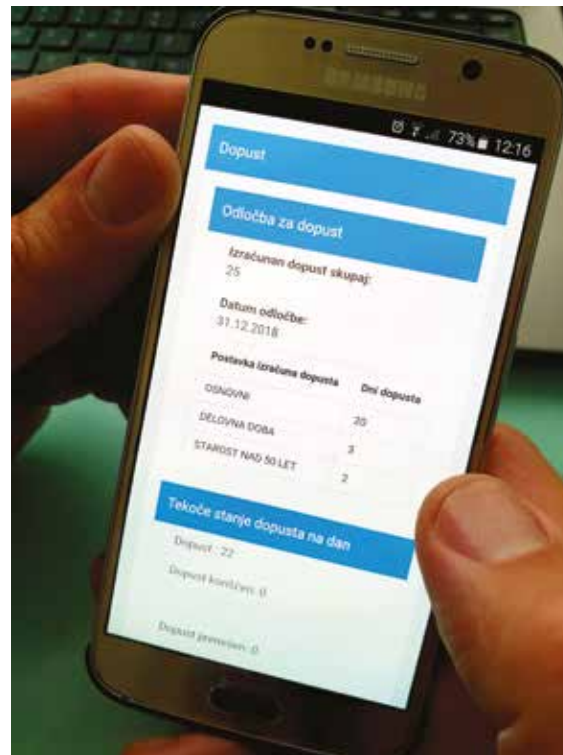
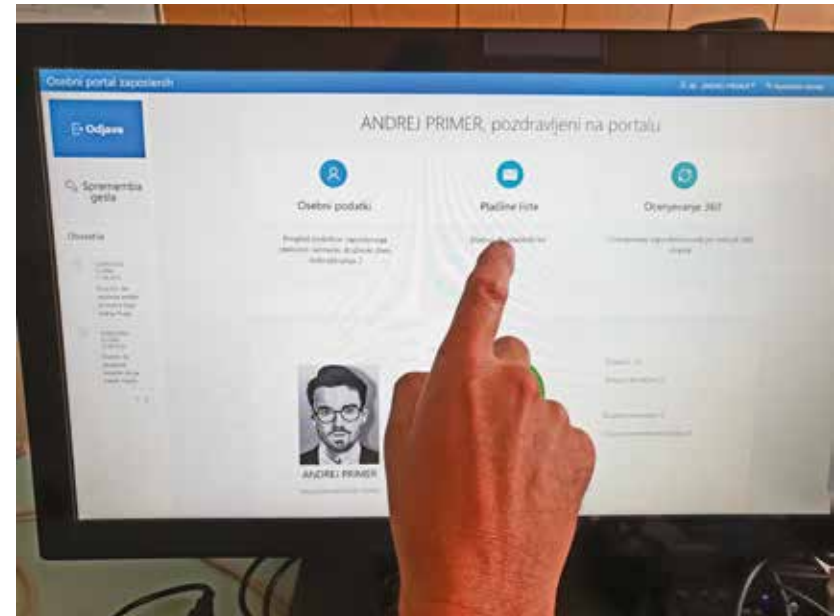
Kopa računalniški inženiring, d. d.

Advanced intuitive personal portal - HR-BOT 24/7

The intuitive personal employee portal introduces digitization to personnel functions. The employee portal is a place where employees can see their data in a transparent way, monitor the achievement of their goals, express their opinions and suggestions, and communicate with HR. At this point, it can be served with various data that would otherwise be obtained in paper form from personnel services (payment envelopes, leave decisions, planned education, participation in surveys intended for the improvement of processes and planning of education, etc.). Digitizing employee data frees up more time for those processes that are intended for development, increasing competencies, and actively involving other employees in personnel development processes.

Innovators:

Damjan Uranc, Matjaž Jurjec, Marko Gubenšek, Špela Blatnik Ošlak, Gregor Štelcer, mag. Domen Ocepek



Company:

Kopa računalniški inženiring, d. d.
Kidričeva 14
SI-2380 Slovenj Gradec
E: info@kopa.si
www.kopa.si

SILVER AWARD

Kopur d. o. o.

Acoustic decorative plates and 3D products

With this innovation the company improves the negative effects of waste materials on the environment and primes them for re-use. Fleece remnants are processed by grinding, modeling, and thermoforming into plates and three-dimensional products of various shapes and designs with or without the addition of binders. The results are decorative, relief acoustic protective plates, designed for indoor use in partitions, such as ceiling tiles. The panels are excellent sound insulators, absorbing all unwanted noise.

Innovators:

mag. Marko Smrtnik, Jože Gaberšek, Samo Veršnik,
Dušan Goršek



Company:

Kopur d. o. o.
Pameče 150 A
SI-2380 Slovenj Gradec
E: info@kopur.si
www.kopur.si



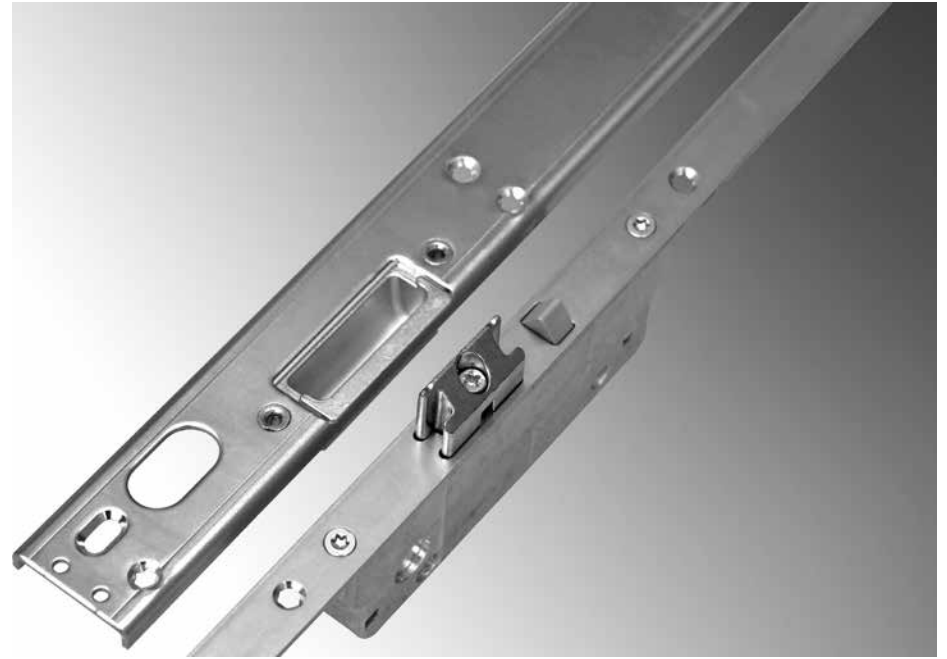
SILVER AWARD

Kovinoplastika Lož d. d. Comfort Door Lock

Comfort door locks are key operating door locks that can be installed in the latest state-of-the-art doors with built-in grips. Another special feature of the Comfort door lock is found in the integrated system for automatically activating the closing elements – closing elements are activated every time the door is closed. The door thus closes at 3 points at all times. This significantly improves the door's seal, reduces heat losses, and consequently lowers the cost of energy. Excellent door tightness also results in reduced emissions of ambient noise and thus quality of life.

Inovators:

Petar Tadić, Samo Petrič



Company:

Kovinoplastika Lož d. d.

Stari trg pri Ložu

Cesta 19. oktobra 57

SI-1386 Stari trg

E: info@kovinoplastika.si

www.kovinoplastika.si

SILVER AWARD

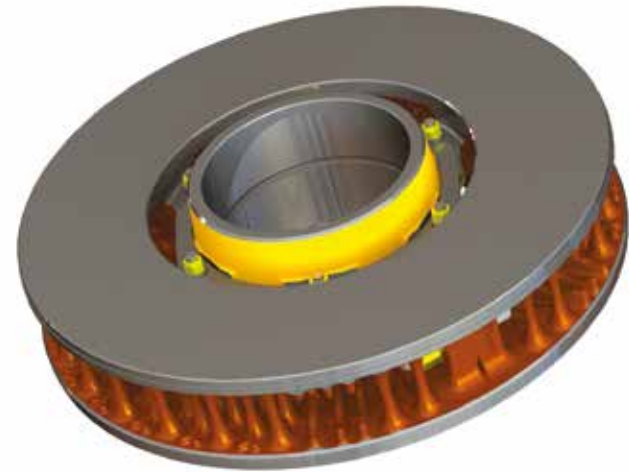
Kovis d. o. o.

Futura disc

This innovation solves the challenge of energy efficiency in rail vehicles' brake disks. The product's weight was reduced, resulting in lowered required power of the locomotive, thus increasing the possibilities of transporting large quantities of cargo and reducing the energy required for the production of the product itself. All the features of this innovation have a beneficial impact on the environment. The company also optimized the shape of the brake disks' cooling ribs, which despite the reduced weight of the product still equally effectively discharge heat and, in rotation, create significantly lower air resistance. The disc-hub assembly was also designed to increase product safety and reduce the potential for vibration.

Innovators:

Ivan Smolej, David Deržič, Uroš Grivc



Company:

Kovis d. o. o.

Brezina 102

SI-8250 Brežice

E: info@kovis-group.com

www.kovis-group.com



SILVER AWARD

Ledinek Engineering, d. o. o.

UNIPRESS – for pressing and bonding wooden lamellas into laminated boards of various widths and including openings without wasted wooden lamellas

This innovation addresses woodworking machines for the production of wooden houses. The UNIPRESS press allows the lateral joining of lamellas of different lengths to other lamellas of any width and also allows for the production of openings (for windows, doors) without wasting wood.

The press' innovative construction allows for the continuous production and compression of wood lamellas into large-scale plates. The press can form intermediate openings during the wood-pressing process. This is a new, fresh approach, which maximizes the utilization of raw wood material and, consequently, minimizes waste material.

Innovators:

Gregor Ledinek, Robert Gašparič (Ledinek Engineering)

Janez Klemenčič (Simat - Janez Klemenčič s. p.)



Company:

Ledinek Engineering, d. o. o.

Bohovska cesta 19 A

SI-2311 Hoče

E: info@ledinek.com

www.ledinek.com



SILVER AWARD

Lek veterina d. o. o.

Actiferm® method and water-soluble feed mixture

The Actiferm® innovation is a water-soluble supplementary feed with probiotics, vitamin C, and essential oils to promote the immune system, reduce the colonization of pathogenic bacteria in the intestines of broiler chickens, and improve overall production parameters. The product's complex innovative composition strengthens and stimulates the immunity of young animals, improves gastrointestinal functions and digestive processes, and promotes feed and water intake. Actiferm® is extremely important in the increased pathogenic pressure of bacteria in poultry rearing as it stimulates the response of the immune system while increasing the production parameters of breeding by improving functional processes in the gastrointestinal tract.

Innovators:

Elizabeta Škrget, Tina Horvat, Jožica Domiter, Karmen Jerič, Jožica Hartman, Dejan Vrabelj, Danijela Ficko, Milan Cigut, Stanislav Štotl, Jernej Domonkoš, prof. dr. Abdulah Gagić

Company:

Lek veterina d. o. o.

Lipovci 251 a

SI-9231 Beltinci

E: info@lek-veterina.si

www.lek-veterina.si



SILVER AWARD

MIK Celje d. o. o.

MIKrovent local ventilation system

MIKrovent 60 and 120 are new models of local ventilation systems with technology that replaces the need for opening tight windows for aeration. MIKrovent is a system for the decentralized ventilation of new and existing buildings with heat recovery and the possibility of regulating humidity in living areas. The new devices offer comfortable living at a high level of air recuperation (up to 95%), and are intended for use in relatively large spaces (over 60 m²).

Innovators:

Franci Pliberšek, prof. dr. Peter Novak, Tadej Kresnik, Dušan Živkovič, Edo Bahč, dr. Vlado Schweiger, Tomaž Požin, Rok Kuhar



Company:
MIK Celje d. o. o.
Celjska cesta 55
SI-3212 Vojnik
E: mik@mik-ce.si
www.mik-ce.si

SILVER AWARD

Roto Group d. o. o.

Pontoon for water – sea, lakes, rivers

This pontoon is a market innovation that captures the existing good properties of functionally similar products but extends their lifespan and, consequently, lowers maintenance and production costs. The usual lifespan of pontoons (steel, wooden) is 2-3 years. The innovation of Roto's pontoon is reflected in the product's very structure, in its 100% recyclable material (polyethylene is extremely durable material, withstanding heavy external influences for 10 years and more), and its characteristics (the possibility of combining and designing any shape and pattern for hiking surfaces).

With the new pontoon unused aquatic areas (lakes, calm waters, open seas and fast rivers) can be used in any region, thus increasing the touristic visibility of each region.

Innovators:

Matjaž Pavlinjek, Denis Mušković, Kristjan Gregorčič, Suzana Flisar, Anja Farič

Company:

Roto Group d. o. o.

Gorička cesta 150, Černelavci

SI-9000 Murska Sobota

T: +386 2 52 52 151

www.roto-group.eu



SILVER AWARD

Razvojni center Jesenice, d. o. o.
SIJ Acroni d. o. o.

Tough enough for all obstacles with SITHERM 2343

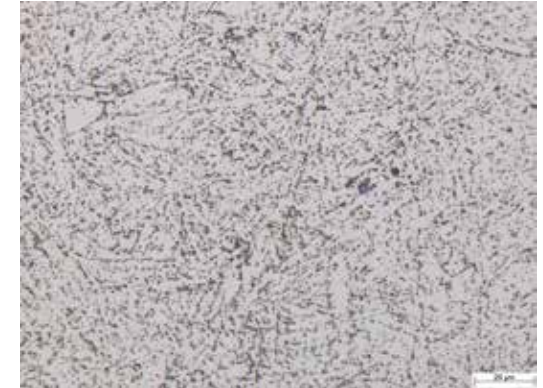
SITHERM 2343 hot work tool steel is the result of collaboration between Razvojni Center Jesenice and the company SIJ Acroni. By understanding the material's characteristics and its final use through usual applications we ensured stability within the nature of existing production equipment. Innovation and the resulting competitive advantage are part of the carefully optimized production process, which enables us to achieve the sufficiently low content and homogeneous distribution of non-metallic inclusions (cleanliness) and structural uniformity (isotropy) of material, comparable to the quality of the most demanding traditional production, without additional technological steps. The innovation is an essential steel product within the main group of hot work tool steel, and opens the door for successful production of other types of hot work tool steels.

Innovators:

dr. Grega Klančnik, Aleš Čop, dr. Boštjan Bradaškja,
mag. Viktorija Marušič, mag. Milan Klinar, Aljoša Reven

Company:
Razvojni center Jesenice, d. o. o.
Cesta Franceta Prešerna 61
SI-4270 Jesenice

SIJ Acroni d. o. o.
Cesta Borisa Kidriča 44
SI-4270 Jesenice
E: info@acroni.si
sij.acroni.si



SILVER AWARD

SIJ Metal Ravne d. o. o.

Optimization of the production of cold-work ledeburitic steels

The innovation project covers the complete production process from Steel Plant to the Finishing Shop of end products. It includes analytics of complete production process, the identification of potential problems, and the anticipation of solutions.

The innovation team tackled 64 potential problems and found great solutions from the following fields: ingot surface, mould temperature, measurement of heating temperature, optimization of rolling times, control of billets with the introduction of a magnifying lens to control the surface and arrangement of conditions for control with proper light, introduction of a new cleaning regime, and the reduction of production process standstills.

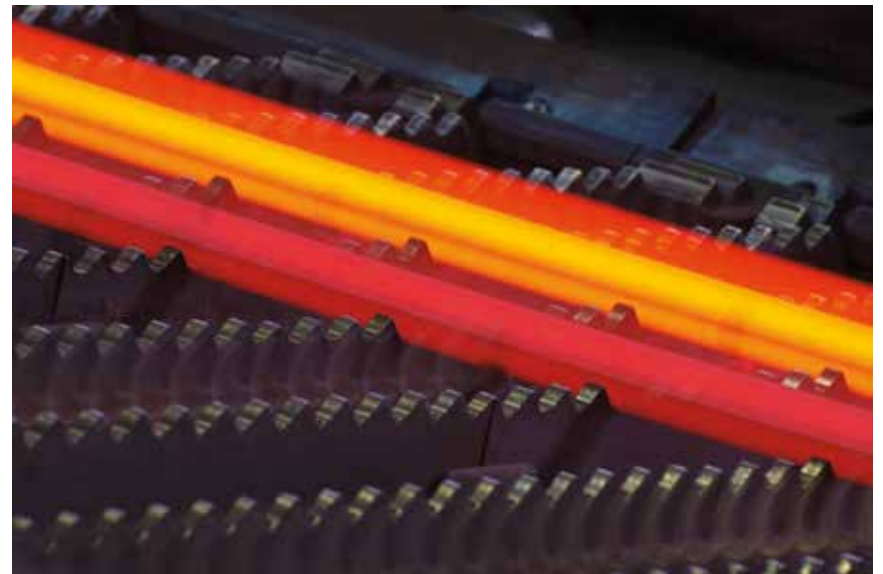
The total effect of this innovation in 2017 was EUR 1.2 mil. savings.

Innovators:

Gašper Stopar, Emil Zohorovič, Jernej Turščak, Damjan Petrič

Company:

SIJ Metal Ravne d. o. o.
Koroška cesta 14
SI-2390 Ravne na Koroškem
E: info@metalravne.com
sij.metalravne.com



SILVER AWARD

SIJ Ravne Systems d. o. o.

Unique automatic device for bar processing

The company has developed a unique solution for the automatic manipulation of round bars. The innovative system makes it possible to use a wide variety of machine tools with round rods. The system is user-friendly and provides an autonomous operating mode. It reduces the possibility of injuring operators and it reduces congestion and damage due to material manipulation. It can be used on a wide range of dimensions and it allows for the complete automation of the process of using round bars with different machine tools, as well as further system upgrades where possible.

Innovators:

Nejc Gorinšek, Igor Vušnik, Blaž Smonkar

Company:

SIJ Ravne Systems d. o. o.

Koroška cesta 14

SI-2390 Ravne na Koroškem

E: info@ravnesystems.com

<https://sij.ravnesystems.com>



SILVER AWARD

Swatycomet d. o. o.

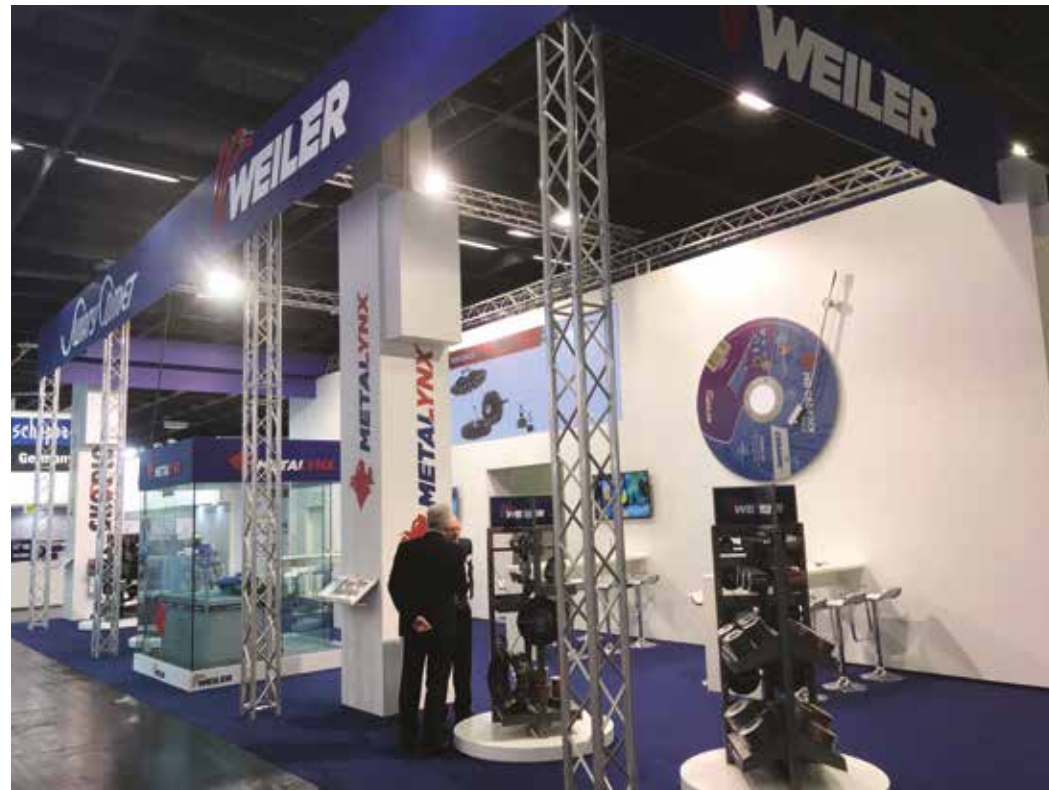
The Metalynx Ceramic line of ceramic cutting discs and grinding wheels with superior cutting and grinding performance due to innovative, self-sharpening ceramic grain

This innovation is a new line of D115-230 cutting wheels and D115-230 grinding wheels containing self-sharpening ceramic grains. Ceramic wheels deliver the fastest grinding or cutting with the least effort on all types of steel and stainless steel.

The advantages include less effort required, longer life, less tool and processed piece changes and therefore greater added value for the customer, a significantly higher number of cuts for the best effect on full profiles, extremely aggressive grinding, increased productivity, thermal resistance, and huge savings on time.

Innovators:

Valentina Prapotnik, Rok Mezgec, Lolita Šerod, Danijela Senčar, Marija Kotnik, Valerija Napotnik, mag. Urška Vouri, Peter Matavž



Company:

Swatycomet d. o. o.

Titova cesta 60

SI-2000 Maribor

E: info@swatycomet.si

www.swatycomet.com

SWATYCOMET
SPECIALCERAMIC
Tanke rezalke in brusne plošče

Linija izdelkov **SPECIALCERAMIC** je izdelana s keramičnimi abrazivnimi zrnji, ki se zaradi posebne mikrokristalne strukture med procesom rezanja ali brušenja nenehno samoostrijo, kar pomeni, da izdelek vedno reže ali brusi s polno močjo.
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NOVA GENERACIJA IZDELKOV

SILVER AWARD

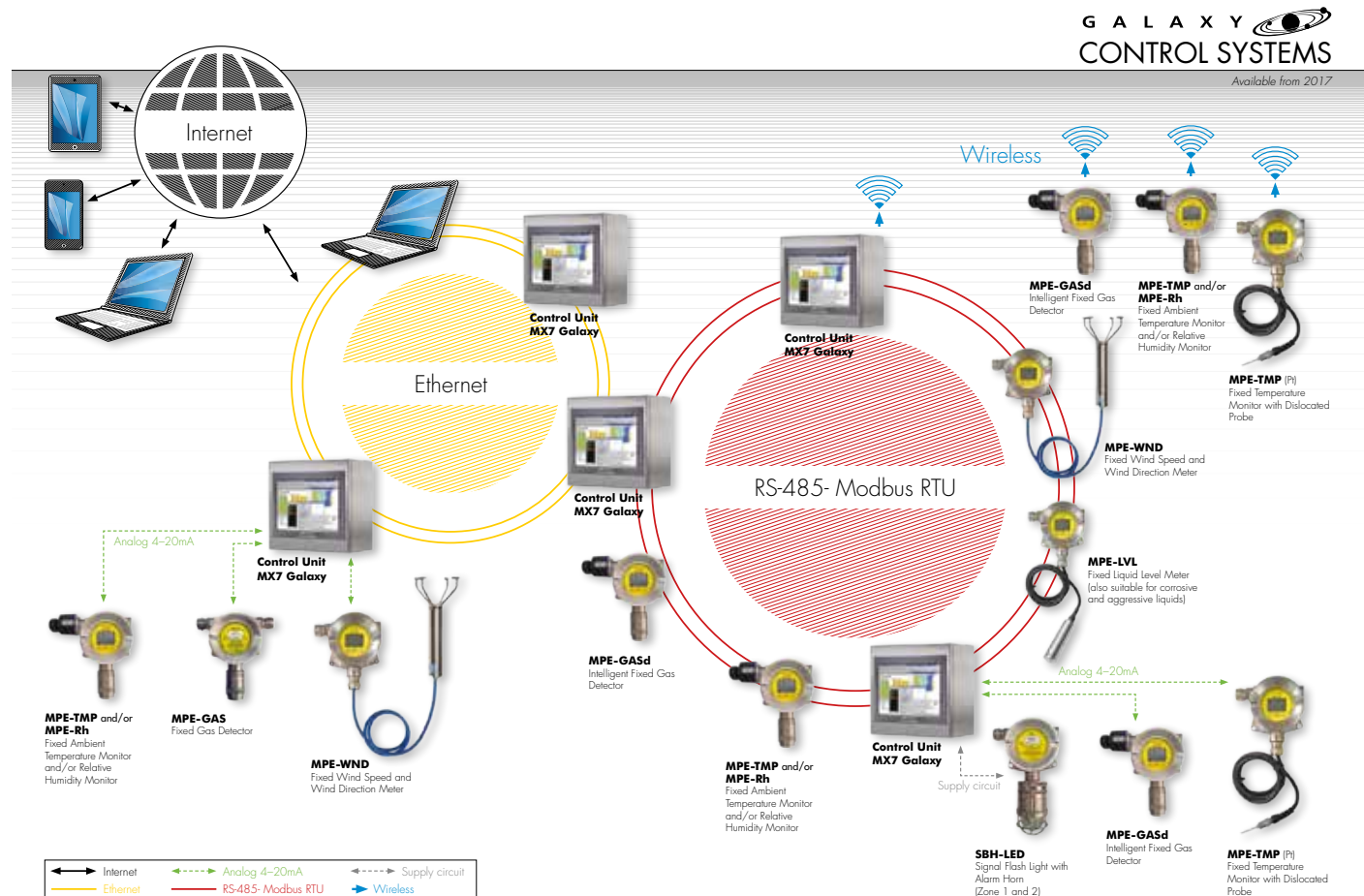
Tevel d. o. o.

GALAXY control systems

The GALAXY system is an upgrade of the traditional methods of measuring dangerous gases and alarm systems. It does not merely measure, but primarily prevents danger to people and property, which is the primary purpose of measuring in the first place. Integration and modularity power the rapid development and advancement of the industry, because it is easy to connect to the existing system with the desired additional sensors, without having to purchase a complete system. Modularity allows for lower costs of development and production, since the central unit is the same for all users. The system is built in an anti-explosive protective housing.

Inovatorja:

Dejan Vincek, Matjaž Javoršek



GALAXY 
CONTROL SYSTEMS

Available from 2017

Company:
Tevel d. o. o.
Borovniško naselje 7
SI-1412 Kisovec
E: info@tevel.si
www.tevel.si

SILVER AWARD

Willy Stadler d. o. o.

Delabeler

The Delabeler is a component within the line for the mechanical treatment of PET bottles. Its task is to remove labels from PET bottles.

The material moves from the incoming line from the upper side into the machine where it comes into contact with the rotating part. Here the process of delabeling occurs with special blades on the rotating part of the machine and housing.

The bottles and removed labels move through the outlet opening at the bottom over the conveyor belt and are then further processed.

Our advantages are higher greater capacity, fewer standstills, and easier cleaning and maintenance.

Innovator:
Rok Mežič

Company:
Willy Stadler d. o. o.
Velika Vas 62 a
SI-8273 Leskovec
E: post@
willystadler.si
willystadler.si



SILVER AWARD

3 PORT d. o. o.

SMIP IoT platform

The SMIP ("Smart Information Platform") IoT platform is a unique, safe, and scalable solution for the agile delivery of specific IoT applications. It introduces newer and smarter ways of bringing value through new business models, business services, and process improvements. SMIP supports and integrates devices, services, and users for a range of domains such as smart products, industry, smart cities, and agrobusiness.

Innovators:

Mitja Krebelj, Uroš Marušič, Damjan Šavko, Patrik Vinovrški, Andrej Krota, Boris Legac, Marjan Marušič

Company:

3 PORT d. o. o.
Vojkovo nabrežje 30 a
SI-6000 Koper
E: mail@3-port.si
www.3-port.si



SPECIAL AWARD FOR THE POTENTIAL INNOVATION OF THE CIRCULAR ECONOMY

Kemijski Inštitut

New, green way to produce nanocellulose

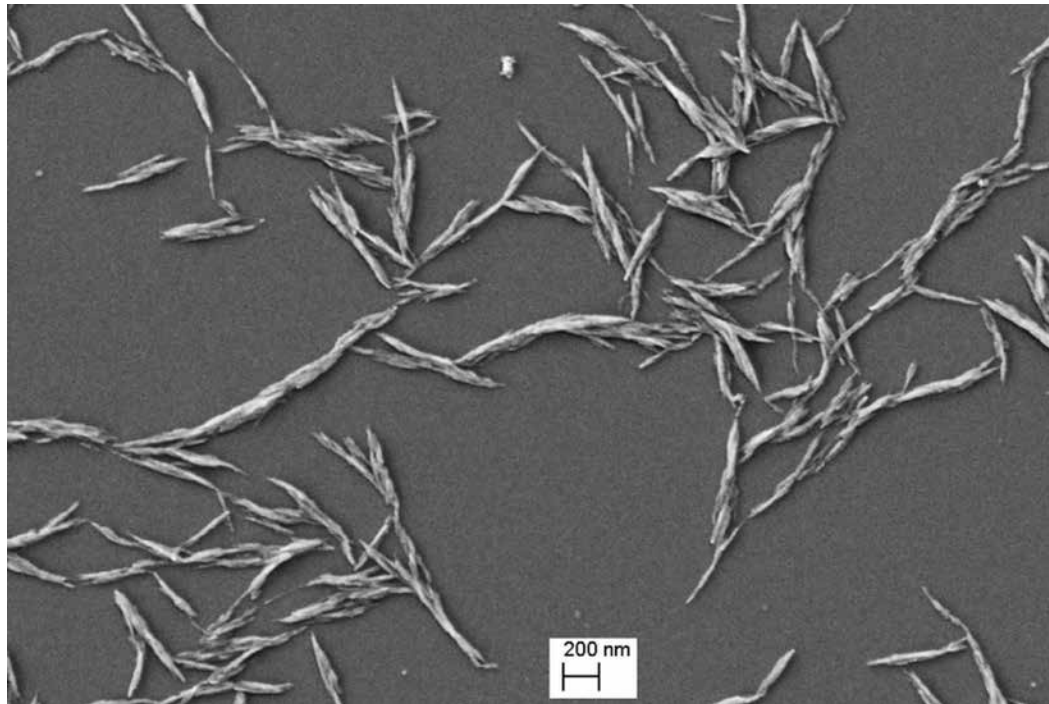
The National Institute of Chemistry has developed a new, innovative, and simplified process for obtaining nanocellulose. The two processes currently in use are hydrolysis with 60% sulphuric acid or mechanical grinding, both of which are energy-intensive and harmful to the environment. Our process uses renewable resources and consumes significantly less energy. Nanocellulose is biodegradable and has exceptional mechanical properties, with applications as a reinforcement in polymeric composites, in the paper and coating industry, as well as for drug delivery. Our process enables the production of nanocellulose for at least a fifth of the price of currently used procedures.

Innovators:

izr. prof. dr. Matjaž Kunaver, mag. Frenk Kovač, dr. Nataša Čuk

Organisation:

Kemijski Inštitut
Hajdrihova 19
Si-1000 Ljubljana
E: glavna.pisarna@ki.si
www.ki.si



SPECIAL AWARD FOR THE POTENTIAL INNOVATION OF THE CIRCULAR ECONOMY

Kemijski Inštitut

Smart way of precious metals recycling

The new recycling process for precious metals is economically and ecologically substantially better than the technologies currently in use. The National Institute of Chemistry addresses the efficient processing of hazardous waste. The new process leads to significantly lower prices of precious metals than the one on the market. The key environmental advantages of the recycling process are a hundred-fold lower acidity levels, room temperature operation, and no releases of toxic by-products into the environment. The process itself is completely electrified, which allows all the energy necessary for the recovery of waste to be obtained from wind and solar power plants, thus ensuring a complete circular economy.

Innovator:

dr. Nejc Hodnik

Organisation:

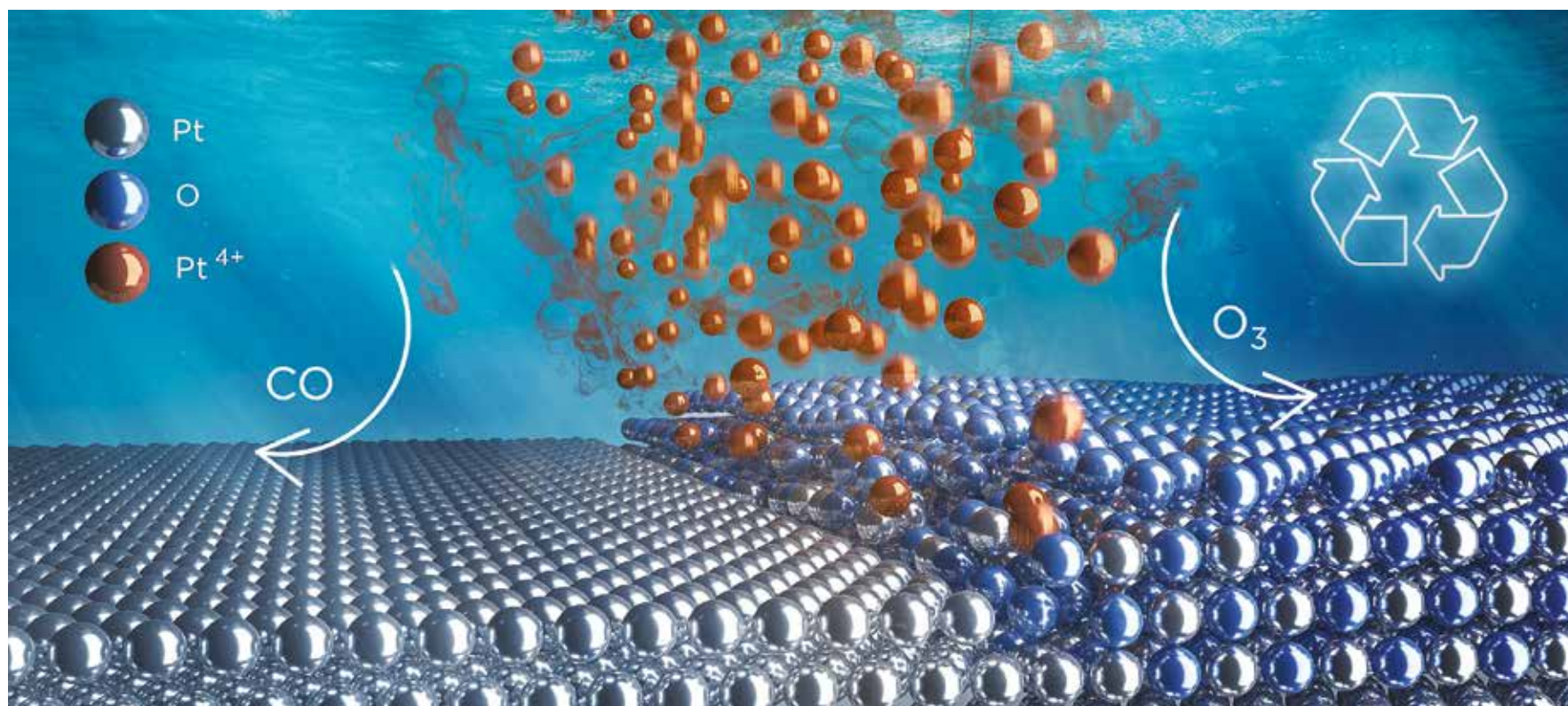
Kemijski Inštitut

Hajdrihova 19

Si-1000 Ljubljana

E: glavna.pisarna@ki.si

www.ki.si



SPECIAL AWARD FOR THE POTENTIAL INNOVATION OF THE CIRCULAR ECONOMY

Talum Tovarna aluminija d. d., Kidričevo

Eco green Alu Can

The packaging market demands a sustainable packaging material with a low carbon footprint. Aluminium, with its great recyclability, offers the perfect answer to this market demand.

Talum's innovation makes it possible to recycle and re-use aluminium scrap (aluminium collapsible tubes, aerosol cans, etc.) for the production of aluminium slugs – the raw material used to produce tubes and cans. Talum's unique procedure closes the recycling loop and, consequently, makes Talum aluminium aerosol cans and tubes much more eco-friendly.

Innovators:

Boris Šegula, Simon Strmšek,
mag. Gregor Zečevič

Company:

Talum Tovarna aluminija d. d., Kidričevo

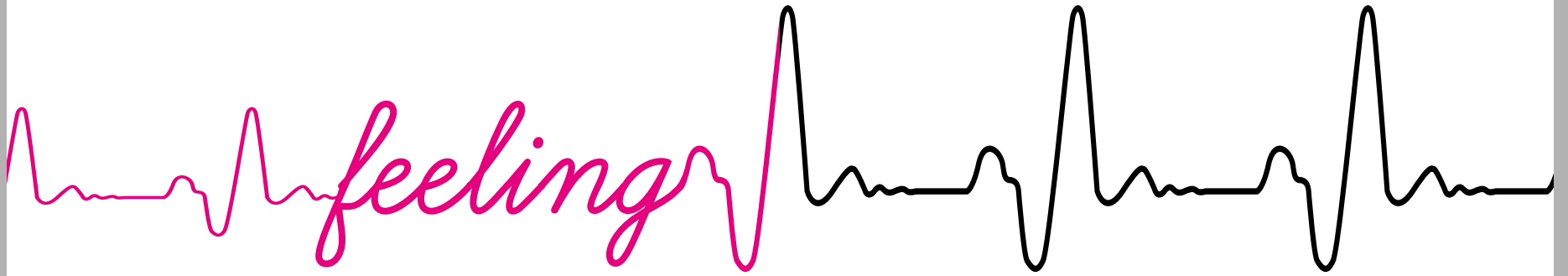
Tovarniška cesta 10

SI-2325 Kidričevo

E: guest@talum.si

www.talum.si





We congratulate all innovation award winners





Innovation promotion and support programme

The Chamber of Commerce and Industry of Slovenia (CCIS) developed the Innovative Slovenia Programme to promote as well as nurture and support the entire process of innovation – from conception to implementation. Through a variety of activities we aim to foster the spirit of innovation in Slovenia, and thereby contribute to success in foreign markets.

The Innovative Slovenia Programme encompasses the following activities:

- **INFORMING** on topics relevant to an enterprise's performance and development is an ongoing activity of the CCIS.
- **PROMOTION** of innovations and innovative companies through modern communication channels.
- **TRAINING COURSES**. The CCIS organises some ten training courses for business annually, and these provide participants with a broad range of skills and knowledge, from strictly specialised to general. The lecturers are eminent professionals from Slovenia and abroad.
- **CONFERENCES** focused on delivering enterprises information on emerging and future technologies and, in order to promote development collaboration, the engagement of enterprise with companies and organisations in Slovenia and abroad.
- **CONNECTING** various publics in order that they may exchange information, experience and best practice, is one of the key roles of the CCIS. As a meeting point the CCIS connects Slovenian enterprises with research institutions and other companies both locally and internationally.
- **INTERNATIONALISATION** of development, initiating delegations and facilitating meetings aimed at the promotion of collaboration and the initiation of common development projects.
- **COUNSELLING AND MENTORSHIP**, providing companies advice and assistance in various fields and areas pertaining to innovation.
- **PROMOTING YOUTH** and developing the creative and innovative potentials of young people – start-up weekends, support to students in the development of innovative food products (the EU's Ecotrophelia competition) as well as collaboration with the Start:up Slovenia initiative.
- **AWARDING INNOVATIVITY**. The CCIS has the country's longest tradition in awarding innovation.

Chamber of Commerce and Industry of Slovenia Innovation Awards

The CCIS Innovation Awards have a long tradition, and this year we celebrate the 22nd edition. New innovative and improved products and production technologies are awarded, as are innovations pertaining to organisation, service provision and marketing.

Selection of the CCIS Innovation Award winners is a two-step process. Firstly, the regional chambers invite entries from local innovators, and their projects and innovations are assessed according to a set of criteria which are applied both regionally and thence nationally. All innovations that meet the application criteria are considered, whilst the best within the individual competitions receive gold, silver and bronze awards.

The outstanding innovations from Slovenia's thirteen regions are then considered and judged in the context of a national competition for the country's best innovation, at which it is far from easy to attain a golden award. All entries must meet three main criteria pertaining to originality, viability and contribution to the clean environment as well as eight sub-criteria.

The innovation:

- has to be original, new or significantly better from that which is currently available on the market.
- must be attributable and, accordingly, adequately protected (e.g. under a patent, brand, trademark or secret know-how).
- should be commercially viable and thus capable of enjoying market success (i.e. recognised by customers, consumers or users).
- should have a wider non-financial influence (on social environment: the innovation brings benefits to the society, non-financial benefits of innovation for the company).
- promotes or upgrades the innovation culture in the participating organisation and makes a positive economic or social contribution locally, regionally, nationally or internationally.
- is a positive development in the context of environmental issues.

Thanks to all regional chambers
for your outstanding contribution
to promote Slovenian innovation.



Območna zbornica Koroška



Območna zbornica Posavje,
Krško



Območna zbornica Postojna



Območna zbornica
za Gorenjsko, Kranj



Območna zbornica Zasavje,
Zagorje ob Savi



Severno Primorska
gospodarska zbornica,
Nova Gorica



Zbornica
osrednjeslovenske regije



GOSPODARSKA ZBORNICA
DOLENJSKE IN BELE KRAJINE



pomurska gospodarska zbornica



PRIMORSKA
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ZBORNICA
Chamber of Commerce
and Industry of Primorska



regionalna gospodarska zbornica celje
del sistema Gospodarske zbornice Slovenije



SIVINJSKO-SALEŠKA GOSPODARSKA ZBORNICA



ŠTAJERSKA
GOSPODARSKA
ZBORNICA

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REPUBLIC OF SLOVENIA
**MINISTRY OF ECONOMIC DEVELOPMENT
AND TECHNOLOGY**

**SPIRIT
SLOVENIJA**

PUBLIC AGENCY OF THE
REPUBLIC OF SLOVENIA



Slovenian National Innovation Awards 2018

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Ljubljana, september 2018

Gospodarska
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Slovenije



Chamber of Commerce
and Industry of Slovenia