

# 2019

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**EXHIBITION  
OF SLOVENIAN  
INDUSTRY  
OF SMART  
BUILDINGS AND  
HOMES,  
INCLUDING  
WOOD CHAIN**





“... innovative products, services, enterprises and research organisations which business and development are related to the topics of smart buildings and homes, including wood chain.”

#### **FUTURE LIVING EXHIBITION**

The FUTURE LIVING exhibition represents innovative products, services, enterprises and research organisations which business and development are related to the topics of smart buildings and homes, including wood chain. Exhibition winds through several floors of Chamber of Commerce and Industry of Slovenia in Ljubljana and is organised as an interactive showroom.

FUTURE LIVING exhibition, which is opened from 11th February until 12th April 2019 is the second exhibition organised under the uniform FUTURE trademark. All FUTURE exhibitions and belonging conferences are organised in partnership with different Strategic Research and Innovation Partnerships (SRIP). FUTURE LIVING is organised in partnership with SRIP Smart buildings and homes, including wood chain.

The FUTURE LIVING exhibition, as well as the first exhibition – FUTURE MOBILITY, offers exhibitors the chance to meet business partners and specially organised foreign delegations, and to promote their innovations to potential suppliers as well as customers. The exhibition space is supported by all the necessary modern facilities and technologies including Augmented Reality (AR), which can be experienced at specific exhibitors.

We are trying to ensure, that not only FUTURE LIVING exhibition, but also all previous and following FUTURE exhibitions will circle the globe through receptions at Slovenian embassies abroad and beyond, therefore opening doors to new markets for Slovenian companies.

# B/S/H/ home connect

Welcome to Home Connect and to a whole new way of life.

With Home Connect app, you can control your home appliances easily. This app gives you access to all the relevant information at any time.

It can not only switch your appliances on and off, it can also select programs, adjust timers and much more.

Make your household more efficient and safer.





ENGINEERING  
TOMORROW

Danfoss Smart Heating - Danfoss Eco™  
The easy way to smart radiator heating

Danfoss Eco™ gives you complete in-home control of your radiator heating.

- Programmable comfort to fit your daily schedule
- Control individual radiators via Bluetooth technology with Danfoss Eco™ App
- Manual thermostat adjustment with turn-wheel and Plug-and-play solution for easy replacement and immediate Smart Heating

Up to 30 % energy savings and more good reasons to choose Danfoss Eco™



reddot award 2018  
winner interface design





# gorenje

*Life Simplified*

In the awareness that we are heading towards a fully mobile, intelligent, and connected society, Gorenje strives to enable the wisdom and insight needed to live in such a world. We are dedicated to developing connective solutions facilitating a simpler and more meaningful life. ConnectLife is Gorenje's platform for connecting people, appliances, and services. See our story of smart living presented at the CES fair in Las Vegas this January.

Get to know one of our products that you can connect to wherever you are, our Gorenje ConnectLife washing machine. #soon :)





## Force detection floor

Sensing human activity often relies on worn sensors which are prone to user interference and require on-site support.

Solutions not relying on wearable devices usually include cameras that have a psychological impact on occupants and raise privacy concerns.

To overcome these issues we designed a network of force resistor sensors deployed under the finishing layer of a floor. Due to the high availability and low cost, we identify the following use-cases:

- Detection of accidental falls,
- Building usage tracking (used for optimization),
- Building occupants tracking.



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# M SORA70

let tradicije in inovativnosti

The M SORA of today is a modern company based on continuous intertwining of tradition and innovation, knowledge and experience. The company constantly pursues research, tests new materials and discovers new horizons. That's why our windows can stand the test of time.

M SORA windows are recognized as excellent products used with the same amount of trust by builders of individual houses and by architects of larger office buildings. The Ziri larch, pine and beech adorn windows across Europe and even in faraway Japan.

**Height: 5 m**  
**Weight: 750 kg**  
**Max wind load: 150 km/h**  
according to EN 1991-1-4  
**Max deflection < 16,6 mm**  
according to SIST EN 122211  
**Patent pending**





## CONSTRUCTION EXPERTS OF THE NEXT GENERATION

The times we live in require constant adaptation to changes. These challenges are addressed by modern prefabricated modular construction. Our company plays an important role in the production of prefabricated modular buildings in Slovenia as well as Europe and elsewhere in the world. Our modular solutions are distinguished by advanced technologies, a project-based approach and personalized treatment of customers' needs. We are focusing on the production of high-

performance prefab modular buildings; therefore, we are developing energy-efficient, eco-friendly and user-friendly solutions with a group of experts that correspond with modern spatial needs. We are committed to the quality and elaborate design of our products.

We have developed modern and efficient solutions in the production of prefabricated modular buildings and living containers. Employing our own highly qualified experts, we continue to develop new product lines and constantly strive to increase the quality and perfection of our products.







#### MAIN BENEFITS

- Up to 30% reduction of energy and maintenance expenses
- Better process and hazard management
- Improved efficiency and ambient conditions
- Safe and secure environment
- Nondestructive retrofit for heritage buildings

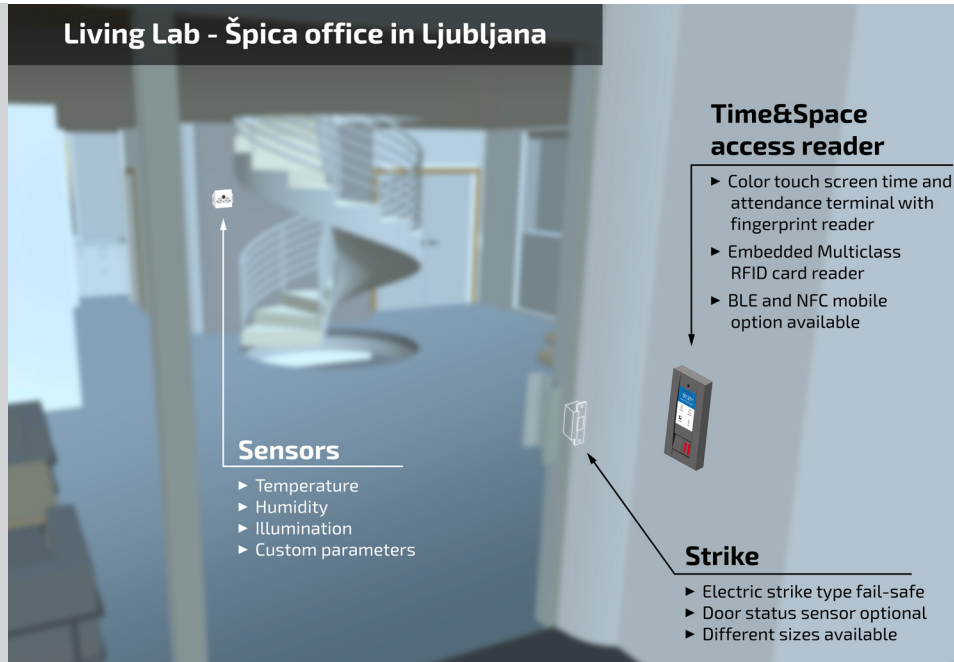




Digital Twins - design and construction of facilities in the future

In the scope of Living Lab project currently running in Špica International we are developing a digital component library for BIM tools. It will enable architects and engineers to select Špica sensors, scanners, terminals and electrical locks, place them in architectural design, and thus ensure the correct position of components according to their specifications and building requirements. This will happen even before construction works will actually begin. In this way, they will build a virtual replica or digital twin of a building, which will consist of elements that correspond to a real object.

## Living Lab - Špica office in Ljubljana



As a coordinator of Strategic Research and Innovation Partnership Smart Buildings and Home including Wood Chain we support our members in the development of comprehensive solutions of healthy, environmentally and user-friendly, interconnected and energy-efficient living and working environment of the future.

TECES as the holder of key strategic development partnerships brings together leading Slovenian stakeholders in fields of the electronic and electrical industry, energy, as well as providers and users of energy-efficient solutions.





NEO, the platform for smart living by Telekom Slovenije, brings users the world of unlimited connectivity for comfortable everyday living. It gives its users the chance to use Slovenian voice commands to manage content that they can watch on TV and other screens, as well as control smart home devices from one spot. It enables simple search through TV channels, live content, content in video libraries and apps, while it also allows users to control their smart devices and shop online using their TV screen, and will be soon adding the option for playing increasingly popular video games without a gaming console.

The logo for the Neo platform, featuring the word "Neo" in a large, stylized, blue and white font.

Novi svet

[www.neo.io](http://www.neo.io)



TelekomSlovenije





Univerza v Ljubljani  
*Biotehniška* fakulteta



University of Ljubljana, Biotechnical Faculty, has a seventy-year tradition in the field of forestry wood production chain. In the field of Wood Science and Technology, the Biotechnical Faculty is especially strong in the field of development and testing of wood-based materials. In the last period BF have developed and commercialized the following solutions:

- Biocidal protection for wood based on copper compounds
- Thermal modification of wood in intact vacuum
- Protection of wood with aqueous emulsion of waxes.

Development work at the Biotechnical Faculty, do not only takes place on the development of materials, but also on the development of software solutions. In the recent period, BF researchers are particularly active in the field of solutions for service life prediction that can be implemented in Building Information Modelling (BIM).



The background of the slide features a pattern of overlapping squares and rectangles in various shades of gray, creating a sense of depth and architectural structure. The squares are arranged in a way that some appear to be floating above others, giving a three-dimensional effect.

**ZAG**

**ZAVOD ZA  
GRADBENIŠTVO  
SLOVENIJE**

SLOVENIAN  
NATIONAL BUILDING  
AND CIVIL ENGINEERING  
INSTITUTE

## The Highest Standards in Construction

- materials
- building physics
- structures
- geotechnics and traffic infrastructure
- metrology
- certification
- technical assessments and approvals

## Organized by



Chamber of Commerce  
and Industry of Slovenia

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## Partners



REPUBLIC OF SLOVENIA  
MINISTRY OF FOREIGN AFFAIRS



REPUBLIC OF SLOVENIA  
MINISTRY OF ECONOMIC DEVELOPMENT  
AND TECHNOLOGY

Future Living conference is a part of  
**EU Cluster Weeks 2018-2019.**



# THE MISSION OF THE “FUTURE” TRADEMARK

The Chamber of Commerce and Industry of Slovenia (GZS) has been transformed into a state-of-the-art exhibition space in 2018 for the first time. With an aim of further boosting the promotion of Slovenian companies and innovativeness, we have developed the 'FUTURE' trademark under which a series of thematically different exhibitions will be grouped according to the content of individual SRIPs.

The second exhibition, dedicated to the pulse of the future, is on smart buildings and homes, including wood chain. In order to exploit the potential solutions provided by the Slovenian enterprises and research organisations we have partnered with the SRIP Smart buildings and homes, including wood chain, Ministry of Foreign Affairs, Ministry of Economic Development and Technology and SPIRIT Slovenia to develop a fresh approach to presenting stories of innovation in Slovenia.



## Augmented reality experience

1. Download app GZS Future



2. Point your smartphone to the icon

3. Enjoy AR experience

