



PRESS RELEASE

SPEL and Paradox Engineering to collaborate for next-generation Smart Mobility and Smart City infrastructures

Innovative Smart Parking project just completed in Kolin, Czech Republic

Kolin and Novazzano, October 5th 2016 – Czech engineering company SPEL Inc. and Swiss technology company Paradox Engineering SA are collaborating to design and implement next-generation solutions for Smart Mobility and Smart Cities, pooling respective competences and expertise in industrial and urban services automation. First achievement of this cooperation is the innovative Smart Parking project just completed in Kolin, Czech Republic.

With about 25 years of history in industrial automation, SPEL is among leaders in traffic telematics with a number of applications for traffic, road tunnels and highways control in the Czech Republic. Paradox Engineering designs and markets technologies to unlock the value of data for Internet of Things ready infrastructures for industrial and urban environments. Leveraging SPEL's systems and software, and Paradox Engineering's PE.AMI platform for wireless smart urban networks, the two partners are hitting the European market with compelling solutions to manage traffic, parking and city mobility, as well as other critical services such as street lighting, public WiFi, video surveillance, emergency services, and many more.

Adhering to the Internet of Things paradigm, PE.AMI allows municipalities and utilities to add intelligence to urban objects (ie. meters, light poles, parking spots, etc.) and connect them into a citywide network. Thanks to SPEL's solutions, data generated by field devices and collected through PE.AMI nodes and gateways become actionable knowledge, thus enabling a smarter management of key Smart Mobility and Smart City applications.

“Data availability and correlation is fundamental for any municipality or utility willing to improve services for people and local businesses. Integrating our PE.AMI platform with SPEL's advanced systems, we'll be able to provide future proof Smart Mobility and Smart City solutions to grow livability, sustainability and economy of present communities, also supporting urban innovation in a genuine Internet of Things spirit”, stated Gianni Minetti, President and CEO, Paradox Engineering SA.

Improving driving and parking experience in Kolin, Czech Republic

SPEL and Paradox Engineering have recently completed an innovative Smart Parking project in Kolin, Czech Republic. With a population of more than 30 thousand people and a notable historical heritage, the town of Kolin aimed at improving urban mobility by facilitating parking search and making a more efficient use of available parking facilities. SPEL offered the community an integrated Smart Parking solution based on Tinynode's technology. Tinynode is a Paradox Engineering's company specializing in wireless vehicle detection systems for parking-related applications.

“Integrating Tinynode's parking technology, vehicle detection sensors and safe wireless network with an open communication protocol, we enabled a quick and secure architecture to feed the information system of the City”, stated Jiri Svoboda, CEO, SPEL Inc.

About 60 parking spots in the historical city center have been equipped with Tinynode's B4-L sensors to detect car occupancy. Designed to be set into the road surface, these products fit Kolin's peculiar environmental conditions since granting a low impact on street furniture and high resistance to harsh weather conditions and mechanical constraints, ie. street and high pressure cleaning, soft-blade snow ploughing, etc.

Connected into a PE.AMI wireless mesh network, B4-L sensors allow to collect data about parking spaces and elaborate them through an exclusive parking management software, which SPEL implemented for this specific project. SPEL also developed a web portal (available at www.smart4city.cz) and a mobile app for iOS and Android devices to offer drivers the opportunity to check parking availability in real time, reserve a spot and – coming soon – pay parking services from the smartphone.

Thanks to this Smart Parking solution, Kolin's municipality is improving driving and parking experience in town, thus making it more attractive to residents and visitors. Future developments might also be considered, as the platform is open to host other parking-related services, ie. collaborating with local businesses which want to offer spots to their own customers, and even host other urban services over the same network.

About SPEL Inc.

SPEL Inc. based Kolin, Czech Republic is an engineering company focused on traffic telematics and industrial automation. SPEL Inc. has 25 years of history in industrial automation associated with the close cooperation with the company Rockwell Automation. The company has implemented many of major projects in the energy, environmental projects, control of machines and technological processes.

SPEL Inc. is one of the leaders in the traffic telematics in the Czech Republic with many applications in control of road tunnels and smart highways. Established in 1990 and headquartered in the Czech Republic, the company is family owned. In addition to traditional activities like traffic telematics and industrial control systems is focusing on development of applications for smart cities and the Internet of Things (IoT).

More information is available at www.spel.cz

About Paradox Engineering SA

Paradox Engineering SA is a technology company that designs and markets solutions and services to unlock the value of data for smart industrial and urban networks in the Internet of Things (IoT) age. Unique competences in radio design, network design and management, low power consumption and data collection at the heart of Paradox Engineering's

technological leadership. The Company conceives and provides open standard wireless sensor network solutions for smart environments, global virtual networks and OEM versions of its core network technologies.

Established in 2005 and headquartered in Switzerland, the Company is part of the Japanese Group Minebea Co. Ltd., the world's leading comprehensive manufacturer of high-precision components, which acquired full capital and assets of Paradox Engineering SA in July 2015. Minebea is capitalizing on Paradox Engineering's vision, know-how and technologies to accelerate the success of the Group in the IoT and Smart markets, develop cutting edge technologies and transform Minebea's products to be full IoT ready.

More information is available at www.pdxeng.ch and www.pe-stone.com

Press contacts:

SPEL Inc.

Ing. Jiří Svoboda CSc., ph. +420 321 579 048, e-mail: svoboda@spel.cz

Paradox Engineering SA

Silvia Vergani, ph. +41 91 233 01 00, e-mail: svergani@pdxeng.ch