



## SMART CITIES: PARADOX ENGINEERING AND TINYNODE ARE NOW PART OF THE SAME ECOSYSTEM

### ASSETS TO BE INTEGRATED TO BOOST SOLUTIONS FOR A SMARTER URBAN MOBILITY

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**Novazzano, May 11th 2015 – The Swiss technology company Paradox Engineering SA and Tinynode SA, the business created in 2012 as a spin-off of Shockfish SA and specialized in wireless vehicle detection systems, are now part of the same group. The holding group being already the majority shareholder of Paradox Engineering SA has announced the acquisition of Tinynode SA to create synergies in an extended Smart City ecosystem.**

**The ecosystem enlargement is an important step of Paradox Engineering's growth strategy and reinforces its positioning as unique enabler of any kind of smart environment through compelling solutions for the Internet of Things era. Within this widened Smart City ecosystem, Tinynode will have the opportunity to further grow and leverage robust competences, technologies and market presence.**

"The spark for a smarter world can be lighted by using smart technologies to connect, control and manage the multitude of objects which are disseminated in our cities, therefore creating smart environments for today and tomorrow", states Gianni Minetti, President and CEO, Paradox Engineering SA. "About one year ago we announced the availability of PE.AMI Parking Management solution, our off the shelf vertical application for managing parking in a smarter way. Thanks to the company proximity with Tinynode, we are now able to fast-track the development of sound urban mobility platforms and accelerate the adoption of future proof network infrastructures for any kind of smart service based on the Internet of Things".

"Tinynode aims at helping to create a smarter, safer, easier and more comfortable driving world, and we keep pushing to improve performance of our systems for vehicle detection", adds Pierre Metrailler, CEO, Shockfish SA. "We have been partnering with the best experts in signal processing, wireless and low power communication, and are now delighted to recognize in Paradox Engineering the unique competencies and synergies that are needed to boost Tinynode products and business development strategy, with the possibility to address new smart markets on a potential global scale".

#### **From Smart Parking to Smart Cities**

As cities continue to develop and have an increasing need for energy and services to satisfy emerging urban needs, smart technologies can help municipalities better manage key resources and improve liveability, sustainability and local economy. Intelligent urban mobility and transportation services are as important for the well-being of people and communities as energy and water distribution, lighting management or waste collection. Independent studies highlighted that people spend up to 60% of their driving time randomly looking for a parking space: through the Internet of Things paradigm, it is nowadays possible to add intelligence to vehicles and parking lots to save time, limit air pollution, and ensure better quality of everyday life.



By combining Tinynode's high performance detection systems for parking-related applications with Paradox Engineering's PE.AMI smart urban network platform, municipalities will have the opportunity to develop an integrated hardware and software network communication infrastructure to manage and control a number of smart urban services, including seamless parking and mobility management.

PE.AMI is Paradox Engineering hybrid wireless/PLC mesh network multi-application platform, supporting multiple vertical services (from smart lighting to smart metering, from parking management to solid waste management, and many more) through a unique interoperable and highly scalable IPv6/6LoWPAN infrastructure, which really helps cities achieve their own goals in terms of greater liveability, improved environmental sustainability and public security, while at the same time supporting local economy. Based on open standards, PE.AMI does not impose any technological constraint, thus it enhances any kind of existing infrastructure safeguarding present and future investments.

Tinynode's wireless parking sensors will further enrich PE.AMI Smart City smart urban network solution and open the way to design and engineer innovative urban mobility applications. Tinynode's products rely on a patented, lowest-power, multi-hop, self-configuring radio communication protocol, offering a detection reliability above 98% and a radio communication availability above 99%, also granting up to 10 years battery life, low-tech installation and management.

Under the agreement signed on April 30th 2015, 100% of all capital and assets of Tinynode SA has been transferred from Shockfish SA to the holding group being already the majority shareholder of Paradox Engineering SA. Financial terms of the deal are not being disclosed.

Tinynode will maintain its commercial brand and headquarters in Lausanne, Switzerland, granting full support to current clients and projects. Former Tinynode CEO Pierre Castella will remain as external advisor to Tinynode and President Roger Meier will remain as consultant to the company, while Martin Zoller will continue as CTO playing a key role and contribution to the development of Tinynode. New corporate governance and CEO will be announced in the coming weeks. Paradox Engineering and Tinynode will be jointly working on smart initiatives throughout Europe, North America, Middle East and Asia to strengthen their presence in the Internet of Things markets.

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## 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 industrial remote and condition monitoring, smart projects (Smart Lighting, Smart Energy, Smart Water, Smart Waste, Smart Transportation, Smart Buildings, Smart Factories, etc.), M2M, HUMS and HAN applications in the Internet of Things era. The unique competences in radio design, network design and management, low power consumption and energy harvesting, and data collection are at the heart of Paradox Engineering's DNA. The Company conceives and provides open standard urban and industrial wireless sensor network solutions, global virtual networks and OEM versions of its core network technologies, to companies and developers.

Established in 2005 and headquartered in Switzerland, in 2013 the Company welcomed the Japanese corporation Minebea Co. Ltd. as strategic capital partner and acquired the Italian electronic design center Syllogism System S.r.l. Paradox Engineering acts on a truly global scale, supported by branch offices in San Francisco (USA),



Singapore, Kuala Lumpur (Malaysia) and Catania (Italy) with business and projects spanning over five continents and a consolidated network of global partners.

For more information, please visit [www.pdxeng.ch](http://www.pdxeng.ch) and [www.pe-stone.com](http://www.pe-stone.com)

### About Tinynode

Tinynode provides high-accuracy outdoor vehicle detection systems for outdoor parking, based on purpose-built, lowest-power electronics and a multi-hop, self-configuring, self-healing mesh, patented radio protocol.

Tinynode SA was created in 2012 as a spin-off of Shockfish SA. In the early 2000's Shockfish had built strong expertise in low power electronics and radio protocols by developing a device used in event management (SpotMe). Based on this experience, Shockfish began working on wireless vehicle detection in 2004, starting with a European research project on developing smarter highways. Eight years later, the business unit has been transformed into a subsidiary, Tinynode SA.

Tinynode's mission is to design and sell wireless vehicle detection systems. Tinynode aims to help to create a smarter, safer, easier and more comfortable driving world. Tinynode's products are reliable, high-performing, cost-effective and long-lasting, and they easily integrate with other technologies.

For more information, please visit [www.tinynode.com](http://www.tinynode.com)

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