



Cre8tec Partners UnaBiz on IoT Solution to Revolutionise the Pest Management Industry

SINGAPORE, SINGAPORE, SINGAPORE, September 12, 2017 /EINPresswire.com/ -- CRE8TEC - Singapore's first integrated rodent risk management company partners with UnaBiz - Asia's first dedicated IoT network operator, to provide a smart solution to the \$22.4 billion global pest management industry.

Pest management companies have traditionally lagged in technology adoption and innovation. CRE8TEC's RATSENSE is an integrated infrared sensor-based system backed by data analytics, on-demand, as-a-service. By embracing Internet of Things (IoT) and cloud computing, the system uses infrared sensors as "electronic eyes" that monitor and capture real-time data on rodent movements 24/7. That data is then analysed to track, trend and map rodent movement and behaviour, providing building managers with insights and location-based information on rodent infestations. Intelligence from data analytics identifies movement pathways, breeding and harbourages of rodents, boosting the efficacy of traps and glue boards.

Public health concerns and reputational risks arising from rodent incidents adversely affect organisations globally. Rats and rat fleas can carry and transmit various diseases, with these diseases set to increase further with global climate change. This results in reputational risks which can be expensive.

"The last two years have seen the rise in rodent activity at a global level. Rats have adapted well to urban environments, multiplying quickly in poorly managed premises. RATSENSE will change how building owners globally perceive and mitigate rodent related risks," said CRE8TEC's Director Mrs Deanne Ong. "In the new sharing economy, the ability to analyse data on rodent behaviours will impact how rats are managed in our urban landscape. We are constantly evolving to meet the needs of businesses through sustainable and proactive innovations."

Presently, RATSENSE is connected to the cloud via cellular network or Wi-Fi. In areas without cellular or Wi-Fi coverage, transmitting data to the cloud would be impossible if not too costly, especially when the system needs to cover large or obscure areas. That is where UnaBiz has provided the answer. With Sigfox's Low-Power Wide-Area network, sensors can now collect and transmit data directly to the cloud. This allows for large scale deployment of devices immediately and effortlessly. With Sigfox, RATSENSE efficiently determines rodent behaviour cost-effectively, and also allows for an increase in sensor's battery life.

CRE8TEC and UnaBiz are keeping their eyes on the big prize. According to recent papers, the Global Pest Control market is projected to reach a value of USD 22.04 Billion by 2021.

With UnaBiz, RATSENSE can leverage on Sigfox's global network and distribute their integrated pest management system worldwide, wherever the Sigfox network is present. From devices to analytics to applications, RATSENSE will become a preventive maintenance game-changer.

"The future of Pest Management is Data, Data, Data! RATSENSE is the solution to subjective manual visual inspection. The captured data is hardwired and provides an objective response. Sigfox's low-

power wide-area network is the perfect fit for RATSENSE, evidently deployed as agriculture and environmental sensors for soil moisture monitoring, disease detection, and frost warning surveillance. Its proven effects on mitigating rising manpower costs make it a no-brainer for a network. As the enabler of massive IoT, UnaBiz will provide the backbone for RATSENSE in effective data collection, accumulating greater insights and streamlining of processes and resource utilization," said Jonathan, VP - Business Development, UnaBiz.

According to experts, the key to effective pest control is to identify the source and activity areas of the rats. Monitoring of the problem should be done continuously so that any recurrence of pests can be treated accordingly. However, physical monitoring of large buildings and areas is cost prohibitive, and it only provides a "snapshot" in time while inspectors are unlikely to note rodent activities at the time of inspection.

"This is where RATSENSE's 24/7 monitoring is critical. Risk mitigation tools need to be permanently in place as a proactive measure for early detection of rodent presence. CRE8TEC sees a huge potential in APAC as an emerging market with numerous and untapped regions, a new growth opportunity for market players. Driven by factors such as developing economies, urbanization and technological growth in agriculture, the potential for growth is significantly higher in the Asia-Pacific region," CRE8TEC's Director Mrs Deanne Ong said.

ABOUT UNABIZ

UnaBiz is an end-to-end Internet of Things (IoT) solutions company dedicated to accelerating the adoption of IoT worldwide.

For more information, see www.unabiz.com

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