

AccYouRate takes next step with its 'smart T-shirt' technology

Crown Energy majority owned company AccYouRate is now bringing into commercial production its groundbreaking smart T-shirt technology. This 'smart T-shirt' enables monitoring of the wearers' bio-signals and transmission of those to the cloud, where a comprehensive biomedical database is hosted. The patented and certified system employs sophisticated proprietary online algorithms to detect anomalies which can prevent and assess potential health risks before they occur, and provide lifesaving medical alerts and actionable recommendations.

BACKGROUND INFORMATION

In February 2023, Crown Energy entered into an agreement for the acquisition of 85% of the shares in SmarTee, the parent holding company of AccYouRate Group S.p.A. The shares were acquired from the owner, Mr. Claudio Fabri, who has been financing the company established in 2019 by Mr. Arnaldo Usai who still heads the business. The company today employs 20 people and operates from headquarters and production facilities in L'Aquila and Bologna. AccYouRate is now stepping up the commercial production of a 100% textile smart T-shirt—which enables continuous real-time monitoring of bio-vital body signals in normal living conditions and activities.

PRODUCT FUNCTIONALITY

"AccYouRate aims to help people proactively protect their health, and proactivity starts with knowledge," noted Dr. Amir Toren, Board Member and Executive Director at AccYouRate. "The 'smart T-shirt' allows users to gain a clear view of their well-being and health risks through the use of advanced data science technologies and AI driven algorithms. We are committed to continuing to revolutionize the wearable device industry by approaching additional market segments and by introducing additional wearables that are attractively designed, comfortable, easy to wear and truly functional. Our products will monitor an individual's vital body signs through proprietary algorithms, allowing the customers to gain insights via a user-friendly dashboard."

The 'smart T-shirt' is easy to wear for everyday activities, washable, made with organic fabric and includes a cotton-based connective thread. It will be capable of providing real-time online monitoring of seven vital signals: ECG (including heart rate), breathing frequency and depth, body temperature, accelerometer, GPS, and body position (enabling fall alerts), all without compromising user privacy.

THE TECHNOLOGY

AccYouRate's patented and certified technology blends e-textile technology and conductive polymeric sensors with AI, big data and a 5G based central unit. The biomedical signals are detected by the printed and invisible polymeric sensors, seamlessly embedded in the 'smart T-shirt's' fabric. The data is processed by a miniature, wearable control unit that records the data, which then sends it to a bi-directional platform. The platform transmits the data to the user via smartphone or smartwatch, and then to a remote unit that analyzes the data using dedicated, proprietary software and algorithms.

In case anomalies are detected, an alert signal will be triggered, followed by actionable recommendations. If the anomalies justify immediate intervention, it will be possible for emergency operators to intervene. The 'smart T-shirt' is connected to a proprietary AI-driven cloud-based software platform which securely collects, stores, and analyzes vast amounts of data, while protecting the privacy of the users and complying with GDPR requirements.

MARKET APPROACH

Initially, AccYouRate is focusing on the occupational medicine markets in Italy and other European countries, helping organizations protect the health, safety, and wellness of their

employees. The company is looking to partner with large-scale organizations, which will then be able to offer their employees the smart shirt and sophisticated health and safety services that accompany it.

The 'smart T-shirt' is CE marked (European health, safety, and environmental protection standards), and AccYouRate is in the process of applying for FDA (US Food and Drug Administration) approval. Its technology has been validated by major universities, such as Johns Hopkins University in the US, University of Bologna, and UniRoma4 University in Italy.

Further, the company's breakthrough in printing polymers on textile allows it to develop additional washable and reusable sensorized products, such as gloves, shoe insoles, headbands, and face-masks.

MORE INFORMATION

Please see go to the AccYouRate's website: www.accyourate.com to see the latest updates.

Contact person: Yoav Ben-Eli, CEO Crown Energy AB +46 76 312 9793

ABOUT CROWN ENERGY

Crown Energy is an international group with a history of providing customised solutions for housing, offices and associated services, as well as oil and gas exploration in Africa and the Middle East. The group is now dedicated to a strategy shift into a new and more socially and environmentally responsible business direction contributing to positive change, with a focus on the medical technology industry and on improving our green footprint. For more information, please visit www.crownenergy.se

More information

Please see go to the AccYouRate's website: www.accyourate.com to see the latest updates.

Contact person: Yoav Ben-Eli, CEO Crown Energy AB +46 76 312 9793

ABOUT CROWN ENERGY

Crown Energy is an international group with a history of providing customised solutions for housing, offices and associated services, as well as oil and gas exploration in Africa and the Middle East. The group is now dedicated to a strategy shift into a new and more socially and environmentally responsible business direction contributing to positive change, with a focus on the medical technology industry and on improving our green footprint. For more information, please visit www.crownenergy.se