Sensoneo and Sigfox partnered to introduce IoT solution automating waste logistics in manufacturing

- **Enabling "Just-in-Time" waste collection in production halls**
- **Automating route scheduling to minimize human tasks and drive efficiency**
- **Calculating the fastest routes on factory floor plans to collect only reported bins**

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[Sensoneo](), provider of enterprise-grade smart waste management solutions, has partnered with Sigfox Germany to introduce an end-to-end solution for monitoring indoor waste bins and optimizing waste collection. The solution includes Sigfox 0G based sensor button technology to identify full bins and Sensoneo's smart waste management system to collect all the data and calculate the most optimal routes. The Operator has full remote-control of the waste collection operation. Collection App for drivers navigates according to the factory floor plan and records feedback.

The solution designed for manufacturing accommodates both on-demand and scheduled requests. It accommodates different variables such as vehicle capacity, bin capacity, trash type, bin type and work schedule. The integration into existing IS is available via APIs. Sourcing data to 3rd party platforms is also possible. The solution fits well into lean production concepts. It promotes productivity through increased order and is 5S-compatible.

"*We are ready to deploy a project within a short time window. According to our experience, upon careful coordination, the deployment is as fast as 7 working days. A detailed database is created with all containers including waste types, capacities, bin location and the most accessible spot for collection. The platform then consolidates all data on bins, on customer's infrastructure and accommodates all the rules for route planning. The system's dashboard gives users quick access to all bins, planned, current and completed routes, as well as service verification and reported fill levels. This gives the Operator full control over the entire waste collection operation and allows him to manage it remotely via tablet or smartphone,*" explains Elena Sztochay, Director Solution Sales at Sigfox Germany.

"*The scope of our comprehensive smart waste management has expanded enormously since we developed the solution in 2014. Thanks to in-house development, we are flexible enough to meet specific requirements of different verticals – Smart Waste Management for Factories and its powerful route planning engine is just one example,*" explains Martin Basila, Founder and CEO of Sensoneo.

The Sensoneo platform incorporates even more sophisticated rules. For example: 'Empty container within 60 minutes of the request' or 'The driver can accept a new route upon completing all previous ones.', 'Waste types A and B can be collected at the same time, but type C must be collected separately'. These, and many other beneficial features, have convinced manufacturers in the automotive sector to implement the Sensoneo solution.

"*The cooperation with the project team was extremely professional and the project was executed exactly according to the approved project plan. Our new Factory Waste Management solution brings order and efficiency to our internal waste management. In addition to optimized collection routes, we receive valuable data that we need for strategic decisions regarding our waste management policy,*" said the logistics analyst of a leading US manufacturer in the automotive sector, which also operates two production facilities in Germany, confirming the valuable benefits of this 0G solution.

Organizing waste collection around actual fill levels in bins, and not assumptions, results in an estimated costs savings of 30% while maintaining or even improving the quality of service, or to be more precise, a reduction of waste collection-related costs.

About Sensoneo

Sensoneo is a global enterprise-grade smart waste management solution provider that enables cities and businesses to manage their waste efficiently, lower their environmental footprint and improve their quality of services. Through its unique smart waste management technology, Sensoneo is redefining the way waste is managed.

The solution combines in-house produced Smart Sensors that monitor waste in real-time with advanced tracking and monitoring equipment and sophisticated software providing digital transformation and data-driven decision making which results in transparent waste streams, optimization of waste collection routes, frequencies and vehicle loads and the introduction of incentive programs dedicated to decreasing waste production.

Sensoneo's smart waste management has attracted cities and businesses around the world, and the solution has been installed in more than 50 countries on 5 continents. The company is the winner of the 2018 Microsoft Awards in the category of Public Administration & Smart City, the winner of Proptech Startup Europe 2019 and the winner of the Innovation WorldCup Series of 2019 in the category of Smart Territories.

About Sigfox Germany

Sigfox Germany is a member of the HELIOT Group, the exclusive partner and operator of the global 0G IoT network for Germany, Switzerland, Austria and Liechtenstein. With the Sigfox 0G IoT technology, HELIOT offers a cross-border, seamless and user-friendly, cost-effective and energy-efficient LPWA network that is suitable for the vast majority of IoT applications.

Additionally, HELIOT gives its customers free access to the global Sigfox 0G IoT ecosystem with more than 750 sensors and analytic tools for the collection and evaluation of data. You can find more information at www.heliotgroup.com and www.sigfox.de

About Sigfox

Sigfox is the initiator of the 0G network and the world's leading IoT (Internet of Things) service provider. Its global network allows billions of devices to connect to the Internet in a straightforward way, while consuming as little energy as possible. Sigfox's unique

approach to device-to-cloud communications addresses the three greatest barriers to global IoT adoption: cost, energy consumption and global scalability.

Today, the network is available in 71+ countries and regions, with 1 billion people covered. It is ISO 9001 certified and surrounded by a large ecosystem of partners and IoT key players, Sigfox empowers companies to move their business model towards more digital services, in key areas such as Asset Tracking and Supply Chain. Founded in 2010 by Ludovic Le Moan and Christophe Fourtet, the company is headquartered in France and has offices in Madrid, Munich, Boston, Dallas, Dubai, Singapore, Sao Paulo and Tokyo.

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