Sensoneo implemented the software for the Hungarian Deposit Return System launched today.

Budapest – today Hungary joins 14 European countries to introduce the Deposit Return System (DRS) for single-use beverage packaging. [Sensoneo](#) implemented the DRS IT solution for the Hungarian DRS led by the central DRS system administrator MOHU (established by MOL Group).

End-to-end software for Deposit Return Systems

The Hungarian DRS uses a software solution from [Sensoneo](#), a technology company based in Slovakia. Sensoneo designed the end-to-end and ready-to-integrate software for DRS that is agnostic with any return vending machine. This unique software **integrates all stakeholders and gathers data from all sources within the process chain working as a backbone of the entire DRS system**. In addition to Hungary, Sensoneo has developed the IT solution for the largest centralized DRS in the World in Romania, and for DRS systems in [Slovakia](#), [Malta](#), and Ireland. The IT system for Slovak DRS was implemented in only 10 months, currently reaching 93% in recycling rates. Martin Basila, CEO and Co-Founder of Sensoneo: *"Sensoneo has extensive experience with integrating IT systems for Deposit Return Schemes, currently being the only DRS IT integrator worldwide that operates in five European countries. We are delighted that Hungary is on its way to tackling the waste problem and avoiding landfills. Consumers will be able to donate their deposits to charity which is a great initiative. It is an honour for us to play an important role in the success of the Hungarian Deposit Return System."*

The software includes modules for every activity involved in the preparation, operation, and reporting. The main modules of the system are represented by the web portal for producers and retailers, the packaging register, the collection points register, the ERP (enterprise resource planning) system, the reporting system, the document management system, interfaces with other systems (RVM, counting and sorting centers), and **mobile applications for both retailers and consumers**. The modules reflect specific requirements and needs and completely fulfill the obligations of each stakeholder. According to Peter Knaz, the Head of Sensoneo's DRS and Take-Back division: *"Our DRS IT solution is a perfect fit for large-scale deployment as it provides a one-stop shop platform for all stakeholders of the DRS system, fully integrated with ERP system, complex Business Intelligence and at the same time fulfilling all country-specific requirements.* **DRS IT system in Hungary** *well blends into the complex system infrastructure of MOHU and* **brings innovative elements for end users through the DRS mobile application that eliminates cash or voucher transactions in stores.** *I believe that the DRS is the right step for Hungary to increase the recollection of clean material streams and decrease waste pollution."*

How does the Hungarian Deposit Return System work?

Hungary introduces the Deposit Return System aiming to switch to the circular economy as soon as possible by increasing the supply of pure material streams and reducing the use of primary raw materials. **The aim is to recycle 90 percent of plastic and glass bottles and metal beverage cans within three years,** MOL stressed. The goal is to reduce landfills and illegal dumping and reduce the environmental burden. Consumers will pay the deposit of HUF 50 (€0.13) that applies to PET & glass

bottles, and aluminum cans from 1 deciliter to 3 liters. **Around 2000 return points across the whole country called "REpont"** will be provided by reverse vending machines in groceries with a sales area of more than 400 square meters and in municipalities with more than 1,000 inhabitants. The points of return will be centralized on both the MOHU website and the upcoming REpont app. Consumers will be able to choose the form of the return fee refund. The value of the returned bottles will be printed by the vending machine in the form of a voucher, that can be redeemed or exchanged for cash at the store. Moreover, with the help of the barcode reader built into the machine, the app will allow registered customers to identify themselves with their electronic customer code using their phones, and the return fee will be automatically credited to their bank account. **The return fee can also be donated to a charity** by selecting the option shown on the vending machine display.
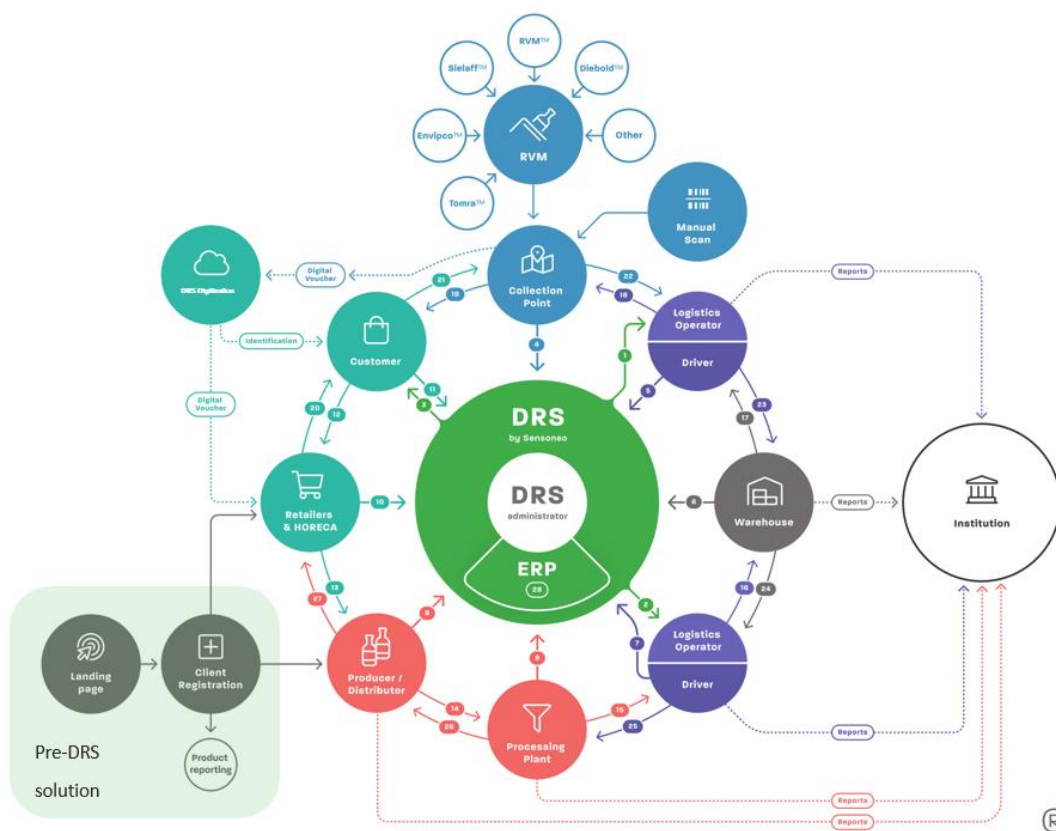

Figure 1: Full DRS Lifecycle, intellectual property of Sensoneo

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About Sensoneo:

Sensoneo is a global provider of innovative waste management solutions. By leveraging cutting-edge technology, including robust software and a data-driven approach, Sensoneo helps cities, businesses, and countries optimize waste collection processes, improve sustainability performance, and create more efficient and cleaner public spaces. With a comprehensive suite of software and hardware solutions, Sensoneo is at the forefront of revolutionizing waste management.

As a result, customers can achieve a 30-63% reduction in waste collection routes and 97% accuracy in actual waste production. Sensoneo's smart waste management solution has garnered attention from cities and businesses worldwide, with installations in over 85 countries across five continents.

Sensoneo holds the distinction of being the pioneering company to deploy a narrowband IoT solution in the United States. Smart sensors by Sensoneo are poised to contribute to the largest smart waste installation in Europe, comprising an impressive 11,100 sensors in Madrid.

![((SENSONEO))]

Additionally, Sensoneo stands as the sole company worldwide to successfully implement deposit return scheme (DRS) systems in more than five countries.

About MOL Group

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