THE Circular Economy Software
What is Circul8?

Circul8 is a cloud-based software suite for the Circular Economy which transforms complexity into simplicity – it is the industry-proven software solution encompassing multiple regulations and waste streams as well as supporting a wider range of stakeholders in the Circular Economy than any other product. Being deployed in 20 countries, across 4 continents, managing 8 million tons of waste and €2.7B of revenue – Circul8 is the industry leader.

It is built to manage every step in the process from individual producer responsibility (IPR) take-back to the final recycling of resources that can be fed back into the manufacturing process, closing the loop. Combining our customers’ decades of expertise in the field with our own experience in delivering high performance software, Circul8 orchestrates resources and processes – optimizing the business and providing valuable insights to management.

Why choose Circul8?

Circul8 generates a positive ROI by:
- Increasing Efficiency
- Increasing Control
- Reducing Cost per Transaction
- Increasing Compliance
- Reducing Risk

Collaboration

Circul8 provides an online, real-time portal, which is accessible to every user in the process, where they can perform tasks such as:

- Request a pick-up
- Resolve an issue
- Declare put-on-market data
- Confirm the execution of a pick-up order
- Upload and download documents
- Obtain traceability information
- Follow-up the audit process
- Request a quotation
- Review financial information (invoices, account payables and receivables, etc.)
- Validation or confirmation of processes
- Generate customized reports

Circul8 supports a wide range of functionalities, so that everyone can perform all kinds of operations in self-service mode. This improves communications between the system users, increases efficiency, and therefore reduces the operational cost per transaction.

Compliance

Circul8 is based on the following principles to achieve the highest levels of compliance:

Traceability: Circul8 manages the entire reverse chain, gathering together all waste movement and processing operations, following the waste route until it reaches its final destination;

Accountability: Using the self-service portal makes each user accountable for the data they submit;

Checkpoints: These reduce the risk of incorrect reporting and can be set by comparing reports from users (weight differences between collection, transport and destination) or container types, weight thresholds, historical discrepancies, etc.;

Evidence: The system captures all waste management documentation, such as weight tickets, shipment documents, certificates, geo-referenced photos of waste, etc. At recycling plants, connected devices take real-time pictures and videos to provide additional evidence of compliance;

Supplier Qualification: Checking if the qualification of the suppliers is valid and up-to-date and sending out alerts when documentation is expiring ensures that your whole supply chain is compliant.

Finance & Control

Manage your own price lists, contracts, calculations and invoice generation, based on multiple up-to-date price criteria and stock valuation

Automation

Reduce manual tasks and human error creating automated steps, based on your business rules

Technology Guarantee

We’re constantly upgrading to take advantage of the most modern technologies and continuously added-value features

Scalability & Availability

Designed to manage thousands of customers simultaneously - 24/7, we closely monitor the system uptime and performance
Circul8 Products automates the activities of producer responsibility organizations (PROs) and regulators, which require data from producers for reporting, billing and determining the producers’ responsibilities. This is the portal through which producers are going to report their data to the PRO and/or Regulator.

The reporting requirements are defined by legislation and/or specific requirements of the PROs and the billing can follow simple rules, for example, visible fees, or more complex rules, such as collected/treated ratios. Standard features include billing, account receivables, purchase orders and customer relationship management (CRM).

Data collected from producers is highly confidential and commercially sensitive. Circul8 is developed to the highest standards in data security, with a strong audit trail for all data operations, and regular security checks carried out by accredited 3rd parties.

Circul8 Products can operate in white box mode (where the PRO/Regulator has access to confidential data from the producer) or in black box mode (where the producer data is invisible to the PRO/Regulator, and all operations, like billing, are fully automated to further reduce the risks of data breach). In black box mode, the data reported by producers is only visible as aggregated data sets that cannot be linked directly to a specific producer.

Circul8 Products includes a module for managing producers’ audits, whether they are performed directly or outsourced to a 3rd party.
Orchestrating transactions and tracking waste along the supply chain allows companies to organize reverse logistics, converting potential waste into a valuable resource, which is key to the circular economy.

Circul8 Waste is for all users involved in waste management, from municipalities, PROs and regulators (which oversee the operations) to logistics operators, recyclers and consolidation centers or producers who want to manage their own take-back program.

Circul8 Waste coordinates the activities of the different users in the collection network and supply chain. It provides a self-service solution, whereby:

- Waste attributes and compliance documentation are set in the system to ensure full traceability for each activity and complete accountability of each stakeholder in the operation.
- The Billing module manages all supplier pricelists for easy validation of financial flows and calculation of the granular costs of each operation (per stream, territory, supplier, etc.).
- Logistic partners collect and deliver the waste; treatment plants recycle the waste; and both provide compliance documentation for their operations.
- No matter how many times the waste is transported or transformed throughout the reverse supply chain, Circul8 waste will track all the flows to achieve maximum traceability.

Automatic materials flow

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Once the waste arrives at the destination site, it can be subjected to several operations, including temporary storage, dismantling, disassembly, re-furbishing, depollution, shredding and separation. Knowledge of the physical storage location of each container, work-in-progress stock, machine usage levels and worker activities are all essential for monitoring processes, even if they are different for every customer. Logging additional services (for example, serial numbers retrieval or secure data deletion), as well as evidence of the operations is captured by the system through the connected devices. Proper tracking of processes and service log is fundamental for obtaining KPIs on the business, as well as for issuing evidence of compliance. Circui8 Materials uses connected devices in the plant to acquire data for analyzing plant operation, consolidating granular profit and loss, stock valuation, predicting operation levels, controlling maintenance cycles, capturing emissions data, documenting waste in and waste out, which can be photographed during transit on the conveyor belt, and output fractions as they emerge from the shredder or separator. This is the future of de-manufacturing, providing quality levels and traceability levels equivalent to a manufacturing plant, where quality control is key to business success.
Which module is right for you?

<table>
<thead>
<tr>
<th>Producer Responsibility Organizations</th>
<th>Circul8 Products</th>
<th>Circul8 Waste</th>
<th>Circul8 Materials</th>
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<td>Producer</td>
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<tr>
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