

Ireland's New Deposit Return Scheme

IT & Data Flows 29th June 2023

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Agenda

Today's Agenda to cover ...

- 1. Background
- 2. High Level Schedules
- 3. System Overview
- 4. Information Architecture
- 5. Data Flow Diagram
- 5. Re-turn Portal
- 6. Producer Registration
- 7. Product Registration
- 8. Retailer Registration
- 9. Finance Aspects
- **10. Producer Monthly Reporting**

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Ireland has committed to a Deposit Return Scheme as it incentivizes recycling by placing a monetary value on beverage containers.

- The consumer pays a small deposit on top of the retail price when they buy a drink or single-use container.
- The Deposit value was announced by Minister Ossian Smyth on 28 November, 2022.
- Return points will be located throughout the Republic of Ireland
- Beverage container materials included are:
 - PET plastic bottles
 - Aluminium and steel cans
- Containers from 150ml up to 3 litres are included in the scheme.

Consumers may return their empty containers either by using a reverse vending machine (RVM), or over the counter to an approved return point operator.

What does the DRS system need to do and for who ?



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The DRSI Technology Platform will manage a full transparent flow of money, data and material streams to fulfill obligated businesses needs as defined in the Regulations to meet recycling targets in the most cost-efficient way.

Create an environment that allows Ireland to be compliant with the 2018 EU SUP Directive that states recycling targets of 90% over beverage containers by 2029

Data Management, Deposit Clearing & Reporting System Operational Logistical System Collection /Sorting /Counting

IT & Finance System Fit for Purpose Regulatory Reporting Auditing & Enforcement



The DRSI Technology Platform will be a robust, scalable, extensible and agile Digital Platform Solution which will empower the Circular Economy. It will deliver a frictionless and rich user experience across the product circular lifecycle providing traceability, data integrity, insights and reporting, supporting the achievement of targets as set out in the Directive (EU) 2019/904/EC and future iterations.



<u>Who</u> will be directly involved with the DRS Platform ?





1. Background – high level

1.Producers place products on the market. They are obliged to register and report to **DRSI** the quantity and type and to pay associated deposit and fees.

2.Retailers sell the products to Consumers.

3.Consumers buy the products and return empty containers to either a **manual RPO** or an **RVM** which will associated (usually) with a Retailer.

4.Transporters pick-up bags with containers from the manual RPOs

5.Transporters pick-up compressed containers from the RVMs

6.Transporters deliver the containers to the Sorting & Counting Centre for

collection, sorting and other waste manipulation processes

7.The Sorting & Counting Centre sells the processed plastic to a Reprocessor.

8. One or several **Reprocessors** manipulate the plastic bought from the **Sorting & Counting Centres** and sell the recycled material to Producer so they can bring it back to market.







2. Timelines - Overall Program

Re-turn High-level Timeline (Critical Path)

						20	23								2024	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
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2. IT Time Plans – Plan on a Page

Full Consumer Launch = Feb 2024







3. System Overview - Components

	DI	RSI	
Self Service	Finance	Governance	Back Office
Registration Access	"Customers" "Suppliers" Fees & Deposits Bank General Ledger	Compliance Audit Reports	Administration Reporting Reconciliations

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3. System Overview - Components





3. System Overview - Components

		DRSI	
Self Service	Finance	Governance	Back Office
Registration			
Producers			
Retailers			
Premises (RPOs)			
RVM Suppliers			
Transport			

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3. System Overview - Considerations

Security and **Data protection** is an essential element of the DRS implementation.

The Solution implementation has several IT-security specialists engaged that will be supporting the platform with audits, PEN tests, etc.

Security, GDPR and Data Protection is built by design.

3. System Overview - Considerations

Traceability and **auditability** of the data flows from Collection point collection up to related Invoice and Payment are key to establish basic trust between the stakeholders.

Producers/Importers and Retailers will require **access** to their (financial)data to control and audit the financial flows

Data management via User Interface and import/Export functionality at the Portal must be self-explanatory and straightforward to avoid escalations and requests for support.

3. System Overview - Technology

The Platform infrastructure chosen is based on **AZURE** cloud which is strictly single tenant and is not shared between with any other Schemes or other application customers to ensure data security and data consistency.

Microsoft Azure allows the setting up of automated replication to other geolocation and back-ups & archiving of the data base according to the DRSI requirements.

The architecture of the Supplier chosen is established on previous experience using already working modules elsewhere in other DRS Schemes to create a powerful, stable ecosystem with flexibility of growth and adjustments based on eventual Irish market needs.





4. Information Flow



Overview



4. Flow – finance, data, material



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4. Financial Flows



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5. Re-turn Portal – WORK IN PROGRESS screens & layouts

COMPANY

Re-turn	=			User name Admin
	Company		+ Add company	
	+ Add company			
	Start with your first company or sole trader	9	Create Re-turn account	
		1	Create company or sole trader	
		2	Add stakeholder(s)	
		83	Add products, collection points, etc	

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5. Re-turn Portal – WORK IN PROGRESS screens & layouts

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Details on this was presented last week at a separate Webinar.

All Producers need to register with the Scheme

- provide basic information about their company
- sign a membership agreement

From August Scheme Members will have access to the new DRSI Portal that will provide for a range of activities. More capabilities will be added over the coming months

Those Producers who have already registered using the form currently on the Return.ie website will be **migrated** to the new portal.

We would ask you to logon to the system and confirm your details are correct.

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For information on product types and containers that are included in the DRS, please refer to <u>S.I.</u> <u>No. 599 of 2021 – Separate Collection (Deposit Return Scheme) Regulations 2021.</u>

This includes:

- Product brand and flavour
- Material aspects
- Container dimensions
- Multi-pack details
- Barcode details

A wide range of aspects regarding the Product need to be provided when registering the product on the Portal.

Samples of the product may be needed for verification with the RVM Suppliers.

Product Testing information has been sent out in recent weeks .

The portal will support the registration of products one-by-one or a batch upload of many products – will be dependent on Producers adhering to a specific CSV based format. Before the Portal goes live in August, we will publish info regarding :

- upload instructions
- example file with sample data
- empty formatted file with headers



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The data for each product can be entered one-by-one (manually though a menu system) or in bulk using formatted CSV files

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Product Changes

All changes to products already included in the deposit return system must be approved by DRSI before they can be introduced. Significant changes to shape and size may mean that the container can no longer be accepted by the reverse vending machines and will require a new approval.

New sample packages and material specifications must therefore be submitted to DRSI for approval.

New Product Registration

The registration of a new product shall be submitted to DRSI CLG for approval no later than six weeks before the planned go live. Products are registered in the producer web portal which will be available at <u>www.re-turn.ie</u>.

When registering plastic bottles, specifications describing the material compositions of the bottle material, the label, the adhesive and the cap shall be included. These specifications are usually available from the packaging manufacturer.





8. Retailer Registration

Comparison Comparison <th>🛞 Re-turn</th> <th></th> <th>User name Admin</th>	🛞 Re-turn		User name Admin
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8. Retailer Registration

Retailers will be providing data to the Platform in two steps

- Initial registration contact details, company details
- Per premise local contact details, floor size, RVM Supplier(s) and RVM Model(s), and some collection related details

Bulk updates will be supported via formatted CSV files







Finance is handled by integrating the DRS modules with Microsoft Dynamics 365 Business Central.

The ERP system contains a number of commonly required functionalities.

It is a system with on-line processing, integrated connection of all activities in the system for realtime economic monitoring.

All accounting and tax records are updated immediately at the entry of the initial documents.

This is a "no hard-close system" where it is not necessary to close individual working periods and perform batch data processing for the respective period.

Standard system features include integrated support for exporting and importing data from and into the system in all data windows into different formats, e.g. excel, pdf, word.

Other interfaces are available in REST API format.



- All users within the portal would have access to related invoices issued by DRSI or self-invoices issued by DRSI on behalf of the registered parties.
- After the invoicing data is imported from DRS to EPR the invoice is automatically posted in ERP and PDF of the invoice can be sent to the party (via email usually).
- ERP also sends invoice metadata and PDF back to DRS where the invoice is displayed to stakeholders through the DRS Document management capability.

Invoice type	data source	frequency
registration retailer	DRS - registrations	event based + recurring as per setup
registration producer	DRS - registrations	event based + recurring as per setup
product placement deposit	DRS - product placement	frequency based - ie.monthly
product placement industry fee	DRS - product placement	frequency based - ie.monthly
retailer deposit	DRS - voucher data	frequency based - ie.monthly
retailer handling fee	DRS - voucher DATA	frequency based - ie.monthly
transporter fees	DRS - uploaded invoice with metadata	frequency based - ie.monthly



Posted Sales Invoice SW2200069 · TEST Matthew Producer

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10. Monthly Reporting

From Launch in 2024, as detailed in the Producer Agreement, (clause 5) every month each Producer must report their monthly volumes per in-scope product.

DRSI are to invoice the Producer (by the 13th) for relevant Producer Fees based on the quantity and material type involved in the product.

National barcodes : report values for previous month

7th of each monththrough Re-turn PortalPrevious month's product volumes13th of each monthgenerated by Re-turn PortalInvoice available for inspection on PortalAny disputed Invoices will be dealt with manually with DRSI Admin staff

30 days from Invoice

Payment of Invoice in full



7th, 13th or next business day

10. Monthly Reporting

From Launch in 2024, as detailed in the Producer Agreement, (clause 5) every month each Producer must report their monthly volumes per in-scope product.

DRSI are to invoice the Producer (by the 13th) for relevant Producer Fees based on the quantity and material type involved in the product.

International barcodes : report values for coming month.

7th of each monththrough Re-turn PortalComing month's product volumes13th of each monthgenerated by Re-turn PortalInvoice available for inspection on PortalAny disputed Invoices will be dealt with manually with DRSI Admin staff

30 days from Invoice

Payment of Invoice in full



7th, 13th or next business day

10. Monthly Reporting

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Instruction
Download template file
Download import manual
Download example import file

🚓 Re-turn

After data for invoicing of Producers/Importers has been entered, DRSI can then run the process of calculating and invoicing the Producers/Importers for the products being brought to the market.

Deposit and product fees are calculated based on reported volumes and invoiced through integrated ERP solution.

Invoice will be on entity basis with aggregate amount for deposit fee and aggregate amount for product fee types, all in separate lines based on fee category. Final invoice is stored and available for display in the portal







END

THANK YOU

