



This project is co-funded by the European Union and the Republic of Türkiye

## Technical Assistance for Assessment of Türkiye's Potential on Transition to Circular Economy

EuropeAid/140562/IH/SER/TR

### TÜRKİYE DEPOSIT MANAGEMENT SYSTEM

#### Activity 3.2.3. Training of Trainers on Integrated Waste Management in Line with Circular Economy

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TÜÇA

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Sakarya, Türkiye

# TÜRKİYE DEPOSIT MANAGEMENT SYSTEM

**TURKISH ENVIRONMENT AGENCY**

**Deposit Management System Directorate**

**September 19, 2024**

**2022**

1. R&D Project was started.

February

The Procedures and Principles Regarding Compulsory Deposit Management System Applications have been published.

April

2. R&D Project was started.

Work has begun on establishing the Deposit Information Management System.

Pilot Application Started in the Ministry of Environment, Urbanization and Climate Change Building (Ankara)

Pilot Application Started in Kızılcahamam District (Ankara)

July

The Procedures and Principles Regarding the Mandatory Deposit Management System Applications have been revised.

December

**2023**

Those Launched to the Market Started the Registration Process Through the Deposit Information Management System [dbys.gov.tr](http://dbys.gov.tr)

January

Registered packaged products have started to appear on the market.

August

Registration carried out at the Packaging Approval Center.



GLASS    PET    ALUMINIUM

**As of 01/01/2024, it is forbidden to put the unregistered 1st class products in glass, PET, aluminium packaging on the market.**

packaging group included in the registration calendar

- Non-alcoholic beverages (cola, flavored and/or fruit drinks, flavored and/or fruit natural mineral drinks, flavored water, tonic, other soft drinks, etc.)
- Drinking and spring waters
- Natural mineral waters
- Alcoholic and non-alcoholic beers, including flavored ones
- Malt beverages
- Energy drinks
- Sports drinks

# PROCEDURES AND PRINCIPLES

## Objective, Scope, Basis



### *Objective and Scope:*

Procedures and Principles, Determines the administrative, technical and financial aspects of the compulsory deposit management system.

### *Basis:*

**Environmental Law/Additional Article 12 (2018):** In order to prevent environmental pollution, the Ministry shall make the application of deposits for the packages and products to be determined by the Ministry compulsory as of 1/1/2022.

**Law No. 7261 (2020):** Turkish Environment Agency was established to establish, operate, monitor and supervise the deposit management system on a national scale.

**Regulation on Control of Packaging Wastes (2021):** Strategies and policies on deposit management system applications and the infrastructure for the activities to be carried out by the Agency in this direction were regulated.

**Zero Waste Regulation (2021):** Sales points that sell the products covered by the deposit; participation in the deposit management system and its implementation

## DEPOSIT INFORMATION MANAGEMENT SYSTEM DBYS

### A. Deposit Information System

### B. Product Printing and Tracking Operation

*Deposit Management System Marked packaging / label production & packaging registration procedures*

### C. Mobile Application and E-Wallet Application

### D. Support Desk Service

### E. Production/Supply of Machinery/Equipment

*DIM Reader & Control and verification equipment to be used in Packaging / Label production facilities & Handheld control and verification equipment to be used in the field and manual return points & Verification and counting lines to be installed in the Verification Facility*

### F. Machine/Equipment Registration and DBYS (Depozit Information Management System) Integration

## TÜRKİYE DEPOSIT MANAGEMENT SYSTEM

## DEPOSIT FIELD MANAGEMENT SYSTEM DSYS

### A. Infrastructure Installation

*A1. Procurement/Supply of DIMs belonging to the System;*

*A2. Supply/Procurement of Equipment for Verification Facilities*

*A3. Procurement / Supply of Hand Terminals and Other Equipment*

### B. Operation

*B1. Establishment and Operation of Return Points*

*Equipment and Space Supply + Electricity, Internet and Personnel Supply*

*B2. Collection and Transportation Operations*

*Personnel & Vehicle & Transfer Centers*

*B3. Processing and Recovery*

*Verification facility & Packaging recovery facilities*



# Procedures and Principles Regarding Mandatory Deposit Management System Applications (29.12.2022)

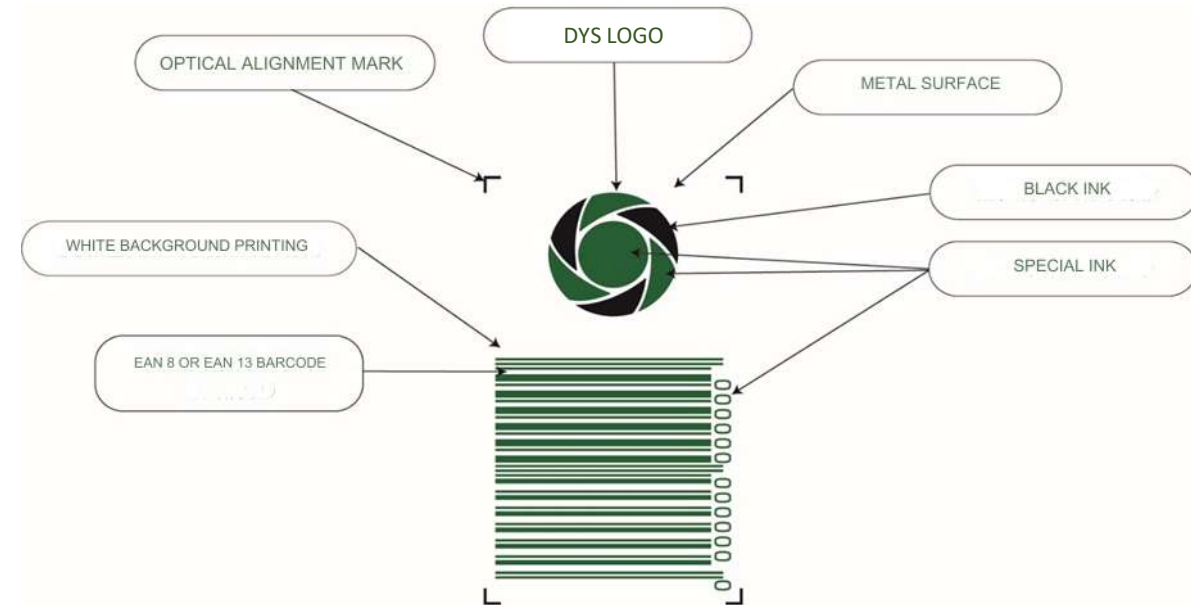
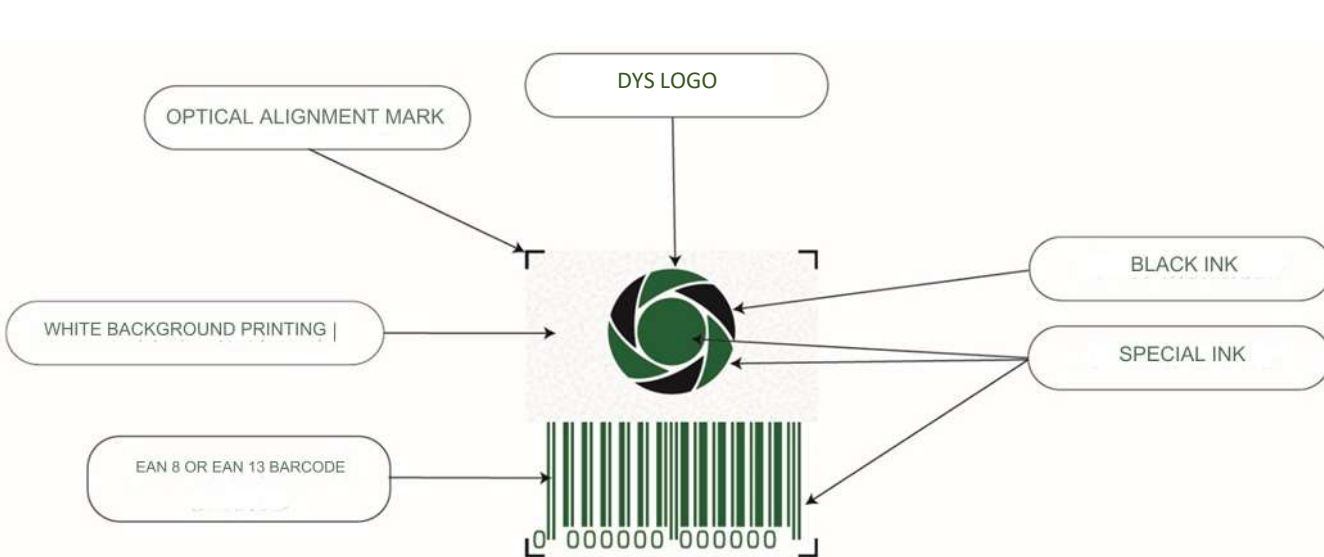
- It was stated that the Deposit Information Management System (DBYS) was defined and the General Directorate of Mint and Stamp Printing House was authorised by the Agency to design, commission, operate and provide support-maintenance services for this system.
- Deposit Site Management System (DSYS) and DSYS Operator are defined.
- The Deposit Site Implementation Plan (DESUP), in which the works to be carried out for the DSYS are planned and scheduled, prepared and submitted by the DSYS Operator within the periods and processes determined by the Agency and approved by the Agency, is defined.
- Principles regarding the use of barcodes within the scope of the system and the use of the DYS logo and principles regarding the physical requirements of the packages within the scope of the system have been determined.
- The duties, authorities and obligations of the Ministry and Provincial Directorate, Agency, DBYS Operator, DSYS Operator, Marketers and Points of Sale have been determined.
- It was stated that the criteria to be met by the packages included in the scope of the mandatory deposit management system and the approval procedures of the packages meeting the criteria will be carried out by the Mint through DBYS.
- Principles and minimum criteria regarding the return points, machinery and equipment and verification facilities to be used within the scope of the system have been determined.
- The financial elements of the system are expressed and general financial considerations are stated.

# PROCEDURES AND PRINCIPLES

## Definitions



- **DMS Logo:** The sign that is mandatory on the packages included within the scope of compulsory DYS, whose technical specifications are determined by the Agency and **can only be printed by authorised printing facilities under special conditions,**
- **DMS Barcode:** A unique number and symbol for each product type within the scope of mandatory DMS, **paired with the identification number generated by DBYS,**
- **GS1 Barcode:** A special symbol used in the implementation of the GS1 System, whose characteristics are defined by the GS1 Implementation Guidelines and which carries a GTIN (Global Trade Item Number),



# PROCEDURES AND PRINCIPLES

## Duties, Powers and Obligations



### Marketers;

- To register to DBYS,
- To obtain packaging/labels from the authorised packaging/label manufacturer
- Ensure the requirements set for packaging and obtain approval,
- To fulfil the financial obligations determined by the Agency,
- **Contract manufacturing suppliers;**

To register also to -DBYS and to provide the requested information and documents.

### Mint-DBYS Operator;

- To set up, operate and integrate DBYS including special ink operation,
- To realise the registration of verification and control equipment and their integration into the system,
- Determining and managing the criteria for marking/labelling of packages,
- To ensure that the system is accessible 24 hours a day, 7 days a week.

### DSYS Operator;

- Preparing the DESUP and submitting it for approval
- To create the return points and to ensure their integration into the system,
- Collecting and transporting empty packages deposited at the return points,
- To establish and operate transfer centers,
- To establish and operate Verification Facilities,
- To carry out the field activities in instant connection with the Deposit Information Management System,
- To comply with the provisions of environmental legislation,
- To conduct informative events.



# PROCEDURES AND PRINCIPLES

## Packaging and Product Classes in Scope



Product/ Packaging	1st Class	2nd Class	3rd Class	4th Class
<p><b>Beverage / Food</b></p> <p><b>0,1- 3 Lt;</b></p> <ul style="list-style-type: none"> <li>• <b>PET bottle</b></li> <li>• <b>GLASS bottle</b></li> <li>• <b>ALUMINUM bottle/can</b></li> <li>• <b>HDPE</b></li> <li>• <b>COMPOSITE</b></li> <li>• <b>Other</b></li> </ul>	<ul style="list-style-type: none"> <li>• Soft drinks ( coke, flavoured and/or fruit drinks, flavoured and/or fruit natural mineral drinks, flavoured water, tonic, other soft drinks etc.)</li> <li>• Drinking water and spring water</li> <li>• Natural mineral waters</li> <li>• Alcoholic and non-alcoholic beers, including aromatised ones</li> <li>• Malt drinks</li> <li>• Energy drinks</li> <li>• Sports drinks</li> </ul>	<ul style="list-style-type: none"> <li>• Fruit juices/nectars with a fruit content of 50% or less</li> </ul>	<ul style="list-style-type: none"> <li>• Fruit juices / nectars with a fruit content above 50%</li> <li>• Milk and drinkable dairy products</li> </ul>	<ul style="list-style-type: none"> <li>• Wines, alcoholic beverages obtained by distillation and stilling</li> <li>• Other/unspecified drinks</li> <li>• Other unspecified liquid foods</li> </ul>

# PROCEDURES AND PRINCIPLES

## The Transition Process



Packaged products within the scope must be registered in DBYS.

By the marketers **of 1st class products to be placed on the market in 1st, 2nd and 3rd class packages;**

- **as of 1/1/2023 date** It is mandatory for them to start the registration process via DBYS.
- **Registered packaged products shall be placed on the market as of 1/8/2023.**
- **As of 1/1/2024**, it is forbidden to place **packages that have not been registered** through DBYS on the market.

**The period for the sale/delivery of existing products in the market to consumers at the points of sale is the shelf life of these products.**

**For 2nd, 3rd and 4th class products, the transition dates regarding the registration procedures and their placement in the market with deposit shall be separately regulated and published by the Agency.**

**In Class 4, the products specified as "other/unspecified beverages" and "other/unspecified liquid foods" and the process regarding the registration of these products in DBYS will be published and operated by the Agency separately.**



# Operations and Procedures to be carried out by the Mint

## Registration of Packaging and Packaging/Label Manufacturers

- **Packaging registration procedures**
- **It is carried out by the Mint through DBYS.**
- **Packaging/label manufacturers that meet the criteria determined within the system are authorised by the Mint.** These authorised facilities use verification and control equipment provided by the Mint.

## Registration of Machinery and Equipment and Their Manufacturers/Suppliers

- Based on the tests and inspections carried out by the Agency and/or the institution, organisation or enterprise authorised by the Agency, **the registration of the machines/equipment that meet the criteria and requirements determined within the system to be used in the type and model-based Mandatory DYS is carried out within the conditions determined by the DBMS Operator.**
- **The integration of the registered machines/equipment** with DBYS is carried out **by the Mint** upon the request and coordination of the DSYS Operator, and the procurement and utilisation procedures within the Mandatory DYS are carried out by the DSYS Operator **through DBYS.**

## Verification Facilities Registration Procedures

- Verification facilities that meet the criteria and requirements are registered to the system in order to perform the relevant activity within the scope of Mandatory DYS.. **The verification and control equipment** provided by the DSYS Operator **registered by the DBMS Operator** shall be used in **registered verification facilities.**

# PROCEDURES AND PRINCIPLES

## Packaging and Packaging/Label Manufacturers Registration Procedures



The criteria to be met by the packages and the approval procedures of the packages meeting the criteria will be carried out by the Mint through DBYS within the framework of administrative, technical and financial issues determined by the Agency and the Mint.

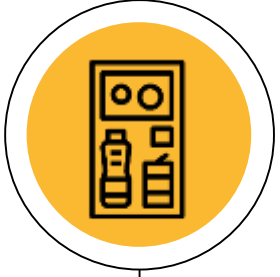
- Marketers register with DBYS,
- Transmits all requested information and documents related to the product and its packaging via DBYS,
- Initiates the registration process for the packages within the scope via DBYS,
- The registration of the packages that complete the registration process by meeting the criteria is realised,
- Registered packaging may be placed on the market.

**Packaging / Label manufacturers** who want to operate in the field of marking / labelling of packaging with special inks;

- Register with DBYS,
- Those who meet the specified criteria **are authorised by the Mint,**
- These authorised facilities use verification and control equipment supplied by the Mint.



# Determination of DSYS Operator



1

## Return Points

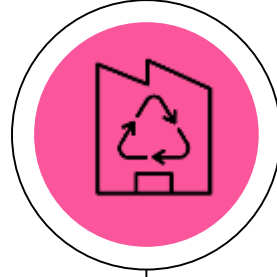
Establishing and  
operating Return Points



2

## Collection, Transport

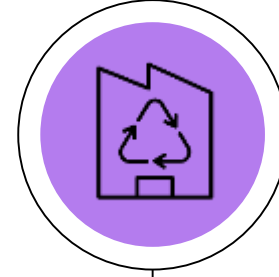
Collecting and  
transporting empty  
packaging accumulated  
at Return Points



3

## Transfer Centres

To establish and operate  
transfer centres to be  
used when it is necessary  
to temporarily store the  
collected deposit empty  
packages



4

## Verification Facilities

To establish and  
operate verification  
facilities for the  
verification of deposit  
empty packaging  
returned for verification

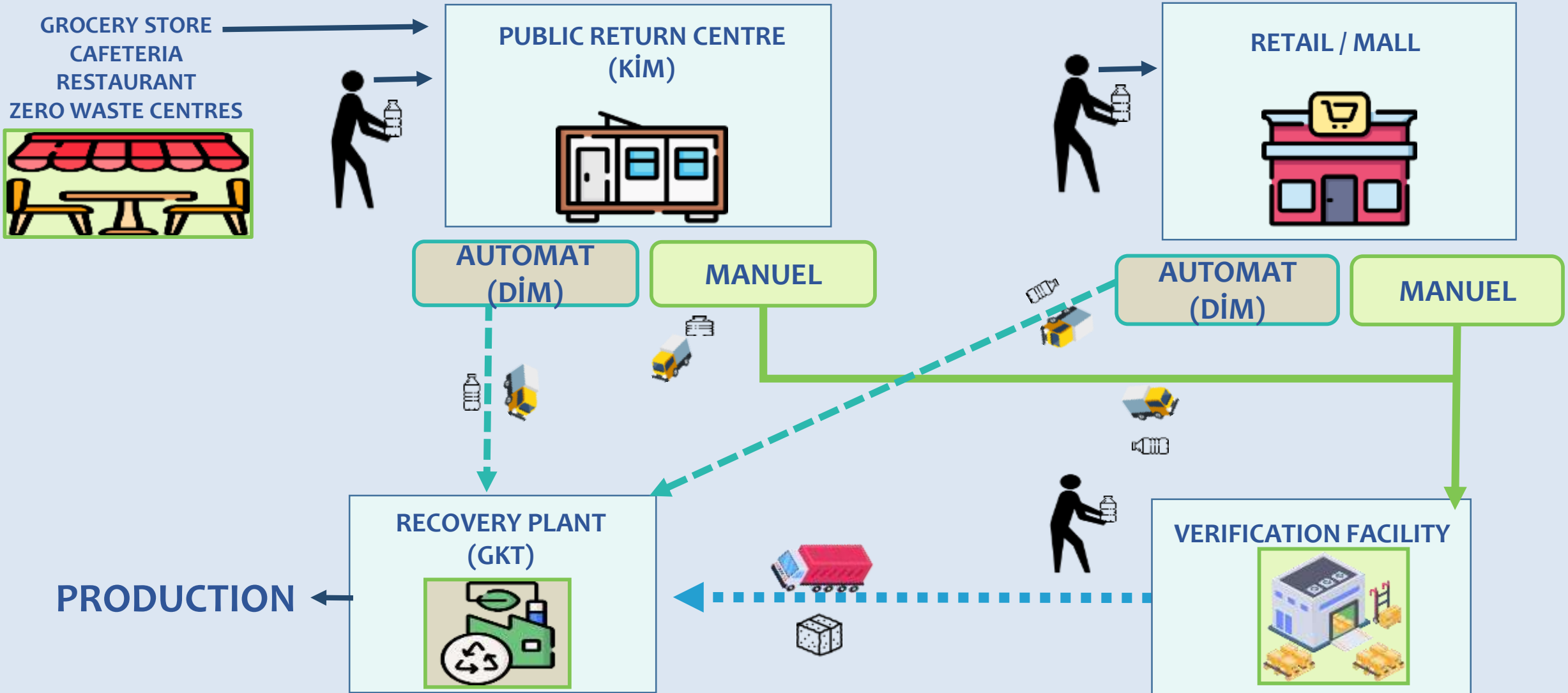


5

## Recovery

To ensure that empty  
packaging is delivered to the  
recycling facilities registered  
in DBYS after the empty  
packaging is cleared of  
deposit fees

# DEPOSIT SITE MANAGEMENT SYSTEM GENERAL OPERATIONS AND PROCESSES



# DEPOSIT MANAGEMENT SYSTEM

## Türkiye-specific equipment design and production, Vending Machine / Machine Standardisation

To ensure that the system is operated centrally and under the control of TÜÇA-Mint (such as a central database and standard interface closed to external interventions);

- **Special Control and Verification Equipment production and use standards**
- **Mandatory Deposit Management System Deposit Return Machine Specifications Manual**
- **Qualification criteria for Deposit Return Machine and Other Machine Manufacturers** (spare parts, service, warranty, etc.)
- **Deposit Management System DIM Manufacturers Authorisation Guide**
- **Related Additional Documents**

prepared and shared.

A total of **22 DIM Producers** registered to the system and **8** companies (**RVM Systems, ACO Recycling, GDS Recycling, EcoVend, Revego, Timtaş, Optimum, DSS**) received Pre-Authorisation..

# PROCEDURES AND PRINCIPLES

## Return Points Registration Procedures



In order to monitor and control the activities of the **return points** within the scope of the system, **they must be registered in DBYS by the DSYS Operator.**

The registration procedures of the return points **are carried out through DBYS** within the framework of administrative, financial and technical issues **determined by the Agency and/or the institution, organisation or enterprise authorised by the Agency.**

DSYS Operator for the Return Points that will operate within the scope of the system;

- Starts the registration process via DBYS,
- Those who meet the specified criteria and requirements are registered in the system,
- Registered Return Points may operate within the scope of Mandatory DMS.



Manual Return  
Point



Return Point with  
Deposit Return  
Machine



# PROCEDURES AND PRINCIPLES

## Financial Considerations

The financial elements of the system are mainly;

- Deposit fee,
- Deposit contribution fees,
- System registration and transaction fees,
- Fees related to transactions,
- Guarantees,
- Service fees paid over the tariff price determined per deposited package in return for the services of DBYS and DSYS Operators and other related parties acting on their behalf for the establishment, operation and sustainability of DBYS and DSYS,
- Proceeds from the sale of packaging to recycling facilities,

The periods and processes related to the levy, accrual and collection of financial elements in the system and payments are operated through DBYS.

**Application principles and guidelines for financial matters** It is also determined by the agency and announced to the interested parties.

# DEPOZİTO YÖNETİM SİSTEMİ MEVCUT ÇALIŞMALAR

## Depozito Bilgi Yönetim Sistemi (DBYS)



### WEB PAGE

- Information and Announcements started to be made via [dbys.gov.tr](http://dbys.gov.tr).
- DBYS Company and Product Registration, Packaging Registration Procedures are carried out through [dbys.gov.tr](http://dbys.gov.tr).

### SPECIAL INK

- Special ink to be used in DYS Marking is used by authorised label/packaging manufacturers.

### AUTHORISATION

- 62 Label/Packaging Manufacturers have been authorised to print with the DYS Mark.
- Vending Machine Manufacturers started to be Authorised.

### PACKAGING REGISTRATION

- Packaging registration procedures are carried out at the Packaging Approval Centre established within the Mint.

### DIM REGISTRATION

- DIM DB and STDB have been developed.
- DIM Models registration process has started.

# DEPOSIT PARTICIPATION FEE (DEKAB application)



**Additional Article 11 of the Environmental Law titled "Recovery contribution fee"** (Additional: 29/11/2018-7153/8 Art.): *Marketers/importers who implement a deposit system throughout the country in line with the principles determined by the Ministry are exempted from the first paragraph of this article for the products they place on the market with a deposit.*

**Additional Article 12 of the Environmental Law titled Deposit (Additional: 29/11/2018-7153/8 Art.):** *Producers, importers and marketers of products subject to compulsory deposit application and wholesale or retail sales units offering the products covered by the deposit to consumers/users; must fulfil their administrative, financial and technical obligations for the establishment, operation and monitoring of the deposit system."*

**Article 23 of the Regulation on Control of Packaging Wastes:** *"Fees and guarantees other than the deposit fee to be applied within the deposit management system shall be determined and managed by the Agency in line with the representation ratios of the relevant parties by taking as basis the financial cost of the deposit management system investment, the costs of operating and maintaining the system, the costs of depreciation of fixed assets, management and monitoring expenses and costs consisting of return on equity and the operating income of the deposit management system."*

## **Amendment to the Procedures and Principles for the Implementation of the Regulation on Recovery Contribution Fee dated 02.06.2023 and published on 66745475-020-6572817**

- A recovery participation fee declaration will be submitted by the marketers.
- The code numbers they have received from the Agency (in the form of 10-digit TUCAXXXXXY defined via <https://dbys.gov.tr>) will be used.
- The Deposit Participation Fees (DEKAB) to be collected from the marketers will be the same as the current recovery participation fee amounts determined for the current period.
- The assessment, collection and receipt of DEKAB amounts (including offsetting and refund) will be carried out through the Deposit Information Management System (dbys.gov.tr) application.
- DEKAB receipts will be collected in the same periods as the declaration periods carried out by the Revenue Administration Presidency and within the month following the month in which these declarations are submitted.

## DYS Payment Systems : e-Wallet Application

- **A protocol was signed on 16 November 2023** for the operation of the banking infrastructure of the Deposit Management System by Emlak Participation Bank.
- With the Protocol signed between TÜÇA- DARPHANE and EMLAK KATILIM BANK arrangements have been made for the development of;
  - **DYS collection and payment transactions,**
  - **E-Wallet infrastructure,**
  - **digital applications such as card payment systems and/or electronic payment services.**



dbys.gov.tr  
web page

The Deposit Information Management System **web page** has been put into use and work is ongoing to improve its content.

All processes and information flow related to the system will be carried out through this welcome screen.



dbys.gov.tr  
User Registration  
Screen

- Marketer
  - PS Supplier
  - Label/Packaging Manufacturer
  - Packaging Approval Center
  - DIM Manufacturer
  - Administrator **modules have been put into use.**
- 
- Sale Point •Return Point •Carrier
  - Transfer Center •Verification Facility
  - Recovery Facility •Consumer **modules are being commissioned.**

# DEPOSIT MANAGEMENT SYSTEM CURRENT STUDIES

## Deposit Information Management System (DBYS)

### SUPPORT DESK

Support Desk service has been put into use via dbys.gov.tr and the problems encountered during registration and data entry into the system are responded.

Haftanın 7 günü saat 09.00–18.00 arası +90 850 733 29 79 telefon numarasından bize ulaşabilirsiniz.

[Destek Masası](#)

### İletişim Formu

<b>Firma Adı *</b>	<b>Vergi Kimlik Numarası / T.C. Kimlik Numarası *</b>
<input type="text" value="Firma Adı"/>	<input type="text" value="Vergi Kimlik Numarası / T.C. Kimlik Numarası"/>
<b>Adı Soyadı *</b>	<b>E-posta Adresi *</b>
<input type="text" value="Adı Soyadı"/>	<input type="text" value="E-posta Adresi"/>
<b>Ülke *</b>	<b>Telefon Numarası *</b>
<input type="text" value="Türkiye (TUR)"/>	<input type="text" value="TR (+90)"/>
<b>Konu *</b>	
<input type="text" value="Genel İletişim talebi"/>	
<b>Başlık *</b>	
<input type="text" value="Başlık"/>	
<b>Talep *</b>	
<input type="text" value="Talep"/>	

## CONCLUSION

- The Turkish Environment Agency is working for the sustainable implementation of the Deposit Management System.
- So far, significant work has been carried out both through R&D projects and pilot applications.
- The commissioning of DBYS, which includes the Deposit Information System and Special Ink Applications, has been completed to a great extent.
- With the introduction of the Deposit Field Management System, each of us will be an important part of circular resource management.

**THANK YOU  
FOR LISTENING!**

**TURKISH ENVIRONMENT AGENCY  
Deposit Management System Directorate**

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This project is co-funded by the European Union and the Republic of Türkiye

# Thanks for your attention.



Türkiye Döngüsel Ekonomi

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Türkiye Döngüsel Ekonomi

IPA Çevre/Environment TÜRKİYE



Türkiye Döngüsel Ekonomi

IPA Çevre

[dongusel.csb.gov.tr](http://dongusel.csb.gov.tr)