Responsible management of packaging from Plant Protection Products

CropLife EUROPE
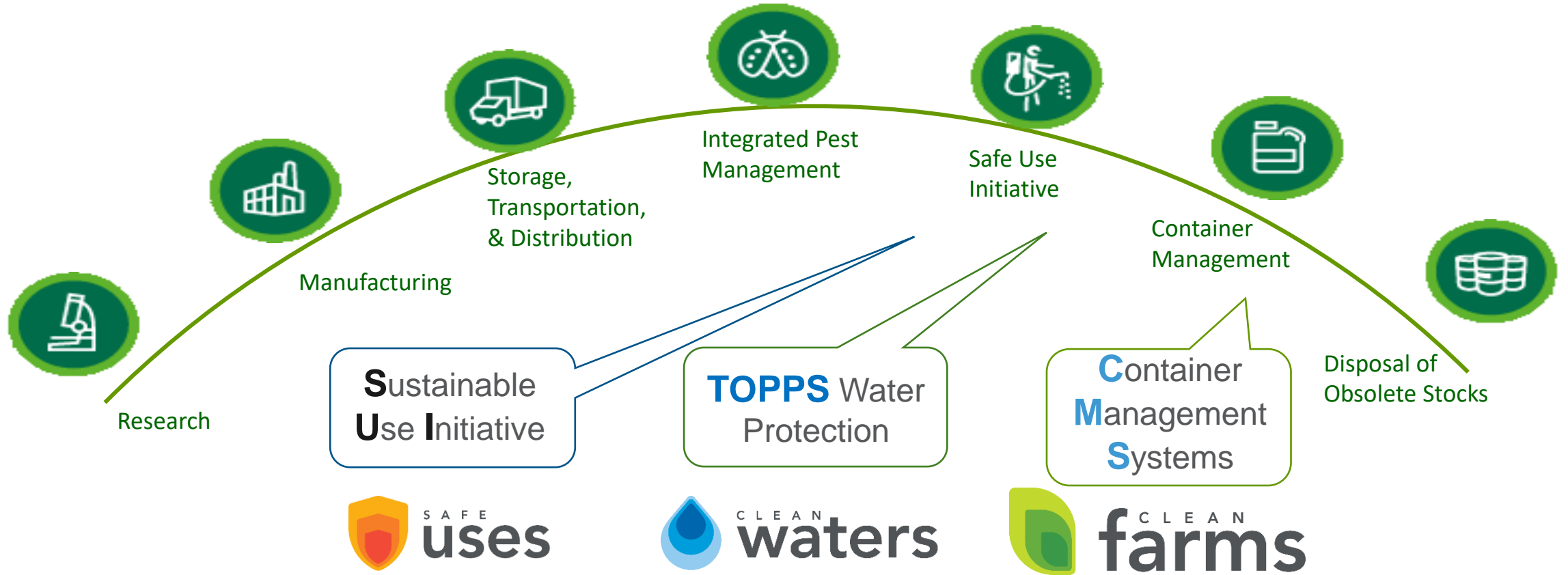
CLEAN **farms**

Report 2023

(CROPLIFE EUROPE CMS WORSKHOP 2024 - ATHENS!)

09/10/2024

Industry initiatives for Container Management

Stewardship Lifecycle for Crop Protection Chemicals

Integrated Pest Management

Safe Use Initiative

Storage, Transportation, & Distribution

Container Management

Manufacturing

Sustainable **U**se **I**nitiative

TOPPS Water Protection

Container **M**anagement **S**ystems

Disposal of Obsolete Stocks

Research

SAFE **uses**

CLEAN **waters**

CLEAN **farms**

from Discovery

**Stewardship encompasses
Entire product life cycle**

to Recovery

Company Activities

Association Activities

Industry initiatives for Container Management

Objectives & Activities

Objectives

- Prevent the production of hazardous waste and the residues exposure for humans and the environment

- Maximise the collection of empty packaging

- Contribute to circular economy by promoting safe recycling of high value material

Key Activities

- Promote proper container rinsing to minimize residues & risks

- Retrieve empty pesticide packaging from farms via build up of country-specific collection system

- Achieve suitable disposal or recycling end-use

Implementation of Container Management Strategies
Essential Expectations for sound Container Management Strategy

Objectives:

❖ **Legal compliance** & Preparedness for new legal requirements

❖ Mitigate risks

❖ Consistent implementation of collection programmes & *Industry's Commitments*

❖ Provide guidance & key principles

❖ Materials **traceability**; performance **transparency** & industry **credibility**

❖ Long term industry's **licence to operate**

Compliance to the industry expectations will be monitored from 2026 onwards

Essential Expectations for the management of packaging for Plant Protection Products (PPP)

1) The collection system meets **all local and European regulations**

2) PPP packaging is collected and managed in **separate stream** for agricultural packaging waste

3) Service provided for **all primary PPP packaging** (single-trip; < 25L) and for **all professional users**

4) **Net costs of the systems** are covered following the principle of Extended Producer Responsibility

5) **Adequate information** is provided to users of plant protection products (PPP)

6) **Proper rinsing** of rinseable packaging is ensured, particularly when packaging are collected as non-hazardous waste and/or sent for recycling

7) **Traceability & monitoring** is ensured from collection to final treatment and types, location and undertakings for **recovery or disposal operations** are known and approved, with **landfilling** considered as not acceptable.

8) **End-use applications for the recycled material** are selected based on the approved list of CropLife International or a country-specific risk assessment process

9) The implementation of the **industry commitments** is supported, and **maximisation of the collection rate** is pursued

10) An **annual performance report** is submitted to CropLife International

Industry initiatives for Container Management
Overview of CMS in Europe (2023)


Nationwide industry run CMS (Mature)

ccon (BG)	green-dot (CY)	ADIVALOR (FR)	PAMIRA (DE)	AgriRecover SIGFITO (BE)	(ES)
CROCPA EKO MODEL (HR)	CSEBER (HU)	(PL)	valorfito (PT)	SCAPA (RO)	SLOPAK ŽIVIMO Z OKOLJEM. (SI)

Industry run pilot CMS

cyclos (GR)	SKALAUK TEISINGAI (LT)	STORL (NL)	Z O R A (SK)	SECPA EKO MODEL (RS)	Скополе (RU)	Агро Варта (UA)	(FI)

Countries with independent dedicated collection programme(s) for pesticide packaging and/or agricultural plastics, e.g.:

(IE)	bonus holsystem (AT)	svep retur SVENSK ENSILAGEPLAST RETUR AB (SE)	VALORLUX BE THE CHANGE (LU)	Grønt Punkt Norge (NO)	(IT)

Projects in assessment / design phase

⬭ Countries with no (known) dedicated CMS. Pesticide packaging waste are collected via other collection routes

✱ *"Countries providing annual statistics to CropLife International on a regular basis. Other countries have occasionally provided* <u>partial</u> *collection data (e.g. IT, LU). CMS in Luxembourg has been managed by the EPR organisation* Valorlux *since 2019 but has not shared data so far.* Grønt Punkt Norge *in Norway is operating a scheme for agricultural plastics but has no separate data for pesticide packaging. Since 2022, no data are available for Russia and Ukraine.*
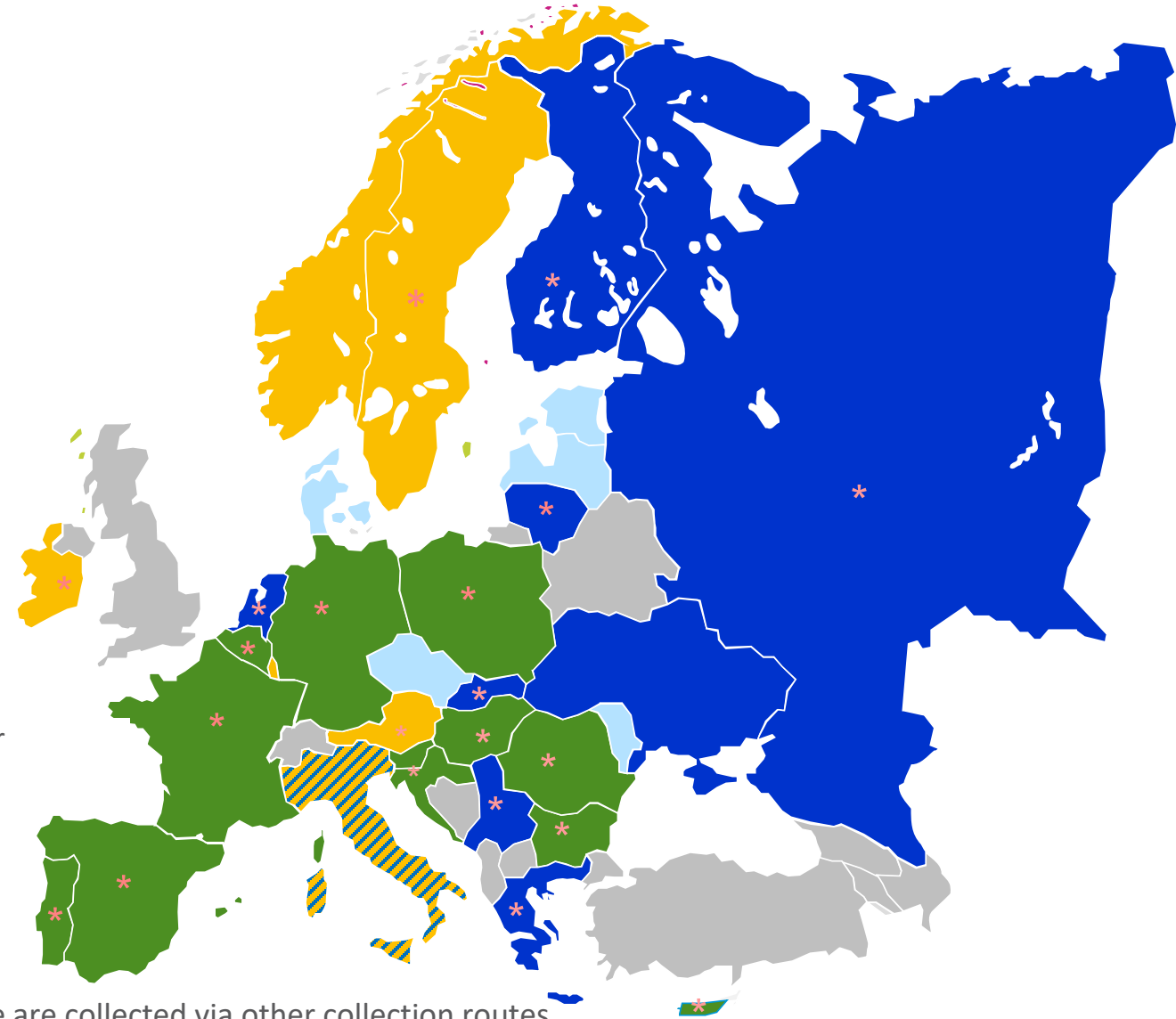
Industry Commitments for Circular Economy

MONITORING OF IMPLEMENTATION IN EU
MEMBER STATES - REPORT 2023

Circular Economy

III Establish an average **75% collection rate** of plastic pesticide and biopesticide containers across EU Member States by 2025.
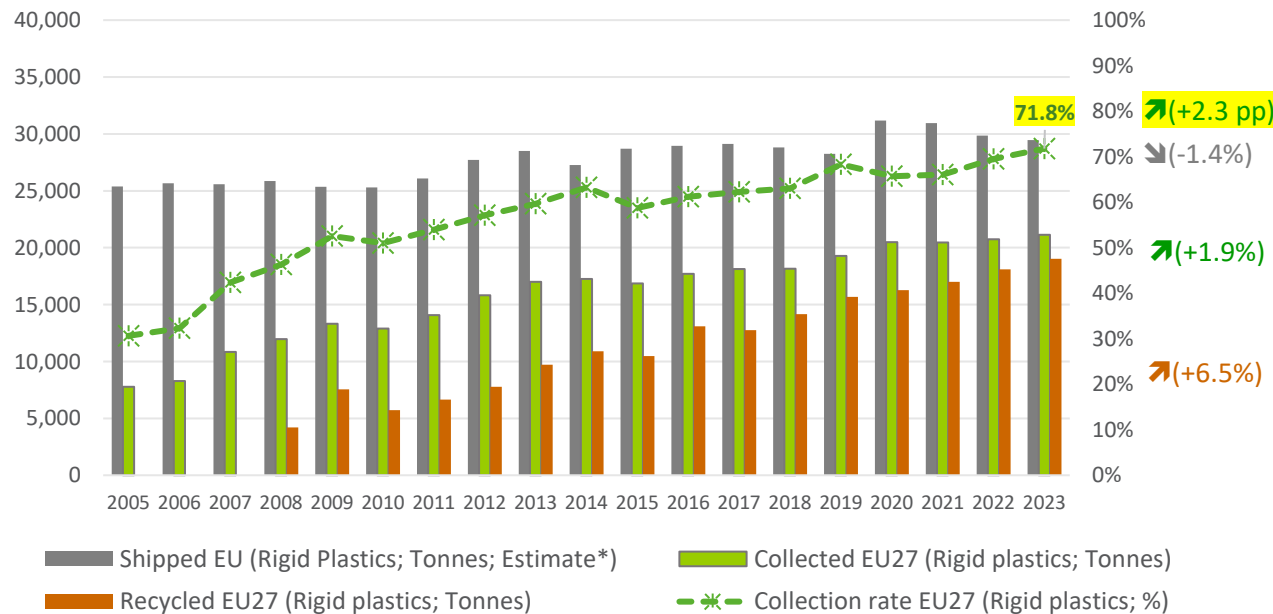
IV Ensure that a container scheme is available in **all EU Member States by 2025**, expanding the programme in two additional Member States each year.

More recovery and plastic container recycling, **with less** plastics waste.

News Release 7th September 2020

Europe's crop protection industry makes 2030 Commitments

Pesticide and biopesticide producers come together to make clear commitments to support EU Green Deal

2030 Commitments
For the Future of #Ag

With new CMS projects in:

Czech Republic; Estonia;

Denmark; Latvia; Finland;

Ireland; Malta & The Netherlands

Commitments for Circular Economy
Implementation monitoring

Circular Economy

III Establish an average **75% collection rate** of plastic pesticide and biopesticide containers across EU Member States by 2025.

More recovery and plastic container recycling, **with less** plastics waste.

Status 2023

- Average collection performance in 2023:
  - **EU27: 71.8% for rigid plastics collected** (+2.3 pp); 68.0% for **all primary packaging** (+3.1 pp)
  - **Mature programmes:** 83.4% for rigid plastics collected (+2.9 pp); 78.3% for all primary packaging (+3.8 pp)
  - **22 MS with CMS data**: 74.4% for rigid plastics collected (+0.5 pp); 70.2% for all primary packaging (+1.4 pp)
- CMS programmes in **8 Member States** have already reached the **75% target for plastics**
- **89.9%** of the collected plastics were sent for **recycling** (+2.7 pp)

Overall EU27 (Rigid plastics)

Collection rate Plastics (2023)

- Collection rate > 75%
- Collection rate 50% – 75%
- Collection rate 25% – 50%
- Collection rate < 25%
- No reported collection / data
- ***** Pilot projects
- **⬦** Estimates (data from studies / third parties)

Shipped EU (Rigid Plastics; Tonnes; Estimate*) Collected EU27 (Rigid plastics; Tonnes)
Recycled EU27 (Rigid plastics; Tonnes) Collection rate EU27 (Rigid plastics; %)
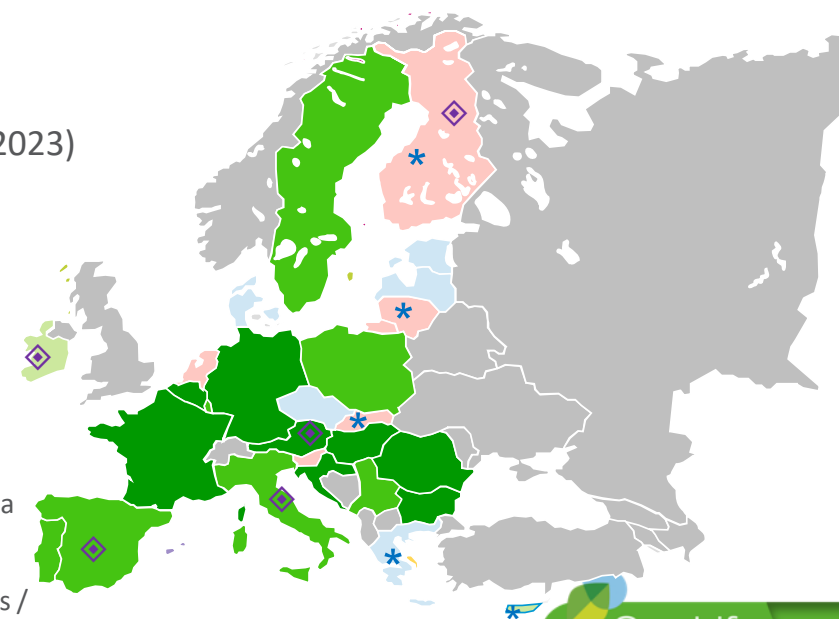
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Circular Economy

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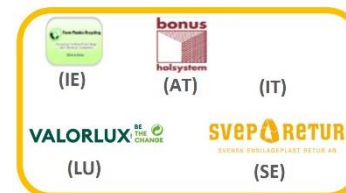
Status 2024

Nationwide industry run CMS (Mature) (EU)

Industry run pilot CMS (EU)

Countries with independent dedicated collection programme(s) for pesticide packaging and/or agricultural plastics (EU):
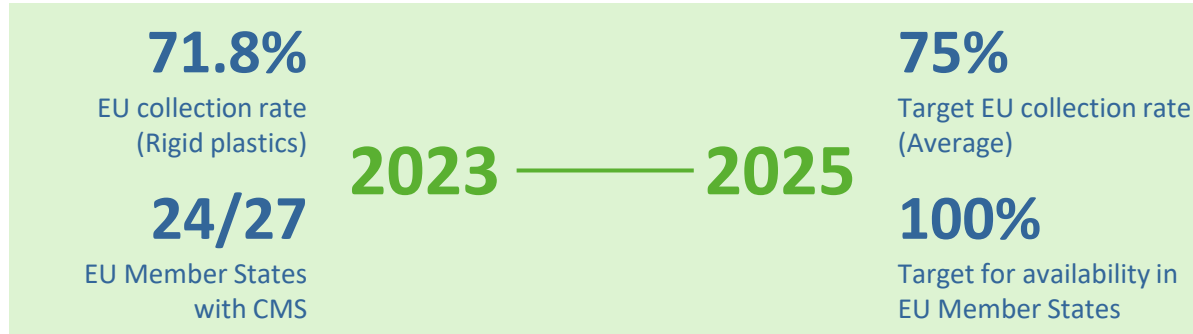
Projects in assessment / design phase

✳ Countries providing annual statistics to CropLife International on a regular basis. Other countries have occasionally provided partial collection data (e.g. IT, LU)

EU MS with dedicated & monitored CMS programmes in **24 MS** *(+3 MS)*

- **12 MS with Mature programmes:** BE, BG, CY, DE, ES, FR, HR, HU, PL, PT, RO, SI
- **5 MS with Pilot programmes** (+1 vs PY): FI, (GR), LT, **NL (new!)**, SK
- **3 MS with Independent dedicated programmes** with data: AT, IE, SE
- **4 MS with Independent dedicated programmes** without data, yet (only estimates available) (+2 vs PY): IT, LU, **EE (new!)**, **LV (new!)**

3 MS without CMS and/or performance monitoring, yet (-3 vs PY), with project in Design phase: CZ, DK, MT
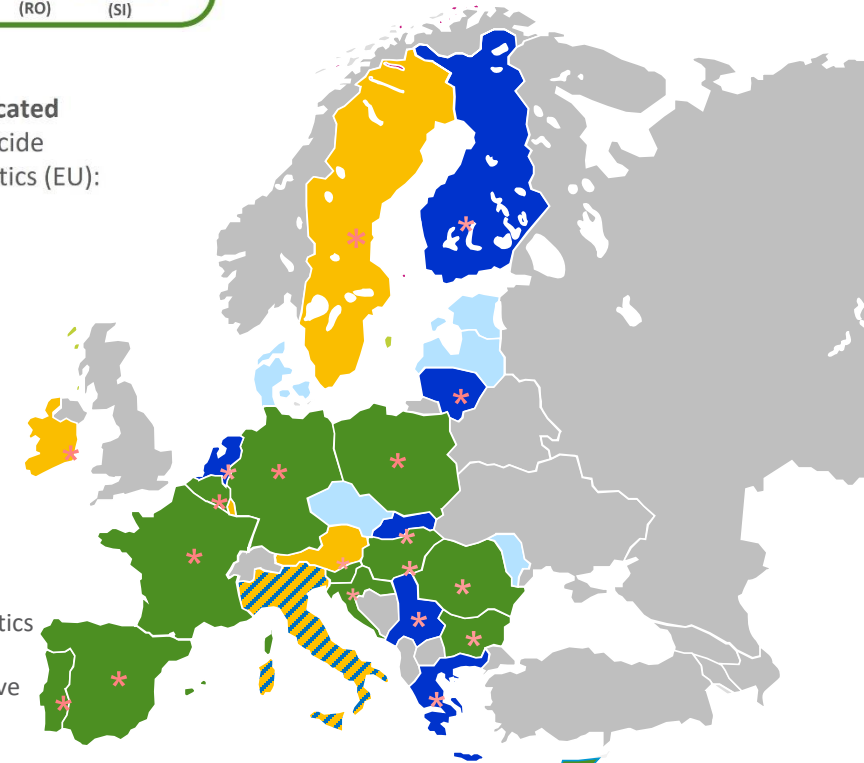
Industry Commitments for the Circular Economy

Implementation challenges & the way forward

71.8%
EU collection rate
(Rigid plastics)

24/27
EU Member States
with CMS

2023 ——— 2025

75%
Target EU collection rate
(Average)

100%
Target for availability in
EU Member States

- Challenges with **finding the right CMS strategy** in **Czech Republic** and **Malta**

- **CMS strategy is ready for implementation** but required the definitive legal basis in **Denmark** or change in the regulation in **Greece**

- **Boost the implementation of CMS in countries with new & pilot projects** to reach full collection coverage and increase the collection rate toward the 75% targets.

- Important potential for collection increase in countries with **mature programmes** that are below the 75% target!

- The attention on the "**Other primary packaging**" is still unsatisfactory, with several countries (even some with mature programmes) not collecting the data and/or not providing a collection service for these packaging!

- With 3.7%-points missing to reach the 75% target, we need to collect around +1,400 T/y in EU27 from 2025 onwards; each additional 400 T of rigid plastics collected adds 1%-point towards the 75% target! Every container counts!

Container Management Strategies
Improving the performance of CMS programmes

Boost the collection

Search for low-hanging fruits

Reach out to all users

Partnerships!

All agri packaging/plastics solution

Use cross-compliance!

Communication! Communication!

Improve cost-efficiency & sustainability

Minimize free-riders

Optimize logistic operations

Shared responsibility of the value chain
(in-kind contributions)

Induce packaging eco-design

Maximise recycling & recyclates quality

High-value recycling applications
(bottle-to-bottle recycling (*New!*)?)

Data! Monitor, Review & Improve

Carbon footprint (*New!*)?

Work on enabling regulations

Separate management of PPP packaging

Mandatory to Rinse, Sort & Return

Take-back obligation

Cross-compliance

Non-hazardous classification

Ban landfilling

Level playing field
(EPR, Shared Responsibility)

Clear requirements & targets for EPR schemes
– flexibility on the setup

Best Management Practices

TOOLS FOR THE RESPONSIBLE AND SUSTAINABLE MANAGEMENT OF PACKAGING FROM CROP PROTECTION PRODUCTS

Implementation of Container Management Strategies
Specific local conditions & setup strategies

CMS programmes recognised as compliant EPR scheme
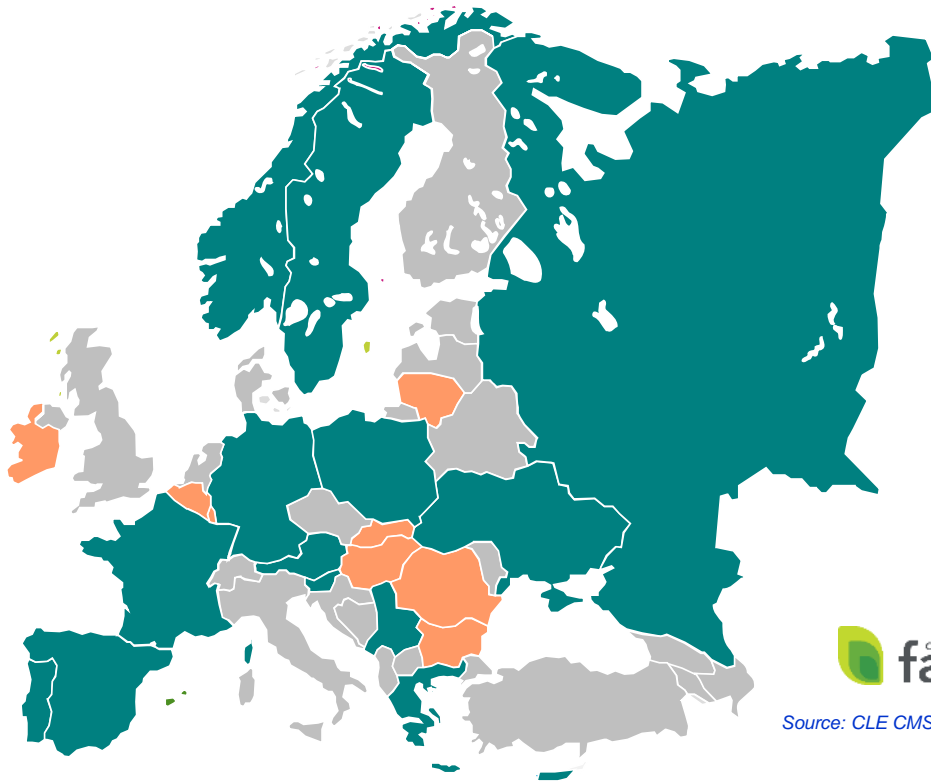
Source: CLE CMS survey 2023

- **Accredited EPR programmes**
- **Voluntary collection & recovery programmes**
- Status to be assessed / No EPR obligation on PPP packaging / Information not available

Collection via sale points
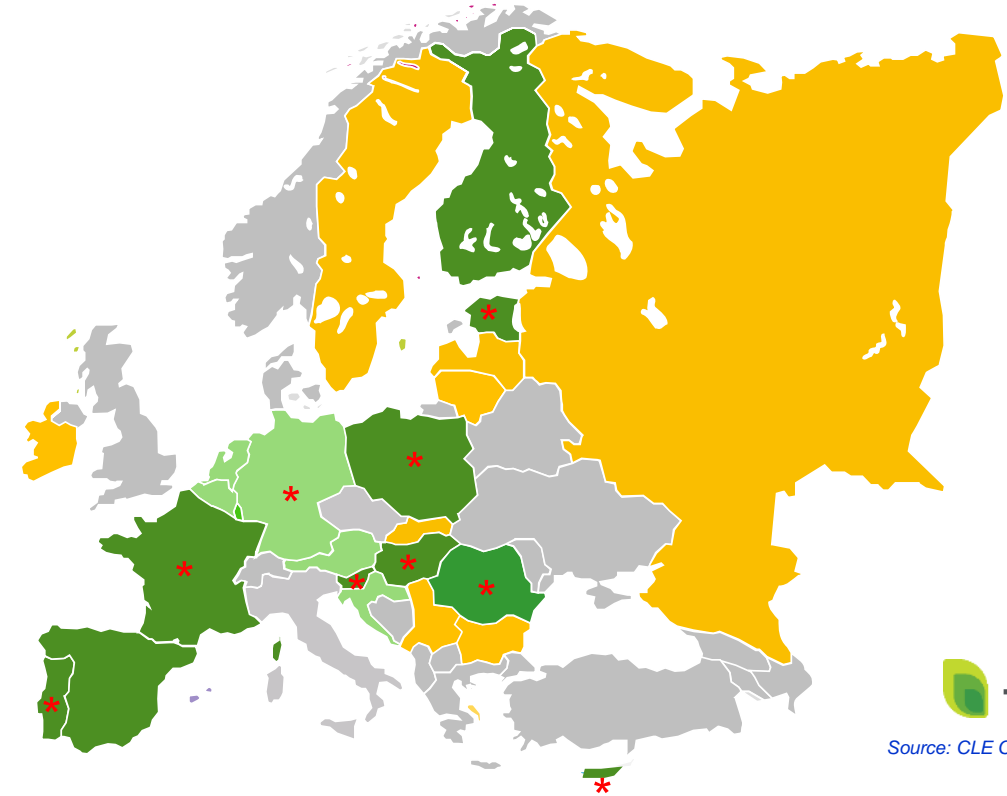
Source: CLE CMS survey 2023

- Permanent **return points** at pesticide dealers' shops
- **Collection events** organised at pesticide dealers' shops (1-2 day / year)
- Mainly **collected at the farms**
- No organised systems; Information not available
- ***** Take-back obligation for Producers/Dealers

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Implementation of Container Management Strategies

Specific local conditions & setup strategies

Country with recycling programme in place
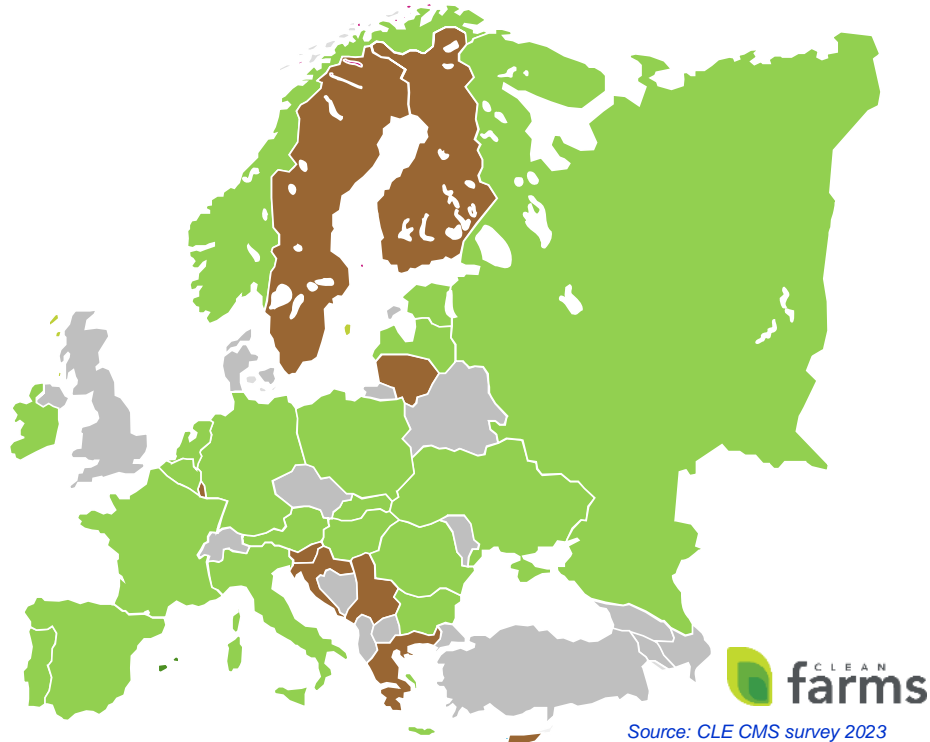
Source: CLE CMS survey 2023

Recycling programme in place for rigid plastics (HDPE)

Incineration with energy recovery

No info available

Classification of rinsed PPP packaging waste

Source: CLE CMS survey 2023
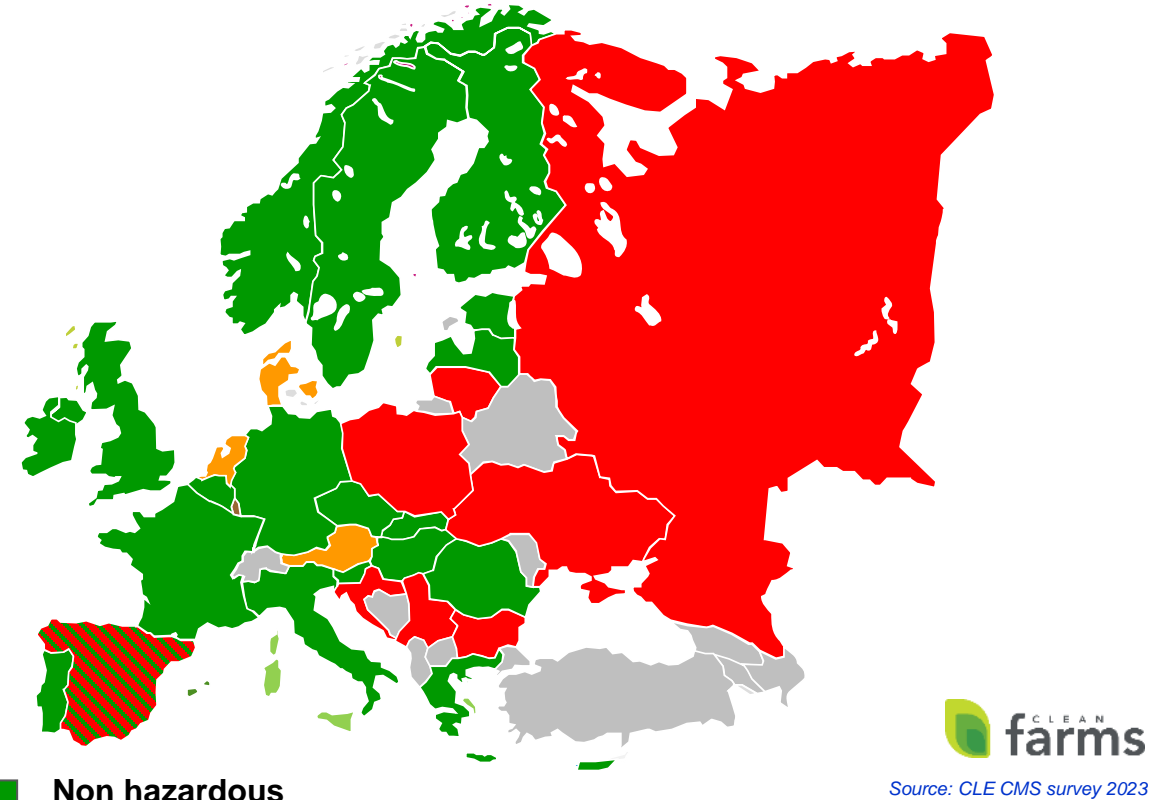
Non hazardous

Hazardous

Depends on the region (e.g. Spain)

Non-hazardous except most toxic substance

Unclear

France: ADIVALOR

=<20 l non-hazardous;

>20 l hazardous

In some countries, CMS programmes / waste operators collect the rinsed containers as hazardous waste, even if the waste regulation would allow non-hazardous classification

Implementation of Container Management Strategies
Safe recycling of materials from primary pesticide packaging

Country with **recycling programme** in place
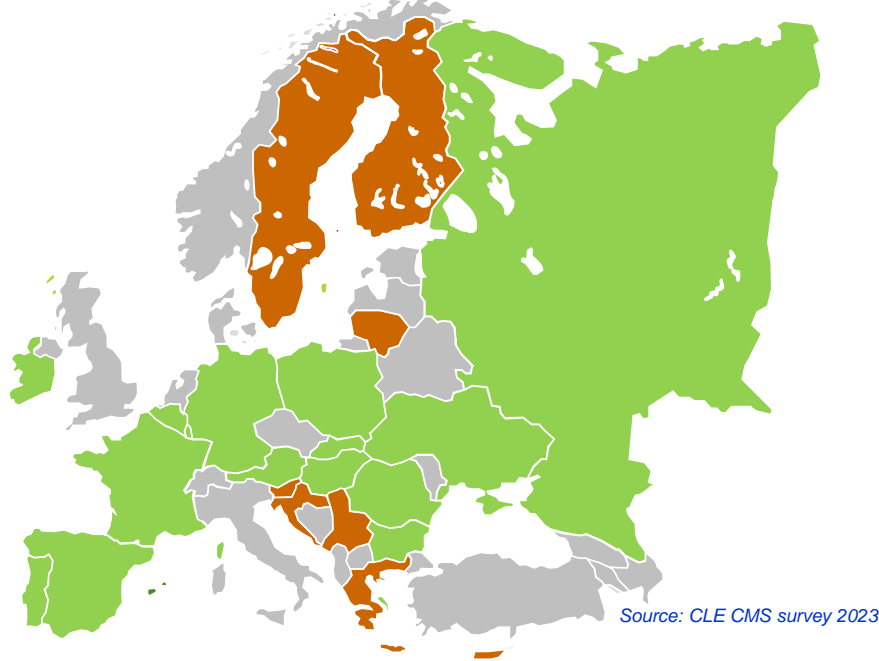
Source: CLE CMS survey 2023

Recycling programme in place for rigid plastics (HDPE)

Incineration with energy recovery

No info available

Road fence & cones
(SCAPA; RO)

Internet protection tube
(SCPP; Bulgaria)

Cable conduits twin-layers
(ADIVALOR, France)

Industry's guideline for the safe recycling of plastics (summary):

✓ Only **rinsed packaging** should be recycled

✓ Carefully select and monitor **Toll Manufacturer** (collectors, reprocessor, recyclers)

✓ **End-use applications** for recyclates selected following a **risk assessment***

✓ Ensure <u>no</u> recyclates is used for the **food, drink, pharmaceutical, toy, furniture, veterinary, pet, clothes & hobby garden** sectors!

✓ Prefer **outdoor/underground/enclosed industrial** applications

✓ **Record & Traceability system** of recycling activities in place

Plastic being recycled into unknown or untested end use applications is considered an industry risk!

*) List of "*Tested end-use applications*" available at CropLife International)