



Agriplastics in the Netherlands: Example System „ERDE“

Informatiesessie landelijke
inzameling landbouwplastics

28th of May 2024
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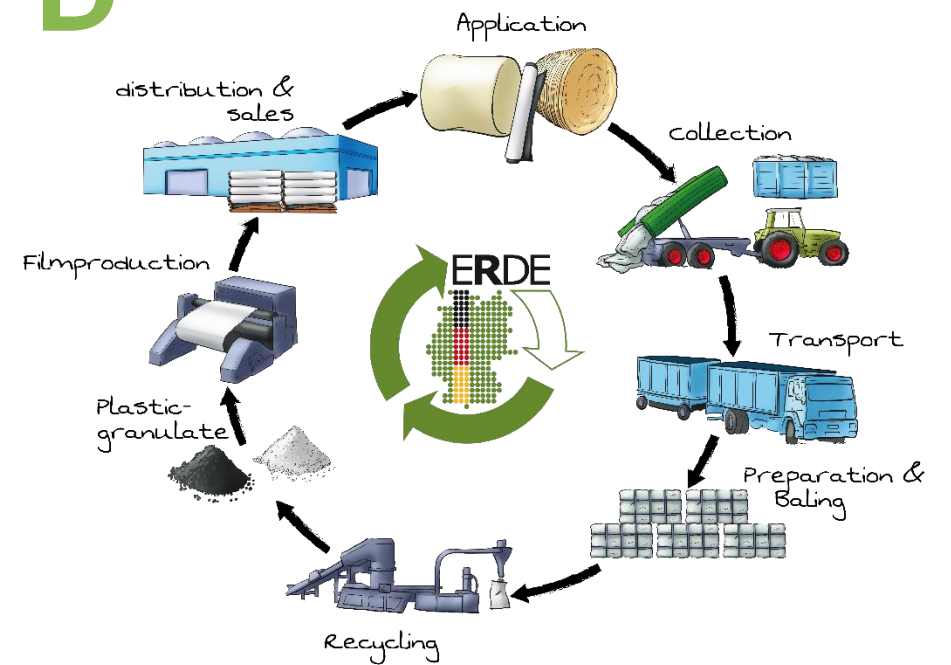


Topics

1. ERDE D and ERDE CH today
2. How does ERDE work?
3. Possible Synergies of ERDE/RIGK in the Initiative in NL

TOP 1

Current status of ERDE D





IK Industrievereinigung
Kunststoffverpackungen e.V.



Silage film:



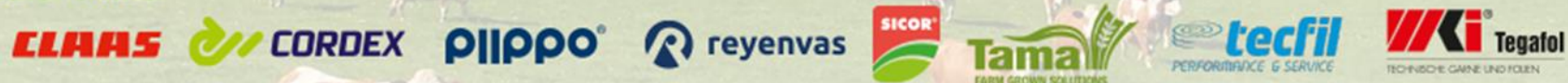
Stretch film:



Bale nets:



Baler twine:



Asparagus film:



Perforated film:



Nonwovens:



Mulching film (from 2022):

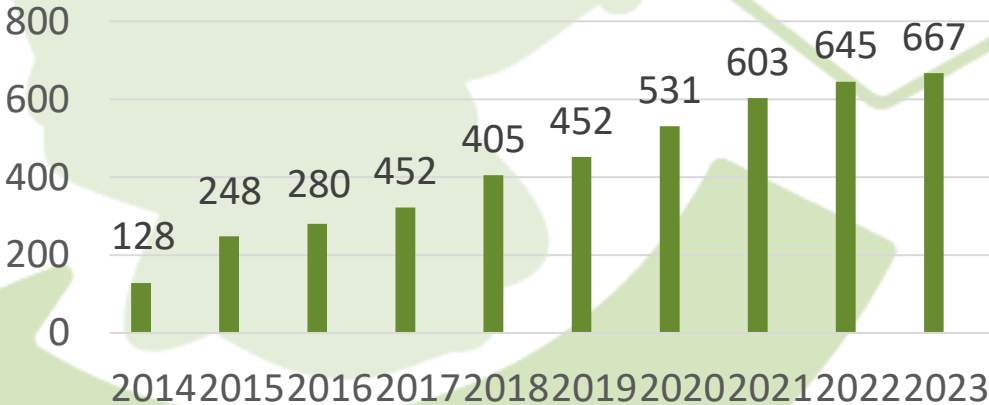


Supporting Member: European Association

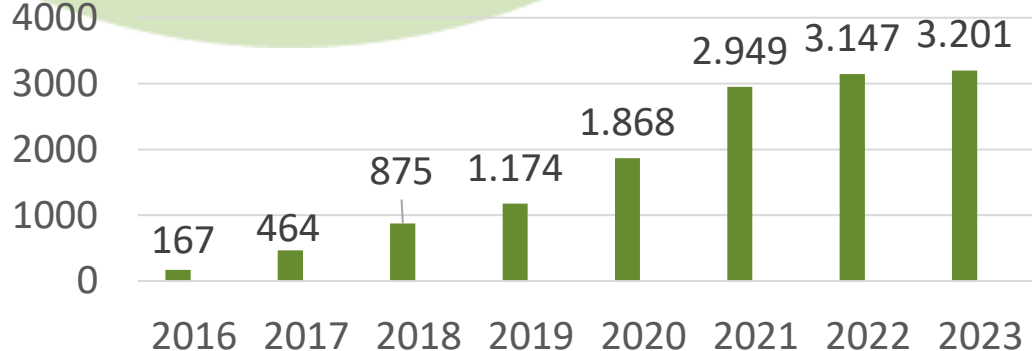
Collections 2023

Collection | Points

Development of collection points



Development of mobile collections



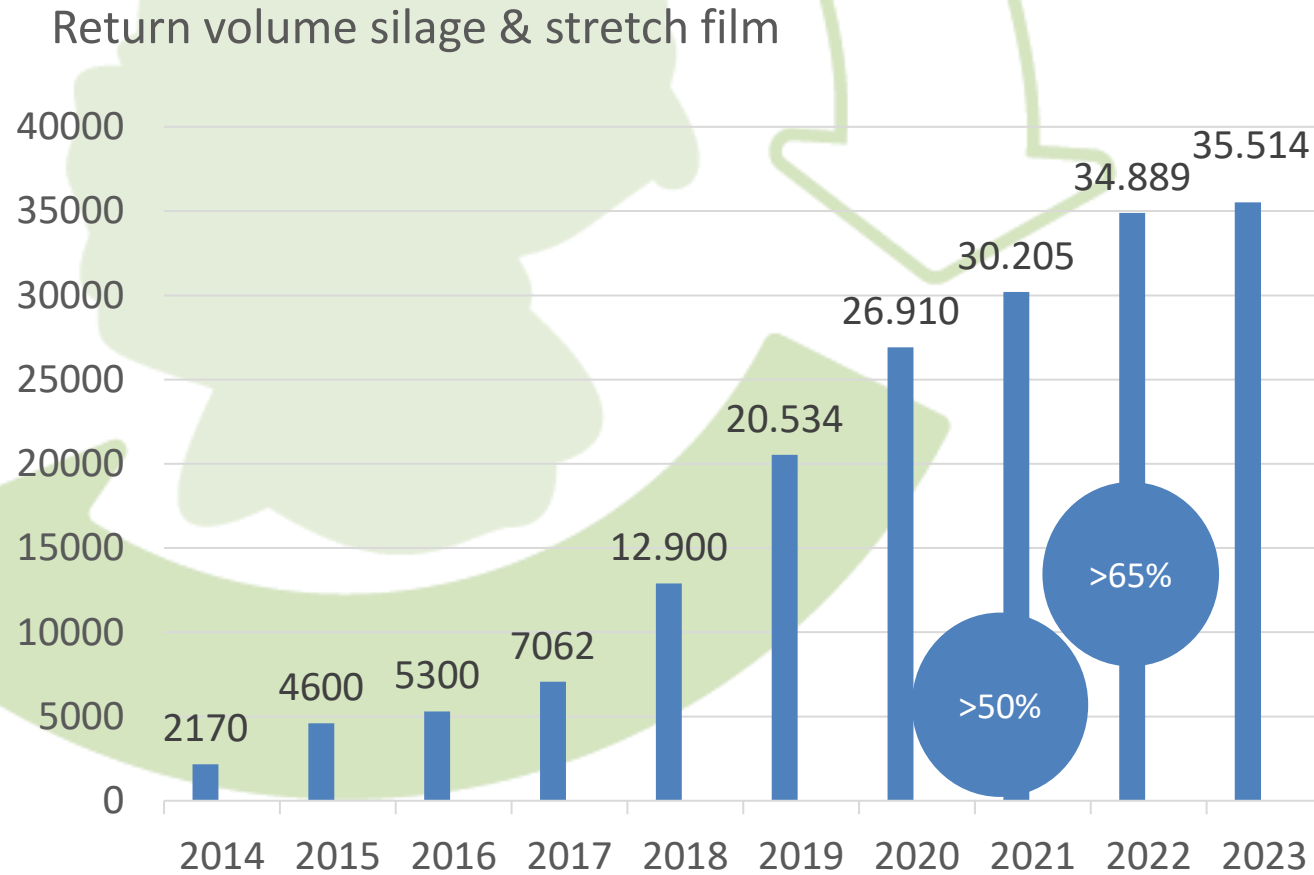
667 collection points



3201 mobile collections

Collection activities

Collection | Volumes



**Silage and stretch film:
100% material
recycling in EU**

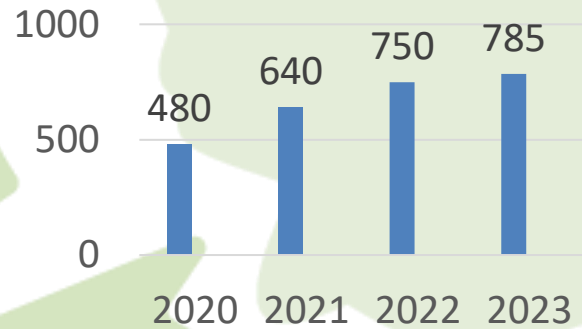


➤ In 2023 were 35.514 tons collected and completely sent to material recycling

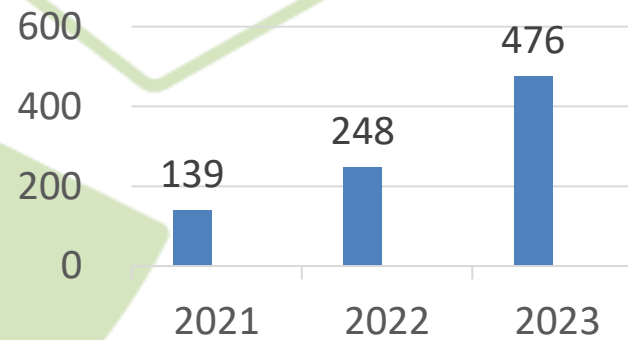
Collection Activities

Feed (and food) production

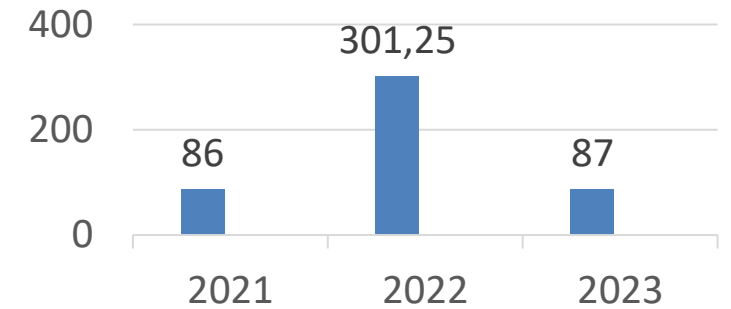
Return volumes bale nets



Return volumes baler twine



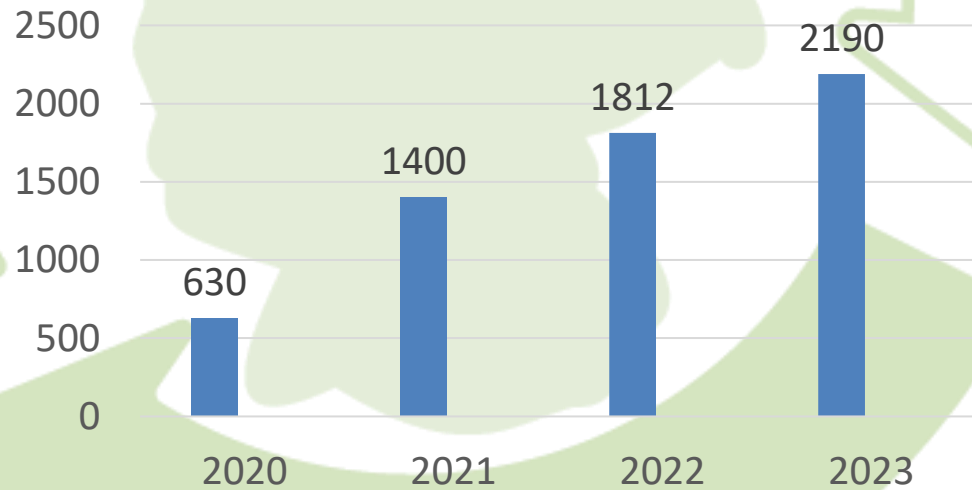
Return volumes PP non-wovens



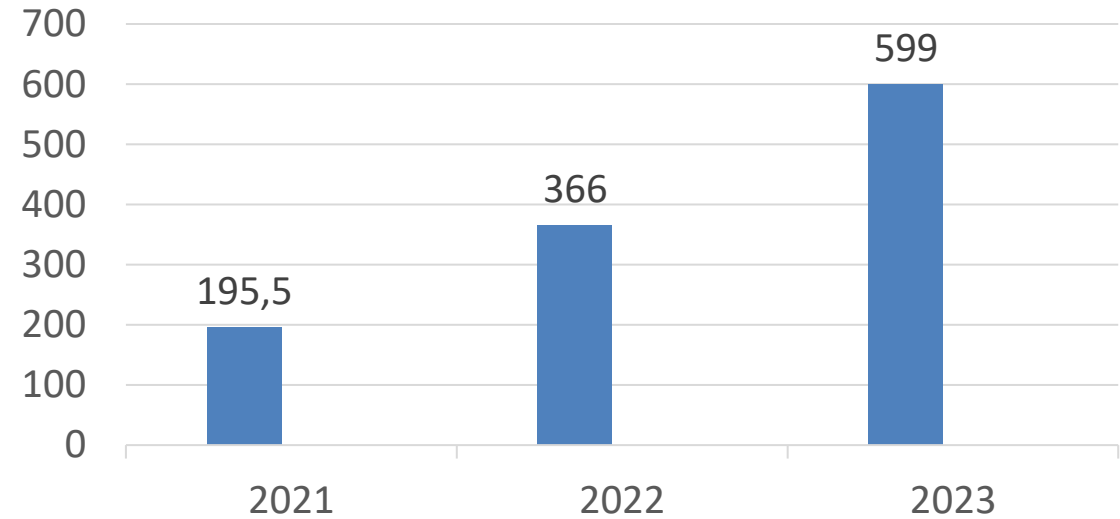
Collection Activities

Food production

Return volumes asparagus film



Return volumes perforated films



Collection Activities

Overview of other collected product groups



Mulching film: 121 tons in 2023



Greenhouse film (pilot project): 82 tons in 2023



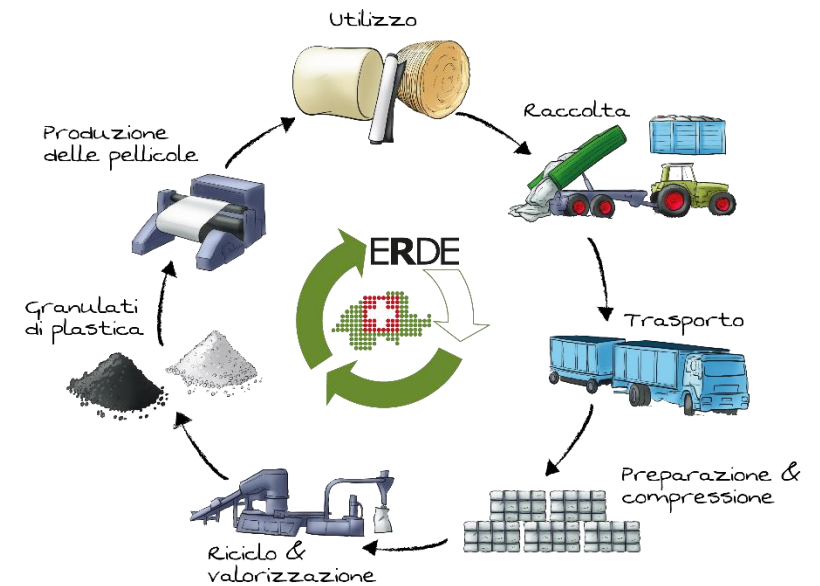
Drip tapes (pilot project): 40 tons in 2023



Hail net (pilot project): 50 tons in 2023

TOP 1

Current status of ERDE CH



Current situation

Until now 20 members:

- 11 manufacturers
- 4 important dealers in Switzerland
- 1 recycler
- RIGK and IK
- KUNSTSTOFF.swiss
- Swiss Contractors Association
- Swiss Farmers' Association



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+ KUNSTSTOFF
.SWISS

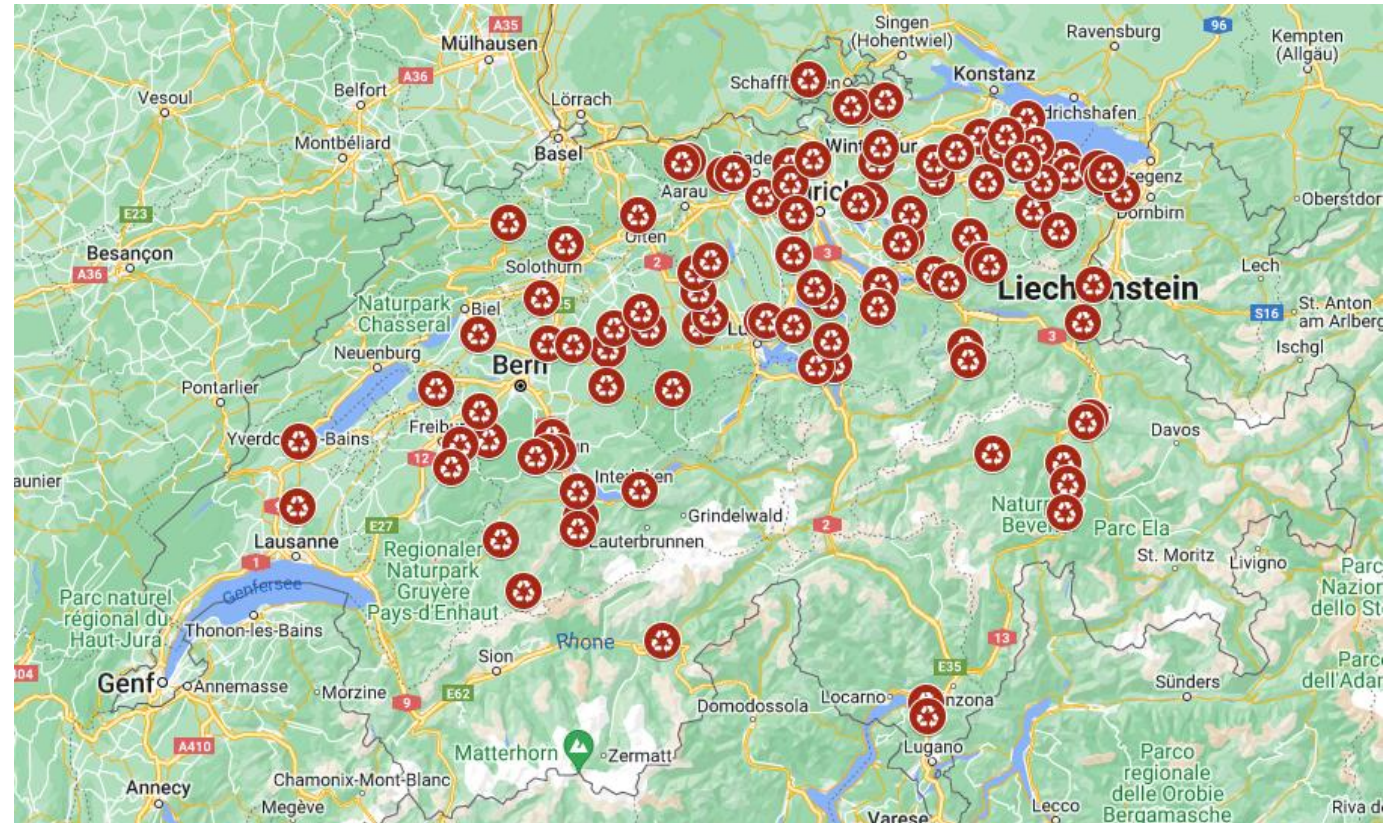
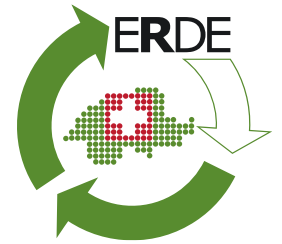
Current situation

Collection partners are:

- Distributors
- Machinery rings
- Contracting companies
- Disposal companies and recycling centers

Collection Network:

More than 110 collection points active



Collection activities so far...

- First period 2021/2022:
 - 1.820t of silage films and stretch
 - 60t of bale nets
- Second period 2022/2023:
 - 2.103t of silage films and stretch
 - 101t of bale nets
- New period: 2023/2024:
 - New fraction of baler twine added
 - Expansion of collection point network in French-speaking Switzerland and Italian-speaking Ticino

silage films and stretch:
100% material recycling





TOP 2

How does ERDE work?

ERDE

Producers

Price per ton varies per fraction



ERDE



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FÄRBER & PARTNER
STEUERBERATER • RECHTSANWALT



Recyclate

are distributed by the recycling companies on the free market



Recycling

All films collected in ERDE are 100% recycled in Europe, otherwise collection partners do not receive ERDE incentive



Collection

- Collection partners determine the prices and choose the disposer
- ERDE pays an incentive per collected and recycled ton
- This leads to attractive/marketable prices for the farmer



Farmers

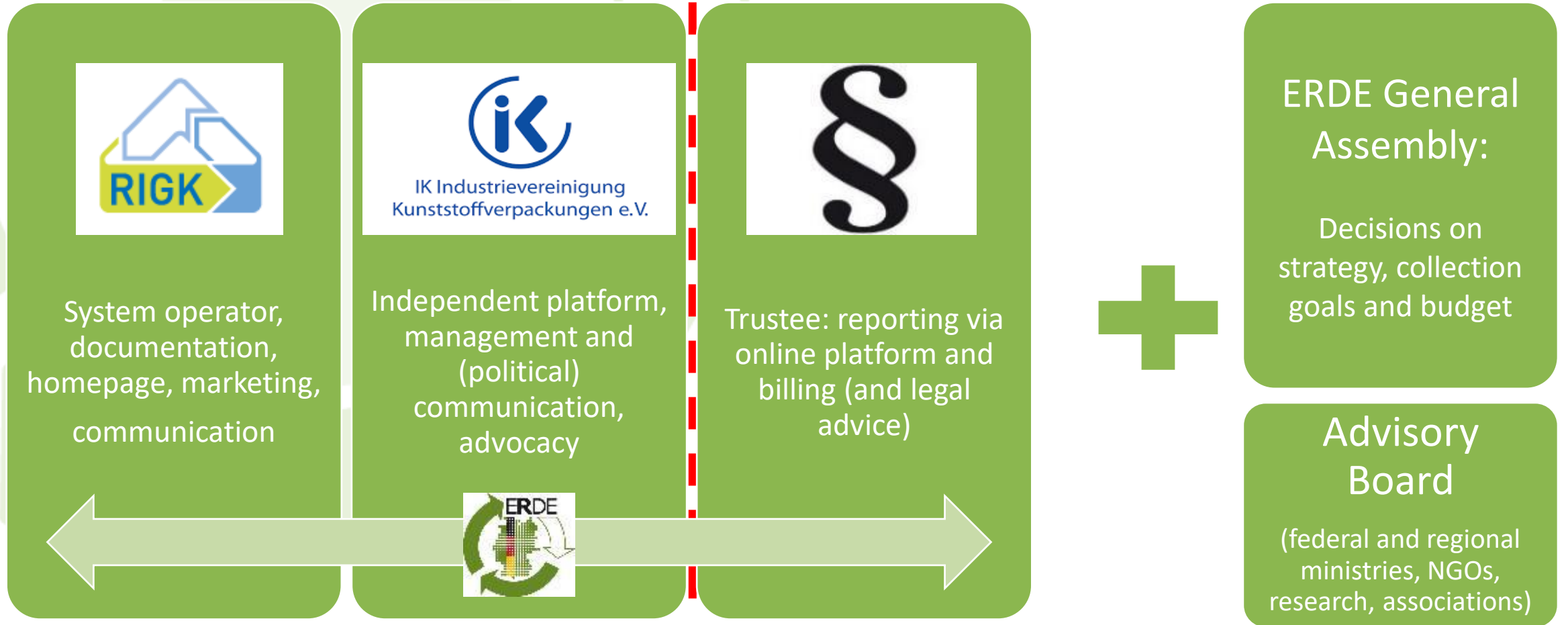
- Prepare product for delivery to collection points (cleaning & sorting)
- Bring plastics to an ERDE collection point or order containers.



Distributors



ERDE bodies



General Assembly Meetings: twice a year (March, October)
Advisory Board Meetings: once a year (May/June)

External memberships:
APE Europe BoD, CPA Agri,
ERDE Schweiz BoD

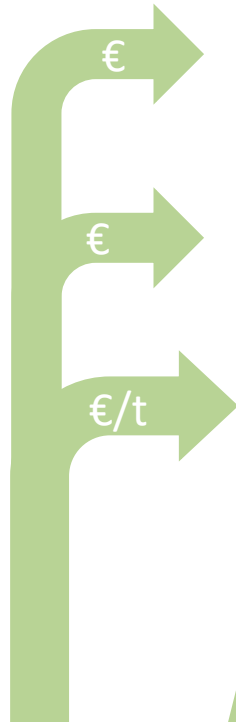


members:
producers of agri-
plastics

€/ton
eco fee

**Annual
ERDE
Budget**

Via trustee



documentation on
collection and
recycling

Marketing

Administration
 

Collection points
(~140 partners, ~660 points,
~3200 mobile collections)
• competition for collection
• Individual pricing by partners
• reduced disposal fees for farmers



Energy
recovery

Returns film
for €/t

farmers

Returns film
for €€€/t

ERDE – benefits for the whole value chain

- ERDE offers farmers in Germany a **close-by cost-effective collection infrastructure** (bring centres and mobile container collection)
- **Market-based system** that creates incentives for collection and recycling, **governed by the agri-industry** itself
- Partial cost system allows for **lower waste disposal** costs for farmers while still **incentivizing a pre-cleaning** of used film
- Option for involvement for **distributors**:
 - 100% ERDE partnership for distributors when only ERDE-licensed brands are sold
 - Full ERDE-membership for shaping the strategy of the NCS
 - Collection activity with own bring centres and support by RIGK
- **Increase in the supply of recyclates on the market** through a structured collection (>>use of recyclates in new products might be mandatory in future)
- Improves **transparency of Agri-waste streams**
- **All actors stand-out in terms of sustainability: making use of ERDE services for customers and ERDE marketing tool**
- **Voluntary self-commitment: political tool to show commitment to sustainability**





TOP 3

**Possible Synergies of ERDE/RIGK
in the Initiative in NL**

Development of system and knowledge transfer

The ERDE system is transferable and individually adaptable to national requirements and fractions to develop an Initiative in the Netherlands

- Adaption of **concept of governance** for the organization
- Incentive Model transferable to glasshouse-fractions as “loopfolie” and “anticondensdoek” as well as other fractions
- Experience in **budgeting of system costs** with an eco-fee proposal
- **Contract templates** and **internal processes** for operational implementation
- **Communication structure with manufacturers** / extension existing contract situation
- Web-based **reporting platform** for producers (quantity reporting and billing platform for manufacturers already in place for 2 countries, run by a **trustee to safeguard market information**)
- Adaption of design, preparation and conclusion of **contracts with collection partners**
- Operational **IT structure** and software conform to fulfill material flow requirements
- **Provision of recycling capacities** beyond existing local and international recyclers;
- **Constant development** towards improved valorization/recycling options with the involvement of I&D&R
- If requested: “ERDE” as a **brand and marketing tools**





Our experience after 10 years of ERDE:

If you want to sit in the driver's seat of where the topic of AgriPlastics in the Netherlands is going-

Join the Initiative!