

# 21ST CENTURY AEROSOLS

APEAL, The Association of European Producers of Steel for Packaging

**Viliam Gašpar – President**

**Alexis Van Maercke – Secretary General**



# THE REFERENCE FOR STEEL FOR PACKAGING IN EUROPE



founded in 1986, based in Brussels  
federation of the 6 major producers of steel for  
packaging in Europe



**U. S. Steel Košice, s.r.o.**  
A Subsidiary of United States Steel



thyssenkrupp

**TATA STEEL**

# SUMMARY

- How latest Circular Economy legislation means a new calculation for recycling rates
- Closing the loop on packaging recycling
- The future of steel for packaging in Europe



# ESSENTIALS OF LATEST CIRCULAR ECONOMY LEGISLATION

**The European Green Deal has set important policy goals for the sustainable transition of the packaging value chain in Europe**

# EUROPEAN GREEN DEAL AIMS FOR A MORE CIRCULAR ECONOMY THAT KEEPS RESOURCES IN USE

- Achieving Climate Neutrality
- Circular Economy Action Plan 2.0 (CEAP)
  - Packaging & Packaging Waste Directive (PPWD)



Source: European Commission

# PACKAGING & PACKAGING WASTE REVIEW

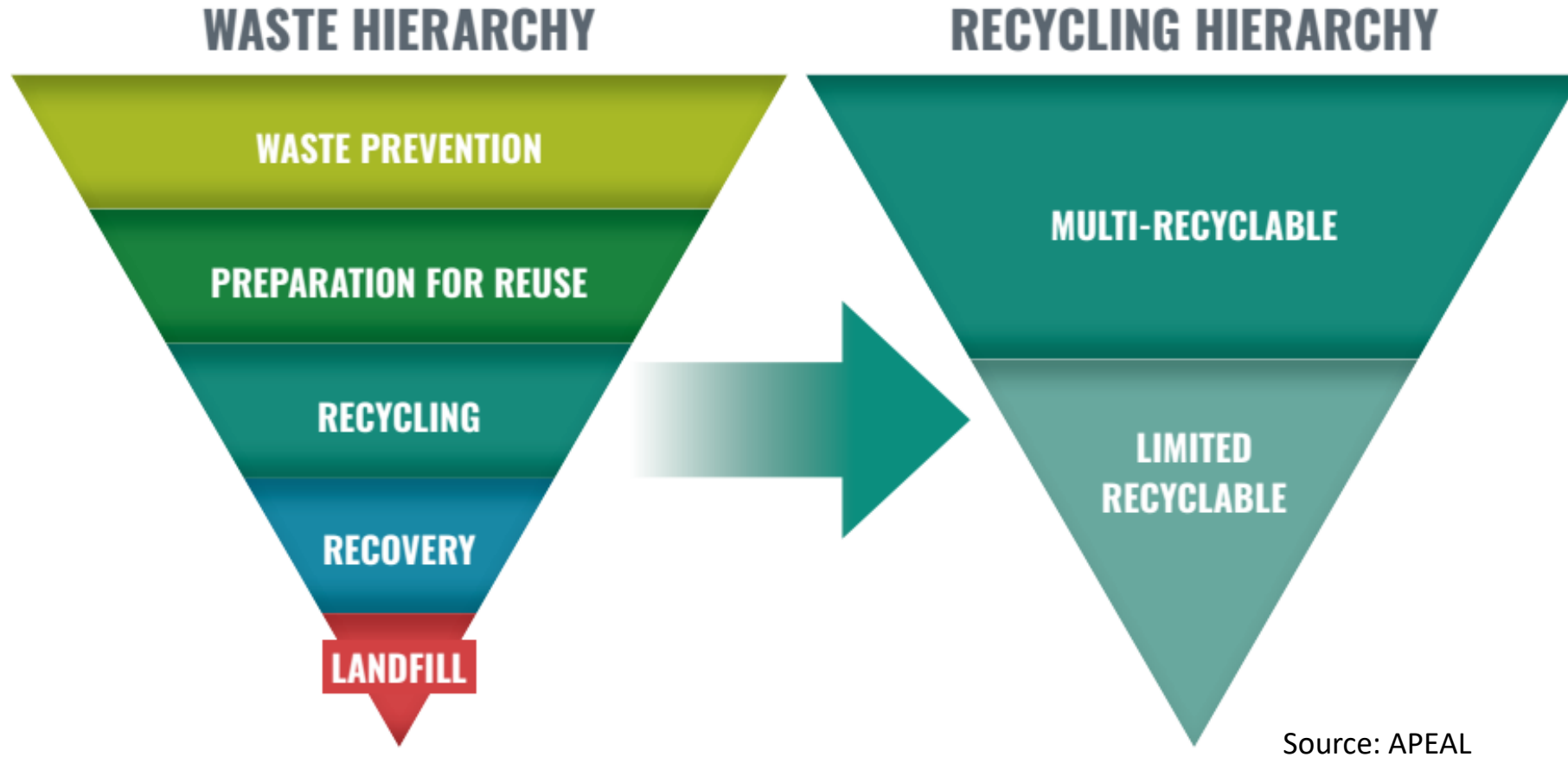
Reinforce the mandatory Essential Requirements (ER) for packaging:

- reducing (over)packaging and packaging waste, including by setting targets and other waste prevention measures
- driving design for re-use and recyclability of packaging
- reducing the complexity of packaging materials, including number of materials and polymers used





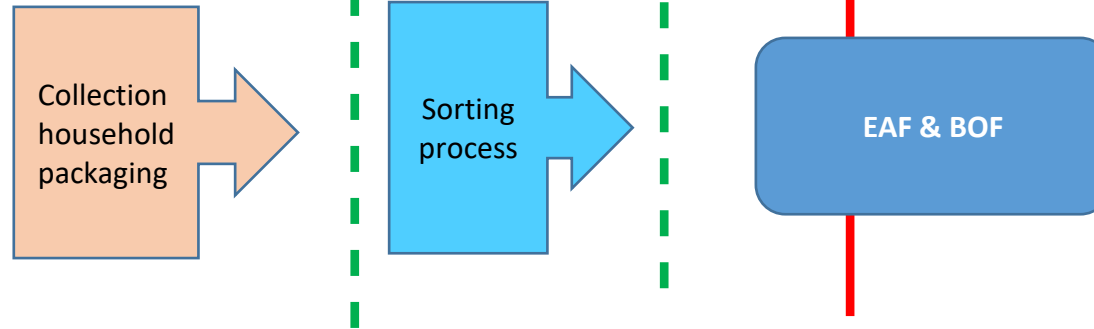
# REVIEW OF WFD



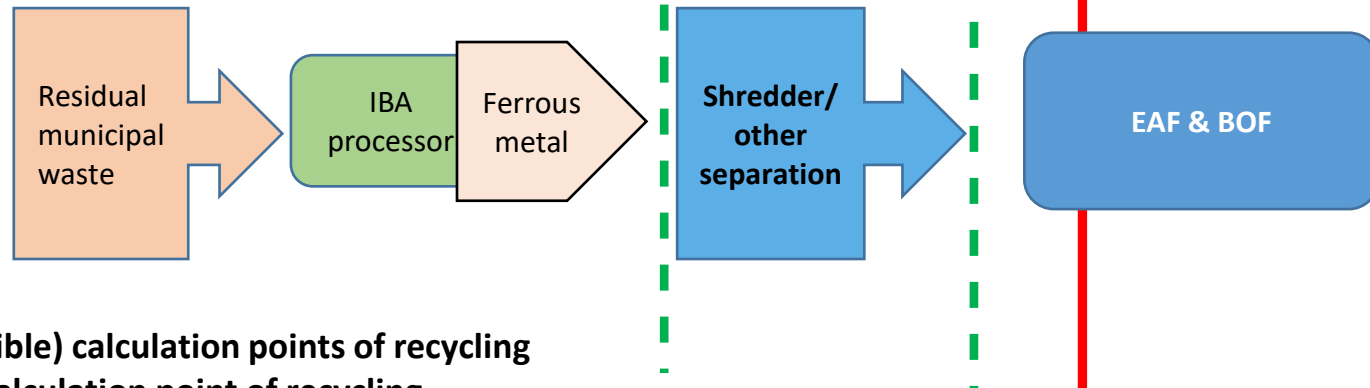
Source: APEAL

# THIS YEAR THE PACKAGING INDUSTRY IS TRANSITIONING TO NEW EU CALCULATION POINT OF RECYCLING

**Route 1:**  
Separate collection/  
sorting centers



**Route 2:**  
Incinerator  
Bottom ash



- - - Former (possible) calculation points of recycling
- New (fixed) calculation point of recycling

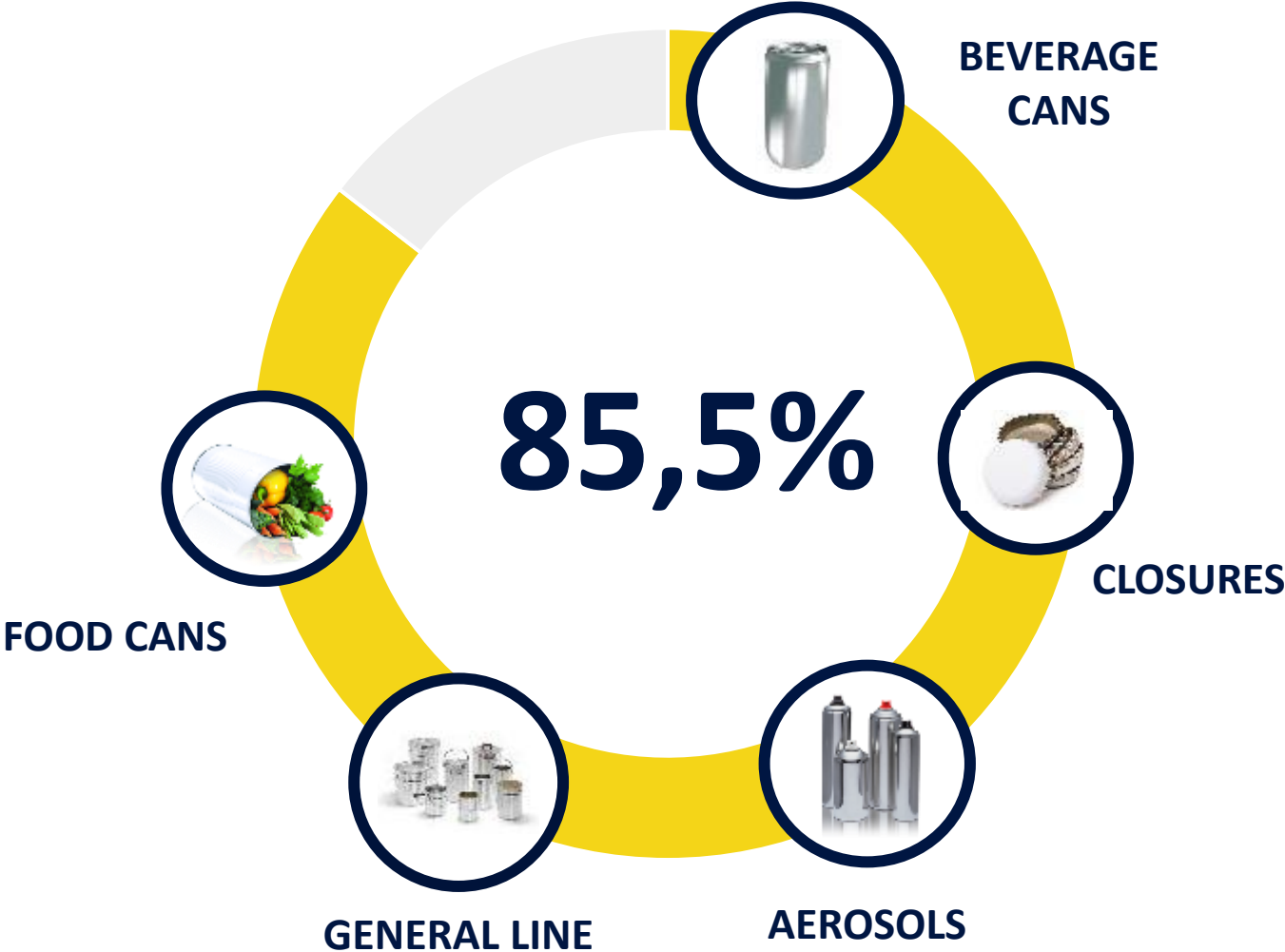


# ALL MATERIALS WILL BE IMPACTED



# **STEEL PACKAGING RECYCLING HAS BEEN CONSTANTLY INCREASING SINCE 1991**

# AVERAGE STEEL RECYCLING RATE IN EUROPE 2020



(EU 27 + 3)  
Source: APEAL

INCREASING  
NUMBER OF  
COUNTRIES  
AT +90%  
RECYCLING  
RATE

# STEEL PACKAGING RECYCLING IN EUROPE 2020



**METAL RECYCLING DATA**  
Austria, Belgium, Denmark, Estonia, Hungary, Ireland, Latvia, Malta, Netherlands, Portugal, Slovakia, Slovenia.

**2019 LATEST OFFICIAL DATA**  
Austria, Denmark, Hungary, Ireland, Malta, Slovenia.

**CRITICAL REVIEW**  
Economia Research & Consulting Ltd.

**SOURCE**  
Official member states figures and PRO's

# WHY IS STEEL IS A MODEL OF CIRCULAR ECONOMY?

- recycling integrated into product design
- material that can be easily collected and sorted
- material parts that can be easily separated or require no separation
- increasing demand for steel scrap
- recycling process that saves resources and energy
- 500+ recycling plants across Europe



# MORE CAN BE DONE = OUR 2025 RECYCLING VISION





# FROM VISION TO REALITY

6 policy recommendations  
to fully close the loop on  
steel packaging





# 1. OPTIMISED SEPARATE COLLECTION

- the way in which a household's steel packaging is collected and sorted has a direct impact upon the material's recycling performance
- if all post-consumer steel packaging were to be collected as a mono-waste stream it would be of very high quality



## 2. PRE-TREATMENT PRIOR TO INCINERATION

- state-of-the art pre-treatment processes, including magnets, yield a higher-quality input to recycling compared to recovery via bottom ash treatment
- if the separated steel packaging waste follows one or more treatment phases, it is then used as an input for recycling operators, replacing virgin material in the manufacture of new steel products.





### 3. NO RECYCLABLE PACKAGING TO LANDFILL

- all packaging that can be recycled should be diverted from landfill
- permanent materials such as steel recycle over and over again with no loss of properties and are too valuable a resource to be lost
- steel already has a well-established market – 100% of recycled steel is used to make new steel products



## 4. SECOND OVERBAND IN SORTING PLANTS

- collection, sorting and recycling of steel caps, ends and closures is estimated to be below EU steel packaging recycling average of 85,5%
- low awareness among citizens and combined with inadequate sorting facilities
- a second overband to capture small steel items would improve recycling rates



Small sized items can fall through trommel holes



# 5. DEFINED QUALITY REQUIREMENTS

- steel is a permanent material that can be infinitely recycled, neither the collection nor the sorting processes have any impact on its inherent properties
- collecting & sorting processes do have an impact on the quality and quantity of the collected and sorted steel scrap
- high-quality recycling is only possible with high-quality input to recycling
- defining quality requirements at each step of the process can help to ensure high-quality



# 6. CONSUMER INVOLVEMENT

- recycling starts at home
- empty steel aerosols can be collected alongside other items of steel packaging
- having the right bin = **infrastructure**
- choosing the right bin = **education**

**PLÁSTICO E METAL**

sacos, frascos de champô e detergentes, garrafas de água, sumos e óleos alimentares, esmólvite, embalagens de loquato, embalagens de leite, sumo e vinhos, latas de bebidas e conservas, tabuleiros de alumínio, aerossóis.

**NÃO DEPOSITAR**

garrações de combustível, baldes, cassetes de vídeo, canetas, cd e dvd, rolhas de cortiça, talheres de plástico, plásticos não embalagem.

electrodomésticos, pilhas e baterias, tachos e panelas, ferramentas, talheres de metal.

**VIDRO**

garrafas de bebidas e azeite, boiões de conservas e doces, frascos de perfume e cosmética.

**NÃO DEPOSITAR**

pratos, materiais de construção civil, janelas, vidraças, espelhos, lâmpadas, chávenas, jarras, cristal, copos, embalagens de medicamentos.

**PAPEL E CARTÃO**

caixas de cartão, sacos de papel, papel de escrita e envelopes, revistas e jornais, caixas de ovos.

**NÃO DEPOSITAR**

papel autocolante, sacos de cimento, papel plastificado, toalhetes e fraldas, papel de alumínio, lenços de papel sujos, embalagens de cartão com gordura como caixas de pizza, papel de cozinha e guardanapos sujos, embalagens de produtos químicos.

**Reciclar é dar e receber**

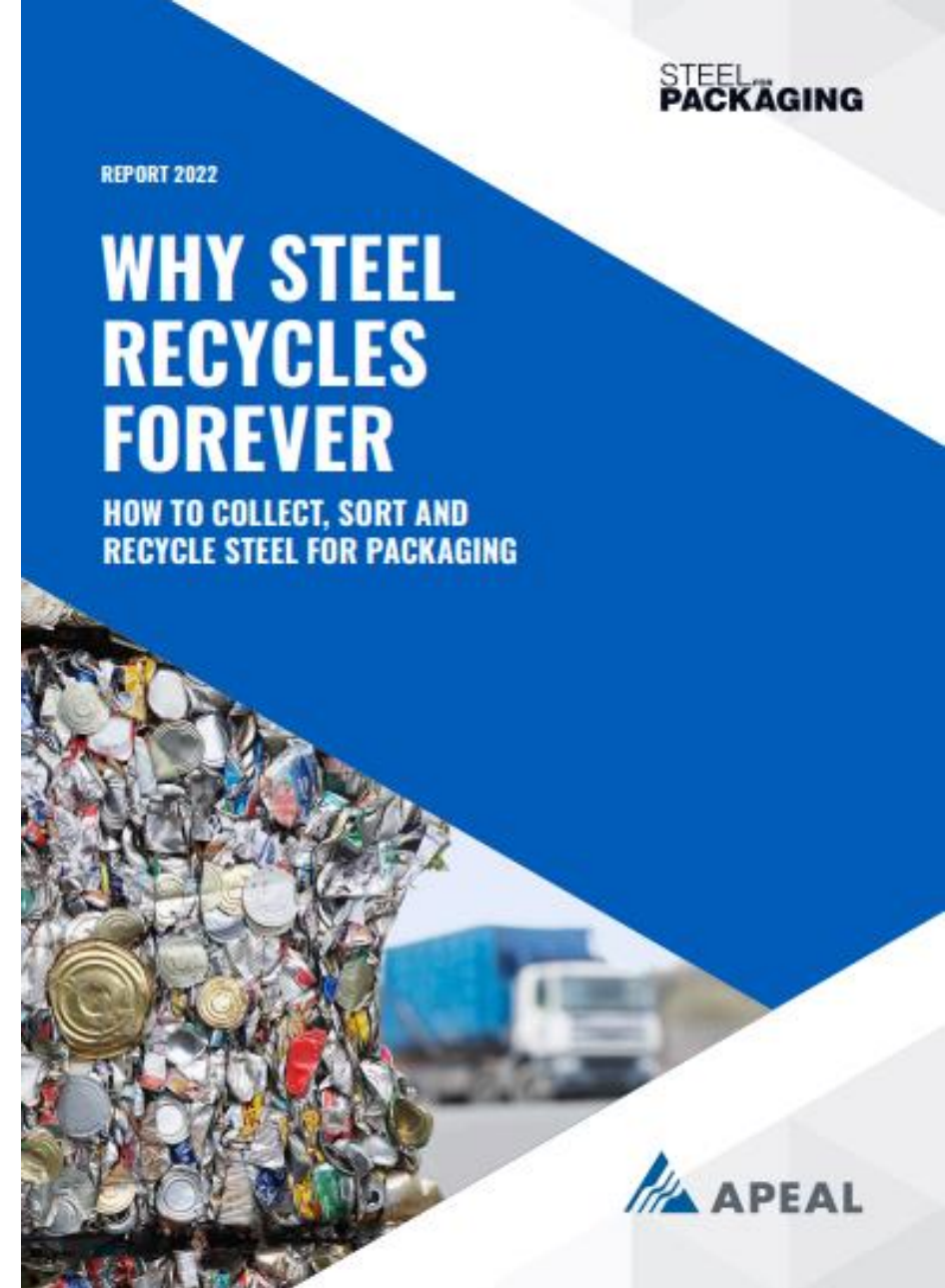
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# **INNOVATING FOR THE 21<sup>ST</sup> CENTURY**

**A new innovative tinplate passivation system developed in Europe by APEAL's members - Chromium Free Passivation Alternative (CFPA)**

# INNOVATING FOR THE 21<sup>ST</sup> CENTURY

- CFPA is **100 percent hexavalent chromium-free**
- CFPA offers the same functionality and compliance as chromium-based passivation systems
  - Stabilisation of tin oxide in a similar manner to chromium passivation ensuring the desired product performance.

**THE TIME TO  
ACT IS NOW!**



CFPA Passivated material is commercially available for both trials and full production

Full support is offered to help can-makers transition to this new, innovative development

# FOR MORE INFORMATION ABOUT STEEL FOR PACKAGING



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[stahl-fuer-verpackungen.de](https://stahl-fuer-verpackungen.de)



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