

#### **APEAL IS THE REFERENCE** FOR STEEL FOR PACKAGING IN EUROPE



#### Founded in 1986

Federation of the 4 major producers of steel for packaging in Europe









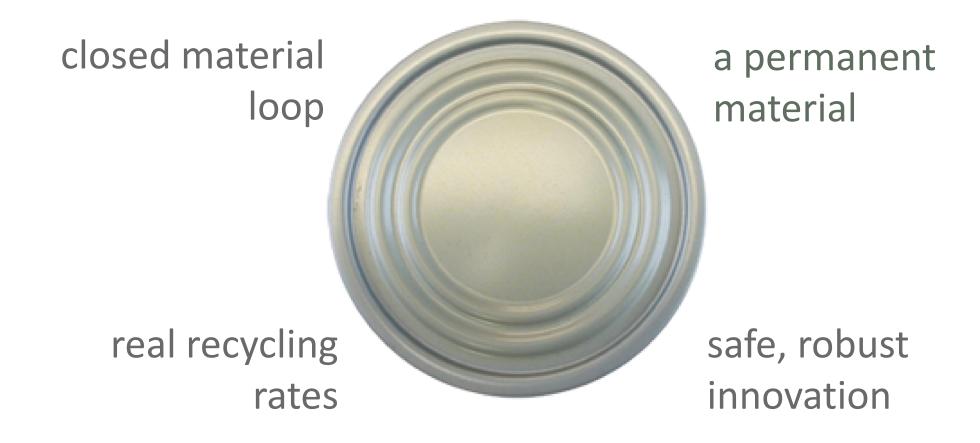


STEEL FOR
PACKAGING IS A
TRUE PIONEER
OF CIRCULAR
ECONOMY





#### A MATERIAL THAT IS CIRCULAR BY NATURE



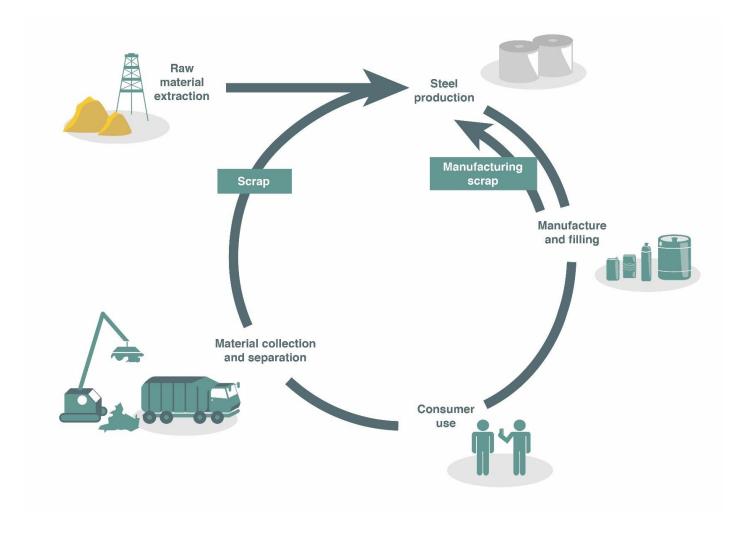


#### A MATERIAL THAT IS CIRCULAR BY NATURE





#### STEEL'S CLOSED MATERIAL LOOP IS CIRCULAR BY DESIGN





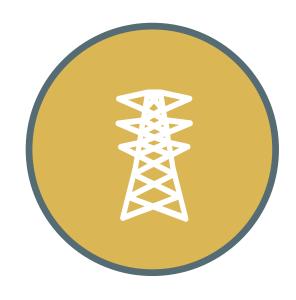
#### A CLOSED MATERIAL LOOP SAVES RESOURCES



**MATERIALS** 

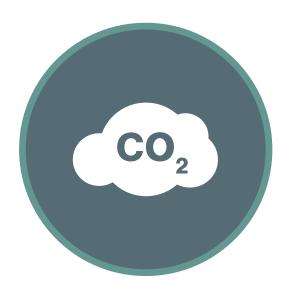
each item of recycled steel packaging saves

2x its weight in raw materials \*



**ENERGY** 

using recycled steel saves up to 70% energy \*



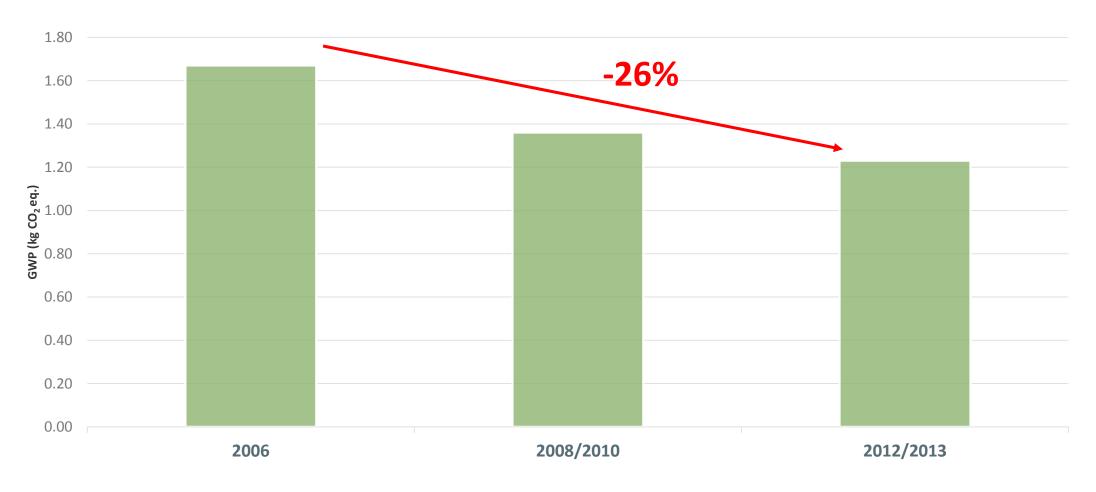
**EMISSIONS** 

each item of recycled steel packaging saves over 1,5 times its weight in CO<sub>2\*</sub>

\* Source Thinkstep LCI for APEAL



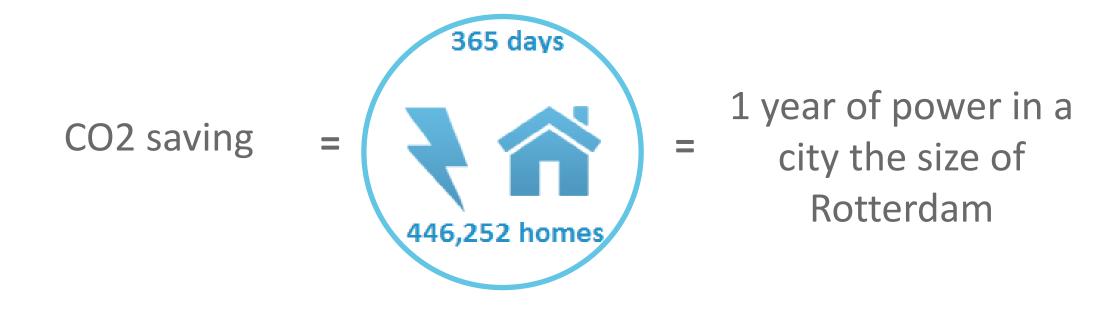
#### STEEL IS CONSTANTLY DECREASING CARBON FOOTPRINT



Source: APEAL

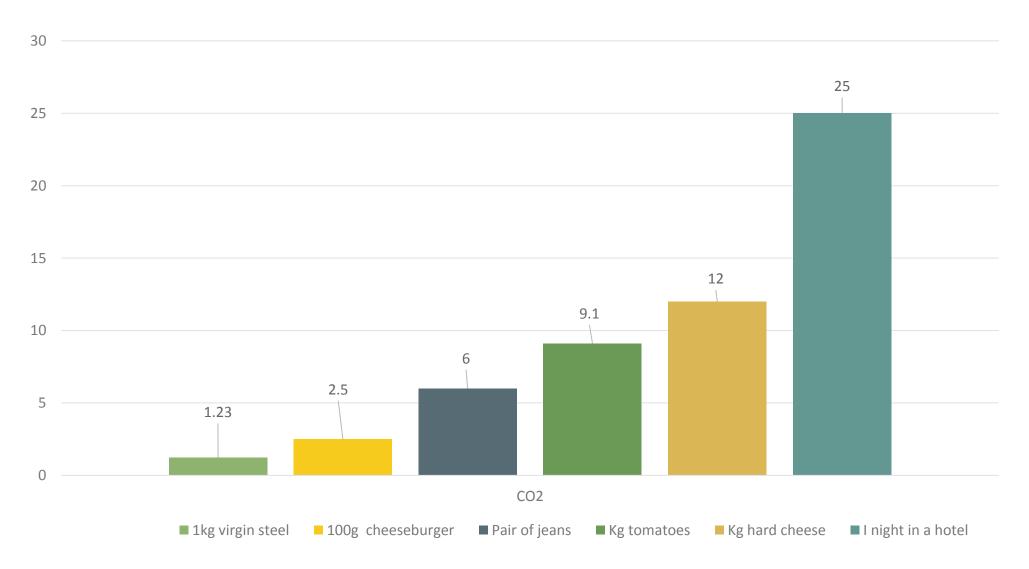


#### **ENVIRONMENTAL IMPACT OF -26% GWP?**





#### CARBON FOOTPRINT IN PERSPECTIVE



Source: APEAL LCI data, How bad are bananas, Mike Berners Lee

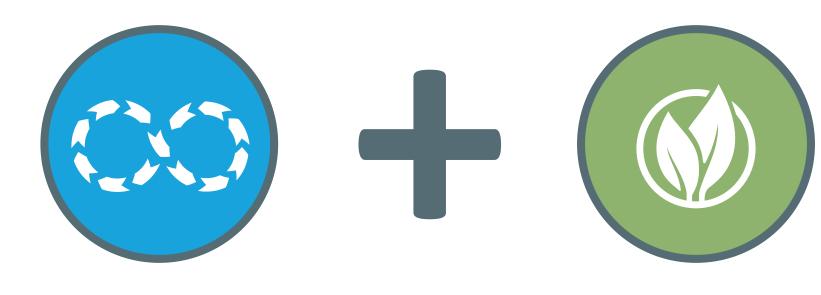


#### A MATERIAL THAT IS CIRCULAR BY NATURE



a permanent material

#### JUST IMAGINE...



... a material that can be recycled forever

... contributes to sustainable development



#### PERMANENT MATERIALS RECYCLE FOREVER

- permanent materials are used, not consumed
- they can be recycled, over and over again, without loss of properties = multiple recycling
- multiple recycling is true circularity





#### WORLDSTEEL ESTIMATES THAT

# 75% of steel products ever made are still in use today



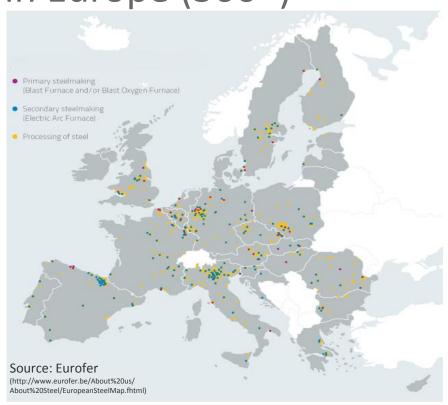
#### A MATERIAL THAT IS CIRCULAR BY NATURE





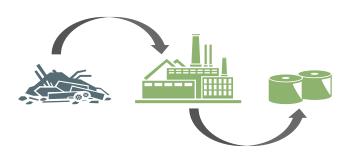
#### STEEL IS EASY AND ECONOMICAL TO RECYCLE

## Wide recycling network in Europe (500+)



Every steel plant in Europe is already a recycling plant

Steel scrap is needed for the manufacture of new steel



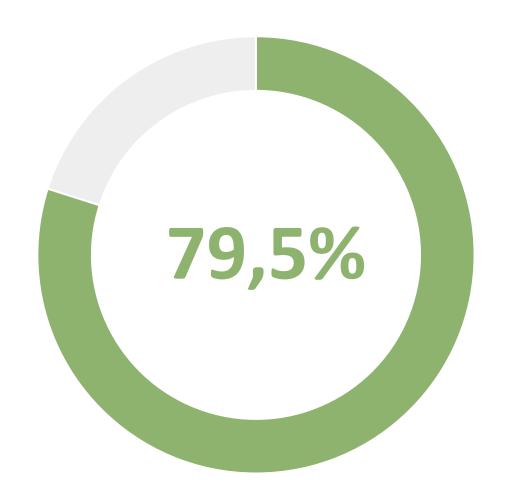


#### INHERENT PROPERTIES ALLOW EASY & EFFICIENT SORTING





#### CONTRIBUTING TO HIGH, REAL RECYCLING RATES

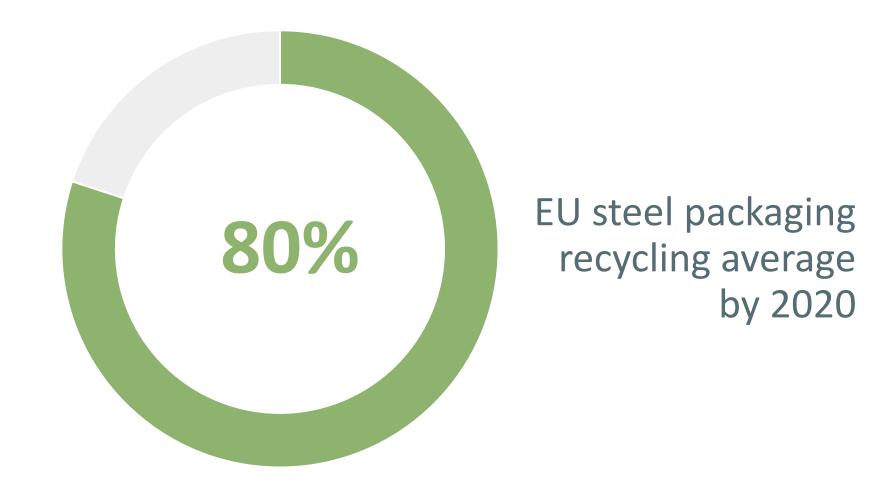


# EU steel packaging recycling rate 2016

Source: APEAL



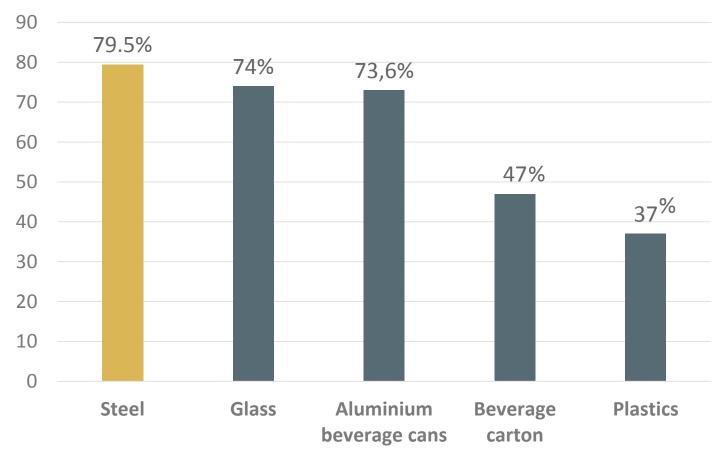
#### ALMOST HITTING OUR INDUSTRY OBJECTIVE - EARLY





#### LEADING OTHER PACKAGING MATERIALS IN EUROPE

recycling rates of main packaging materials in 2016 (EU 28+2)

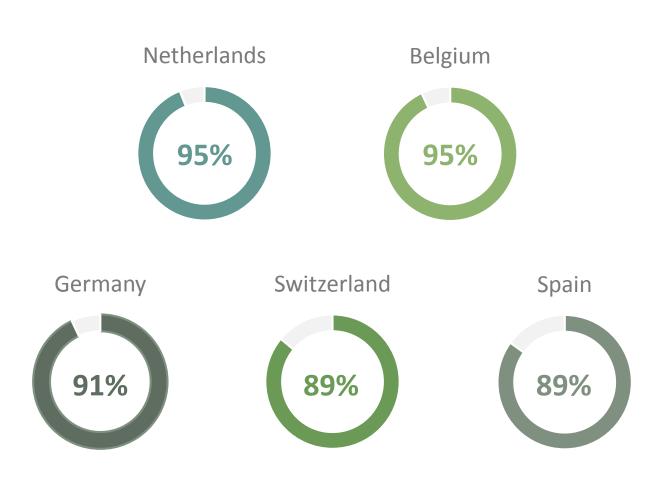


Source: Industry experts – APEAL, ACE (2016 data), FEVE, EA (2015 data); Eurostat



### BEST PRACTICES SHOW THAT **HIGHER RECYCLING IS POSSIBLE**

top 5 EU steel packaging recyclers recycle an average over 90% today.





#### SHARING BEST PRACTICES IS KEY



- launched 2018
- reference point to learn more about a real and successful recycling story
- increasing recycling requires a holistic approach



#### A TRADITIONAL MATERIAL THAT IS CIRCULAR BY NATURE





#### FRONT END - DELIVERING THINNER STEEL GRADES FOR CANS



425 ml food cans are 29% thinner than 30 years ago



#### JUST ONE EXAMPLE...

Less material use, just as strong

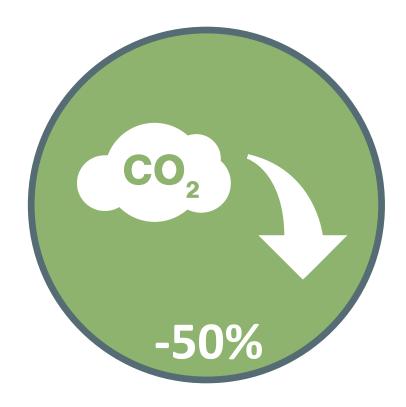
can wall 0.13mm -15% material -15% water saving







#### REDUCING ENERGY USE AND EMISSIONS



CO<sub>2</sub> emissions in production are50% lower than 40 yrs ago



**Energy consumption** is **60% lower** than 50 yrs ago

Source worldsteel



#### BACK END – ENGAGING CONSUMERS WITH RECYCLING

a visual link with consumers





STEEL













**METAL** 

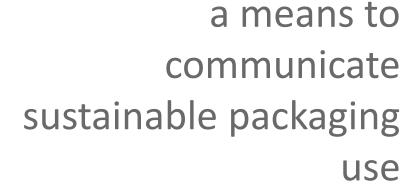






















#### DELIVERING INNOVATION POTENTIAL IN

design,
communication,
logistics



#### INSPIRATIONAL DESIGNS



TO SECURE SECURITY SE

microwavability



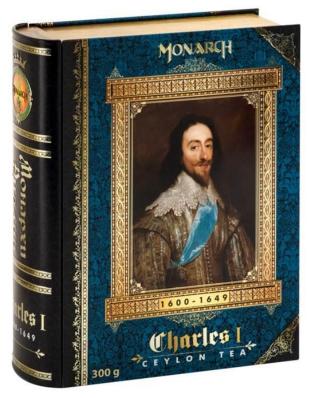
high vacuum sealing

ease of use

Source: The Canmaker



#### INSPIRATIONAL GRAPHICS



high-end lithography



embossing & printing



holographic effects



#### LOGISTICS & SUPPLY CHAIN FEATURES







security



handling



Source: The Canmaker, Metal Packaging Europe, STEEL FOR
PACKAGING,
MODEL
MATERIAL FOR A
CIRCULAR
ECONOMY...



...PACKAGING
MATERIAL FOR
THE 21ST
CENTURY

#### THANK YOU



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by an Association with a Secretariat with 10 or less people

