



LIFE CYCLE ASSESSMENT



REAL CIRCULARITY DRIVES A SUSTAINABLE FUTURE

It's time to change the way we think about packaging. We must examine the long-term impact of the choices we make. And we need to use materials that can be – and actually are – used again and again. That will put us on the path to Real Circularity. And that's how we rebuild our economy and tackle some of the biggest environmental challenges we face.

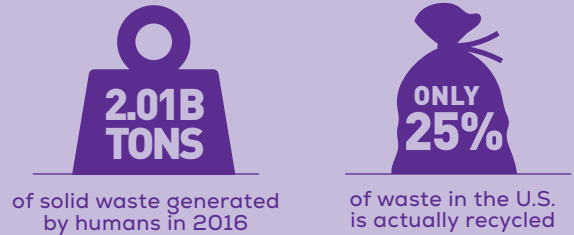
CHALLENGE

A GLOBAL PACKAGING POLLUTION CRISIS

Around the world

Humans generated **2.01B** tons of solid waste in 2016

Packaging is responsible for **50-70%** of the world's plastic pollution



SOLUTION

CIRCULAR MATERIALS THAT BENEFIT THE PLANET



of all aluminum ever produced is still in use



of recycled cans are turned into new cans

In the U.S.

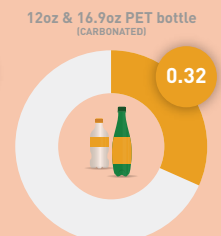
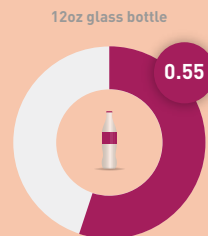
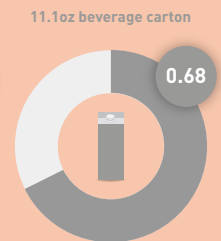
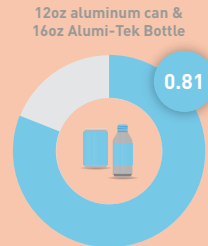
Aluminum beverage cans contain **73%** recycled content

50% of aluminum cans are collected for recycling, compared to **41%** of glass bottles, **29%** of PET bottles and **26%** of cartons

A new comparative Life-Cycle Assessment (LCA) developed by Sphera is revealing deeper insights about the circularity of common single-use packaging choices.

Infinitely recyclable with high recycled content and higher recycling rates,

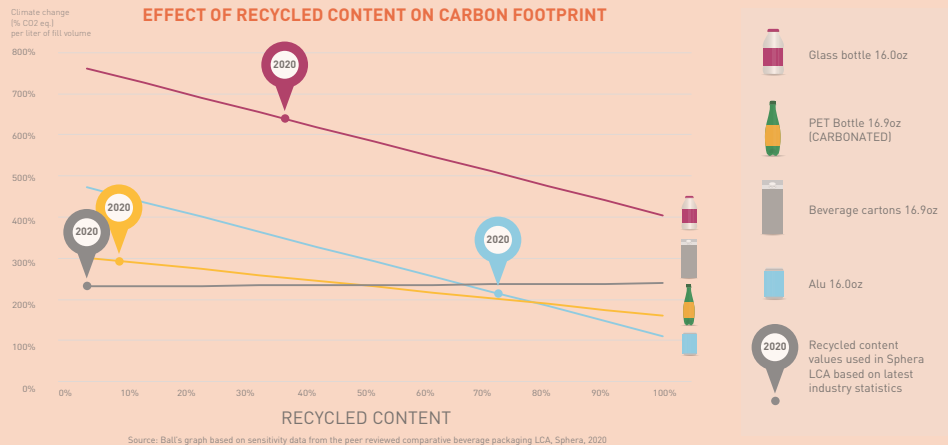
ALUMINUM PACKAGING HAS THE HIGHEST MCI SCORE



The Material Circularity Indicator (MCI) methodology uses a scale of 0 to 1, with 1 being a perfectly circular product. MCI includes non-recycled renewables fibres as circular. Other methodologies do not.

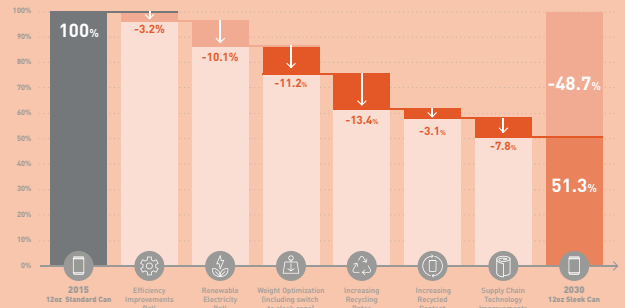
WE CAN AND MUST IMPROVE THE CARBON FOOTPRINT OF PACKAGING

Increasing recycling could dramatically reduce the carbon footprint of cans and glass bottles (Less so for plastic or cartons)



Increasing renewable energy use in manufacturing, combined with increases in lightweighting and recycled content, could help cut the carbon footprint of cans **49%** by 2030

49%
reduction in cans' carbon footprint achievable by 2030

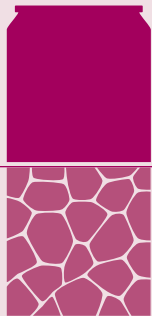


IMPACT

A BOOST TO THE ECONOMY

Recycling aluminum generates **50%** of the average revenue from recycled materials at Materials Recovery Facilities (MRFs) – more than all other substrates combined

In 2010, the revenue from aluminum recycling supported more than 250,000 jobs nationwide

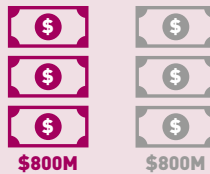


50%

of revenue from recycled materials is from Aluminum

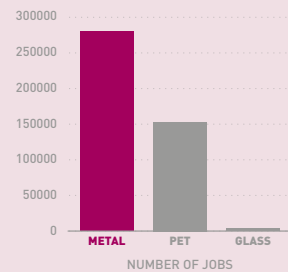
INCREASED ECONOMIC IMPACT

45 billion cans were recycled in 2019 and generated **\$800M**. That is **only half** of available cans, leaving **\$800M** in the trash



INCREASED SOCIAL IMPACT

2010 US jobs supported by recycling industry



FOR SOURCING AND MORE INFORMATION:
BALL.COM/REALCIRCULARITY