

CIRCULAR INNOVATION
Lille, April 10th 12th 2018



Carlsberg Group 2016 overview



17%

Renewable energy

We use a mix of biomass, solar power and renewable energy certificates with quarantees of origin.



Reduction in relative water consumption at our breweries since 2010

In 2016, our water efficiency improved to 3.2 hl/hl.

42.000 62,6 8,2

Number of employees

Net revenue DKKbn

Operating profit

Jobs created by every 10 DKKbn **Carlsberg Group employees**

Partnerships with external organisations to promote responsible drinking

These included Night Owls, a Scandinavian volunteer group.



Zero

Accidents at over 50% of Group production sites

In 2016, more than half of our sites had an accident-free year.

Our beers









Tuborg



BLANCHE BOUBLE





Brooklyn



Jacobsen



Feld schlösschen

Birrificio Angelo Poretti



LE ORIGINALI



LE STAGIONALI



LE ARMONIE DI GUSTO



LE OL1'RECONFINE



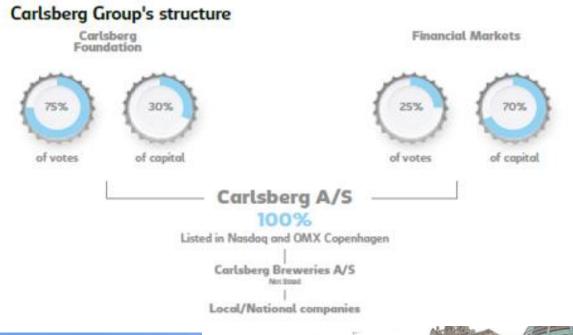
LE BOLLICINE



Angelo – Le Riserve del Birrificio

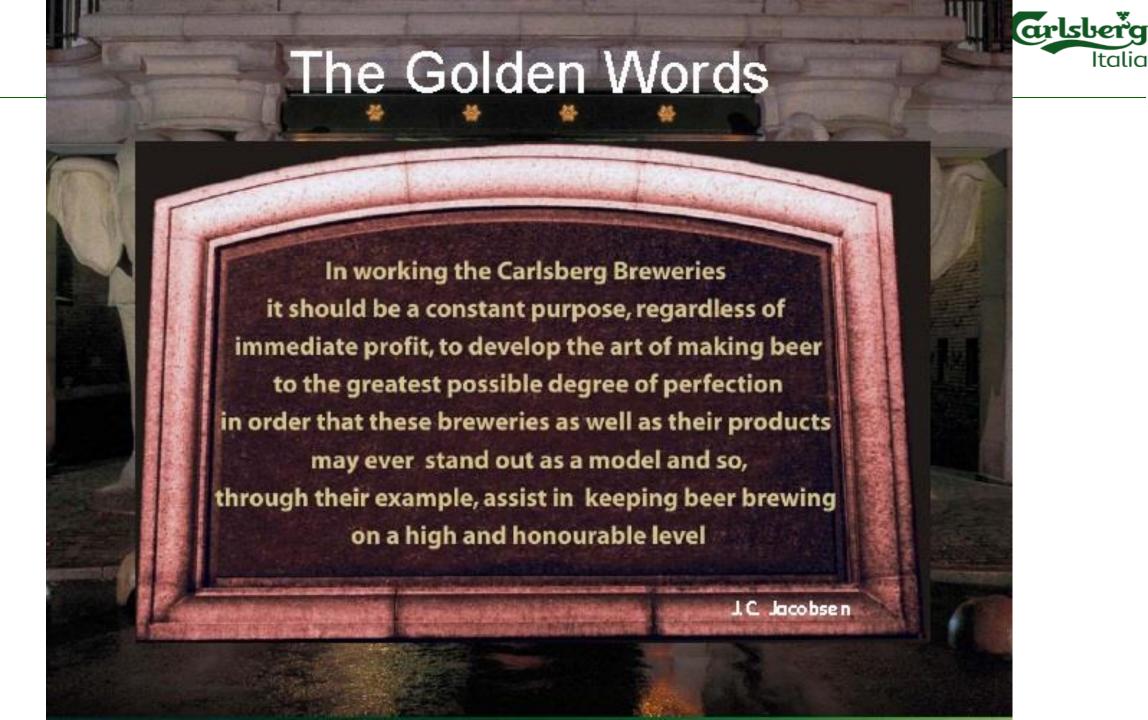
Corporate Governance: Carlsberg Foundation as a way of working on the Market and not only ...











How were these words made alive? Through the Carlsberg Research Laboratory



Focus on 4 main areas

RAW MATERIALS



YEAST AND FERMENTATION



INGREDIENTS



TECHNOLOGY



Sustainability must be part of the business











The 1st result of our Carlsberg Circular Community, presented @Davos - World Economic Forum: the Green Fiber Bottle







The Green Fiber Bottle Project Better World in the Making



AS GOOD AS GREEN
Strong, durable material, 100% compliant with the strictest food and beverage regulations.

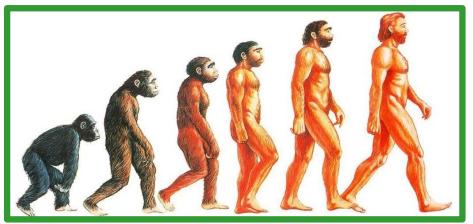


And we wanted to change the (beer) world: the DraughtMaster system



«Insanity is to keep doing the same thing while expecting a different result» A.Einstein







Product and Business Innovation: Benefits for the whole Market





DM Modular 20



DM Flex 20



DM Select 10



More quality

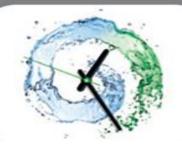




More business







More handiness





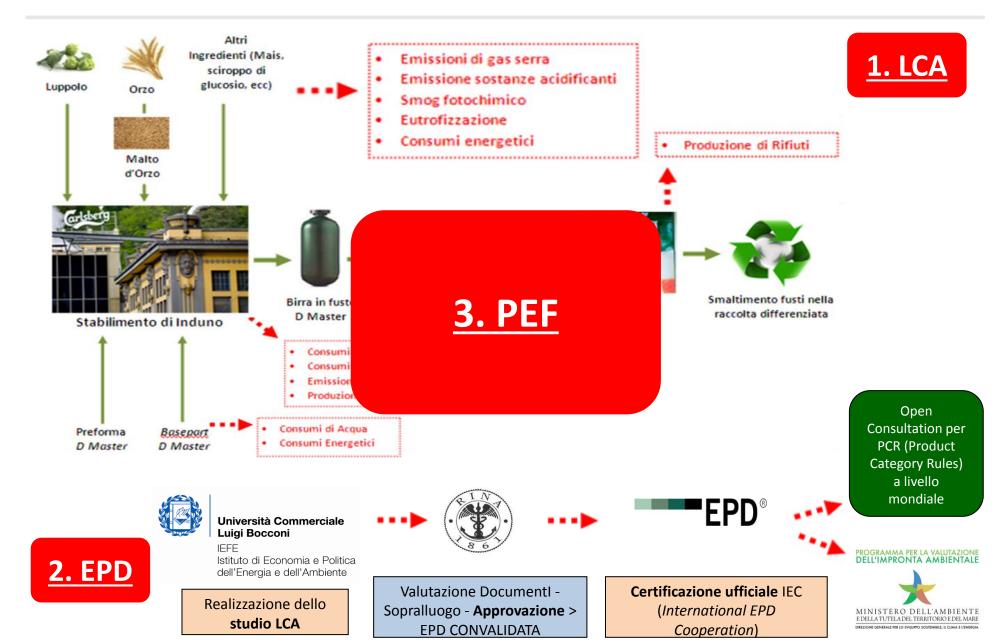


More sustainability



Sales are not everything (almost)... numbers are





ENERGY & CARBON

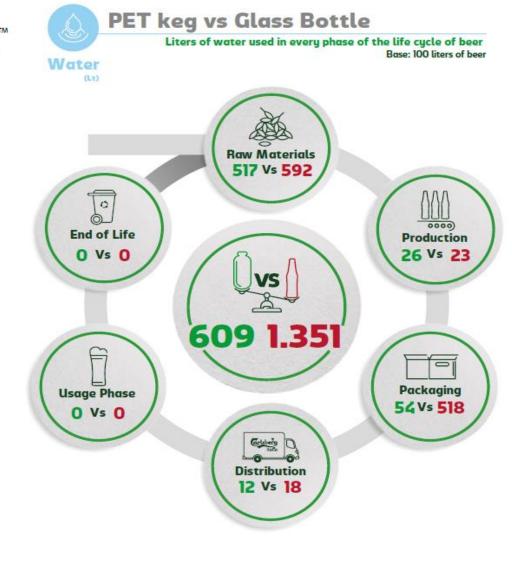
The incredible sustainability of PET

Today PET kegs are considered the point of reference in the draft beer segment.

The advantages of *DraughtMaster*TM are now clear compared both to steel kegs and also to glass bottles, in terms of product quality, of the product, lower environmental impact and

respect of the urban decorum.

Logistics' figures also confirm *DraughtMaster*TM sustainability: the transportation of 100 liters of beer mean 106 KGs of total weight in PET kegs versus 165 KGs in glass bottles (33 cl).







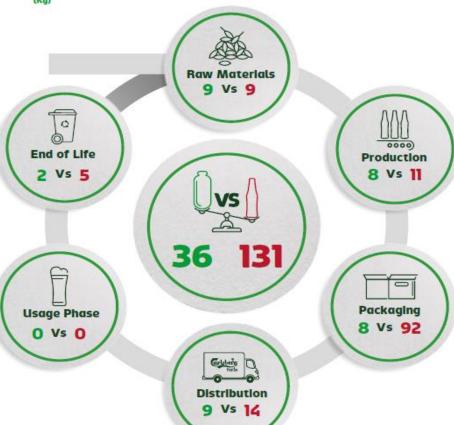


PET keg vs Glass Bottle

Kg of CO, produced in every phase of the life cycle of beer

Base: 100 liters of beer

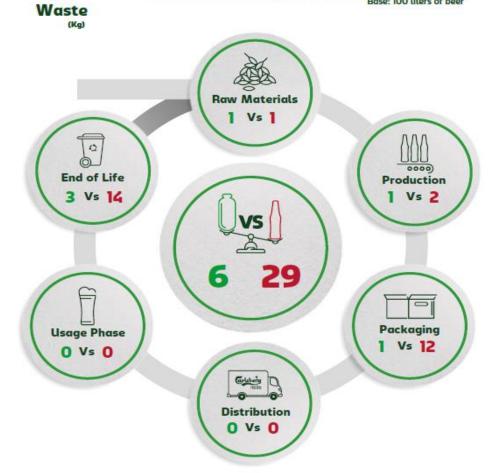
CO₂





KGs of waste produced in every phase of the life cycle of beer

Base: 100 liters of beer



Last but not least...new ways of communication towards consumers must be found





60 liters of beer from PET kegs reduce the greenhouse effect as 1 tree in 1 year*

Formula to calculate the #TreesWatch

*Compared to the same quantity of beer in steel kegs. Elaboration based on 2013 EPD data

Orologio degli Alberi



... to the new challenge







"from cradle to cradle"



YOU

Carlsberggroup.com/sustainability #TowardsZERO