Design for Recycling Enabling the circular economy

Philippe Blank

Packaged 2017, Amsterdam June 20th



Agenda

 Henkel at a glance - Henkel & Sustainability — Sustainability in Packaging — Design for Recycling

Henkel at a glance Who we are

Over

51,000 employees worldwide

€3.1 bn adjusted* operating profit

Around

€18.7 bn

sales, 3.1% organic sales growth

61%

of our sales generated by our top 10 brands

16.9% adjusted* return on sales

(EBIT)

140 years

of brand success



^{*} Adjusted for one-time charges/gains and restructuring charges.

Henkel at a glance Global footprint

- Henkel products and technologies available worldwide
- Employees from more than 120 nations
- Strong presence in emerging markets:
 42% of sales, 56% of employees
- 171 manufacturing and 17 major R&D sites around the world















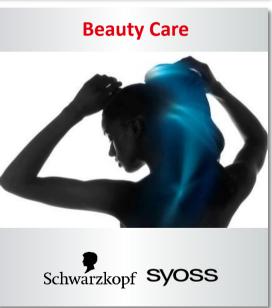


Henkel at a glance

Leading positions in consumer and industrial businesses

Consumer Businesses





Industrial Business





Henkel at a glance Did you know...

- ... that Henkel is the **world's number one** adhesives producer?
- ... that Henkel sells detergents for around **25 billion wash loads per year?**
- ... that every second, more than 20 hair colorations from Henkel are sold worldwide?
- ... that more than **80 different applications** of Loctite solutions are used in a Formula 1 car?















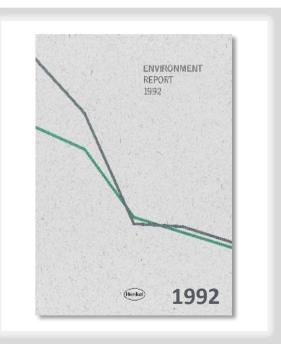
Agenda

 Henkel at a glance — Henkel & Sustainability — Sustainability in Packaging — Design for Recycling

The History - From first-aid center to public commitments









Sustainability becomes a Henkel value

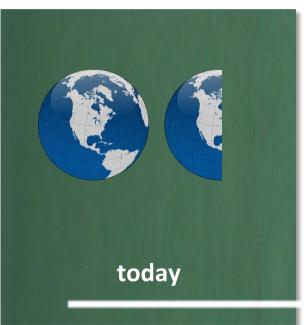


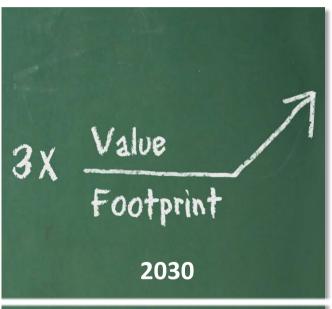


Henkel & Sustainability Strategy and targets



Create value and reduce footprint - the Factor3







Our focal areas translate "Factor 3" into concrete challenges



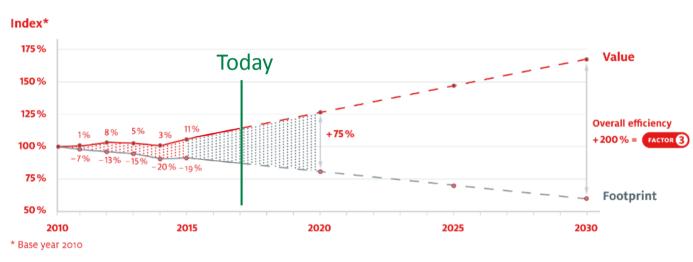


Challenge ahead!

We did a lot!

But the most difficult is yet to come...









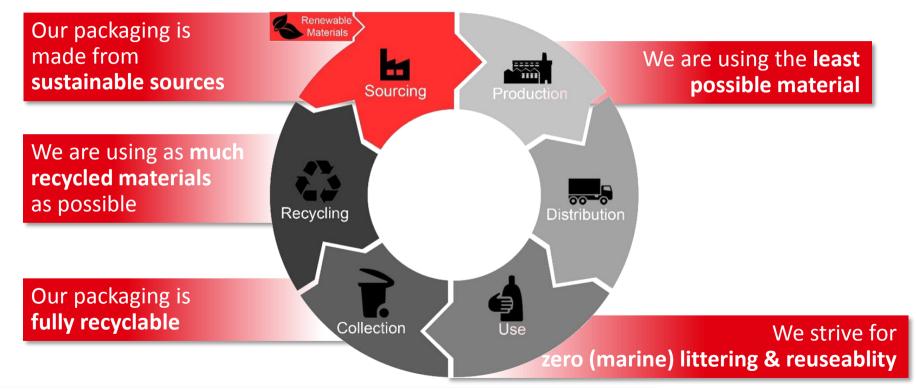
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– Henkel at a glance — — Henkel & Sustainability —— Sustainability in Packaging Design for Recycling

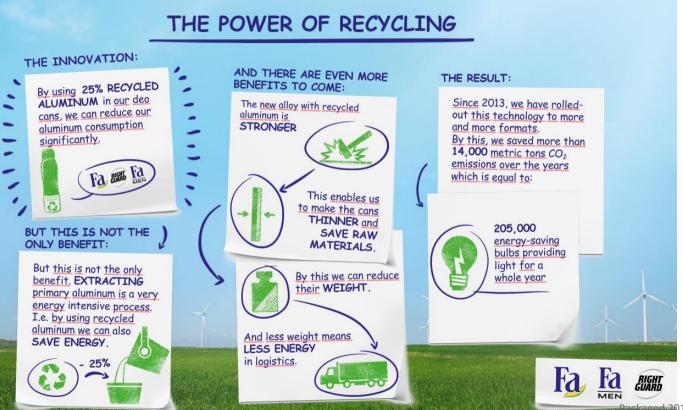


Sustainability in Packaging Enabling the circular economy



Sustainability in Packaging

Initiatives in place



ReAl™ Aluminum Cans





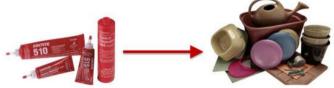
- 25% recycled Al-content
- 15% weight reduction
- 20% CO₂ footprint



Sustainability in Packaging Initiatives in place









Sustainability in Packaging Initiatives in place













Sustainability in Packaging Initiatives in place









455 tons

of label liner waste at Wassertrüdingen plant





RafCycle[™]

Collaboration with selfadhesive label supplier UPM Raflatac





Based on UPM Raflatac's LCA study



Agenda

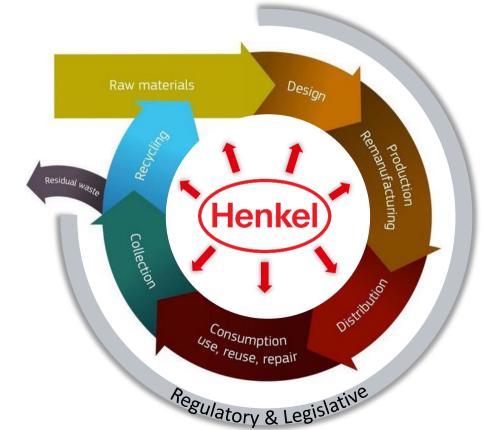
 Henkel at a glance — Henkel & Sustainability Sustainability in Packaging — Design for Recycling







- Invest
- New applications







Limitations & Constraints

Material & Sourcing



- Quality/Color
- Consistency
- Costs
- Odor
- Supply

Packaging Design



- Multi-material use
- Shelf impact
- Label design
- Color range

Collection



- **Eco-System**
- Legislation
- Local funding
- Waste treatment

Sorting



- Material fractions
- Detection limits
- Flexibles
- Capacity
- Technology / Invest



The shampoo bottle – an example

























Design for Recycling External assessment











Harmonize and standardize the qualification of recycability criterias





Take-away's

Design

...is key – but there are no simple answers!

Technology

...will enable us to improve upon today's limitations

Regulatory

...will set a more ambitious framework

Connect

...to drive technical solutions and gain critical mass



Thank you!

