



CHEMICAL RECYCLING SUMMIT

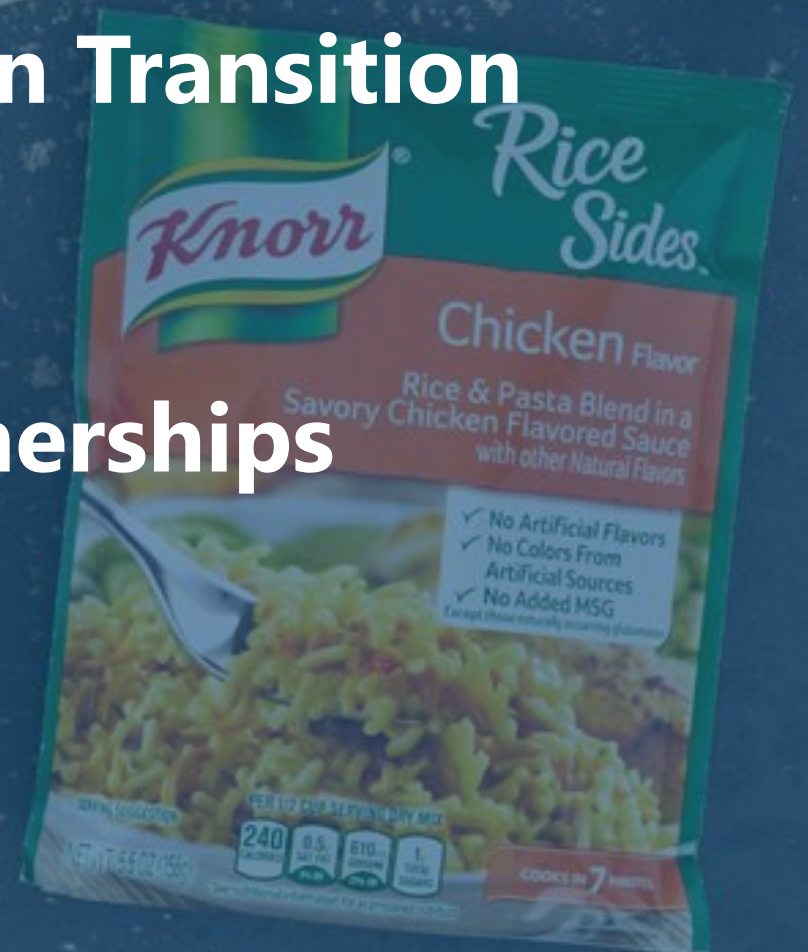
Partnerships to stimulate Advanced Recycling Technologies

Thor Tummers | Unilever





Unilever commitments & Role in Transition Strategy into Practice Scaling Solutions through Partnerships





THE SCHIZOPHRENIC CONSUMER





REUTERS EVENTS™

SUSTAINABLE BUSINESS



How Coca-Cola, Unilever, and Others Delay Action on Plastic

An investigation from Bloomberg looks at how big companies use an industry-led recycling campaign to generate good PR, and not much else.

By Molly Telfer 9/15/20 11:41 AM | Comments (0) | 0 likes



'Biggest plastic polluters' accused of hypocrisy; Unilever, Danone, and Coca-Cola respond

By Flora Southey

24 Sep 2020 | Last updated on 24 Sep 2020 at 13:09 GMT



Unilever

Time to lead us out of the plastics crisis



Europese belasting

De plastictaks komt eraan: kost elke Nederlander zo'n 16 euro

RTLnieuws

Bloomberg

Europe Edition

Sign in

• Live Now Markets Technology Politics Wealth Pursuits Opinion Businessweek Equality Green CityLab

Green
Greener Living

A Fund Designed to Recycle Shrink-Wrap Fails to Pay Out

- Fund backed by Unilever, Pepsico hasn't made a single payment
- Soft plastics like food wrap are notoriously difficult to sort

Delivering on Unilever Global Plastic Commitments

Contributing to multiple UN Sustainable Development Goals

Global Commitment 2017 - by 2025

Ensure all plastic packaging is reusable, recyclable or compostable



Global Commitments 2019 - by 2025

Reduce our virgin plastic packaging by 50%

Help collect and process more plastic packaging than we sell



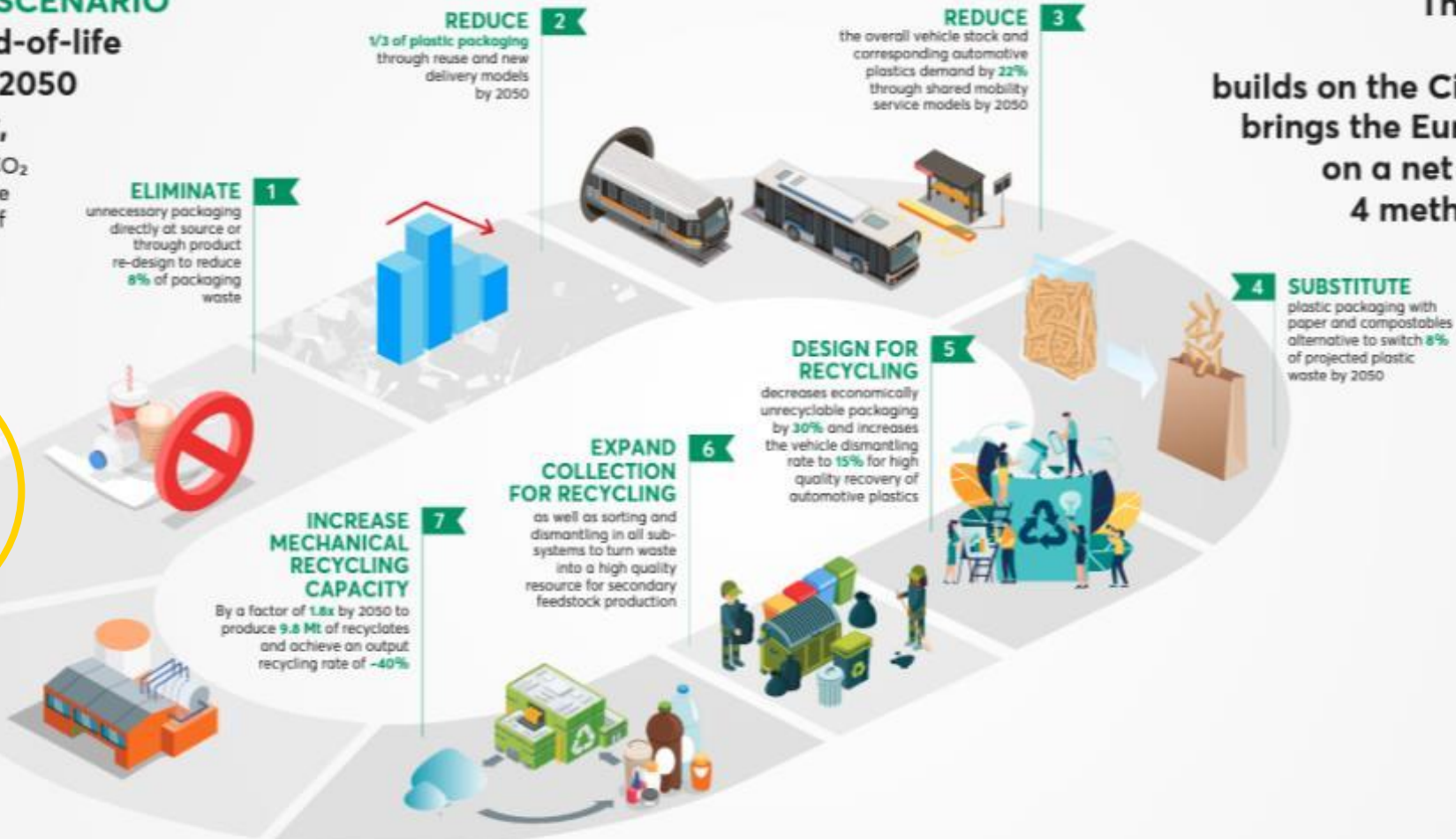
Future Scenario: Circular Plastics & Net-Zero Emissions

The CIRCULARITY SCENARIO

reduces 80% of end-of-life plastic disposal by 2050 compared to today,

effectively reducing system CO₂ emissions by 65% through the immediate implementation of 8 complementary system intervention levers in the plastics value chain

SCALE UP CHEMICAL RECYCLING
for hard-to-recycle plastics to produce 7.3 Mt of secondary feedstock by 2050



The NET ZERO SYSTEMS CHANGE SCENARIO

builds on the Circularity Scenario and brings the European Plastics system on a net zero pathway through 4 methods of GHG reduction:

A CHANGE THE FEEDSTOCK CARBON SOURCE
to provide 1/4 of feedstock by 2050 via sustainable bio-based materials or captured carbon and hydrogen

B APPLY BLUE AND GREEN HYDROGEN
as fuel and feedstock to reduce production emissions

C ELECTRIFY HEAT SOURCES
for steam crackers with cumulative production capacity of 1.5 million tonnes by 2050

D CAPTURE PRODUCTION AND END-OF-LIFE EMISSIONS
through applying CCS to steam crackers or CCU/S to waste-to-energy plants

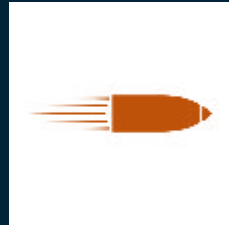
Net Zero Systems Change Scenario

Achieving both environmental & economic benefits

5 Key Insights



Current plan not in line
with Climate Goals



No silver bullet,
range of actions required



Action across the full value
chain crucial



Research & Innovation
for breakthroughs



Substantial
investments in
coming 3-5 years

5 Potential Outcomes

-60%

(255 Mt) less waste
incinerated between 2020-
2050

>70%

less virgin plastic produced
from fossil resources

1.6 Gigatonnes

carbon emissions saved
2020-2050

+160,000

jobs from circularity levers

€ 1 in 4

to be redeployed to innovative low
carbon technologies & circular
business models

Three pillars towards more Circular & Sustainable Packaging

NO PLASTIC



Switching to sustainable alternative materials

BETTER PLASTIC



Improving recyclability & increase amount of recycled & biobased content in new packaging

LESS PLASTIC



Optimising packaging, incl. weight reduction, concentration and refill solutions

Regulation: Transition Time! A Circular Economy for Plastics



AkzoNobel



HEINEKEN



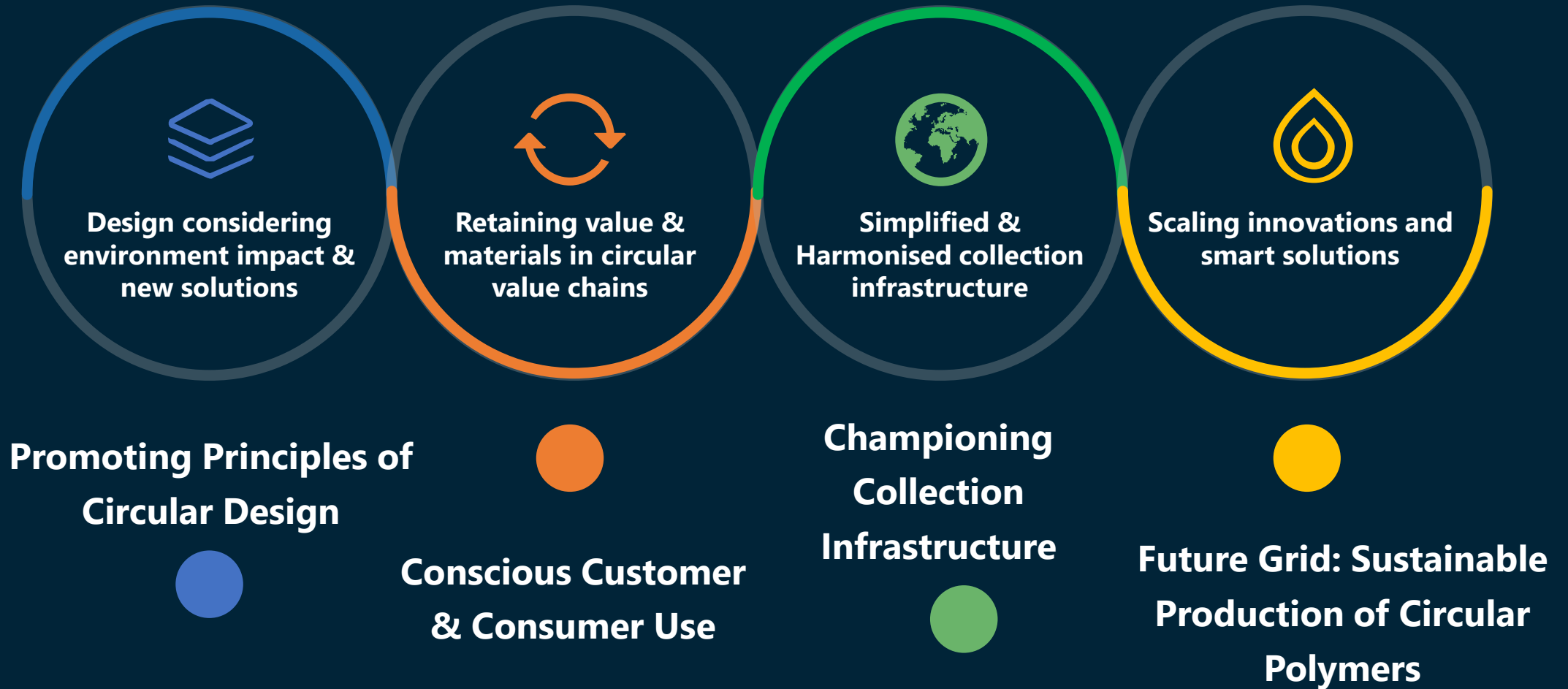
PHILIPS



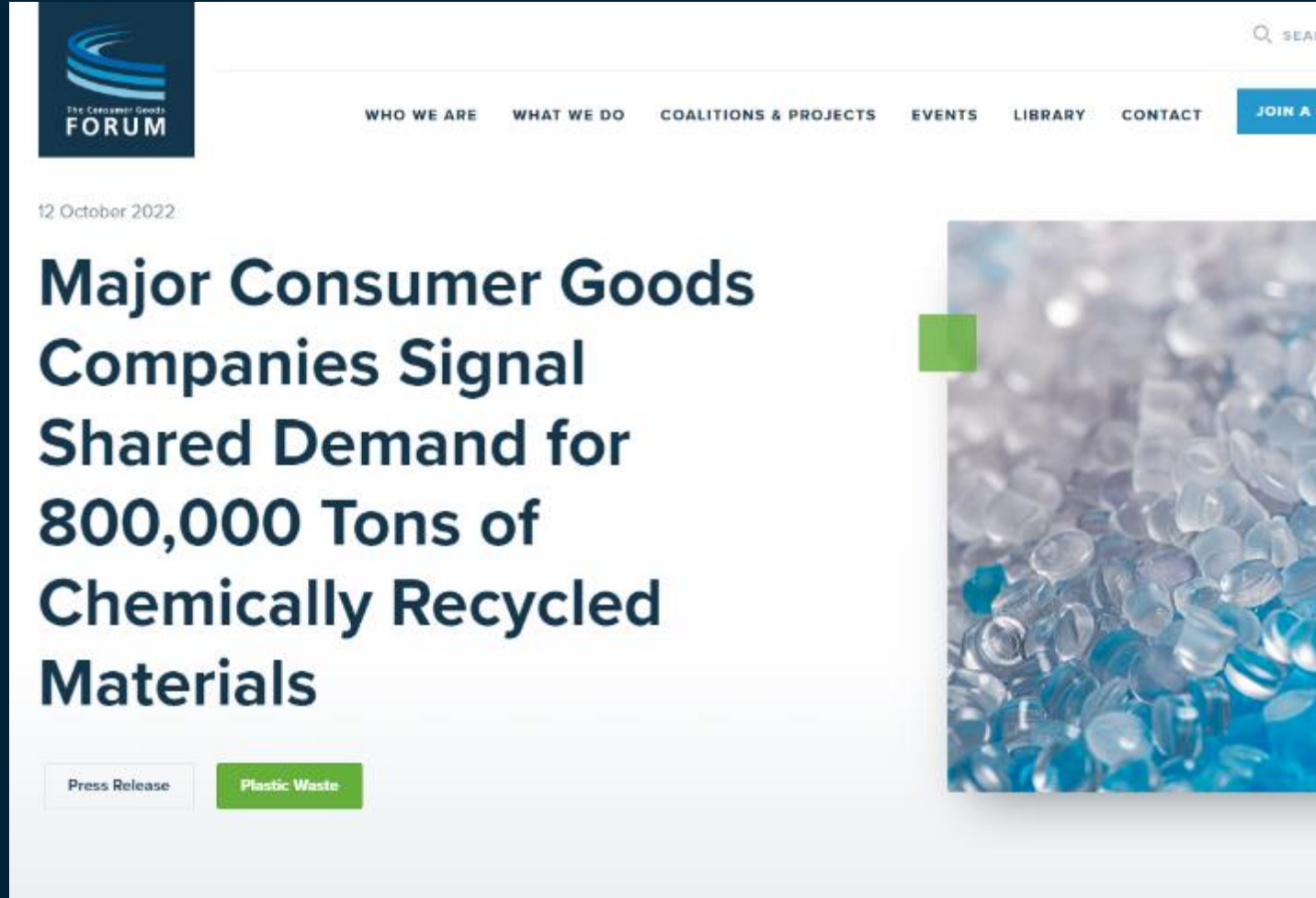
VNO NCW

accenture

Value Chain **Innovation**



Implementation: Demand from Consumer Goods



The screenshot shows the website of The Consumer Goods Forum. The header includes the logo on the left and a navigation menu with links: WHO WE ARE, WHAT WE DO, COALITIONS & PROJECTS, EVENTS, LIBRARY, CONTACT, and a blue button labeled JOIN A C. A search bar is located in the top right corner. The main content area features a date stamp of 12 October 2022, followed by a large headline: Major Consumer Goods Companies Signal Shared Demand for 800,000 Tons of Chemically Recycled Materials. To the right of the headline is a vertical image of blue and clear plastic granules. Below the headline, there are two buttons: Press Release and Plastic Waste.


The Consumer Goods FORUM

WHO WE ARE WHAT WE DO COALITIONS & PROJECTS EVENTS LIBRARY CONTACT JOIN A C

12 October 2022

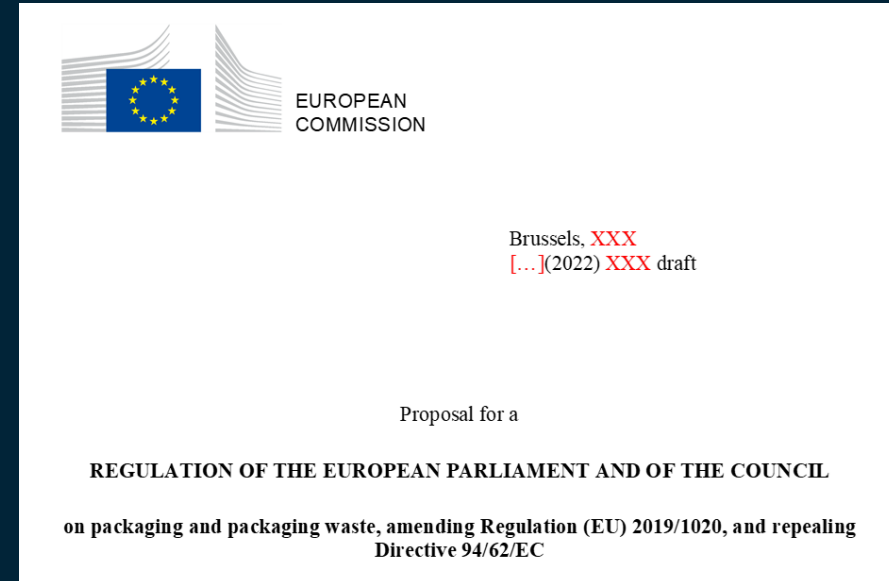
Major Consumer Goods Companies Signal Shared Demand for 800,000 Tons of Chemically Recycled Materials

Press Release Plastic Waste



Leaked draft Packaging & Packaging Waste Regulation

- **Moving from a Directive to Regulation:**
Direct implementation across Member States
- **Stricter requirements on recyclability:**
Min. 70% recyclability threshold, an additional 5 years to prove recycling at scale; potential ban on specific components.
- **Uptake of recycled material in new packaging:**
 - 25% recycled content target per unit of contact sensitive plastic packaging from 2030 (contact sensitive includes packaging food, feed & cosmetics)
 - 45% for all other plastic packaging per unit by 2030
 - 50% recycled content for contact sensitive packaging from 2040
 - 65% for all other packaging (excluding bottles) by 2040



Future: Addressing Climate Change by Accelerating Circular Economy

Circular Carbon Cycles | Circular Material Cycles



References & Links

References to publications used in slides

- [Breaking the Plastic Wave: Top Findings for Preventing Plastic Pollution - PEW Trusts](#)
- [ReShaping Plastics - Pathways to a Circular, Climate Neutral, Plastics System in Europe](#)
- [Dutch Sustainable Growth Coalition - Transition Time! A Circular Economy for Plastics](#)
- [Major Consumer Goods Companies Signal Shared Demand for 800,000 Tons of Chemically Recycled Materials](#)
- [Circular Economy as a Climate Strategy - PACE](#)

Unilever commitments:

- 2010: [USLP Commitments on Waste & Packaging](#)
- 2017: [Unilever commits to 100% recyclable plastic packaging by 2025](#)
- 2019: [Keeping our plastic in the loop](#)

Samenwerking Unilever-merken & partners in Nederland ohgv innovatieve recyclingtechnologieën:

- Dissolution: [OBBOTEC en Unilever werken samen aan veelbelovende plastic pilots](#)
- Pyrolyse: [Magnum Circulair door opschalen van innovatieve recyclingtechnologie](#)
- Depolymerisatie: [Calvé & Hellmann's werken met Ioniqa Technology: Eindeloos PET recyclen met Ioniqa's revolutionaire technologie](#)