FAST FACTS

ReShaping Plastics in numbers

State of Play Today

24.5 million tonnes
of **plastic waste generated** in 2020

14%
of **plastic waste were recycled**, providing 3.5 Mt of recyclates in 2020

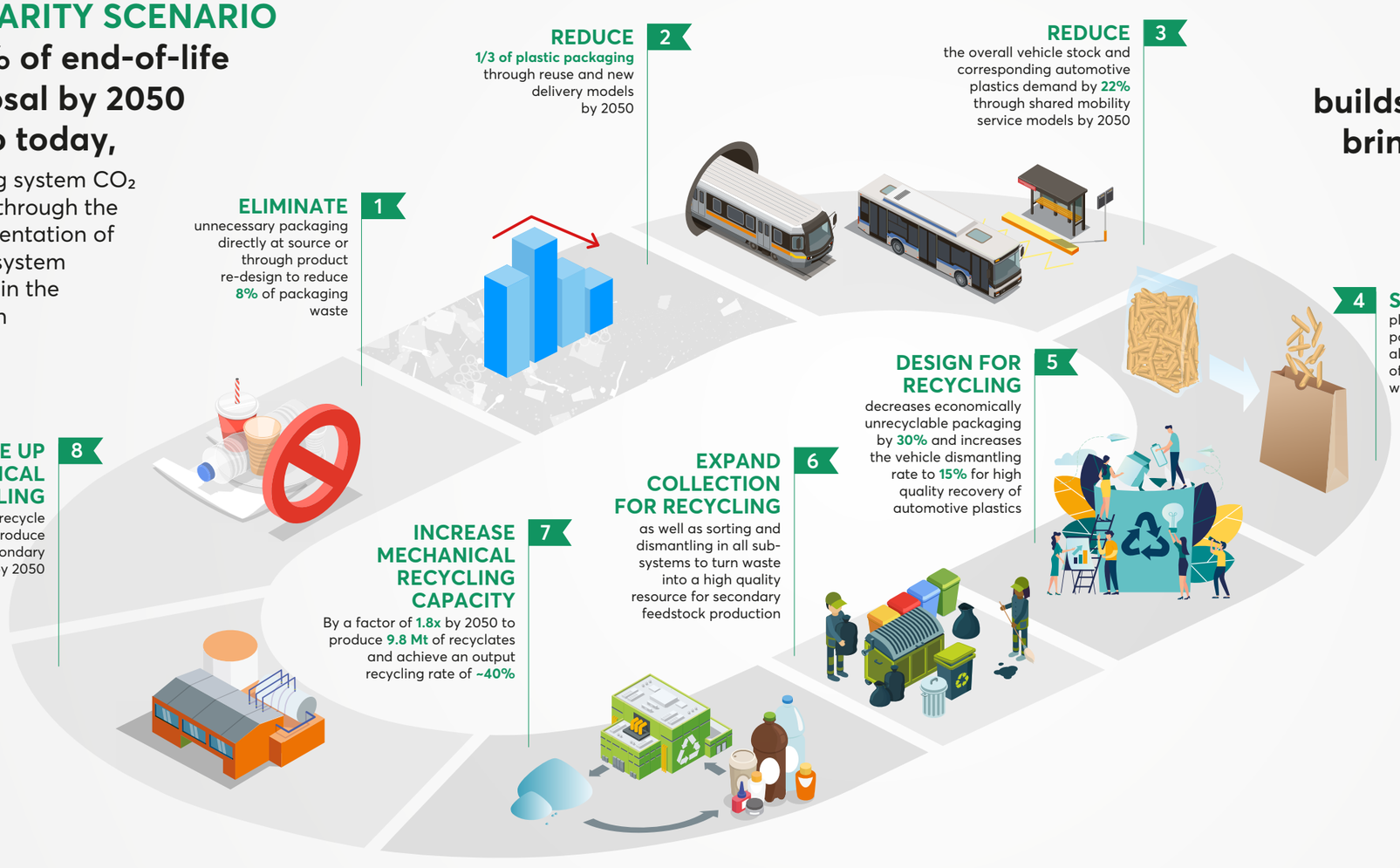
50%
of today's European plastic waste is **incinerated for energy recovery**

95 million tonnes
of **CO_2e are emitted per year** in 2020, one-third is caused by incineration

8-15 million tonnes
of **unaccounted for plastic** as a result of gaps in waste data

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

effectively reducing system CO_2 emissions by 65% through the immediate implementation of 8 complementary system intervention levers in the plastics value chain



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

The NET ZERO SYSTEMS CHANGE SCENARIO achieves environmental and economic benefits

Target State 2050

-60%
(255 Mt) less waste incinerated between 2020-2050

>70%
less virgin plastic produced from fossil fuels

1.6 Gigatonnes
cumulative CO_2 emissions saved between 2020-2050

+160,000
jobs from circularity levers

1 in 4€
to be redeployed to innovative low carbon technologies and circular business models