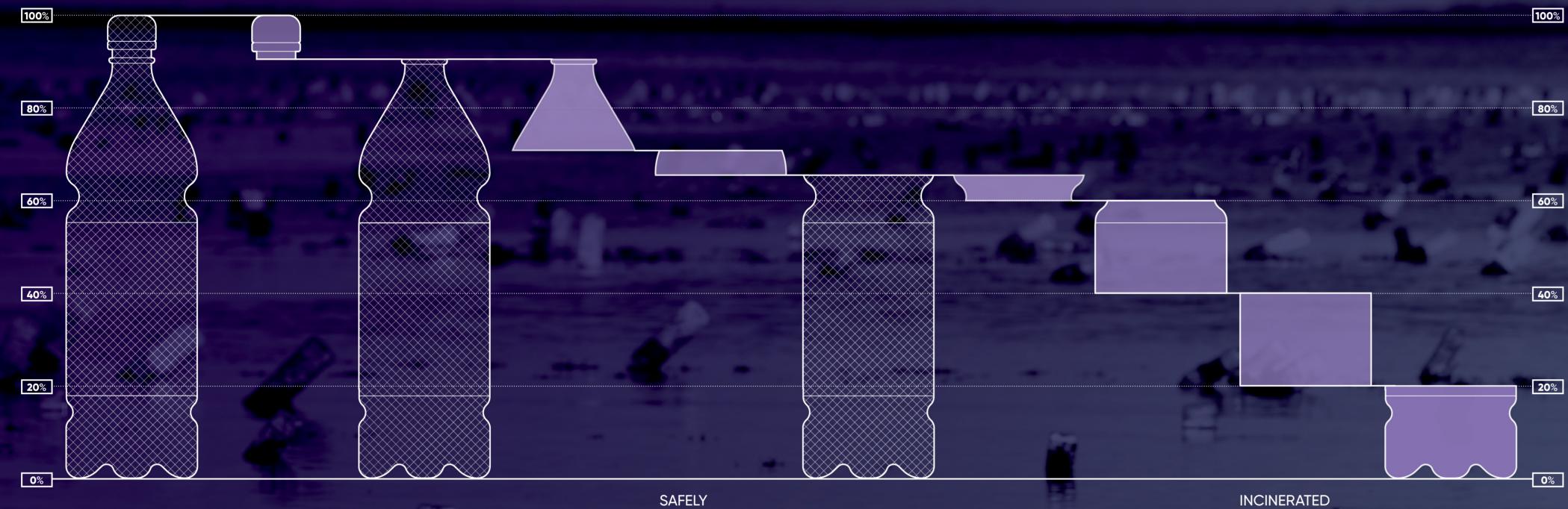
# PLASTIC PLANET

Some eight million tonnes of plastic are dumped in the ocean every year, equal to five grocery bags of plastic on every foot of coastline around the world, according to Ocean Cleanup. And with annual production set to soar to more than one billion tonnes by 2050, manufacturers, retailers and consumers must take responsibility to reuse, recycle and close the loop on plastic waste

#### GLOBAL PLASTIC MATERIAL FLOWS





PRODUCED

Plastic packaging production (from

**IN-USE DELTA** 

Net increase of plastics stock in between stocks at the end of the year and the beginning)

Plastic packaging discarded

AFTER USE

LEAKED

Uncollected after-use plastic packaging, mismanaged (illegal dumping, mismanaged

open dumps)

Plastic Fish

Safe composting system (in nature/

COMPOSTED IN BIOSPHERE

of after-use plastics

COLLECTED

After-use plastic packaging collected controlled way

AND MANAGED

**INDUSTRIALLY** RECYCLED COMPOSTED

Recycling (input

composting and/or

AND/OR ENERGY

Incineration with or without energy as other energy

SANITARILY RECOVERED LANDFILLED

Sanitary landfilling recovery processes

PlasticsEurope/Transparency Market Research

### FORECAST PLASTIC VOLUME GROWTH

**BUSINESS-AS-USUAL SCENARIO** 

Plastics production (tonnes)



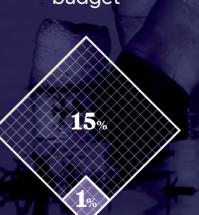
Plastics' share of global oil consumption



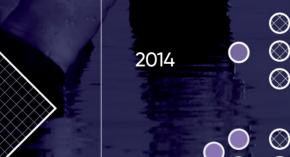


of carbon

2014 2050 Plastics' share



Ratio of plastics to fish in the ocean, by weight



World Economic Forum/Ellen MacArthur Foundation/PlasticsEurope/International Energy Agency 2016

#### **ESTIMATED DECOMPOSITION RATES**

## YEARS TO BIODEGRADE



water bottles

**450**yrs Plastic



Aluminium

cans

50yrs

Foamed

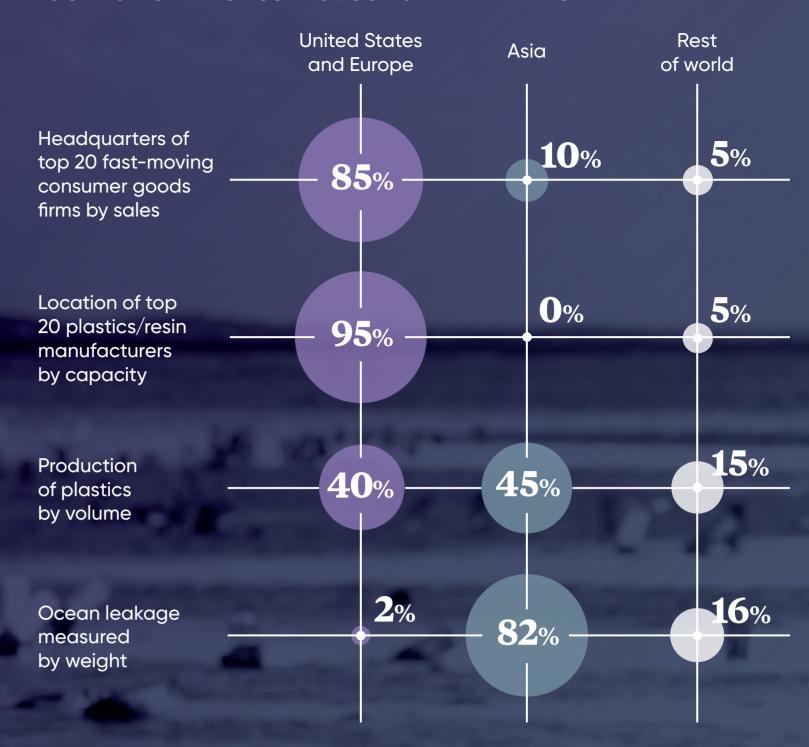
plastic cups

**10-20**yrs Plastic bags

**1-5**yrs Cigarette butts

Ocean Conservancy

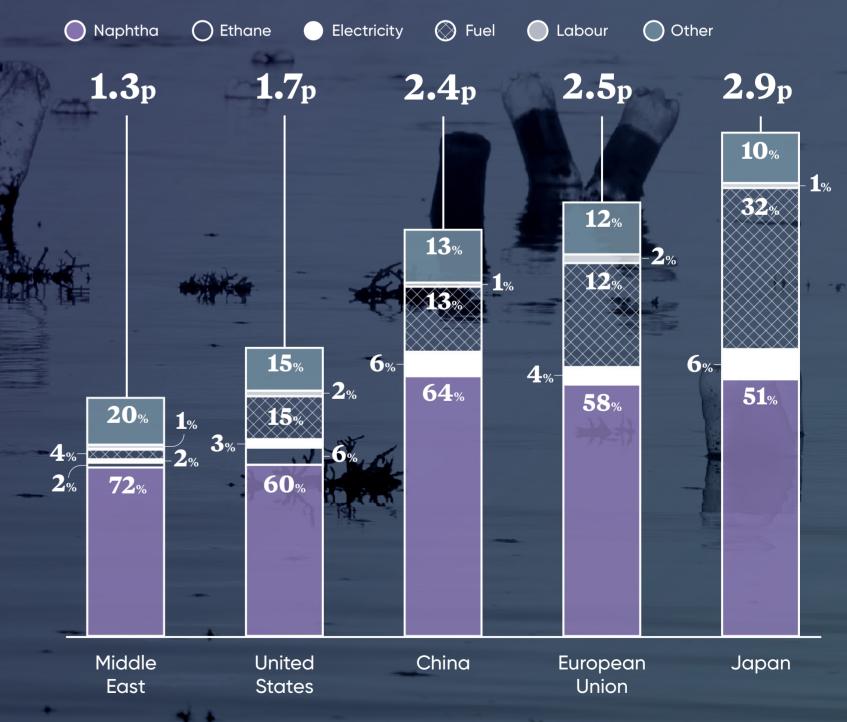
#### LOCATION OF PLASTICS PRODUCTION AND LEAKAGE



World Economic Forum/Ellen MacArthur Foundation/PlasticsEurope 2016

#### **ESTIMATED COST OF PRODUCING A PLASTIC BOTTLE**

COST IN PENCE



International Energy Agency 2014