

Approaching the topic of Waste in schools and kindergartens

Teachers`exchange seminar

16th of December 2020

WASTE
ART



Interreg
Estonia-Latvia
European Regional Development Fund



EUROPEAN UNION



INSTITUTE FOR ENVIRONMENTAL SOLUTIONS



KÕIVA VALD



ZAAO



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Vald



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TÕRVA KOGUVALD

Agenda



Aeg	Tegevus
14.30-14.40	Greetings and short introduction to the program
14.40-15.00	<i>Using a systematic approach to achieve Zero Waste at schools</i> , Adeline Mertenat, reasearcher and project officer in EAWAG/Switzerland
15.00-15:20	<i>Introduction to the Plastic Atlas</i> , Dagmar Hoder, Tipu Nature School
15.20-15:40	<i>Composting in schools and kindergartens</i> , Anneli Ohvril, executive director Let`s do it World NGO and initiator of composting movement
15.40-16:00	Group work I “Addressing the topic of waste in different school subjects and kindergarten”
16.00-16.15	Presentation of Group Work I results
16.15-16.35	Group work II “Rethinking school processes and activities to refuse, reduce, reuse, repurpose and recycle”
16.35-16.50	Presentation of Group Work II results
16.50-17.00	Final words and end of seminar

Introduction to the Plastic Atlas

Dagmar Hoder, Tipu Nature School



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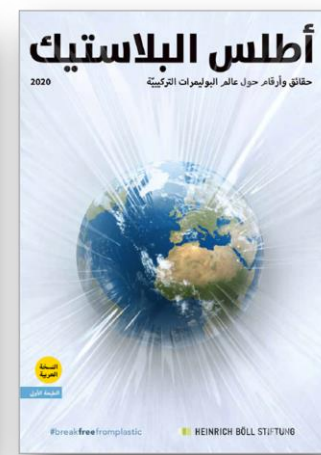
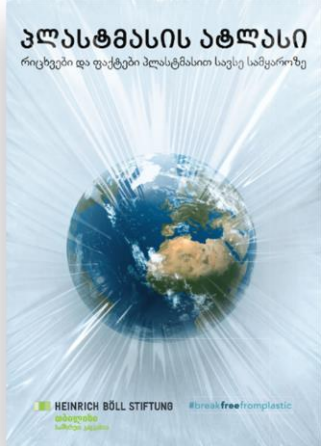
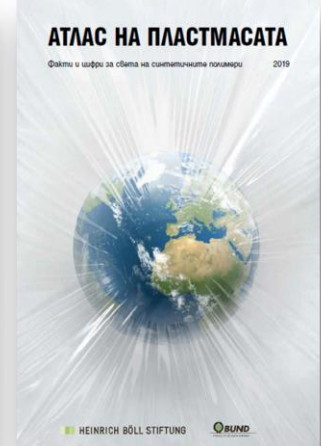
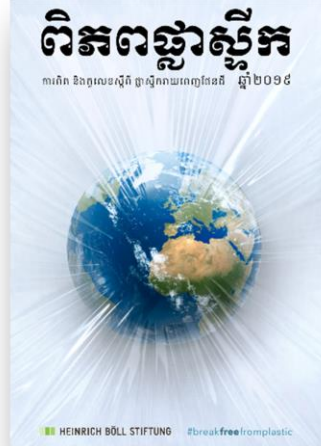


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TIPU NATURE SCHOOL

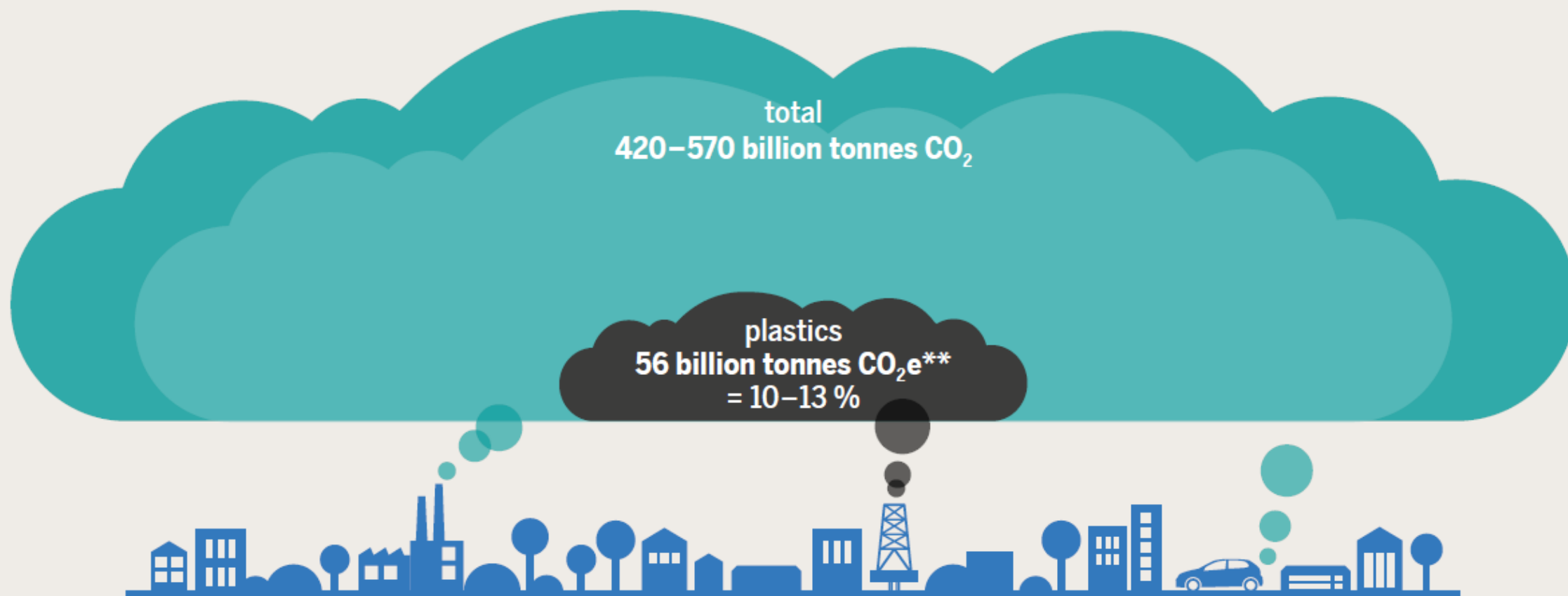
The Plastic Atlas



We are in the midst
of a plastic crisis.

THE THREAT TO THE WORLD'S CLIMATE POSED BY PLASTIC

Projected share of CO₂ emissions from global plastic production, maximum budget to meet **1.5 degree warming target*** by 2050



* In 2015, the international community agreed to limit global warming to well below 2 degrees Celsius and to pursue 1.5 degrees Celsius compared with the pre-industrial times.

** CO₂ equivalents: unit of measurement for standardizing the climate impact of different greenhouse gases.

EUROTRASH

Plastic packaging waste per person in the EU, by country, 2016

kg/inhabitant



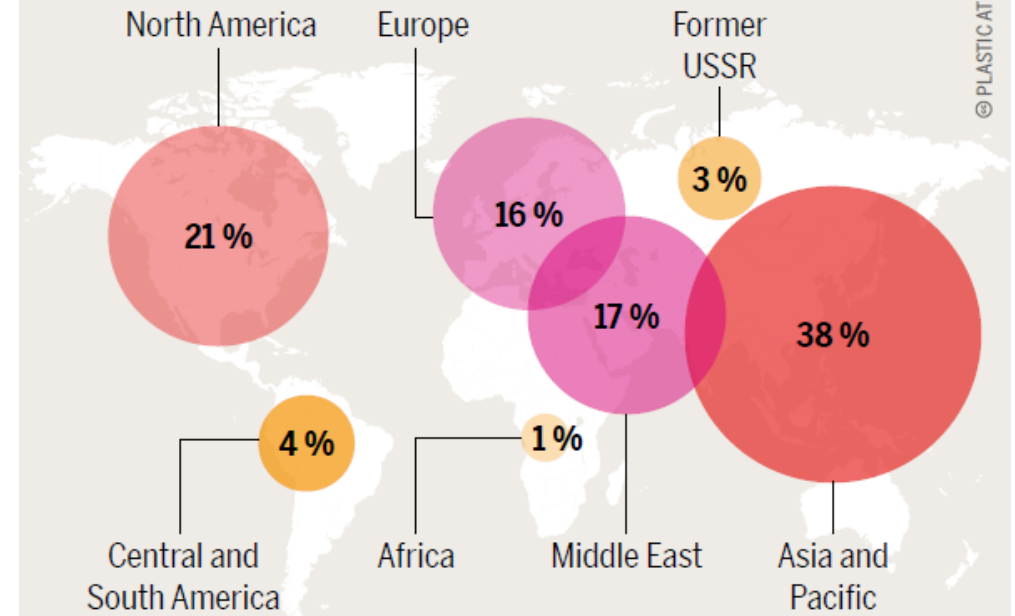
EU-average:
2015: 31 kg
2016: 24 kg

Cyprus, Greece, Lithuania, Malta
and Romania: Figures for 2015

© PLASTIC ATLAS 2019 / STATISTA

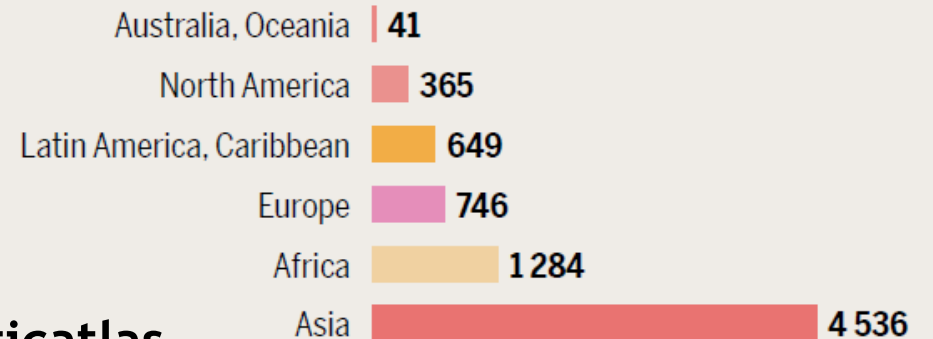
A WORLD FULL OF PLASTIC

Distribution of the production of single-use plastic articles, by region, 2014



© PLASTIC ATLAS 2019 / UN, STATISTA

World population by continent, millions, 2018



The Plastic Atlas, <https://www.boell.de/en/plasticatlas>

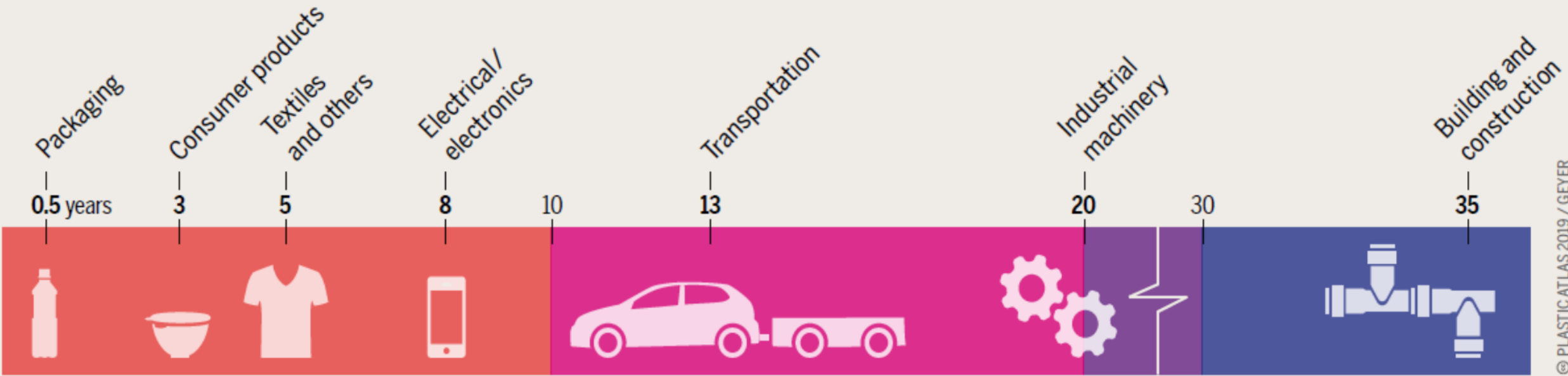
The Plastic Atlas



The Plastic Atlas

LIFE IS SHORT

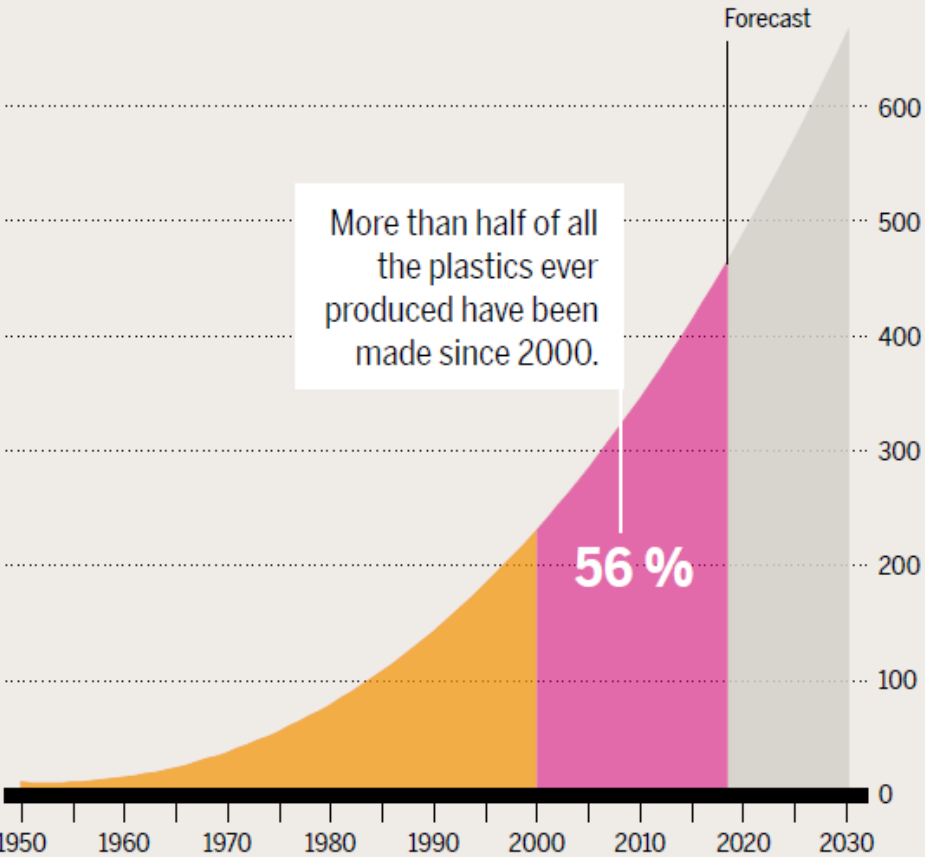
Average useful life of various plastic items, by industrial sector, in years



The Plastic Atlas

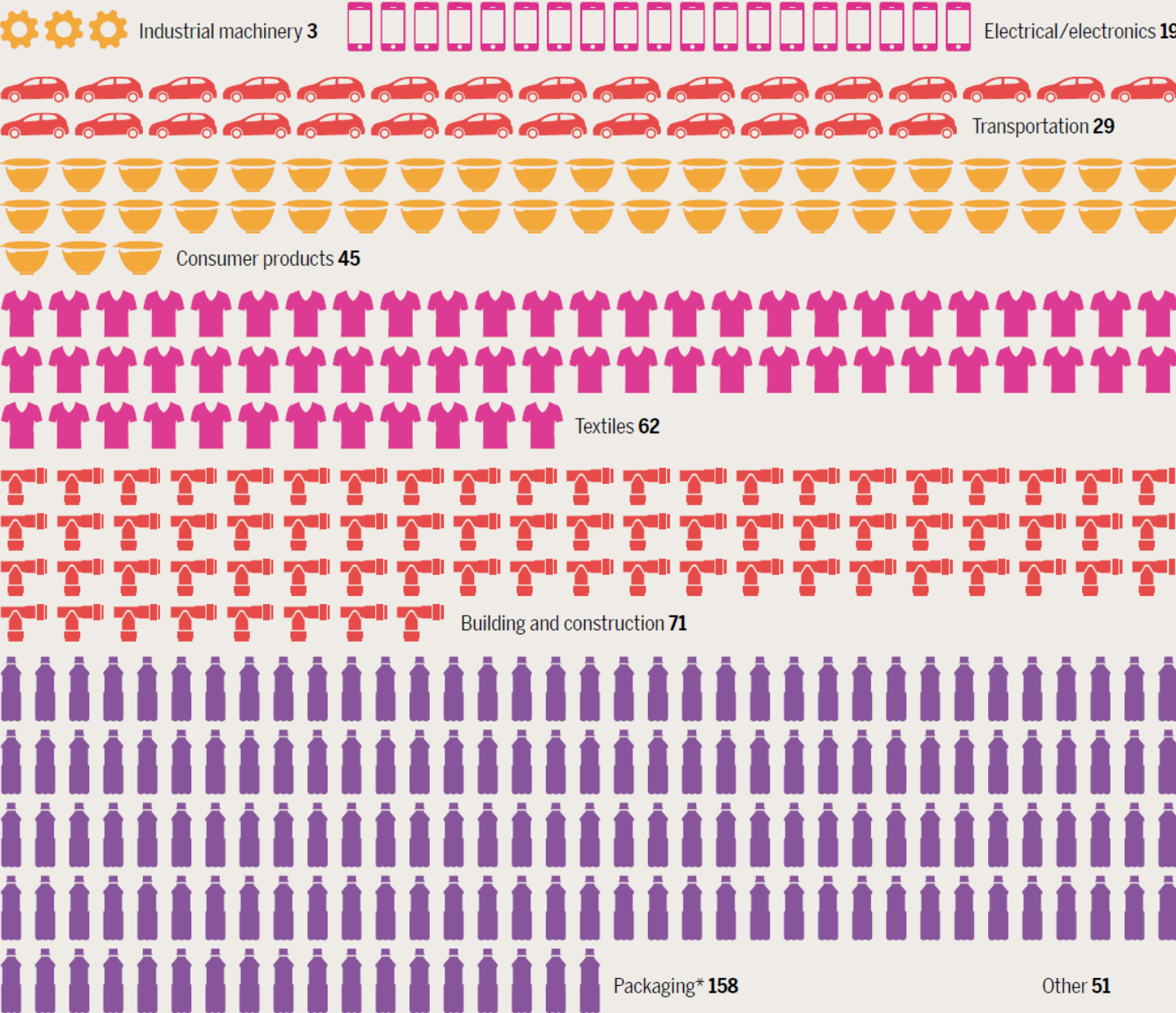
PLASTIC PLANET

Global annual plastic production in million tonnes



WHAT DO WE USE PLASTIC FOR?

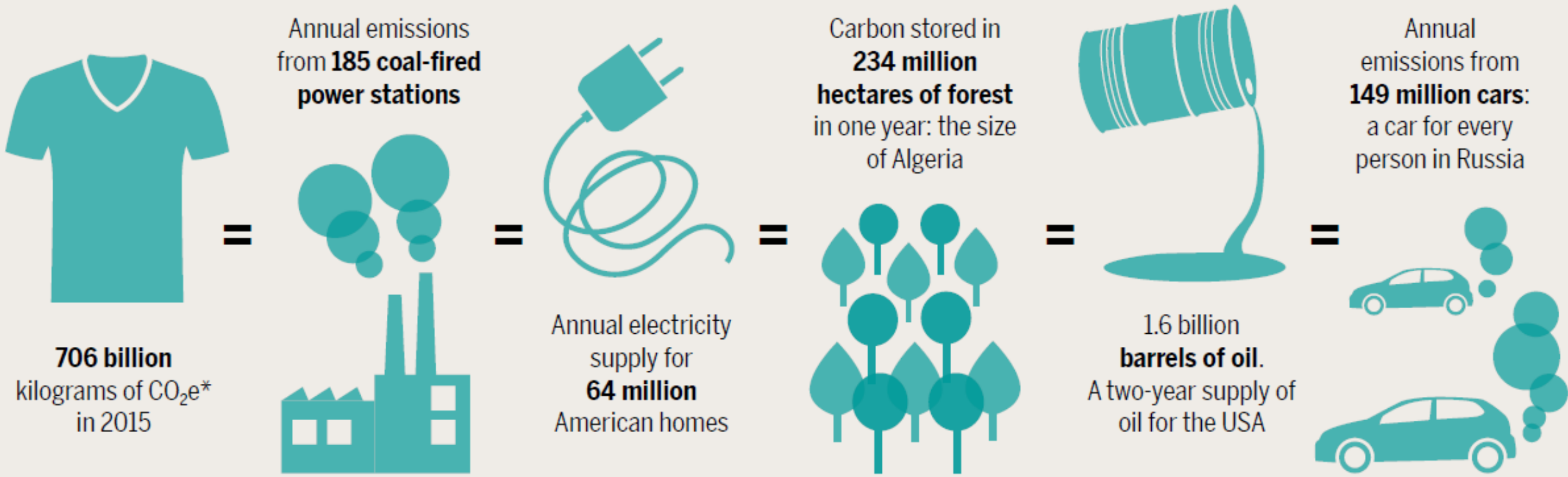
Usage by industrial sector, total volume 438 million tonnes, each symbol represents 1 million tonnes, 2017



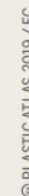
The Plastic Atlas

SYNTHETIC FIBERS AND THE CLIMATE CRISIS

Emissions of greenhouse gases caused by the production of polyester fibers

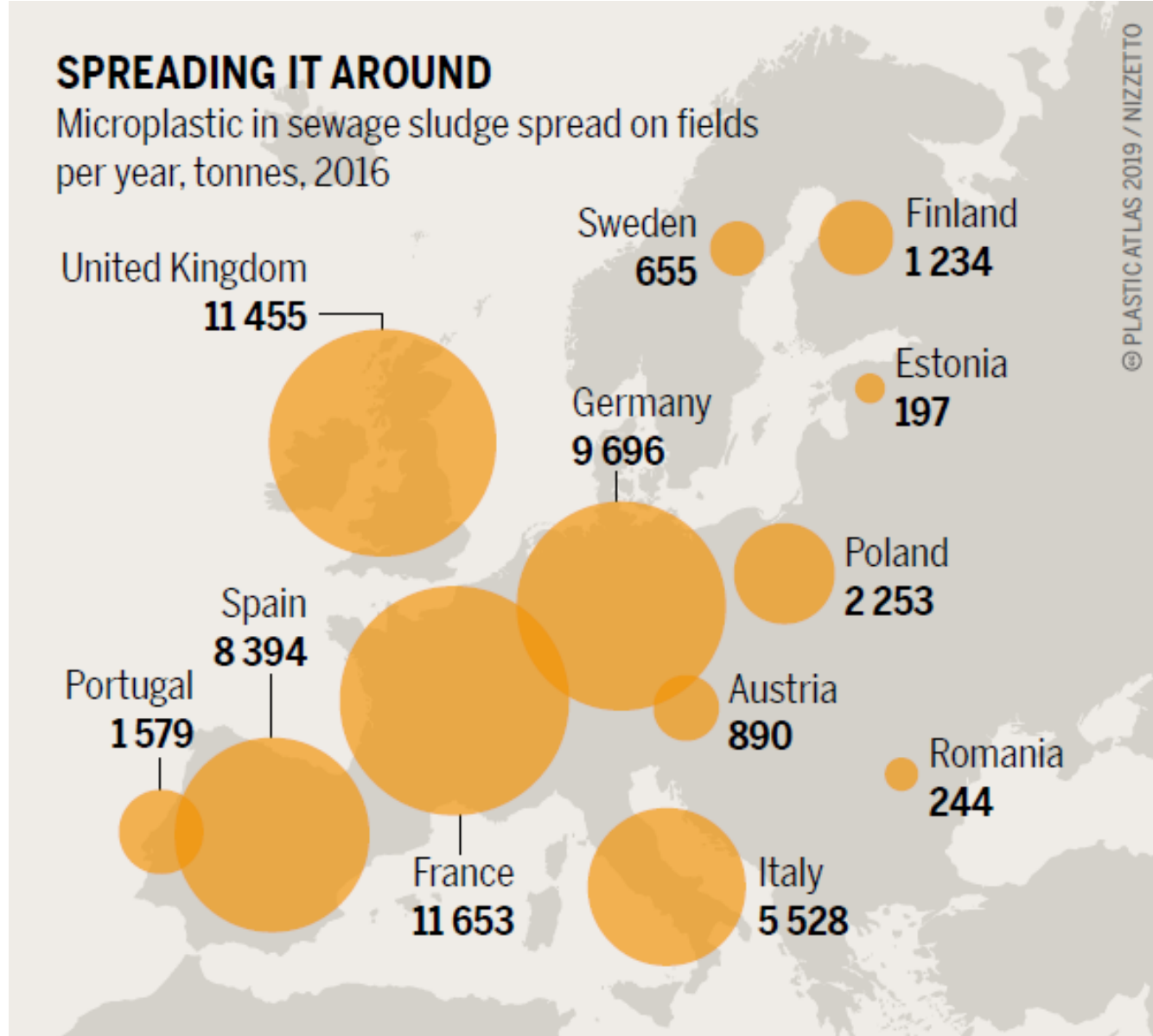


Top types of beach litter at selected locations, percent share per 100 meters coastline, based on OSPAR* screenings, 2010



* International convention to protect the North Sea and Northeast Atlantic

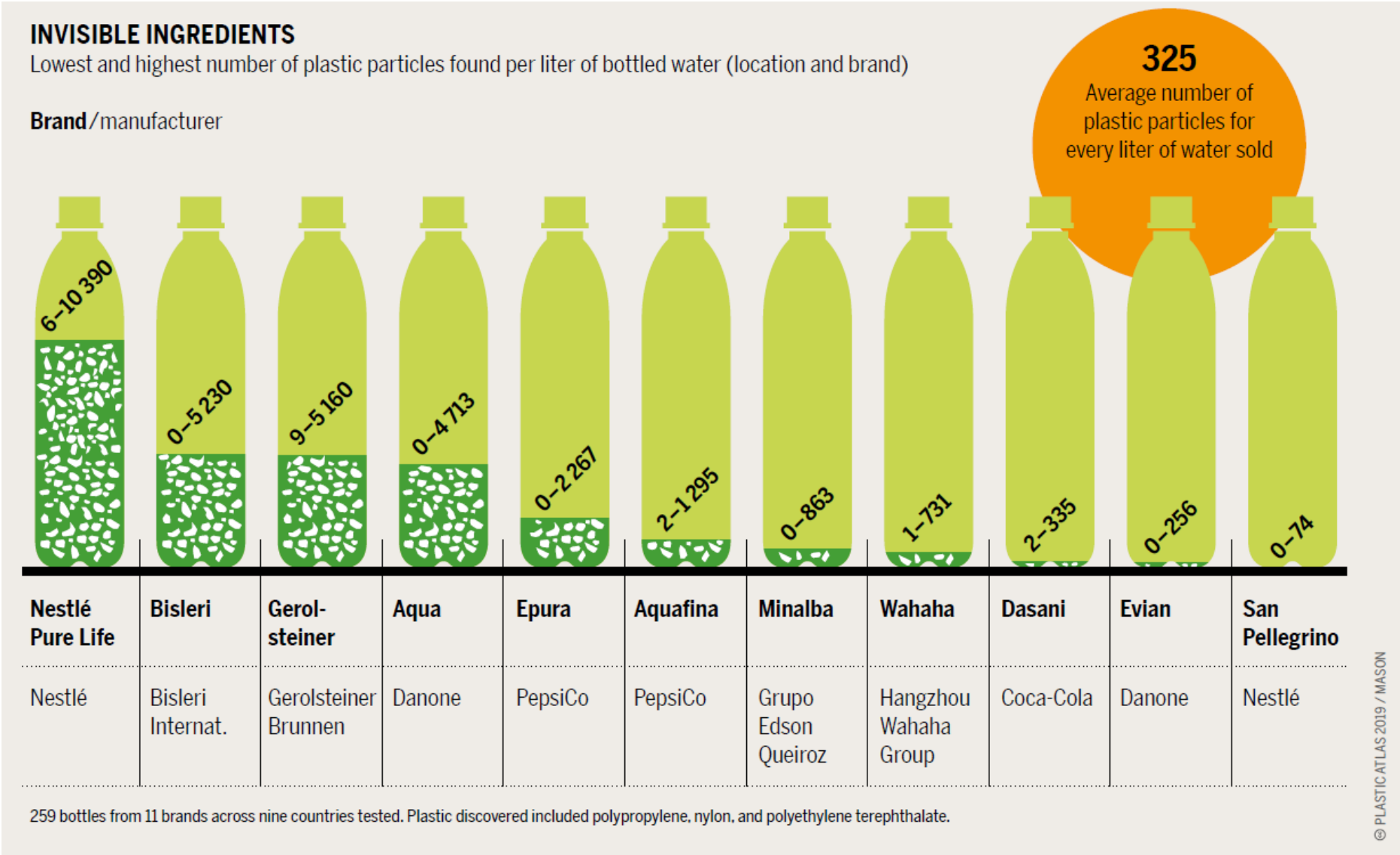
The Plastic Atlas



MICROPLASTICS

The Plastic Atlas

MICROPLASTICS

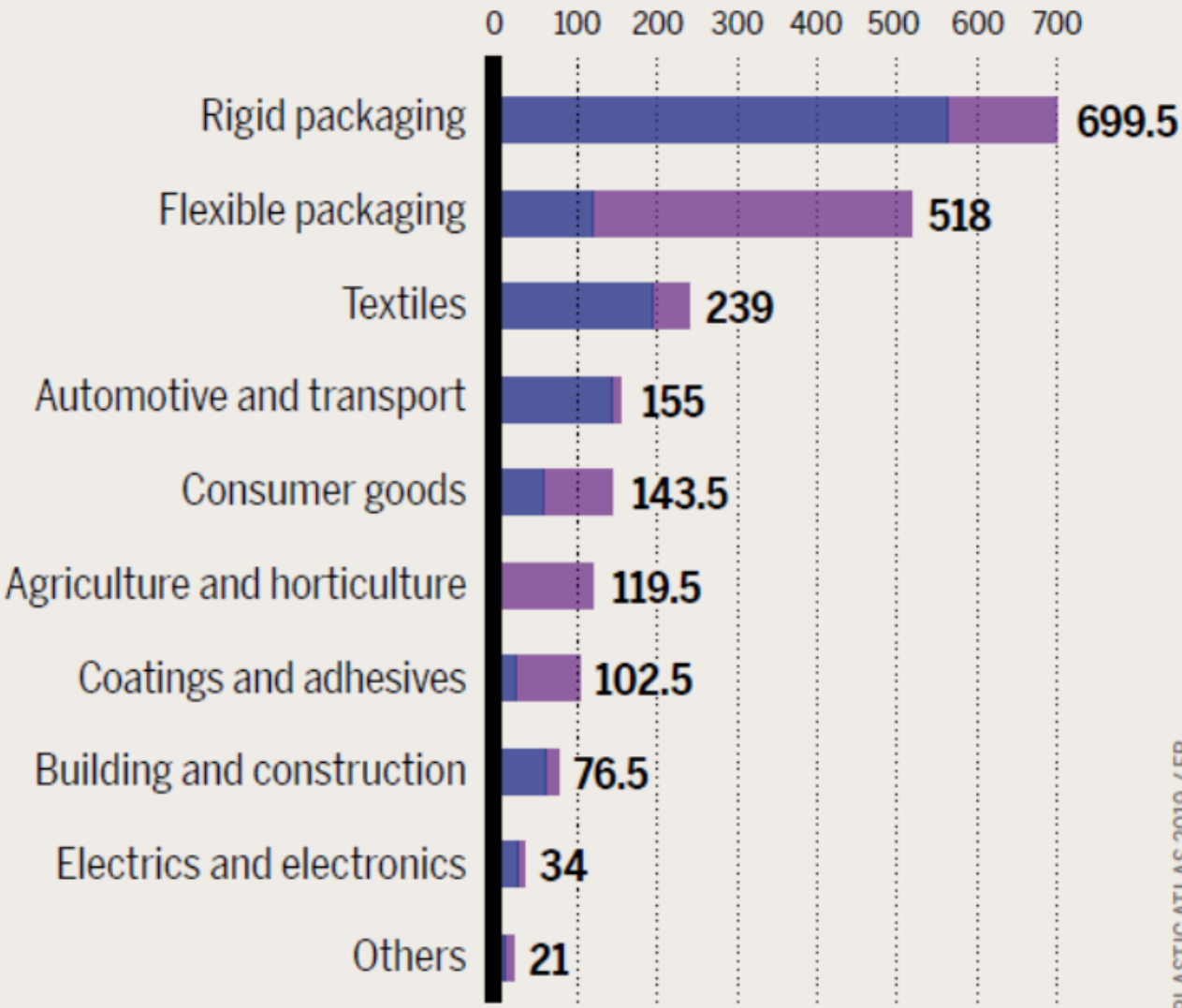


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FALSE PROMISES

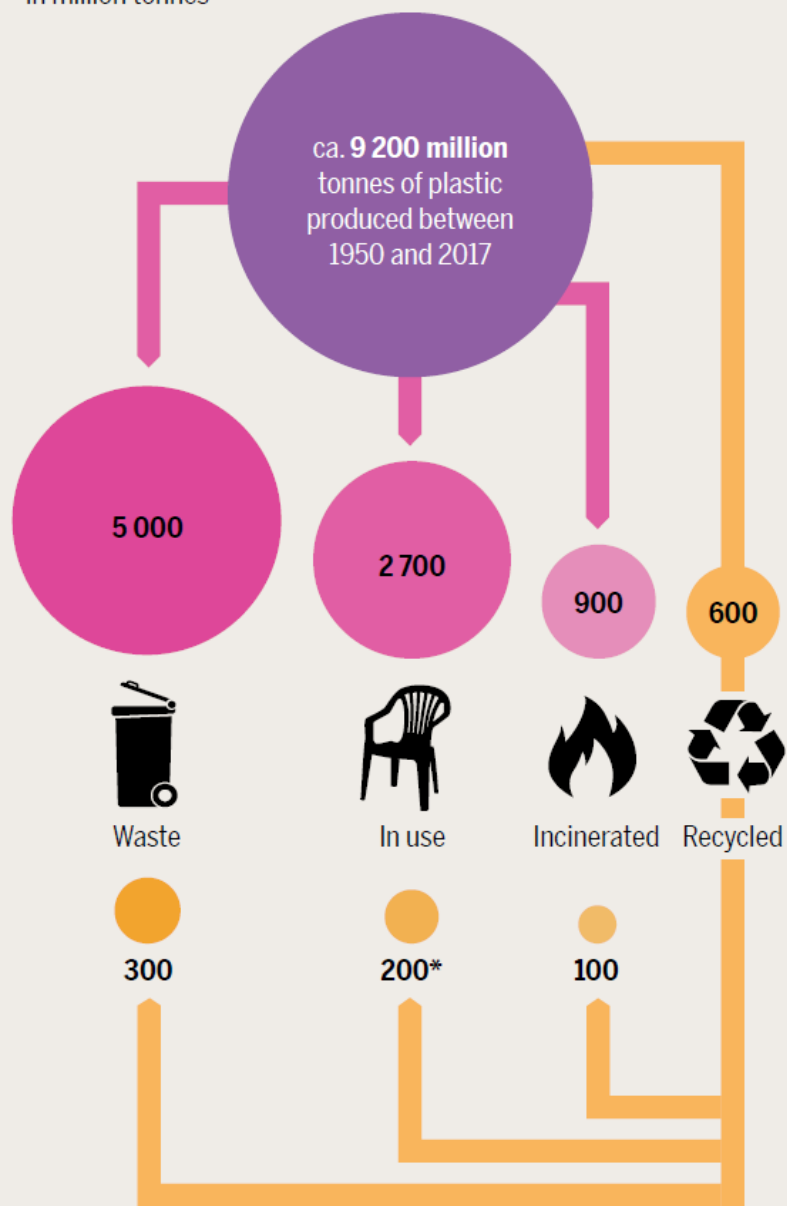
Bio-based plastic by industry sector, thousand tonnes, 2018

■ Not biodegradable
■ Biodegradable



THE CAUSES OF THE CRISIS

Global production, use and disposal of plastics, 1950 to 2017, in million tonnes

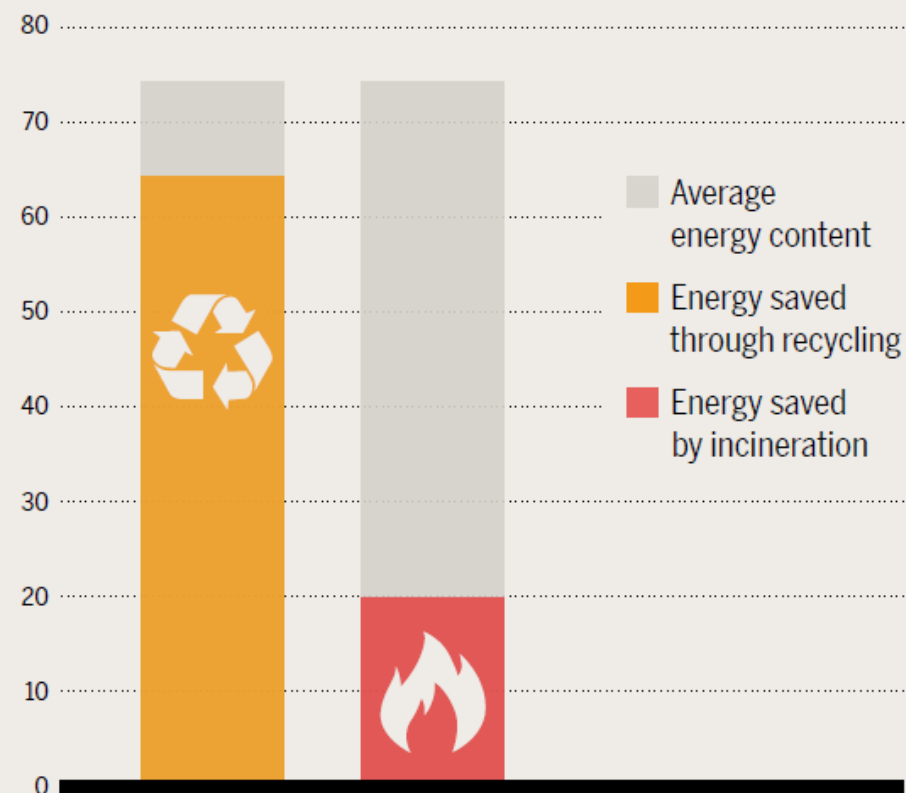


* Of this, half is again recycled.

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WASTED ENERGY

Energy balance of incinerating waste, energy in megajoules/kg



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FALSE PROMISES

CONSUMERS

- 1 Advertisement
- 2 Purchase decision
- 3 Public criticism

- 1 Taxes
- 2 Voting
- 3 Demonstarations
- 4 Engagement in organizations



ECONOMY

- 1 Lobbying
- 2 Voluntary self-commitments

POLITICS

- 3 Laws, regulations
- 4 Taxes



Thanks for listening!