

A decorative border of tropical plants and flowers, including green leaves, pink and yellow bromeliads, and white lilies, framing the central text.

# Prohibition on single-use plastic

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presented by Italian Students of Earthucation

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01

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# Environment pollution from plastic

*The effects of plastic on our planet*



*\*Resource: liberidallaplastica.it*

<sup>\*</sup>  
**1000**

**years** to dispose of a  
plastic bottle

<sup>\*</sup>  
**2150**

**marine species** in  
contact with plastic

<sup>\*</sup>  
**1000**

**liters of tap water**  
cost as much as a liter  
in a bottle

<sup>\*</sup>  
**14.000.000**

**tons of microplastics** on  
the ocean floor

<sup>\*</sup>  
**8.000.000**

**tons of plastic** poured  
into the oceans every year





# 01 | Environment pollution from plastic

*Reducing waste in the environment is essential if you want to preserve the life of ecosystems and reduce pollution.*

- **The pollution caused by plastic consists in the dispersion and accumulation of plastics in the environment**, which causes problems with the habitat of wildlife, as well as the human one. This type of pollution can affect the air, soil, rivers, lakes and oceans
- This type of pollution **is most evident in the developing nations of Asia and Africa**, where **waste collection systems are often inefficient or non-existent**. But **even the developed world**, in particular countries with low recycling rates, are having **problems in correct plastic disposal**
- Today **disposable plastics make up 40% of all those produced every year** and half of all the plastic produced **has only been made in the last 15 years**. **The microplastics**, produced by the deterioration of the products, **enter the food chain and poison the food we eat**



Every day, thousands of sea turtles, birds and other ocean-dwelling animals choke on plastic bags or get trapped by abandoned fishing gear



# 02

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## DIRECTIVE (EU) 2019/904 of the European Parliament and of the Council

*Legislative Decree 196/2021*

# 02 | DIRECTIVE (EU) 2019/904 of the European Parliament and of the Council

*Legislative Decree 196/2021*

- **Art .1 Objectives**

**Prevent and reduce the impact of certain plastic products on the environment and on human health**, as well as to **promote the transition to a circular economy** with innovative and sustainable business models, products and materials

- **Art. 2 Scope**

**This Directive shall prevail** if it conflicts with Directive 94/62/EC or 2008/98/EC

- **Art. 4 Consumption reduction**

**Member States shall take the necessary measures to achieve an ambitious and sustained reduction in the consumption of the single-use plastic products** in line with the overall objectives of the Union's waste policy **by 2026**. They also shall **monitor the single-use plastic products placed on the market**, the reduction measures taken and shall report the progress made to the Commission





# 02 | DIRECTIVE (EU) 2019/904 of the European Parliament and of the Council



## EU PLASTICS STRATEGY



- **Art. 3 Definitions**
- **Plastic** = material consisting of a **polymer** to which additives or other substances may have been added
- **Single-use plastic product** = product that is made wholly or partly from plastic and that is **not designed** or placed on the market **for being returned or re-used** for the same purpose
- **Oxo-degradable plastic** = plastic materials that through oxidation, lead to the fragmentation into micro-fragments
- **Fishing gear** = any item or piece of equipment used in fishing or aquaculture **to target, capture or rear marine biological resources**
- **Waste** = any substance or object which the holder discards
- **Waste management** = collection, transport, recovery and disposal of waste, including the supervision of such operations and the after-care of disposal sites



# 02 | DIRECTIVE (EU) 2019/904 of the European Parliament and of the Council

- **Art . 6 Product requirements**

**Metal caps or lids with plastic seals shall not be made of plastic, from 2025 beverage bottles should contain at least 25 % of recycled plastic and from 2030 at least 30%**

- **Art. 7 Marking requirements**

**Member States shall ensure that each single-use plastic product placed on the market bears a conspicuous, clearly legible and indelible marking on its packaging informing consumers of appropriate waste management options or waste disposal means to be avoided and the presence of plastics in the product**

- **Art. 9 Separate Collection**

**Member States shall take the necessary measures to ensure the separate collection by 2025 of an amount of waste single-use plastic products to 77% in a year and by 2029 to 90%**






# 03

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Data relating to the use of  
disposable plastic objects **before**  
**the act was introduced**

*How much plastic was used in our country*



# 03 | Data relating to the use of disposable plastic objects before the act was introduced

*Before the introduction of the law, disposable plastic objects accounted for 40% of the production and 61% of all plastic waste in Europe, that alone accounted for 70% of plastic waste at sea*

- **Cutlery, dishes, cotton sticks** (banned in Italy from January 1st 2019 and permitted only in biodegradable and compostable material), **straws, mixers for drinks, rods for balloons, containers for food and beverages in expanded polystyrene** (in particular those used for fast food), **bags and packaging** are usually wrongly disposed
- According to **the association Marevivo**, between 16 and 20 million disposable glasses were consumed every day in Italy and up to 2 billion per year of plastic straws, with a very high dispersion in the environment
- **Before 2011**, when Italy banned plastic shopping bags, between 20 and 25 billion plastic bags were used every year
- According to **WWF**, Italy ranks first in Europe for the use of bottled water: every day 32 million bottles of mineral water are used and about 7 billion are not recycled and are likely to be dispersed in the environment



In Italy the annual consumption of plastic tableware was 115 thousand tons per year



# 03 | Data relating to the use of disposable plastic objects before the act was introduced

*An example of consumption of disposable plastic during sport events*



- "Maratona Alzheimer" is a marathon dedicated to Alzheimer's disease. About 6,000 people take part every year in this special marathon which represents a key moment in order to spread awareness among the community and to gather funds for "Fondo Alzheimer 360°", committed to assistance, prevention and research against Alzheimer's disease.
- During this event about 40 thousand glasses, 5,000 bottles and 2,500 disposable plastic cutlery were normally used
- The project was called "Corripulito" and was promoted by *Romagna Iniziative*, which has the support of the University of Bologna.



04

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# Data relating to the impact of the law **in Italy**

*The changes that have been made*

# 04 | Data relating to the impact of the law in Italy

- Through **Art. 5 of Legislative Decree 196/2021**, starting **from January 14th 2022** a ban was introduced on placing single-use plastic products for consumption unless made of **biodegradable and compostable materials**
- According to an **international Ipsos** survey, **90% of people agreed to stop using these products to reduce plastic pollution**. In Italy, the consensus for European measures reaches **94%**.
- **Violations of the obligations** are affected with a **pecuniary administrative sanction from 2500 € to 25.000 €**
- An agreement was drawn up in the **Lombardy Region** between **the Council** and **the companies of the Water Alliance group** to reduce the dispersion of plastic bottles in the environment, favour the use of public water and **promote environmental education through appropriate shared awareness campaigns**





# 04 | Data relating to the impact of the law in Italy

*During sporting events, significant quantities of waste are produced, in consideration of the recurring practice of distributing plastic containers, at refreshment points or dedicated stations, intended for athletes or participants*



- Thanks to this protocol and the involvement of institutions, all actions aimed at **preventing and countering the worrying increase in pollution generated by plastic containers** were implemented
- With the help of this law a sort of '**Acqua Eco Sport**' Logo was defined and can be granted to sporting events, **guaranteeing the sustainable nature of the event itself**
- On one hand it **increases the culture of respect for water**, through the involvement of citizens, and on the other, it **implements concrete actions and reduces the production of waste**, involving the world of sport as a natural testimonial of healthy values




05

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«**MINCIOMARCIA**» an  
example of plastic free event

*A running competition which decided to become  
greener in 2019*



## 05| «MINCIOMARCIA»

*After the two years' stop due to the Covid-19 pandemic, Minciomarcia was back on track*

- The event was conceived in **1972** and this year, the **47th edition of the non-competitive walk through the streets of the center of Mantua** took place on Saturday May 28th 2022
- It has become a **traditional competition and a moment of gathering together for people of all ages** who run – or walk – **for 5 or 10 Km** through the centre of the town, **arriving at Piazza Sordello** (the main square) where **refreshments are provided for everyone**. Being non-competitive, there is **no final ranking**



*Students and Teachers of our Institute who joined the event*



# 05 | «MINCIOMARCIA»

*In 2019 Mantua was declared "European City of Sport" and hosted hundreds of sport initiatives. Minciomarcia was to become the most attended one*



- The **organizers of Minciomarcia decided to support the plastic free politics of the Municipality by eliminating as much disposable plastic objects as possible:** food and drink containers offered to participants at the end of the marathon were **completely recyclable and they were disposed of in specific bins for organic waste**
- **Making big sport events plastic free is essential** because it **helps reduce their impact on our environment**, considering the large amounts of drinks and packaged food being consumed during such events

<Compostable cups for  
drinks used at  
Minciomarcia 2022

Throwing used cups into  
organic waste bins at  
Minciomarcia 2022>





# Resources: Data, Informations, images (links):

- **Environment pollution from plastic**

<https://www.liberidallaplastica.it/>

<https://www.wwf.it/pandanews/ambiente/inquinamento/allarme-plastica-negli-oceani/>

Image from <https://www.earth.com/news/plastic-pollution-and-climate-change-are-interconnected/>

- **DIRECTIVE (EU) 2019/904 of the European Parliament and of the Council**

<https://eur-lex.europa.eu/eli/dir/2019/904/oj>

Images from <https://www.greenpeace.org/international/press-release/19031/global-survey-reveals-fmcg-companies-contribution-to-plastic-pollution-crisis/>;

<https://www.businessinsider.com/recycling-doesnt-keep-plastic-out-of-stomachs-lungs-or-blood-2022-4?r=US&IR=T>

- **Data relating to the use of disposable plastic objects before the act was introduced**

<https://marevivo.it/en/blue-news-en/italy-leader-for-the-protection-of-the-sea-marevivo-obtains-the-inclusion-of-the-amendment-that-bans-disposable-plastic-glasses-in-the-law-of-the-eu-single-use-plastic-directive/>

[https://www.feu.awsassets.panda.org/downloads/06062019\\_wwf\\_italy\\_guidebook.pdf](https://www.feu.awsassets.panda.org/downloads/06062019_wwf_italy_guidebook.pdf)

Image from <https://www.runner451.it/storia-di-corsa/maratona-alzheimer-2019-distanze-per-tutti-i-gusti-e-tanta-solidarieta/> ;

[https://stock.adobe.com/search?k=compostable&as\\_campaign=ftmigration2&as\\_channel=dpct&as\\_campclass=brand&as\\_source=ft\\_web&as\\_camptype=acquisition&as\\_audience=users&as\\_content=closure\\_tag-page](https://stock.adobe.com/search?k=compostable&as_campaign=ftmigration2&as_channel=dpct&as_campclass=brand&as_source=ft_web&as_camptype=acquisition&as_audience=users&as_content=closure_tag-page) ; <https://thecoastnews.com/wp-content/uploads/webbigstock-single-use-plastic-bottles-cu-319211257.jpg>

- **Data relating to the impact of the law in Italy**

<https://www.leccotoday.it/sport/bottiglia-plastica-inquinamento.html>

<https://www.varesenews.it/2022/01/addio-piatti-posate-plastica-usa-getta-scatta-divieto-immettere-al-consumo-prodotti-monouso/1418707/>

<https://www.ilsole24ore.com/art/da-oggi-vietato-mettere-mercato-prodotti-monouso-plastica-non-bio-AEDw4w7>

Image from <https://www.statoquotidiano.it/23/03/2022/plastica-monouso-cosa-cambia-con-la-nuova-direttiva-europea/922154/>

- **«MINCIOMARCIA» an example of plastic free event**

<https://gazzettadimantova.gelocal.it/mantova/cronaca/2019/05/21/news/torna-sabato-la-minciomarcia-in-veste-nuova-sara-plastic-free-1.32870474>

<https://gazzettadimantova.gelocal.it/mantova/cronaca/2022/05/19/news/mantova-cresce-l-attesa-per-la-minciomarcia-gli-iscritti-sono-gia-duemila-1.41452694>

Images from Official ITET MANTEGNA account on Instagram





A decorative border of tropical plants and flowers, including white lilies, pink and yellow bird of paradise flowers, and various green leaves, framing the central text.

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# Thanks!