

EY Ripples
Clean up the world & Tree
Planting

ITALY - Fiscal Year 2022



The better the question. The better the answer.
The better the world works.

 **EY Foundation**

“

Our main goal is to generate long-term value for our customers and for the community in which we operate by anticipating the expectations of stakeholders. Only if and when we take the lead on **environmental sustainability** and **inclusive growth** for all of society will we be able to **reinvent the future for the new generations**.



Massimo Antonelli

CEO EY Italy and Chief Operating Officer EY Europe West



EY Environmental Strategy

EY, besides helping its clients to create **sustainable value** and a better future, has made and delivered pioneering commitments to **make its own business more sustainable**.



Today, EY is one of the first professional services organizations to become **carbon neutral**, i.e. able to reduce and offset its emissions. EY has also joined the **Terra Carta** - a charter that puts sustainability at the heart of the private sector.

EY, EY Foundation Onlus and Legambiente have launched the **#BetterworldEYRipples** project with the aim of creating an ecosystem in which professional efficiency goes hand in hand with environmental sustainability.



In collaboration with the **Sustainable Markets Initiative** and freuds, EY have convened 30 of the world's leading C-Suite sustainability leaders in a action-focused forum called the **S30** to accelerate Business action on sustainability.

Legambiente - An EY strategic partner in Environmental change

Legambiente is an Italian non-profit organization made up of citizens who care about the protection of the environment in all its forms, the quality of life, a more equitable, just and supportive society.

It has 18 regional offices, 1000 local groups and 115,000 members and supporters.

Legambiente main purposes are related to:

- Scientific environmentalism to build policies and to advocate change towards local, national and international stakeholders and institutions
- To engage communities, stakeholders and people and enable them be the leading actors of change
- To improve the quality of life for everyone



Agenda

Clean up the word 2021

Tree planting 2022

Clean Up the world 2021

EY and EY Foundation , in collaboration with Legambiente, participated in the "clean up the world day 2021" on different dates between September and October 2021 in 9 important Italian cities, one of these located on the coast of Puglia where the volunteers organized the cleaning of the Beach. Collection monitoring activities were made possible with the use of reporting forms, identifying many categories of waste. The highest percentages of waste collected relate to plastic items, cigarette butts and glass bottles.

The Legambiente volunteers and the EY volunteers have come together for a common purpose of global interest: the recycling of waste and the redevelopment of natural environments, the lungs of our cities. Thanks to this strong alliance, we were able to collect kg of waste.



 Event regularly held

 Event postponed due to adverse atmospheric conditions

Clean Up the world 2021 - Participants overview

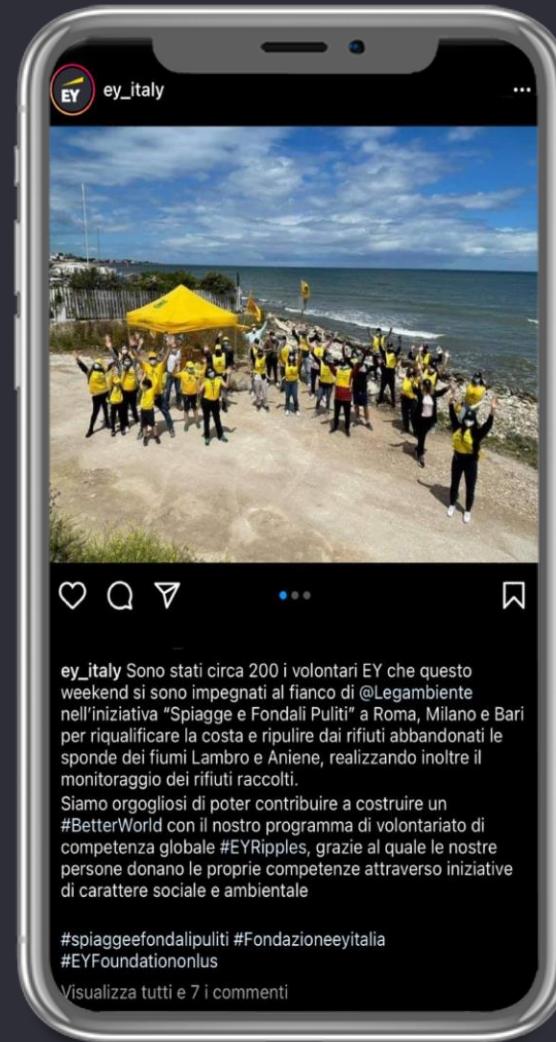
More than 248 EY volunteers, with relatives and friends, helped Legambiente volunteers by picking up litter in green areas and beaches.



74 %
INTERN/STAFF/SENIOR



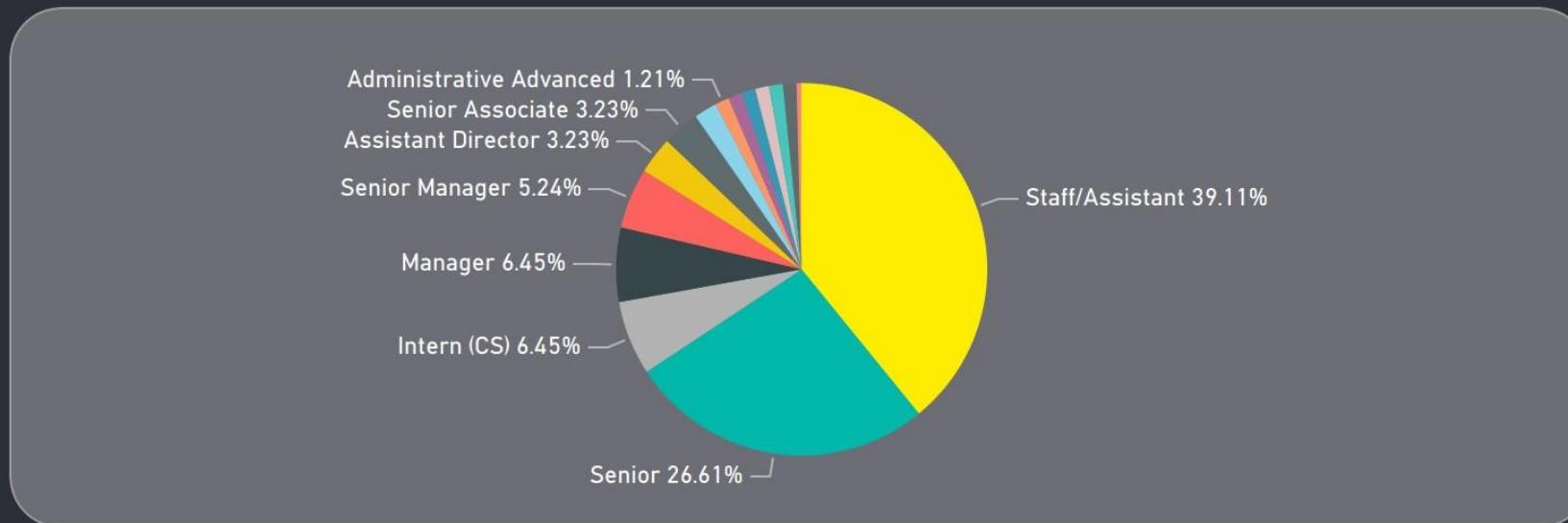
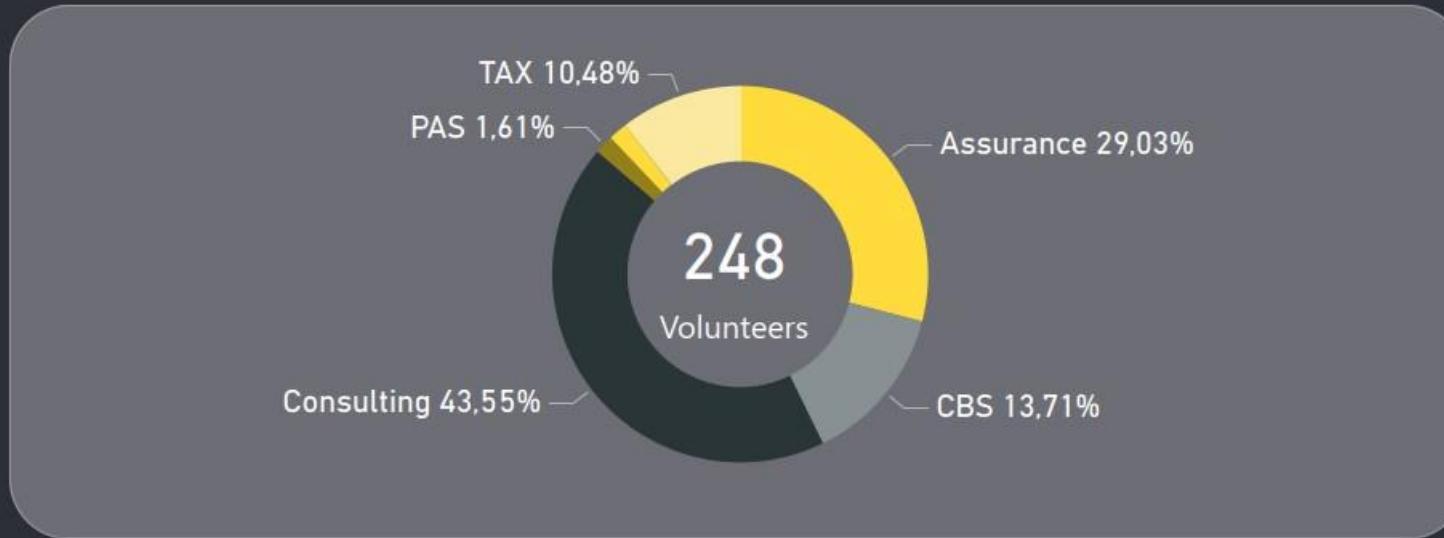
26 %
EXECUTIVES



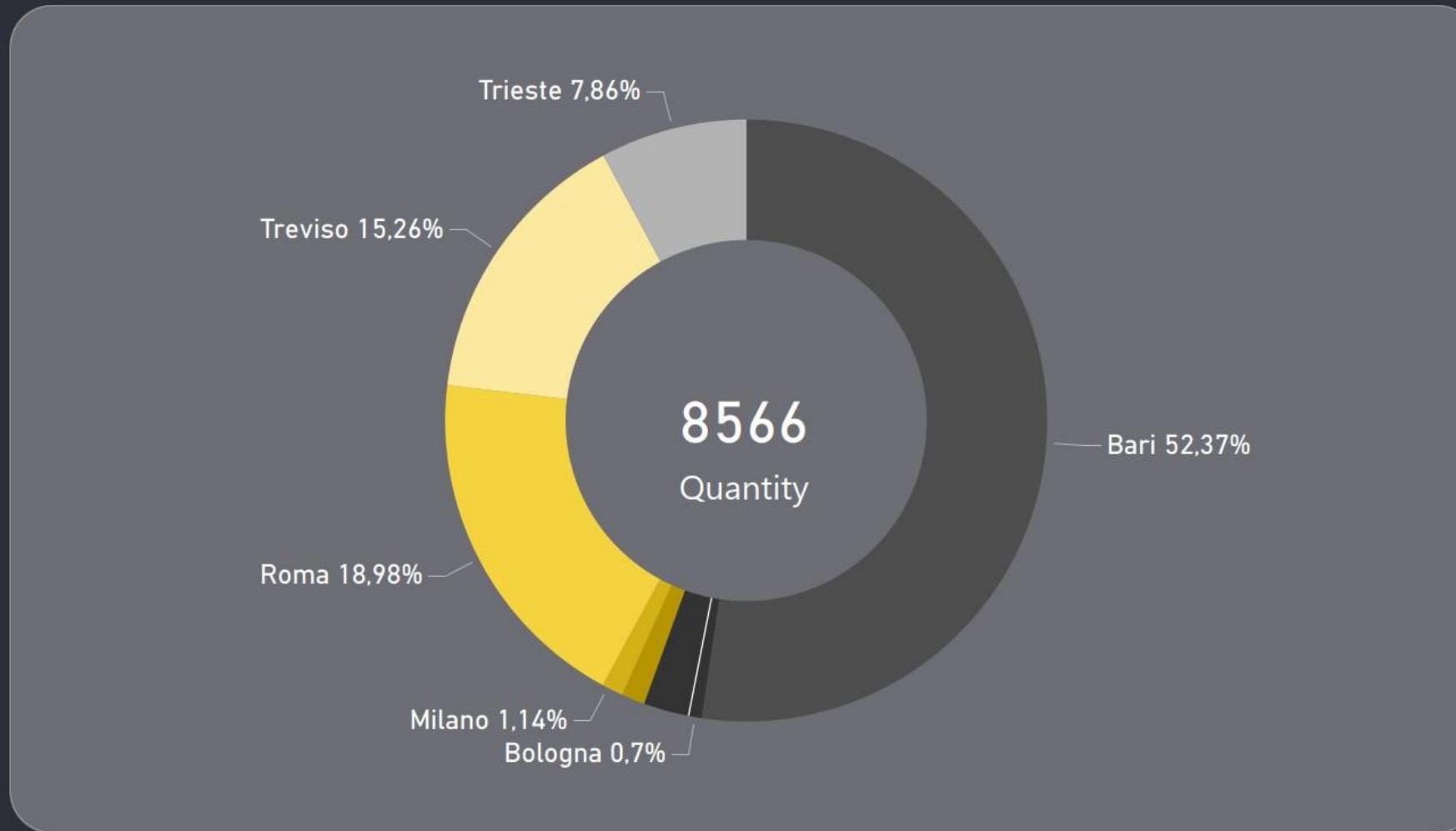
EY Italia

EY Foundation

Deep on Waste - EY Volunteers Business Lines and Ranks



Deep on Waste - Waste Quantity Removed from the Environment by City



Waste Degradation Times

Weeks

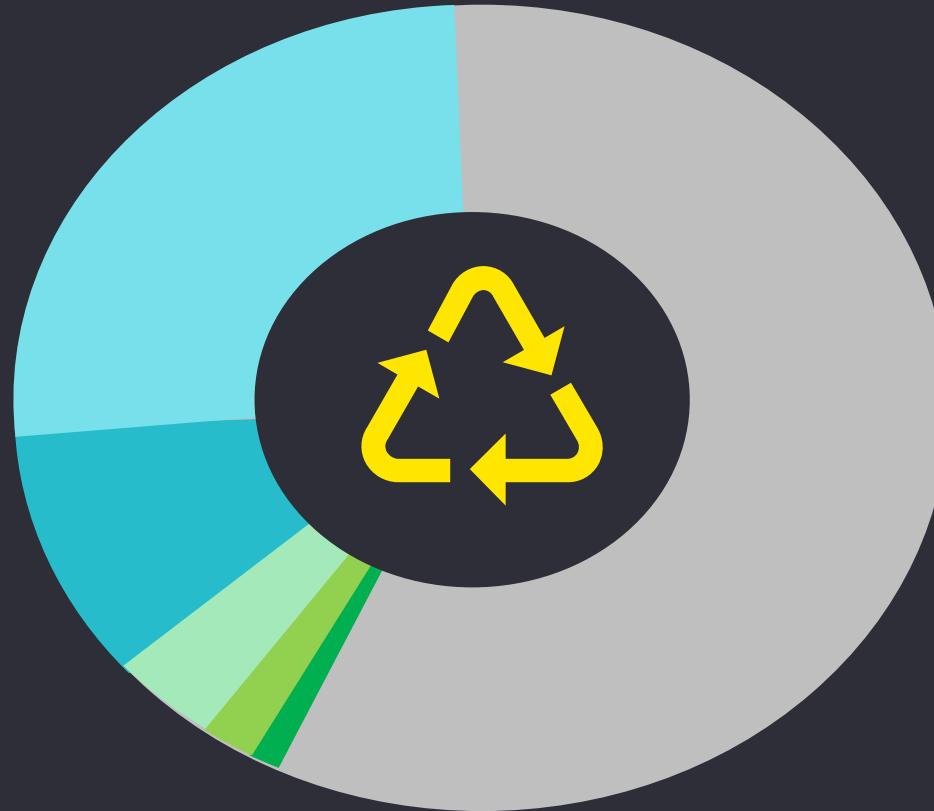
Organic waste
handkerchiefs and paper
bags, newspapers

Months

Containers of milk and fruit
juices, carton, Cotton
garments

2-5 Years

Plywood, cigarette
butts, Heavy wool clothing



10-40 Years

tights and windbreakers,
carpet, disposable
diapers, cans, car
tires, leather

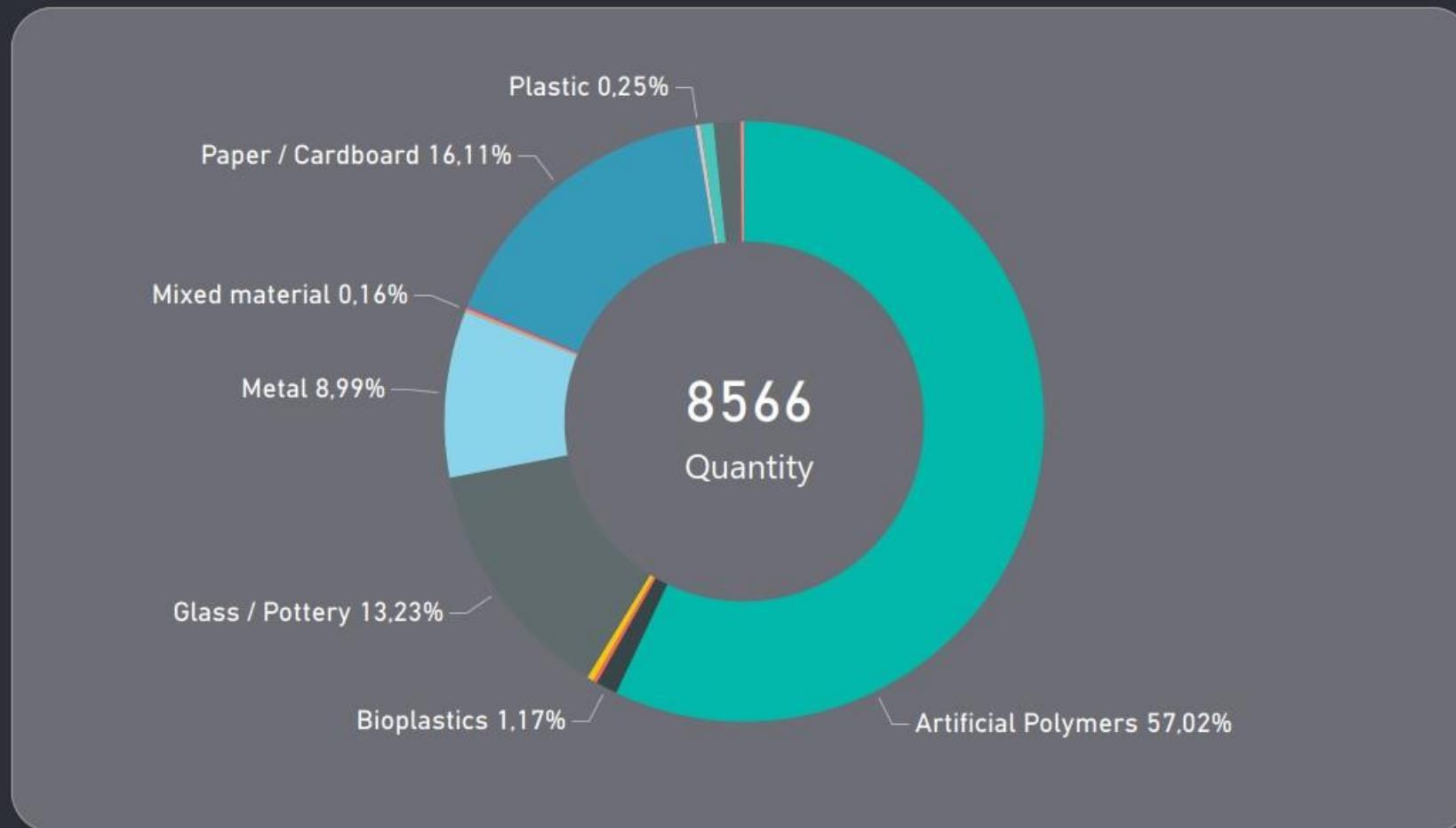
200-500 Years

Aluminium cans and plastic
bottles

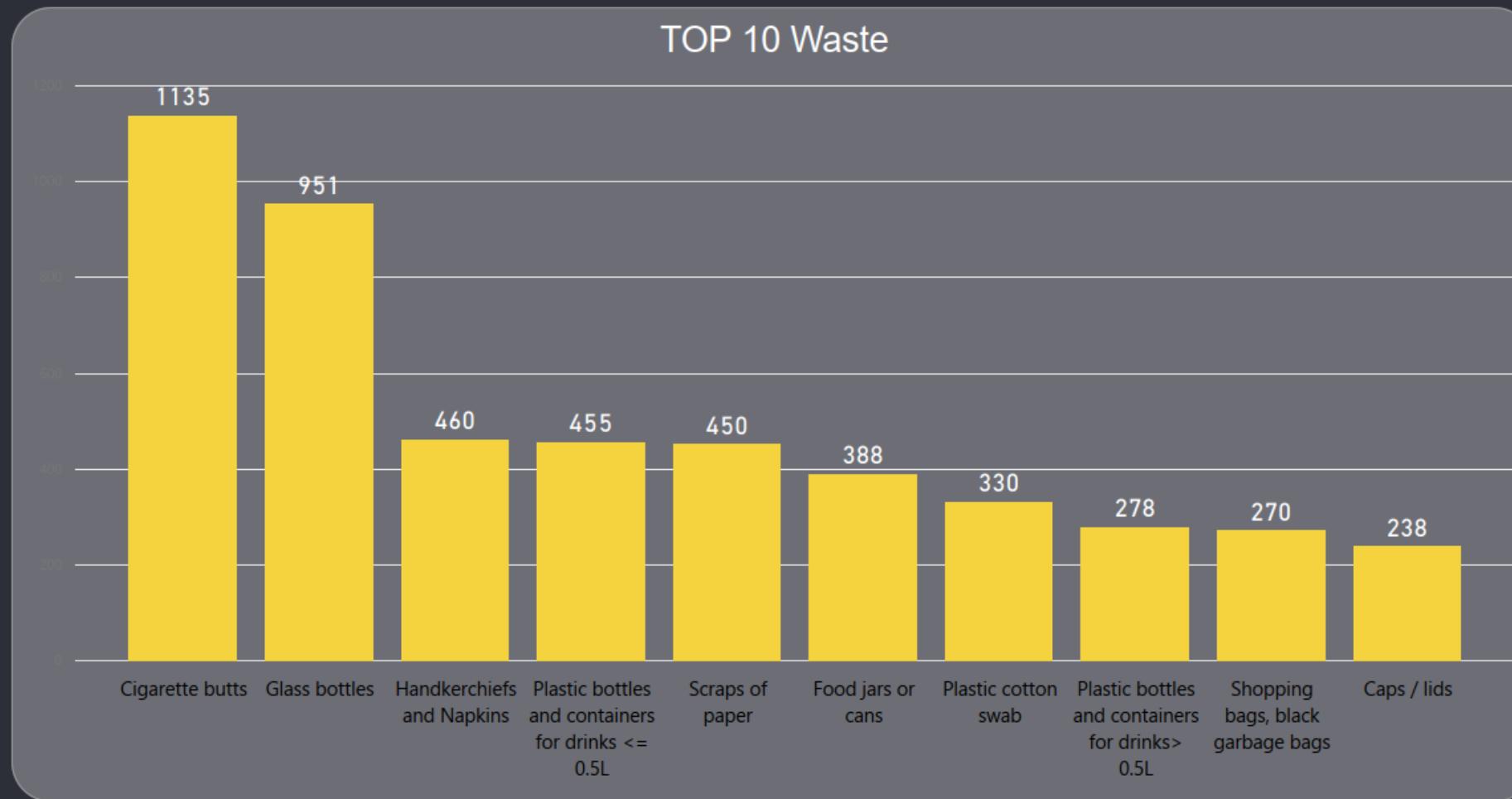
Over 1000 Years

Glass jars and bottles

Deep on Waste - Waste Type



Deep on Waste - Top 10 Waste Collected



Agenda

Clean up the word 2021

Tree planting 2022

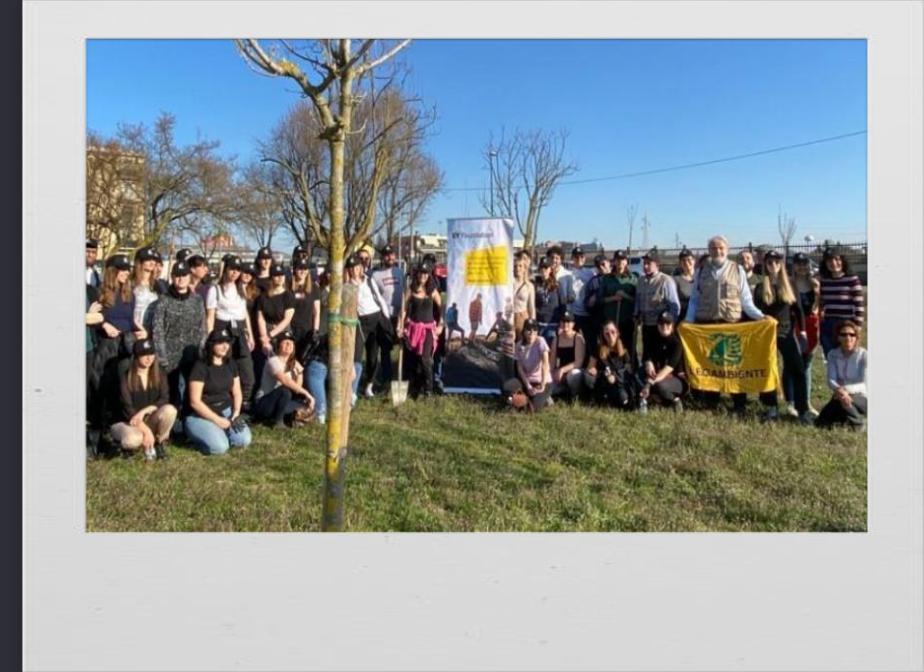
Tree planting 2022

As part of #betterworld and in line with the sustainability initiatives implemented by Europe West and with the actions of our sustainability plan, the EY Foundation joined European Life Terra project.

Reduction of particulate matter and CO₂, temperature mitigation, water regulation and increase in property value. These are some of the advantages of the presence of trees and forests in cities, which the health emergency and the months of lockdown have highlighted even more the importance of having easily accessible and well-distributed green spaces throughout the urban areas

The EY tree planting activities for the spring 2022 period included the following steps

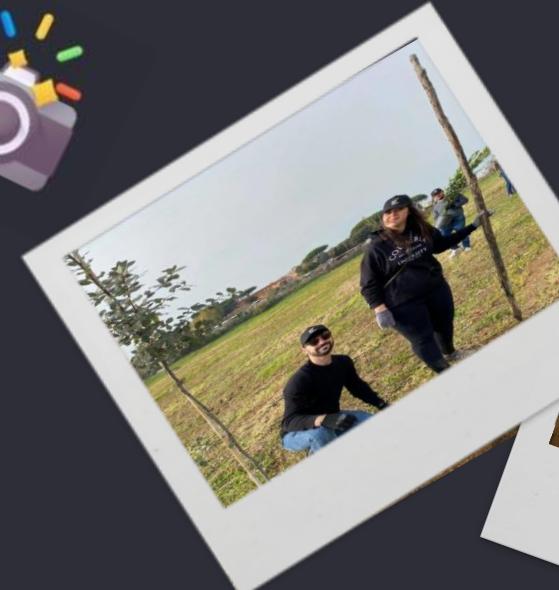
- Planting by EY volunteers of n. 100 trees in urban areas identified by Legambiente for redevelopment in Milan and Rome (March 2022)
- Planting by professional workers of the Albero & Legno consortium in Mantova area, of 6,300 trees





Planting event Rome - Participant and activity Overview

The activity involved around **70 EY volunteers** who, in March, worked with Legambiente to help in a tree planting action to requalify **Riserva Naturale Dell'Acqua Fredda** area. The volunteers were able to use their personal kits, provided by **Legambiente**, to help plant trees.





Planting event Rome - Park overview



02/03/2022



Vicolo dei Casali di Acquafrredda, 35, 00166 Roma RM



Trees planted 50: 18 Holm oaks (*Quercus ilex*), age 8 years;
32 laurels (*Laurus nobilis*), age 5 years



(Holm oak)



(Laurel)



The natural reserve of the Tenuta di Acquafrredda is a protected natural area located in the municipality of Rome, included in the Casalotti area. The reserve occupies an area of 254 hectares in the environmental ecosystem Ponte Galeria - Arrone, in the Aurelio suburb in Rome. Guided tours are organized at the park by the schools to admire the typical local fauna.



Planting event Rome - Trees



	18 Holm Oaks
	32 Laurels
	24/03/2022
	Lat. 45°32'22"N
	Long. 9°09'24"E

Results of cherry tree study

KPI	RESULT
Environmental mitigation capabilities	great
CO2 absorption [Kg/year]	140
Potential absorption of gaseous pollutants	high
Dust capture potential	high

KPI	RESULT
Environmental mitigation capabilities	good
CO2 absorption [Kg/year]	22,5
Potential absorption of gaseous pollutants	medium
Dust capture potential	medium

There are numerous benefits of planting trees. New trees means more biodiversity, improving water and air quality, presence of more cool areas in summer etc.

A study***** *by the CNR of Bologna in 2017 made it possible to evaluate how much a tree is able to absorb the CO2 emitted, also proposing a classification based on different parameters

Holm Oak

Laurel



Planting event Milano - Overview

24/03/2022



50 Cherry
Trees



Lat. 45°32'22"N
Long. 9°09'24"E



The planting activity concerned **50 cherry trees of 5 years of age** and took place in Cormano in the Public Park between via Eritrea and via Kennedy.

The chosen area is part of the Balossa Park with an area of about 146 hectares, completely flat and divided between the municipalities of Cormano and Novate Milanese.

The park is frequented by residents, groups of teenagers, families and children given the high urbanization of the area.





Planting event Milano - Trees

24/03/2022



50 Cherry
Trees



Lat. 45°32'22"N
Long. 9°09'24"E



Results of cherry tree study

KPI

RESULT

Environmental mitigation capabilities

good

CO2 absorption [Kg/year]

85

Potential absorption of gaseous pollutants

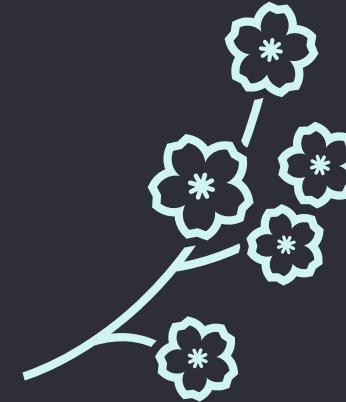
good

Dust capture potential

high

There are numerous benefits of planting trees. New trees means more biodiversity, improving water and air quality, presence of more cool areas in summer etc.

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Benefits of planting trees



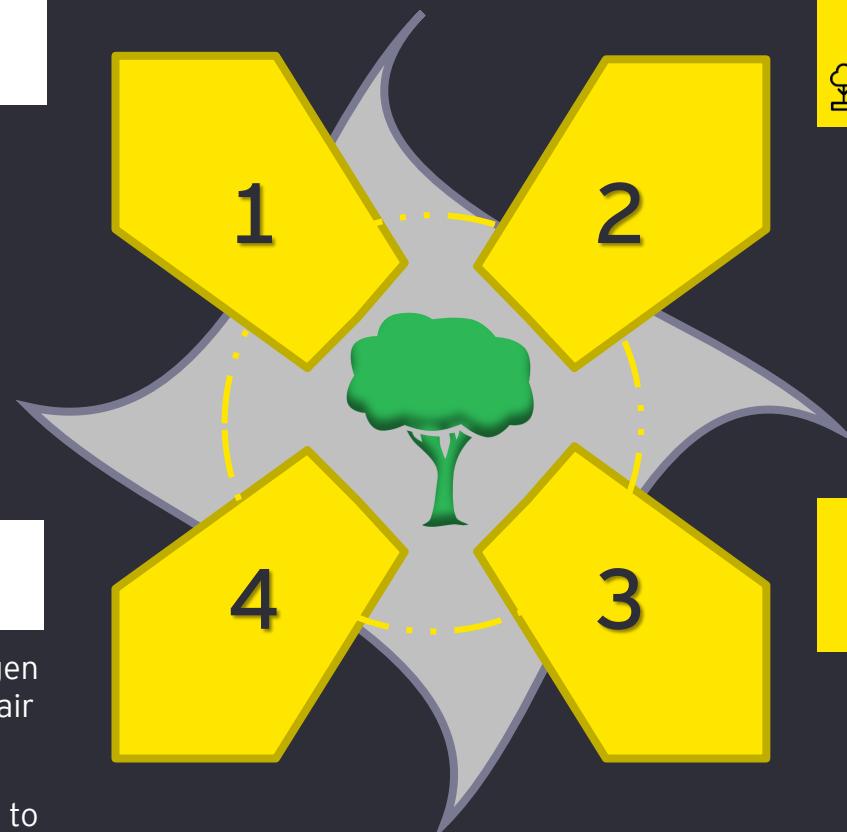
Social benefits

- ▶ Provide positive impact on mental health and wellbeing by reducing stress
- ▶ Promote outdoor activities
- ▶ Educate about the benefits of nature
- ▶ Improve cognitive development and education



Environmental benefits

- ▶ Improve air quality, providing oxygen and removing CO₂/pollution from the air
- ▶ Increase resilience to climate change
- ▶ Create wildlife habitat adding to biodiversity
- ▶ Reduce the urban heat island effect



Communal benefits

- ▶ Build community spirit and ties
- ▶ Complement the architecture or design of buildings or entire neighborhoods
- ▶ Reduce crime and decrease violence



Economic benefits

- ▶ Reduce energy use and bills
- ▶ Increase home prices and rental rates
- ▶ Support tourism and contribute to local economies
- ▶ Reduce greenspace management costs

Sources:

<https://nph.onlinelibrary.wiley.com/doi/full/10.1002/ppp3.39>

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/718033/eng-casefortrees.pdf



CO2 Absorption Kg/a

Plant	CO2 ABSORPTION Kg/a	
	First 5 years average	Annual Average
Cherry tree	61	85
Holm oaks	103	140
Laurel	16	22,5

2025

Cherry	268 kg
Holm oaks	449 kg
Laurels	70,5 kg



2023

Cherry	146 kg
Holm oaks	243 kg
Laurels	38,5 kg



Cherry	329 kg
Holm oaks	652 kg
Laurels	86,5 kg

2026



Cherry	207 kg
Holm oaks	346 kg
Laurels	54,5 kg

2024



Cherry	85 kg
Holm oaks	140 kg
Laurels	22,5 kg

2022

EY | Building a better working world

EY exists to build a better working world, helping to create long-term value for clients, people and society and build trust in the capital markets.

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Working across assurance, consulting, law, strategy, tax and transactions, EY teams ask better questions to find new answers for the complex issues facing our world today.

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