

Choose **tra** the best solutions  
for waste valorisation



quantity  
convenience  
quality  
protection  
communication





**Our** purpose is to take all suitable measures to offer a prompt and efficient response to all the problems related to the treatment and valorisation of waste.

Let's recover the future

Nowadays we all share one truth: thinking about the waste means to imagine the future, rather than to dream of the past.

If the collection  
**areas**  
are **insufficient**  
If the treatment  
**time**  
is **excessive**  
Waste **management**  
**is** a real  
**problem**

but

if a collection area  
is made  
available  
if the waste  
processing time  
is fast  
waste management  
**has** a solution

**if** You  
want  
we **can** offer

Then you can choose **tra** the best in the field of waste valorisation.

# 5 solutions

**TECNO RICICLO AMBIENTE** (TRA) is a first level plant for processing recycled waste. A specialized plant for the storage, selection and treatment of waste, mainly coming from separate waste collection. The plant can process the main types of waste: multi-material from Separate Waste Collection (SWC).

**We** have dedicated significant resources to find solutions which would ensure both the efficiency of the service provided and a real advantage in terms of competitiveness and cost effectiveness.



**1** Our plant can accommodate a large **Quantity** of waste by providing a sizable space for waste collection and storage, originating both from the neighbouring area and by the main institutions.

**2** Our geographic and strategic position allows anybody to reach us but, above all, it allows us to deliver and ship the materials in a faster and more **Practical** way.

**3** The innovation of our latest generation plant and its characteristics increase the **Quality** of each phase of the manufacturing process, significantly reducing the environmental impact.

**4** In addition, we promote an ethical and responsible approach to waste management by adopting behaviours aiming at the respect and **Protection** of the environment and our operators.

**5** We address professionals, but we also actively manage the social **Communication** with the surrounding area. In fact, we are well aware that the valorisation of the waste begins within the community, which is often unaware and not informed. It is therefore necessary to devise and implement a number of educational projects in order to raise awareness and involve people in the recycling process.

# 1 Quantity



96t<sub>ons</sub> per Day

**TRA** is the third largest waste recycling and recovery plant in the Lazio Region.

We are able to treat various types of waste in an environmentally sound way. We represent a safe and competent partner for institutions and companies for waste management and recovery.

**Our** operating facility consists of an internal area of 7,000 sq. mt. (about 75.000 sq. ft.) and an external fenced area of about 2,000 sq. mt. (about 21.500 sq. ft.)

The potential and versatility of the TRA system allows to work with several different types of waste, of different composition and origin. The plant operates **24/7** and can process approximately 96 tons of dry material per day, which is an average of about 8 tons per hour.

Beside housing two processing lines, the plant accommodates in the external area part of the output materials, collected in

prefabricated covered containers and other mobile containers.

The maximum processing capacity of the **GPC** (Glass - Plastic - Cans) line is **96 TPD**. Though the capacity is not high, the type of prevailing material originates from long-established collection circuits. Therefore, careful planning makes it possible to manage the plant without problems of over or under load.

*The activities to be carried out, broken down by the two processing lines, and the related EWC codes (European Waste Catalogue) of the involved inbound and outbound waste are indicated below.*

The inbound waste to the GPC line is:	
EWC	Description
020104	Waste plastic (excluding packaging)
101112	Waste glass other than those mentioned in EWC 101111
150101	Packaging in paper and cardboard
150102	Plastic packaging
150104	Metallic packaging
150105	Composite packaging
150106	Mixed packaging
150107	Glass packaging
160119	Plastic
160120	Glass
170202	Glass
170203	Plastic
191202	Ferrous metals
191203	NON-ferrous metals
191204	Plastic and rubber
191205	Glass
191212	Other wastes (including mixed materials) from mechanical waste treatment other than those mentioned in 19 12 11

The inbound waste to the FS line is:	
EWC	Description
020104	Waste plastic (excluding packaging)
030101	Waste bark and cork
030105	Sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
070213	Waste plastic
150101	Packaging in paper and cardboard
150102	Plastic packaging
150103	Wooden packaging
150105	Composite packaging
150106	Mixed packaging
160103	End-of-life tyres
160119	Plastic
170201	Wood
170203	Plastic
191201	Paper and cardboard
191204	Plastic and rubber
191207	Wood other than that mentioned in 19 12 06
191210	Combustible waste (RDF: Refuse-Derived fuel)
191212	Other wastes (including mixed materials) from mechanical waste treatment other than those mentioned in 19 12 11

## 2 Convenience







**We** operate in the waste treatment and transport sector with the commitment to manage our recovery plant in harmony with the principles of environmental compatibility and respect of the hosting territory.

We have chosen a position which is **strategic to the center and south of Italy**. The area is especially well served by transport routes, so that customers can reach us quickly and conveniently. Furthermore, we can guarantee double entry mode. We wish to point out the proximity to the **A1 and A24 motorways**, the main Italian arterial roads. The nearest tollgate is just 6 km away, so that it is possible to reach us via ordinary roads.

Another strong point of our logistics area is the presence of a railway junction, built to serve the numerous neighbouring factories. One of the rails is adjacent to the west side of the TRA struc-

ture and is equipped with a download platform. Potentially the input and output of the waste to and from the plant could also take place through railway carriages with obvious benefits for the environment, road traffic and operational efficiency, in logistics activities as well as for the advantage in terms of cost reduction.

Another noteworthy element is the positioning of the building in the **OASI area** (Industrial Development Area): we are in fact fully within the industrial hub, made available by the municipality, and more than 7 km away from the nearby town.

The waste retention times are of a few days. This allows us to adequately plan the transport of the output to their next destination.

We are also a reliable and competent partner for **waste transport on behalf of third parties**. By mean of this, we are able to take on and fulfill the terms of important commit-

ments towards our customers, to whom we guarantee maximum availability, speed and punctuality in transport.

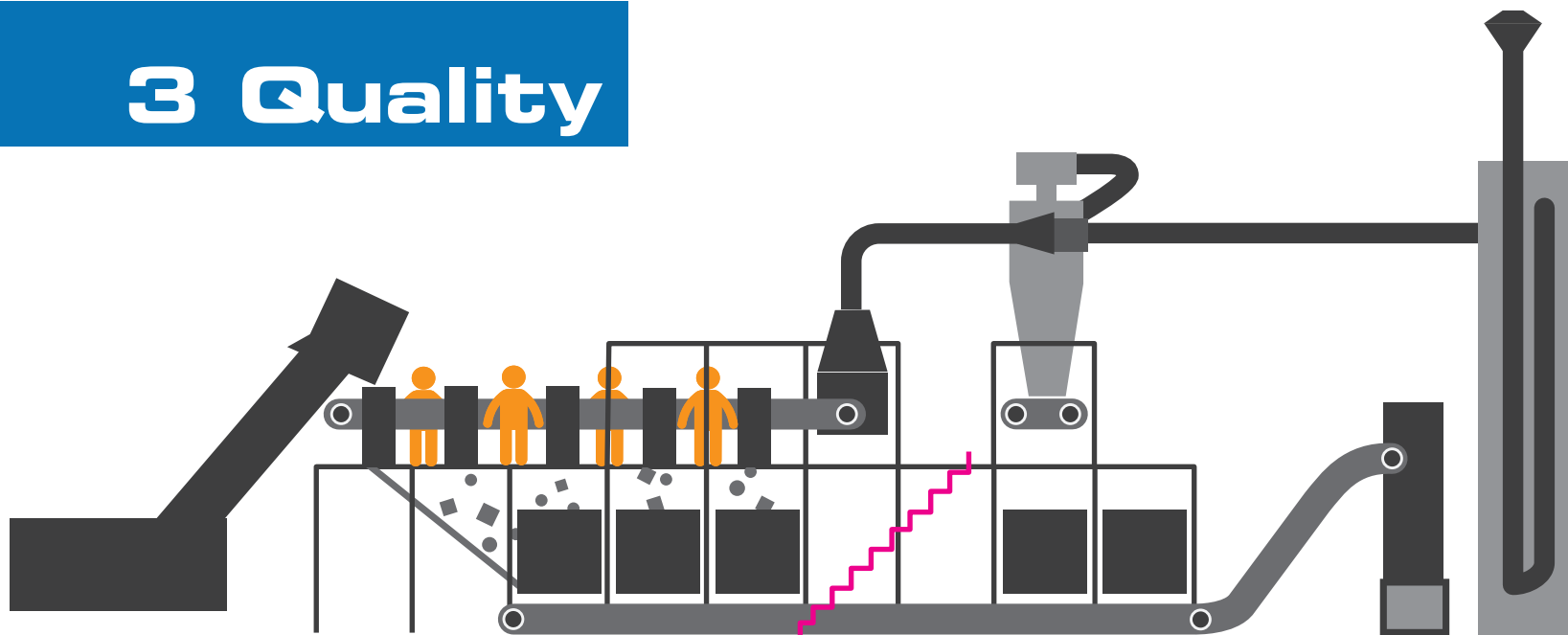
The fleet of vehicles (trailer trucks, lorries, articulated lorries and tractors) is constantly maintained. This allows us to better respond to any need, **making the ideal vehicle available**, based on the material to be transported and the distance to travel.

The service addresses waste producers, as well as transport and/or brokerage companies operating in the sector.

We ensure reliability, transparency and quality. We offer assistance in both preliminary and operational phases.

As we wish to offer a complete range of solutions for the collection and the correct recovery of the waste, we also provide the interested parties (supermarkets, companies and agencies) the possibility **to rent out containers for storing and collecting the waste** generated on site.

## 3 Quality



**The** strong know-how acquired over the years, the technological value of our plant and the continuous search for innovative solutions make us a leading company at the forefront in the treatment and valorisation of waste.

Our operating facility consists of an external area for the exchange phases of the material and an internal area divided lengthways by a wall into two separate compartments.

# innovation

**Storage area:** in this area a section is dedicated to the incoming waste while a second area hosts boxes containing eco-friendly bales and containers with outbound glass. The storage area inside the warehouse is equipped with a containment curb and a continuous ventilation system. The electrical system and the equipment used in the area are non-explosive. Furthermore, the area is equipped with a fire detection system and connected

to the automatic foaming fire-extinguishing system.

The waste, treated and stored outside in eco-friendly bales, is then placed on the transportation means which will take them to their final destinations.

**Plant area:** this section hosts the planned selection lines, the loading areas and the minor storage areas for outgoing waste, as well as the internal traffic circulation for the vehicles used to move

materials (forklifts, mechanical shovels, etc.).

The TRA plant is located in this area and it operates on two processing lines: Multi-material from SWC (Separate waste collection) and DF (Dry fraction), which can also work with partial overlapping time and share the final part of the process, i.e. pressing of homogeneous fractions alternatively activated.

The plant selects mixed materials (GPC) through selection and screening processes, which separate the waste into homogeneous materials as required by the related supply chain consortia. The latest generation machines, with low environmental impact, represent a plus of our waste treatment systems.

The dry selection plant is based on a fully automated advanced technology that allows to significantly increase the recovery of domestic waste collection, obtaining a **zero-waste processing**.

The separate waste collection circuit and the automated selection plant are absolutely virtuous to the extent that they dramatically reduce the disposed waste, and thus significantly reducing the costs for the community.

In addition to a careful manual selection process, the TRA also implements **innovative optical reading systems** which allow an automatic selection of different kind of waste and a high recovery of recyclable materials.

Furthermore, a modern software management system via touch screen enriches and completes the plant, performing a constant monitoring and calibration of each stage of the manufacturing process.

Great efficiency, safe performance and a particularly robust and highly innovative construction are the distinguishing marks of the TRA system, able to satisfy the most diverse production needs. The plant, devised for intensive use, features highest quality components: from special steel blades, to the anti-wear treatment of the grills of the rotating sieve, from the extraction fans to the powerful magnets that collect impurities and foreign particles.

Each component is resistant and with an optimal life cycle thanks to the use of specific

technical measures, such as cooling systems and inverters, which allow a drastic cut down of maintenance.

The customer who turns to us relies on customized solutions and remains assured that the waste produced is managed in the most correct way; therefore, we offer full guarantee of compliance with legal regulations, bureaucratic and administrative procedures.

A professional and competent team, together with the innovation and the quality of the results achieved and the satisfaction of our customers, have always been and always will be the strength and the distinguishing mark of our

company. We aim at excellence and we want to become soon leaders in the sector.



# 4 Protection

**The** result of our work is a high-quality service, always ensuring full compliance with regulatory provisions combined with functionality, efficiency and reliability, resulting from the application of rigorous procedures in continuous evolution.

In our business we promote an ethical and responsible approach to waste management by constantly adopting behaviours which ensure the quality of the work and the **lowest possible environmental impact**.

In addition to environmental protection policies, we seek the protection of **workers' health and safety**, committing ourselves to the full compliance with the laws and regulations in force.

We direct our strategies to the prevention of pollution, to the safeguarding and continuous improvement of the internal and external work environment, enhancing the sharing and participation of all the staff in achieving these goals.



# e nvironment

**TRA** is committed to a management compliant with the standards, as for health and safety, quality and environment. The system aims at implementing the following principles:

- preserve the environment, the health and safety of the workers in the overall workplace.
- pursue a continuous improvement of performance and quality, as well as of the environmental and workers' health and safety, through adequate annual programs.
- meet the applicable requirements of law.
- adopt processes and methods of selection and shredding to obtain quality materials, environmentally save and healthy.
- adopt state-of-the-art processes and programs to reduce consumption of resources.
- promote the knowledge of health, safety and environment themes involving the staff and providing information and training for all employees.

- improve internal efficiency, through the analysis of the main operating procedures and by adopting the best technical means.

- make the appropriate human, economic and technological resources available, in order to achieve our goals and to continuously improve the performance in terms of **Quality, Environment, Health and Safety**.

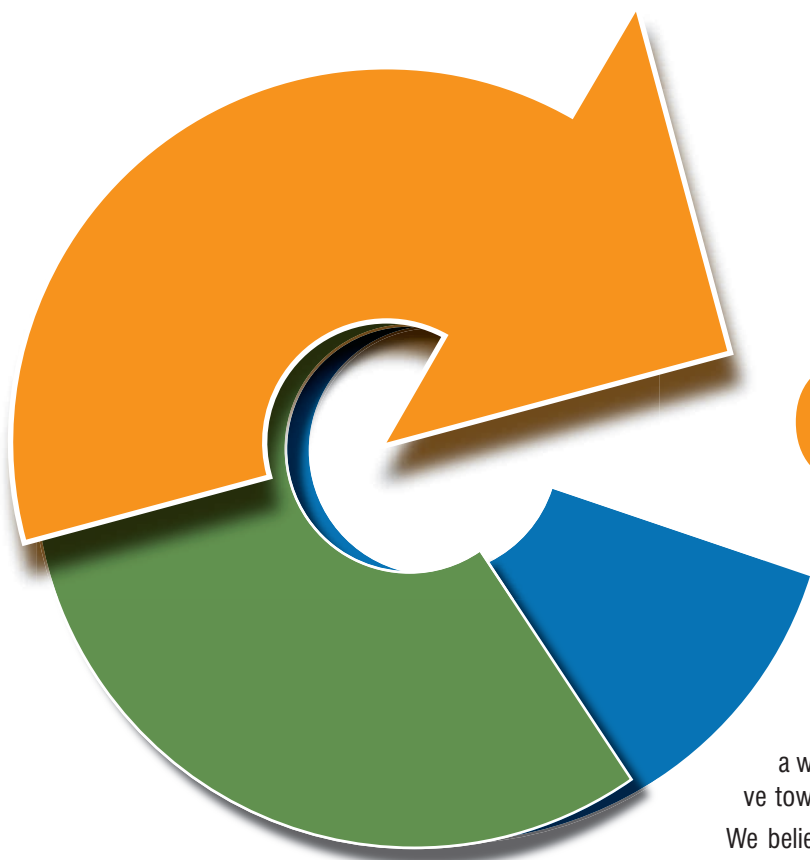
The TRA operators are skilled technicians, highly professional and competent.

The basic elements of the safety and health of our workers are: the scented essences, the air conditioning system, the cleaning of the building, the absence of water discharges and gaseous or harmful emissions, the absence of irritating or

toxic compounds, the presence of an oversized fire-extinguishing system, an air aspiration and treatment system. These are all measures designed to protect the health of our workers in the workplace.

This policy applies to all executive and staff training processes, for material selection, plant and equipment maintenance, as well as the operational management of internal activities.

## 5 Communication



o m m u n  c

**We** always work in a way to constitute a drive towards the future.

We believe in the importance of creating a strong bond with the territory and the citizens. This is not only business-linked but also cultural, aimed at the valorisation of waste,

environmental education and compliance with regulations.

The process of recovery and recycling of waste begins with the citizens and it is therefore essential to involve them and inform them through specially designed awareness-raising campaigns and social com-

munication on the territory.

This is a first of many steps. Achieving and fulfilling the interests of citizens is our main objective.

We do it, and we will do it more and more intensely and with always more dedication.

We work with perseverance to

design and implement multiple projects and initiatives, whose aim is to motivate families, schools, hangouts, local companies and institutions, for the benefit of the entire area and the future generations.

# a z o n

## EDUCATIONAL PROJECTS

We promote environmental educational projects aimed at **schools**, carried out with different methods and characteristics carefully studied and defined.

The partnership takes place with schools, associations



and cooperatives whose aim is to teach and educate about the themes of separate waste collection and waste valorisation process.

The projects are integrated in **structured educational paths** and include several activities, involving students and teachers in a synergic way.

Guided visits to the plant,

photo contests, hands-on laboratories, outdoor activities, animated readings and games, are some examples.

Furthermore, we intercepted the need to implement training and refresher courses for teachers, in order to make them attend in person and to guarantee

a good level of knowledge and skills on the matter.



## PUBLIC AWARENESS-RAISING CAMPAIGNS

Among its activities, **TRA** includes information, communication and environmental education for citizens of

all age groups, aware that the correct management of waste can not just be

an industrial activity: it also depends on the constant cooperation between the company and the community.

In this respect we are planning various awareness-raising campaigns to be presented and implemented in the most



important hangouts in the area (parishes, public parks, senior centres, etc.) where you can meet citizens directly to get them involved and inform them about



the main themes of separate waste collection and phases of material recycling process.





**wetrasform**  
waste into a resource