TST
TRENNSO TECHNIK

Solutions for Recycling.

100 % purity with impressive productivity.

trennso-technik.de

TST System Technology.
Successfully operating worldwide!

Conserve raw materials: Today and in the future.

Globally, the price of raw materials is rising over the long term. And every person in the European Union produces on average more than half a ton of garbage per year. Increased consumption, including in emerging industrial countries, means that the rapid increase is a global trend.

This is the present situation. All regularly published figures clearly express one thing: the immense potential of recycling as a global economic factor. The volume of reclaimed raw materials is increasing consistently as a result of norms and laws. Forecasts for the development of raw material deposits and the demand for these mean that forward-looking and sustainable solutions are urgently required.

The quality of secondary raw materials should, however, be as close as possible to the original, and recycling should take place in an energy-efficient manner. This is where the separation and sorting of various waste products in the dry separation process comes into play, the technology for which is the domain of Trennso-Technik.

With entrepreneurial vision and clear principles, Trennso-Technik sets the standard in continual development of dry separation processes: for a future that also provides compelling perspectives for future generations, through the careful use of resources, raw materials and foodstuffs.

More than 20 years ago, the Bavarian family business Trennso-Technik had already recognized the fundamental challenge for the future: conserve resources, reclaim valuable raw materials and save energy in doing so. The result of setting this goal: pioneering solutions by Trennso-Technik to separate and sort bulk materials.

We complete the tasks set by our customers with passion and creativity, with the twin goals of highest efficiency and purity.

Separating and sorting machines are at the heart of every system, and represent the core competence of Trennso-Technik.

We offer systems that are complete, turnkey solutions tailored to customer requirements as well as machines and modules.

With their innovative technology and durable build, these can also be integrated into existing third-party systems to significantly increase performance value.

We have optimized the dry separation process, separating bulk materials or products pre-shredded to bulk materials with a degree of purity of up to 100 %.

TST solutions also include feeding and conveying technology, aspiration technology, electrical and control engineering as well as the installation and startup of the system. We ensure that our systems conform to individual customer requirements through comprehensive testing in our own technology center. Continuous operation of many systems in a three-shift rotation speaks for the high level of process security and the quality of our products and services. Whether the throughput rate is a few kilograms or multiple tons per hour makes no difference.

We have invested in a modern, company-owned technology center, an indispensable process component between planning and manufacture. Here, all solutions are tested as to their separating viability.

The results thus gained are the basis for planning and imple- mentation of customer-specific systems. These test runs guarantee customers the security of optimized process engineering procedures and a highly-functional, reliable concept.

Municipal and Industrial Waste

Reclaiming secondary raw materials and mineral fractions!

For operators of waste processing plants for municipal and industrial waste, the explosion in the price of raw materials and energy development means that fine treatment increases in significance.

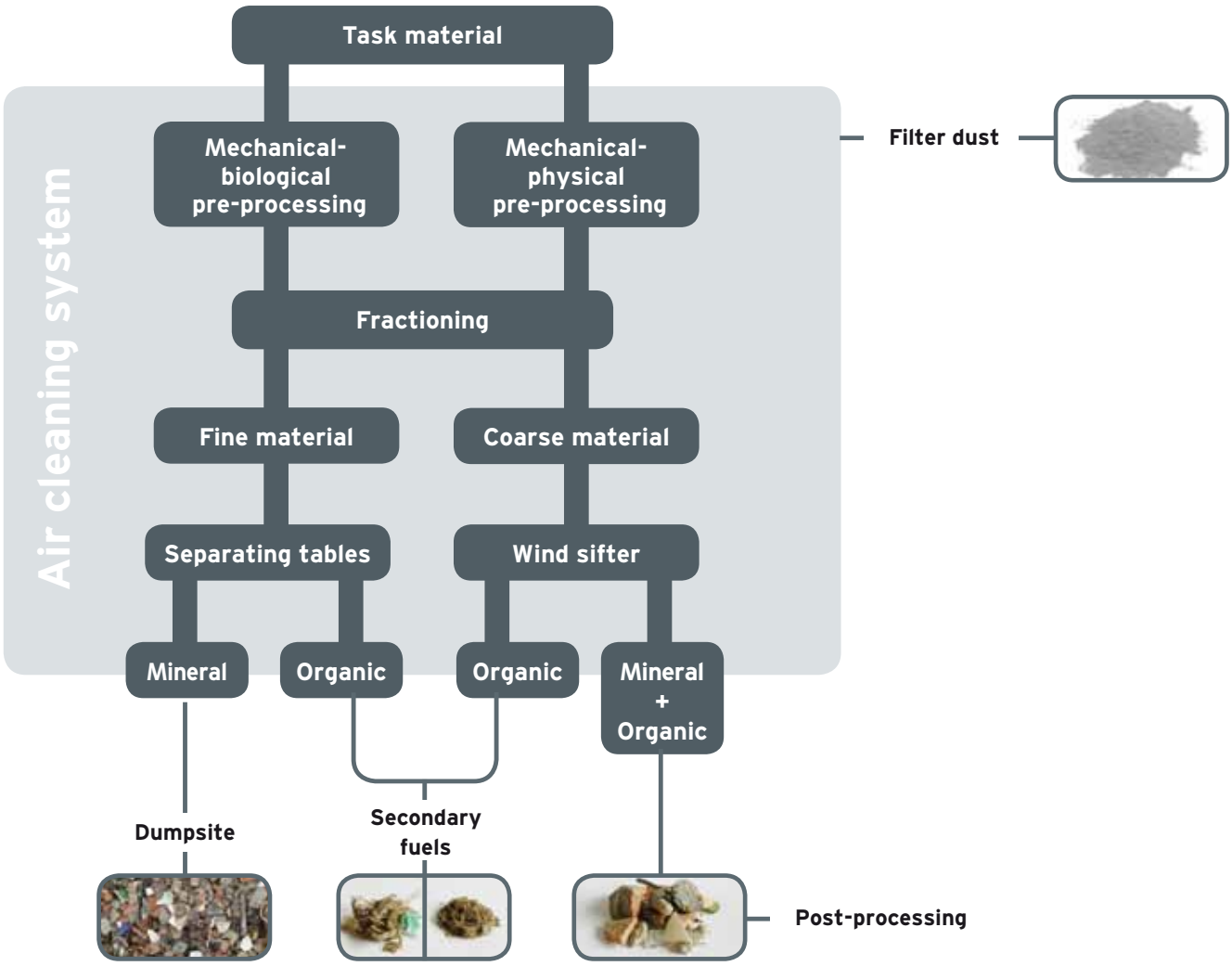
Reclaim valuable raw materials as well as secondary fuels and mineral fractions with TST. Save storage space and generate significant economic advantages.

Potential additional revenue of up to 1 million Euros at an annual output rate of 100,000 t speak in economic terms for the integration of fine treatment into existing MBT plants.

TST specializes in the development of individual, customer-specific systems. From planning and conception to engineering, manufacture and installation, TST offers the full range of expertise from a single source.

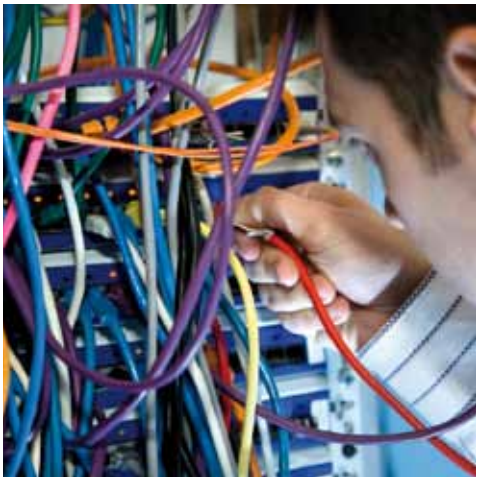
- Highly-efficient separation of municipal and industrial waste into its component parts
- Reclamation of valuable raw materials, secondary fuels and mineral fractions
- Additions to existing systems with TST system technology
- Reconfiguration of complete systems

Type of municipal and industrial waste processing system:
In various shredding stages, municipal and industrial waste is broken down into its constituent parts, which are then separated from one another in the relevant separation stages, according to customer requirements regarding yield and purity.



Electrical Cables

Save valuable raw materials!



The recycling of electrical cables and the reintroduction of valuable raw materials into the economic cycle is more important today than ever before. Copper obtains high prices on the commodities market and offers excellent potential for operators of processing plants. Reclaiming the plastic casing is also an important process in light of oil price developments and global climate objectives.

In the TST process steps, the ferrous fraction is initially separated out by means of a pre-shredding stage and magnetic system.

The feed material is separated into its component parts through further granulation and shredding, with up to 100 % purity.

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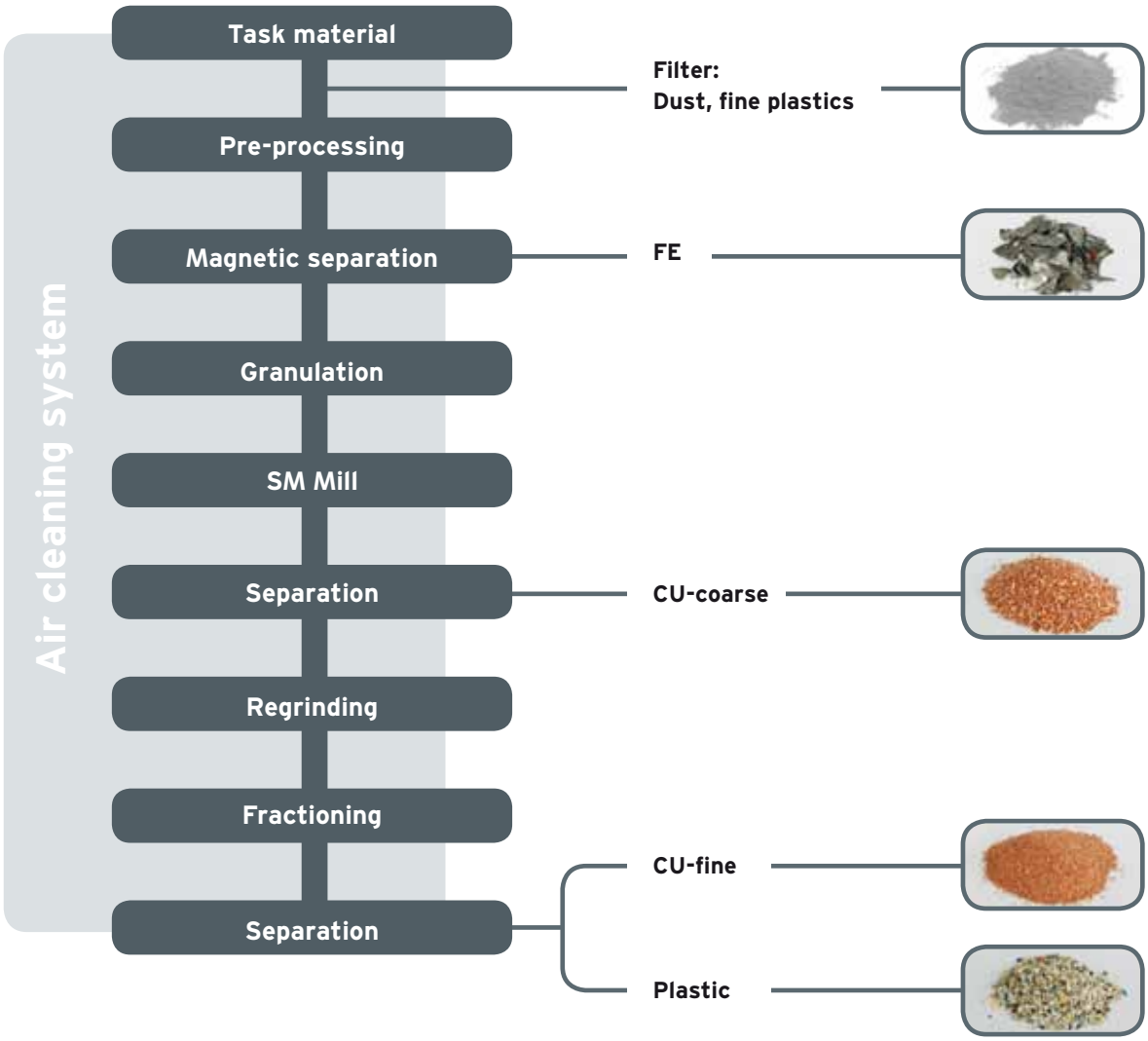
- Highly-efficient separation of electrical cables into their component parts
- Reclamation of valuable raw materials
- Additions to existing systems with TST system technology
- Reconfiguration of complete systems

Type of electrical cable processing system:

In various shredding stages, electrical cables are broken down into their constituent parts. These are then separated from one another in the relevant separation stages, according to customer requirements regarding yield and purity.



Electronics Scrap

Separating valuable raw materials from waste!

In Germany alone, more than two million tons per year of electronics scrap is produced, a volume that is increasing rapidly. The use of mobile devices such as smartphones or cell phones, the modernization of society as well as shorter production cycles have lead to a rapid increase in electronics scrap as a proportion of total waste production.

At current global usage rates, metals such as nickel and copper will still be available for another six decades. However, electronic devices also contain valuable, non-renewable resources such as indium or tantalum. In the near future, zinc and lead will have to be reclaimed exclusively from recycling.

For this reason, alongside societal benefits, there are also excellent opportunities in economic terms for operators of processing plants. With technology from TST, you can claim highly productive and highly valuable, 100 % pure commodities from electronics scrap.

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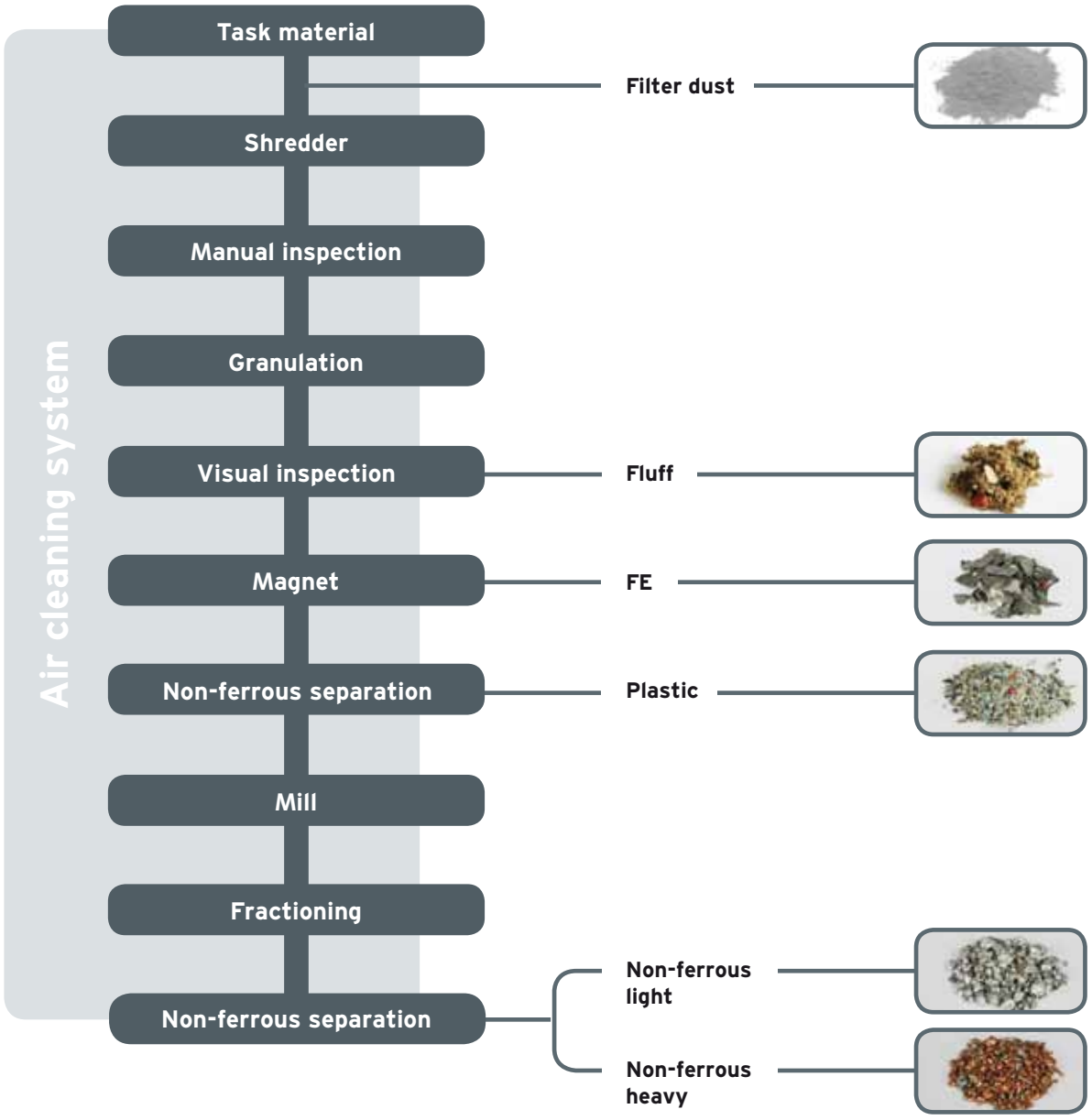
- Highly-efficient separation of electronics scrap into its component parts
- Reclamation of valuable raw materials
- Additions to existing systems with TST system technology
- Reconfiguration of complete systems

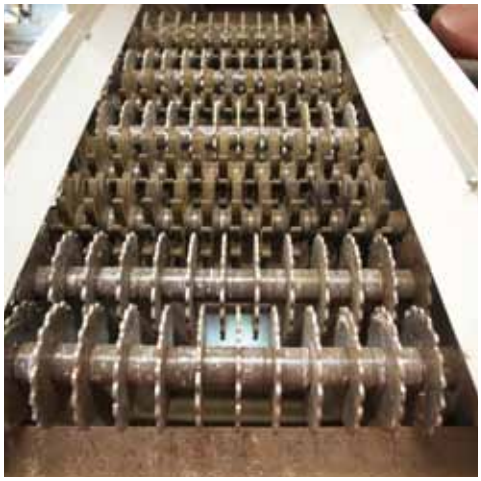
Type of small electronic devices processing system:

In various shredding stages, electronic devices are broken down into their constituent parts. These are then separated from one another in relevant separation stages, according to customer requirements regarding yield and purity.



Shredder Light Fraction / Shredder Heavy Fraction

Reclaiming reusable raw materials!



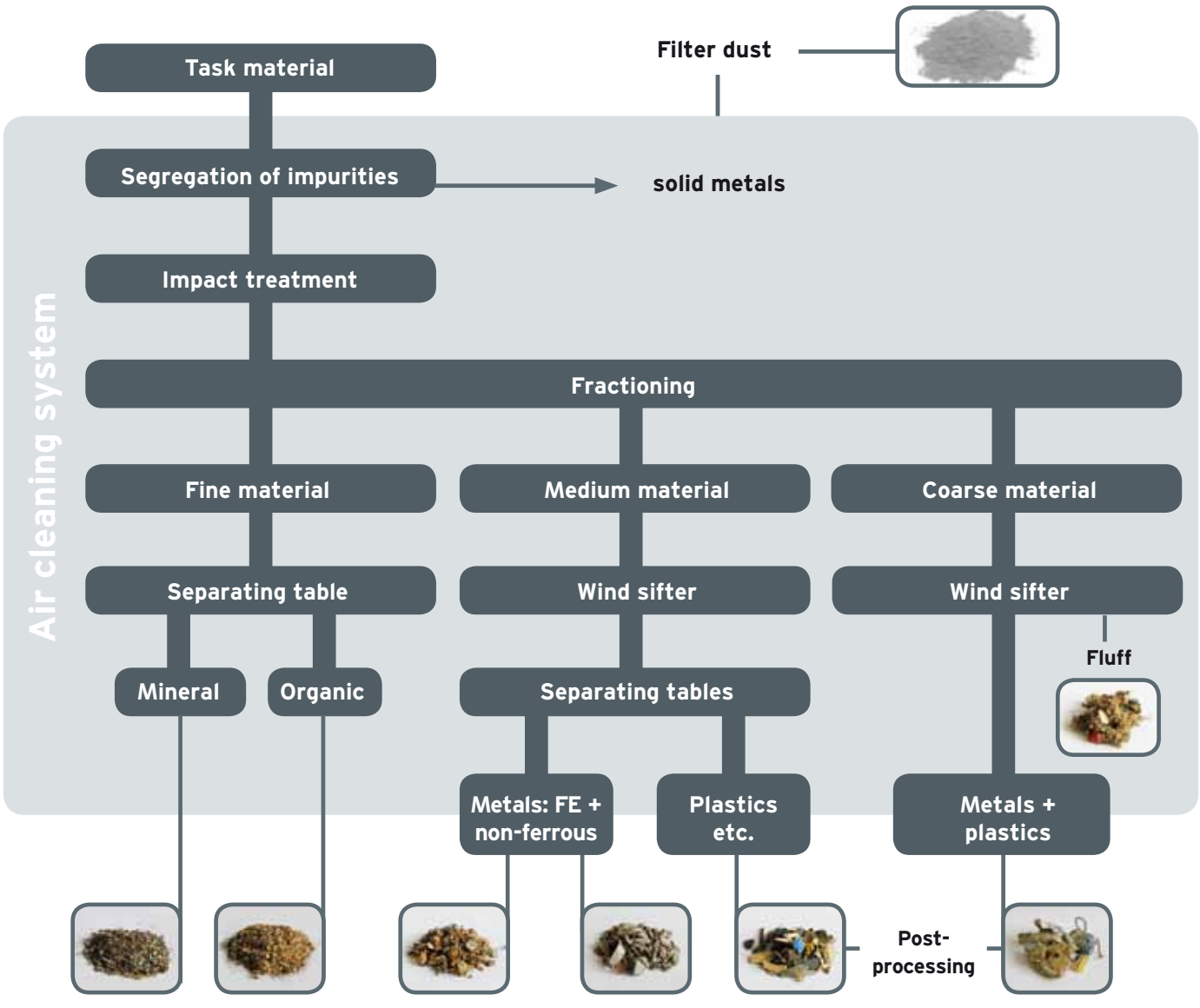
Shredder residue is waste that is primarily generated through the disposal of old cars. More than 40 million cars travel on Germany's streets alone. Around 400,000 old vehicles are dismantled annually.

TST has set an objective to increase the proportion of reclaimed commodities from light and heavy shredder fractions. Through various stages of fractioning and separation, the feed material is separated into its constituent parts with up to 100% purity.

Through the steeply rising global market prices for most commodities, excellent opportunities have opened up for operators of processing plants with technologies by TST, in both economic and ecological terms.

- Highly-efficient separation of shredder light and shredder heavy fraction into its component parts
- Reclamation of valuable raw materials
- Additions to existing systems with TST system technology
- Reconfiguration of complete systems

Type of shredder light and shredder heavy fraction system:
In various grinding stages, shredder light and shredder heavy fraction is broken down into its constituent parts. These are then separated from one another in the relevant separation stages, according to customer requirements regarding yield and purity.



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For over 20 years, Trennso-Technik has been offering the most advanced separating and sorting technology, along with professional advice and planning for individualized solutions – in an efficient and cost saving manner. Preparation and recycling will continue to be demanding areas in the future. Commodities reclaimed can be put back into the production process, and form an energy-saving alternative to the use of disappearing resources.

Trennso-Technik: Obtaining raw materials. Increasing quality!

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