

Three fields of business, one mission:  
Preserving natural resources for the future



RECYCLING

SERVICES



WATER

> REMONDIS SE & Co. KG

The REMONDIS Group offers an extensive portfolio of recycling, service and water activities



> ABOUT US

## Promoting sustainable development. Thinking ahead – far into the future

REMONDIS is one of the world's leading recycling, services and water companies. By delivering innovations and working to the highest standards, we do everything in our power to conserve our planet's natural resources and promote sustainable development. For the good of all. Working for the future.

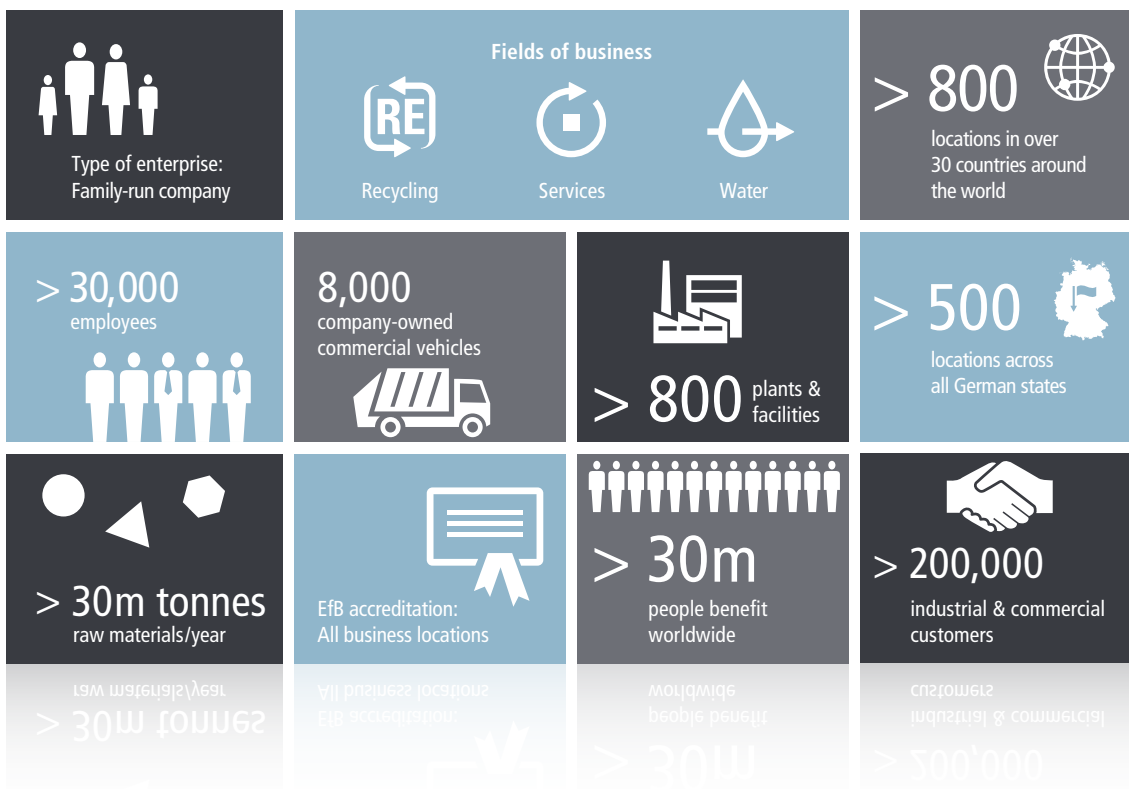
REMONDIS is a family-run company with a history that stretches back over 80 years

### Experts for practically everything

Our fields of business cover a whole range of services. We recover raw materials from waste, produce high quality recycled products, offer alternative fuels and play an important role in the water management sector supplying water and treating wastewater. In addition, we remove pollutants from residual and hazardous wastes – which are unable to be recycled with today's technology – and dispose of them using eco-friendly methods.

### Synergies across the Group

Private individuals, businesses and local authorities all benefit from our work. By delivering our services via a close network of individual companies, we are able to create a host of synergies that benefit both our customers and the environment. For example by optimising supply chains or developing innovative recycling ideas to further improve recovery rates.





# Our planet's natural resources are limited. Fortunately, our recycling ideas aren't

There is not a single material on our planet that can last forever – least of all our raw materials. Which is why we use state-of-the-art processes to help conserve our natural resources. Every year, we collect, treat and market around 30 million tonnes of recyclables.

Many of our processes – such as TetraPhos® (recovering phosphorus) and RESPRAY (recycling aerosol cans) – have won awards

## A never-ending supply of recycling solutions

We handle practically every type of material – from paper and wood, to construction waste and steel, all the way through to plastics and precious metals. What's more, we also process materials that would appear, at first glance, to be impossible to recycle. Hazardous waste for example. One of our primary goals is to continuously increase the number and the quality of our recycling solutions. We are constantly carrying out work to develop new technologies so that more and more raw materials can be recovered and returned to production cycles.

## A full range of services

Our business involves so much more than just the individual treatment processes. Whenever requested, we provide our customers with additional support – advising them on matters such as material flow management and drawing up comprehensive concepts covering material analyses and quality assurance, collection and logistics and, of course, smart recycling solutions.

## Driving progress

Why simply recover materials when they can be used to make something new? As part of our recycling operations, therefore, we develop innovative products that help conserve our planet's supplies of raw materials and create a variety of advantages. A whole range of customers benefit from our branded (and in some cases patented) products – from the manufacturing industry all the way through to the agricultural sector.

### > Our recycling services

- **Storage prior to collection:**  
Recyclables, residual materials, hazardous waste – acc. to type, optimised distances & volumes
- **Logistics:**  
Collection, transport, transshipment
- **Pretreatment:**  
Sorting, bulking up, removal of hazardous substances
- **Recycling:**  
Classifying, conditioning, supply
- **Marketing:**  
Raw materials, products & energy



In 2016, the Lippe Plant's recycling operations were officially named one of the twelve best projects by KlimaExpo.NRW

## The home of recycling: REMONDIS' Lippe Plant

Many of our innovative recycling solutions are developed at REMONDIS' Lippe Plant – the largest industrial recycling centre in Europe. This site is home to a whole range of different facilities, such as plants for processing and recycling gypsum from flue gas desulphurisation systems, chemicals, wood, plastics, e-waste and non-fossil fuels. 900,000 tonnes of recycled products leave the Lippe Plant every single year.



REMONDIS' Lippe Plant plays an important role in protecting the environment and curbing global warming. The site's recycling activities reduce carbon emissions by 488,000 tonnes every year

A few examples of our branded products



**HUMERRA®** is our brand name for premium quality compost products made from organic waste



**remexit®** is a brand-name aggregate produced from construction and demolition waste and is used to build roads and paths



**PLANOLEN®** is a recycled plastic granule that can be used to make new plastic products



**ALUMIN®** – a specialty chemical produced from recycling waste containing aluminium – is used to process water

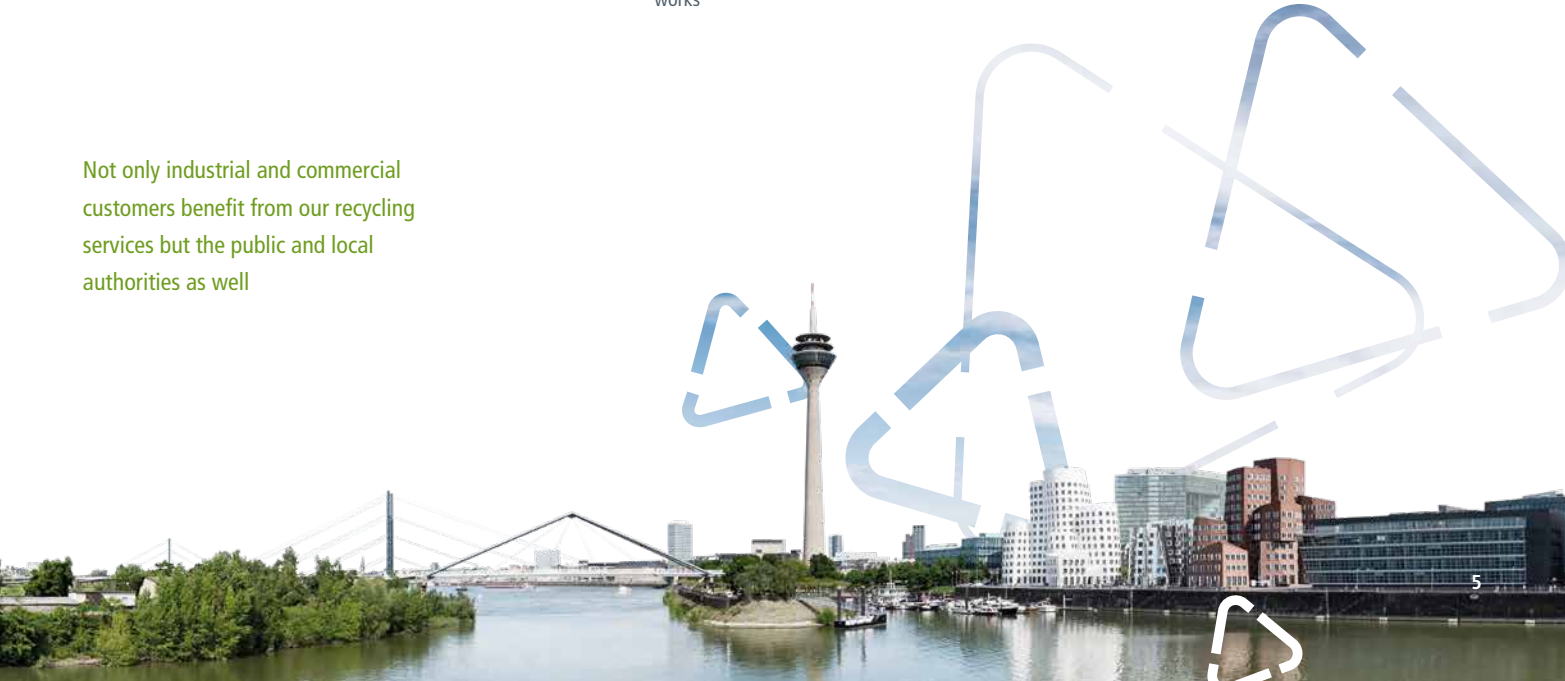


**CASUBLANCA®** is a particularly eco-friendly paint that is brilliant white and contains no algicide or fungicide

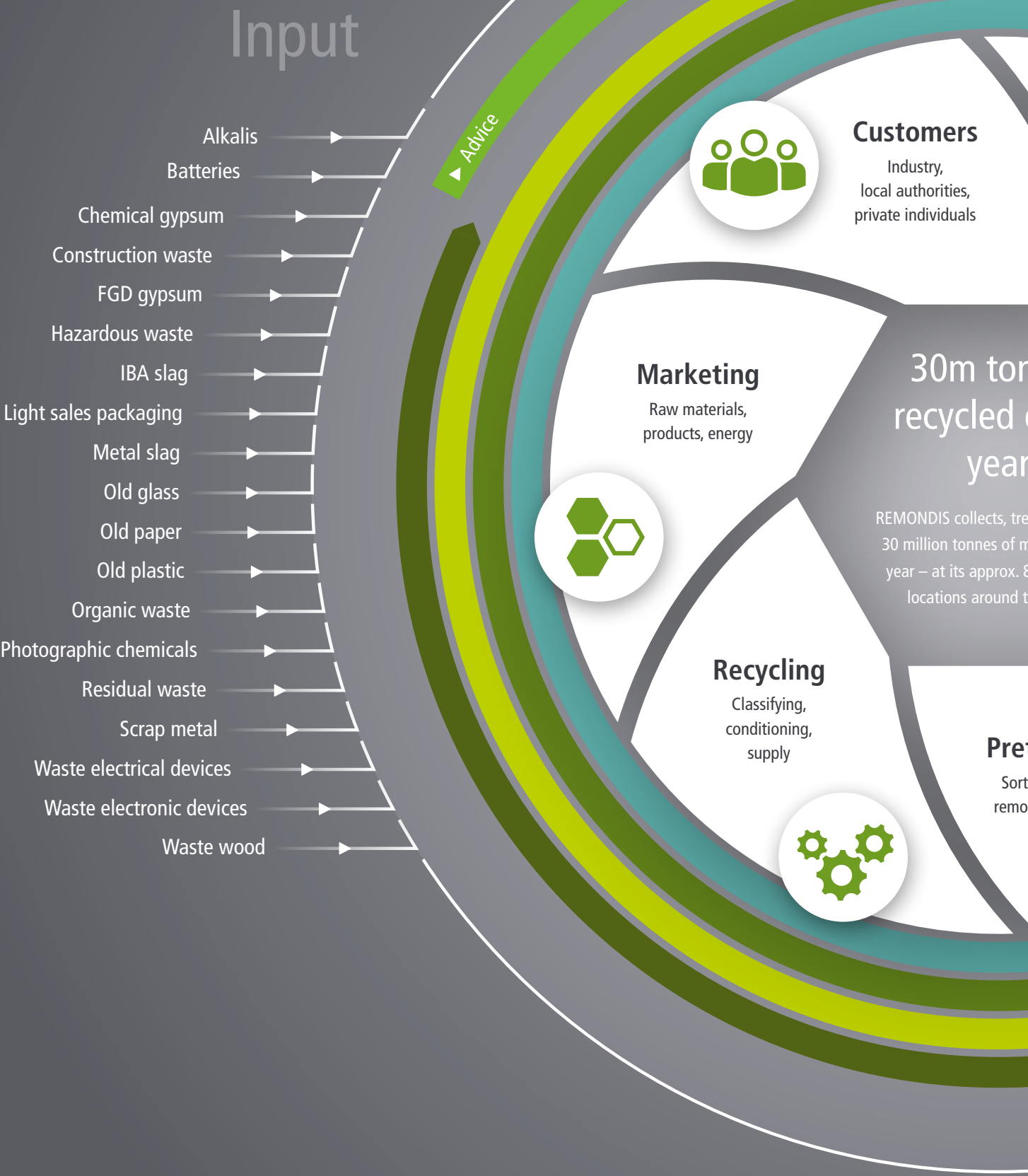


**RENOTHERM®** is a high calorific refuse-derived fuel made from non-recyclable waste; it is used by a number of industries including cement works

Not only industrial and commercial customers benefit from our recycling services but the public and local authorities as well



# Recycling at REMONDIS – closing the loop





Material flow management

Assessment of materials & quality assurance  
Research & development



## Storage

Recyclables, residual materials, hazardous waste – acc. to type, optimised distances & volumes

nes  
every

ats & recycles  
material every  
300 business  
the globe.



## Logistics

Collection, transport, transshipment

## treatment

ing, bulking up,  
val of hazardous  
substances



Development & realisation of processes

# Output

Calcium sulphate binders

Composts

Energy

Fertilisers

Glass

Iron

Mercury

Metal salts

Non-ferrous metals

Paper

Plastic

Plastic pellets

Precious metals

Recycled aggregate

Refuse-derived fuel

Solvents

Stainless steel

Steel

Substrates

Timber

# Totally committed to the needs of our customers

No matter what technology or service we develop or what experience we may gather, we always make it available to others. The result is a full and complete range of services that satisfies each and every need – whether it has to do with efficiency, environmental protection or resource conservation.

## **Not one, not two, but three target groups**

Whilst our services have, in principle, been divided up into two groups – industrial services for companies and public services for local authorities and/or their residents – they often overlap. Some of our services can benefit two or even all three target groups. All REMONDIS services are targeted towards the needs of our customers. Our focus is always on ensuring we deliver the solution that meets their exact requirements.

## **Ideal services for local residents**

Besides being able to enjoy stable fees and a well-functioning infrastructure, local inhabitants can also benefit directly from our services. From the household recycling centres we run, for example, or from our special mobile collection service which enables local residents to hand over any hazardous waste they may have in their homes. What's more, we are the right people to turn to if a more bespoke service is needed. No matter whether it involves clearing privately owned properties of snow and ice in winter or picking up old furniture after a house clearance – we will handle it for you.

## **A reliable partner for local authorities**

When asked to name a public service, most people first think of collecting waste or maintaining roads and parks. We also provide such services of course. But we support local authorities in many other areas as well. Often behind the scenes assisting their organisation and administration departments – such as managing sites on their behalf or carrying out environmental analysis work. No matter what the task, the goal is always the same: to further improve the quality and efficiency of all public sector services.

## **A full range of services for industrial businesses**

Thanks to our extensive range of industrial services, we ensure power stations, manufacturing facilities and production equipment achieve the highest levels of reliability, performance and availability. The way we do this is as varied as the industrial sectors we serve. We take on dozens of tasks for our industrial customers alone – from supplying specialist staff, to servicing equipment and machines, all the way through to carrying out all the maintenance work needed on site. In addition, we offer numerous services for businesses involved in commerce and trade such as waste management concepts for garages and workshops and setting up take-back schemes.

From carrying out site remediation work for industrial businesses to maintaining publicly and privately owned green spaces – REMONDIS does it all







We operate a number of different vehicles enabling us to offer a wide range of city maintenance measures – from keeping parks clean and tidy all the way through to cleaning roads and sewers



We operate household recycling centres – providing local inhabitants with a convenient way to hand in their recyclables

Our customers include power stations, refineries and chemicals groups, as well as heavy industry



Power station services and shutdown management are just two of the many industrial services offered by REMONDIS

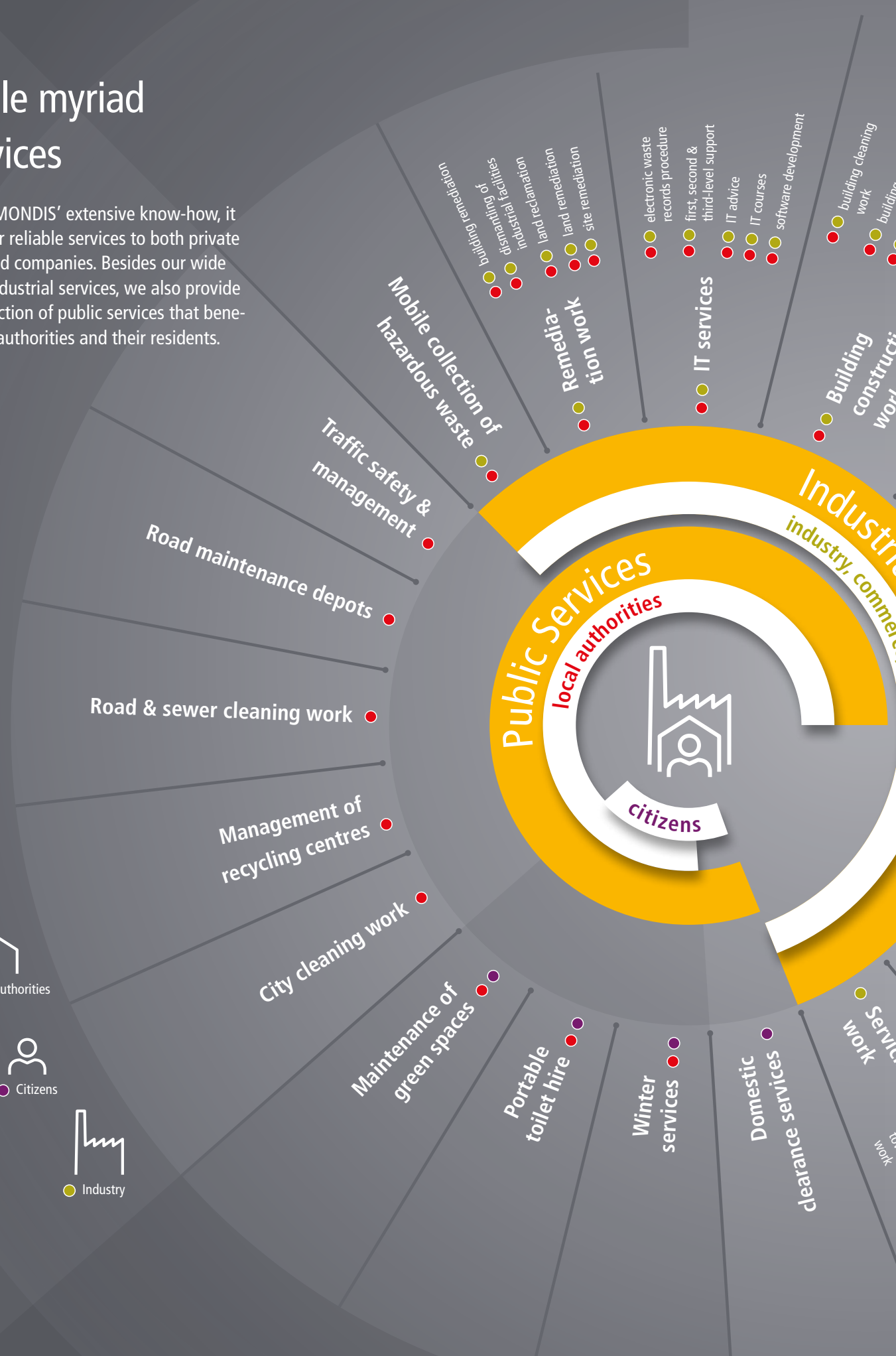


We offer our commercial and retail customers a range of solutions including take-back schemes for their sales packaging



# A whole myriad of services

Thanks to REMONDIS' extensive know-how, it is able to offer reliable services to both private individuals and companies. Besides our wide portfolio of industrial services, we also provide a diverse selection of public services that benefit both local authorities and their residents.







# No knowledge – no water. No water – no life

A mere 2.5% of the world's water supplies is suitable as drinking water. All the more reason, therefore, why every effort should be made to protect this valuable resource. This is exactly what we do at REMONDIS by providing a full range of professional and sustainable services that go far beyond the norm.

## Seeing the whole picture

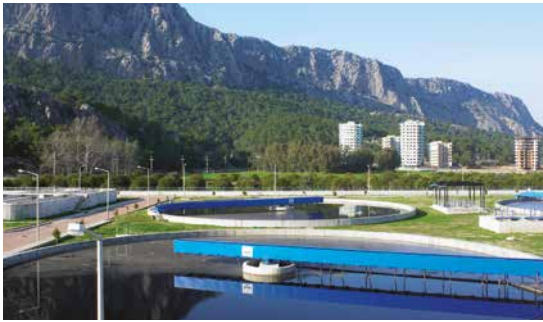
We can perform every single task that may be required by industrial businesses, local authorities and local inhabitants. From sourcing and producing process and drinking water all the way through to treating wastewater in sewage treatment plants or on site at our industrial customers. And all this accompanied by a wide range of innovations, state-of-the-art processes and customer-oriented services to help preserve our planet's supplies of water and protect the environment.

## From the well to the tap

Supplying drinking water is a complex procedure. First, the water must be extracted from reservoirs, deep wells or other sources and then sent to a waterworks so it can be processed. What's more, a well-functioning network with pumping stations, storage facilities and pipes is needed to transport the water to the consumers. Thanks to our expertise, technology and specialist staff, we are able to operate in all these different areas. Just one example here is the work we perform at waterworks where we run the multi-stage process to transform water into drinking water.

REMONDIS' innovations are pointing the way – showing how municipal and industrial water and wastewater can be managed better in the future





REMONDIS develops and operates facilities to treat wastewater and produces high quality process water for its industrial customers



Our staff provide technical and scientific advice that includes microbiological, biological and chemical analyses and sample-taking as well as software that can microscopically analyse activated sludge at sewage treatment plants

**Wastewater treatment – the whole works**

We offer the public, industrial and private sectors an extensive range of services when it comes to treating wastewater and returning it to the water cycle. In sewage treatment plants, for example, we deploy state-of-the-art mechanical, biological and chemical processes to transform wastewater back into clean water. Our portfolio of wastewater management services include:

- operating wastewater networks from beginning to end
- property drainage systems
- creating water cycles at production plants
- inspecting, repairing and installing household connections

**Exemplary material flow management**

Over the years, we have developed processes that not only enable all types of wastewater to be treated but also the residual substances in the water to be recycled and put to good use. At the moment, we have certificates showing we can re-use over 270 substances. Here are just a few examples of the products and services that are based on our recycling concepts:

- high calorific refuse-derived fuel made from dried sewage sludge
- recovery of phosphorus from wastewater or sewage sludge
- generating biogas from industrial wastewater – on site at our customers’ premises
- supplying the agricultural sector with legally compliant biosolids

**Services covering all things H<sub>2</sub>O**

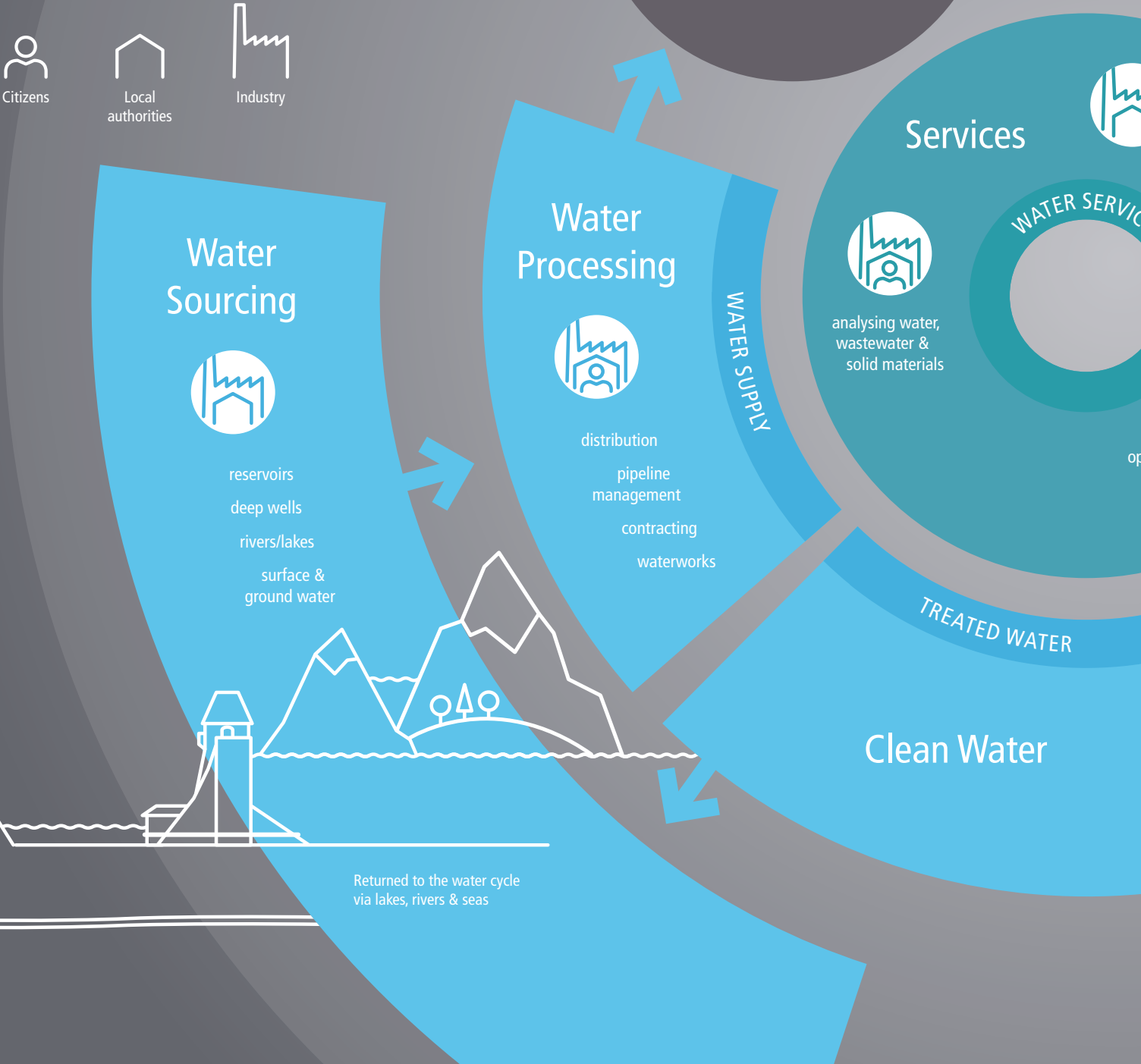
Our water management portfolio is rounded off by a wide range of services that allow us to pool together our know-how and experience and create tangible benefits for specific target groups. We have, for example, developed an IT-based service system which local authorities can use to manage and control all their water-related tasks – from gathering data, to managing water rates and charges, all the way through to renovating their municipal water and wastewater networks. Moreover, we offer comprehensive analytical services for local authorities as well as private sector customers such as farmers.



We help our industrial customers to generate biogas from their wastewater – from planning the concept all the way through to delivering it

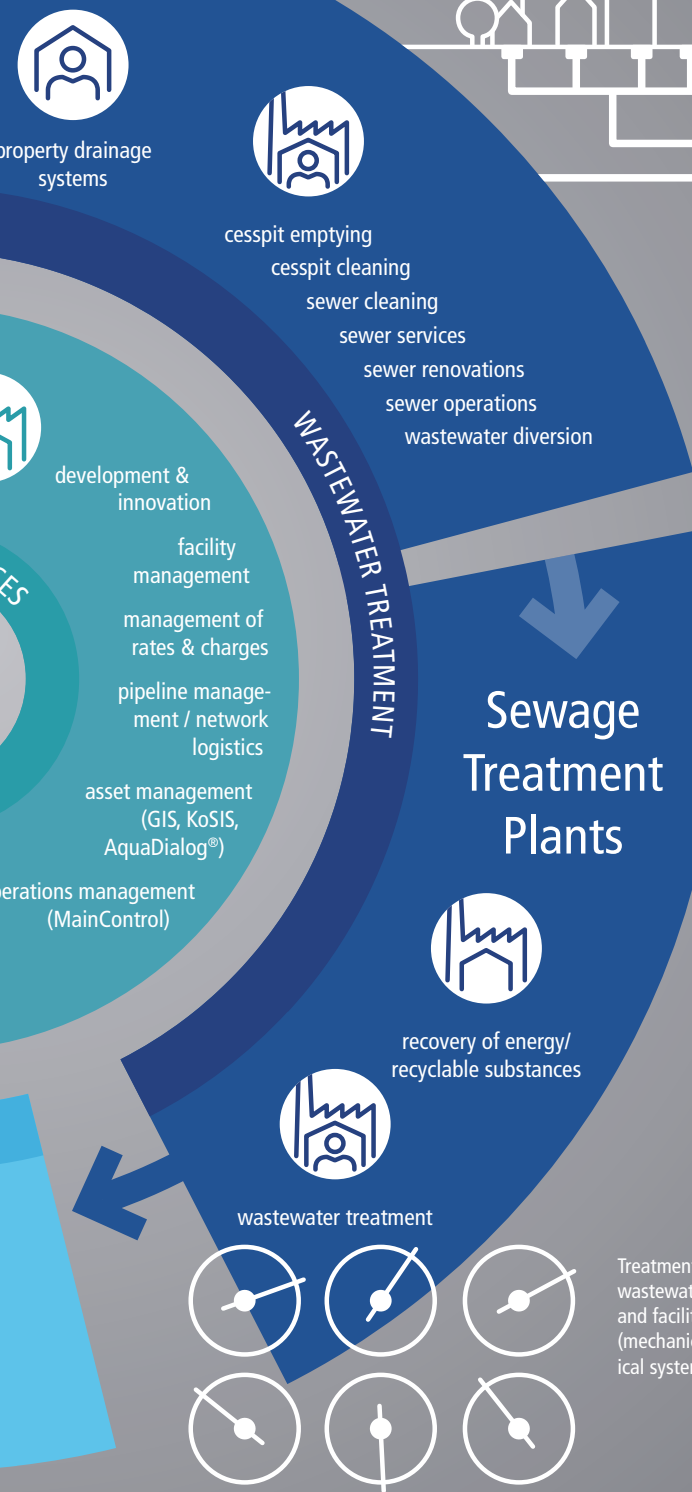
# When it comes to water, we really are in our element

From supplying private households with top quality drinking water, to providing industrial businesses with process water, all the way through to treating wastewater and recycling sewage sludge and any other residual materials – REMONDIS has the know-how to create perfect water management systems.

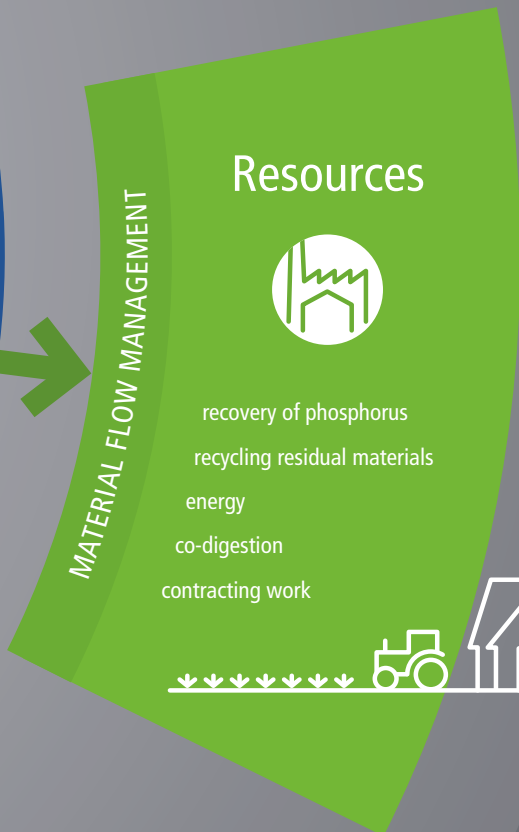




# Wastewater



Thanks to our state-of-the-art facilities, we are able to treat highly polluted industrial wastewater. Moreover, we transform the organic contents into energy and recover recyclable materials from the wastewater so they can be reused.



Treatment of municipal and industrial wastewater at state-of-the-art plants and facilities using multi-stage processes (mechanical/physical, biological & chemical systems)

Sewage treatment plants are not a place for simply disposing of wastewater but are complex recycling facilities that produce clean water, energy and minerals, such as the vital raw material phosphorus

> SUSTAINABILITY

## Solutions for a sustainable future. Starting right now

The subjects of sustainability and conserving natural resources are the central features of our company philosophy and directly influence all of REMONDIS' business activities. Environmental, economic and social responsibilities are all very closely entwined.

### **An extensive field with a host of tasks**

Having dedicated ourselves to preserving our planet's natural resources for more than eighty years now, sustainability is in our genes. We are well aware of the fact that whilst recycling is an important factor contributing towards sustainable development, it is by no means the only one. Improving living conditions around the world, for example, is vital if there is to be a viable future for humans, animals and the environment. One thing is certain: true sustainable development is only really possible if action is taken to address all individual factors and if everyone "walks the talk". This is precisely what we aim to do.

### **Sustainability in our everyday business life**

Our all-encompassing view of sustainability also includes us being sustainable ourselves. This covers all aspects of our business – starting with the energy efficiency levels of our head office buildings and production plants, to running our business in a moral, ethical and responsible manner, all the way through to offering future-oriented professions. One of our objectives is to ensure that all our staff do work that is meaningful – no matter what their qualifications or level of education may be.

Learn more about sustainability at REMONDIS by going to  
> [remondis-sustainability.com](https://remondis-sustainability.com)





### Acting

Being one of the world's foremost recycling, service and water companies, we lead by example when it comes to conserving resources and protecting the environment.



### Living

REMONDIS promotes sustainability throughout its organisation – to make its own business even more environmentally, economically and socially sustainable.



### Sharing

The first step towards sustainability begins with each person and the way they think. Which is why we see it as our duty to raise public awareness and explain what it's all about.



### Inspiring

We transfer both our technology and our know-how to help companies, local authorities and local residents further improve their recycling activities.



### Fostering

Both our measures to promote sustainability and our educational programmes help cement sustainable development in the economy and society as a whole.

## How REMONDIS promotes sustainable development

What is really important is to take all aspects of sustainability into account, i.e. not only environmental but economic and social factors as well. As can be seen here, REMONDIS does this in a whole variety of ways – with its activities divided up into five main categories. More detailed information can be found at [remondis-sustainability.com](http://remondis-sustainability.com)



REMONDIS' Sustainability Certificate provides customers with detailed proof of how our treatment of their waste and residual materials cuts their greenhouse gas emissions and reduces their consumption of primary raw materials and energy

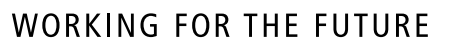
### Paving the way, offering added value

Thanks to our innovations and our dedication, we are helping to make sure that the whole issue of resource conservation is playing an ever growing role in the world of business and, indeed, in society as a whole. For example, by offering our clients sustainability certificates, by entering into PPPs and company partnerships to support both the public and private sectors with our technology and know-how or by showing how existing recycling activities could achieve even better results.

### Getting people interested in what really matters

We have initiated a whole range of measures to promote sustainability in order to provide fresh impetus and fulfil our social responsibilities – from an educational programme for children and teenagers, to funding a professorship. What's more, we play an active role in many different associations to show that business and environmental protection are not mutually exclusive as well as to further cement the role of sustainability in the economy as a whole.





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