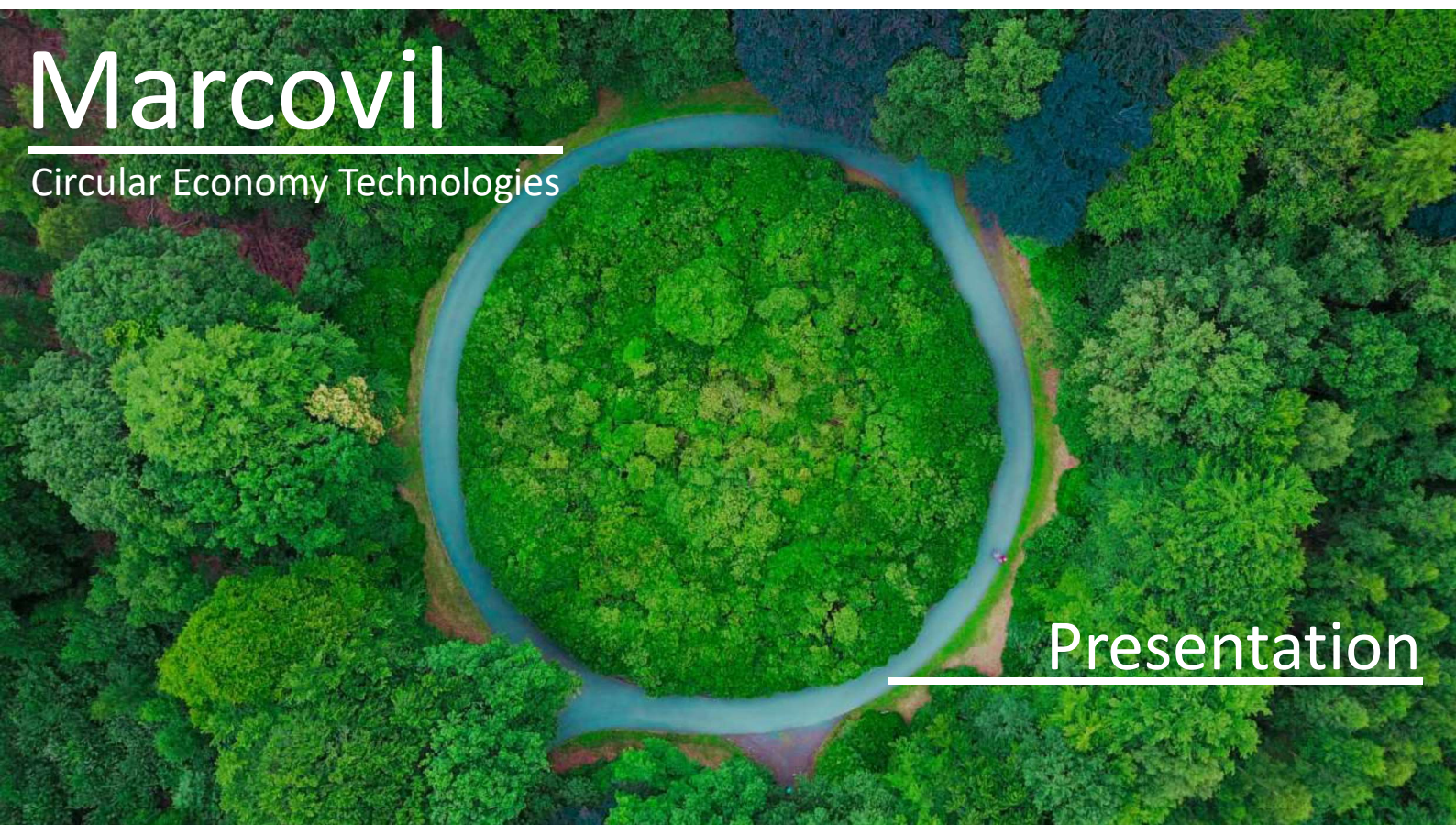




Marcovil

Circular Economy Technologies

Presentation

An aerial photograph of a dense green forest. A circular path, possibly a dirt or gravel trail, winds through the trees, forming a large loop. The path is a light brownish-grey color, contrasting with the vibrant green of the foliage. In the center of the circular path, the text "9%" is overlaid in a large, white, sans-serif font. The surrounding forest is thick with various shades of green, suggesting a healthy, mature woodland. The overall composition is centered and symmetrical, emphasizing the circular path and the percentage value.

9 %

The World Today



Linear Economy

Our World Economy is only **9% circular**.

We persist to be a **Linear Economy**.

In 2017 the total resources entering the global economy was 92.8 Gt.

Only **8.4 Gt were recycled resources**, the rest 84.4 Gt were extracted resources.

The background of the slide is a photograph of an industrial facility, likely a refinery or chemical plant, at sunset. The sky is a vibrant orange and red, with large, dark plumes of smoke or steam rising from the facility. The facility itself is silhouetted against the bright sky, with some lights visible. The overall mood is industrial and somewhat somber, suggesting the environmental impact of the linear economy.

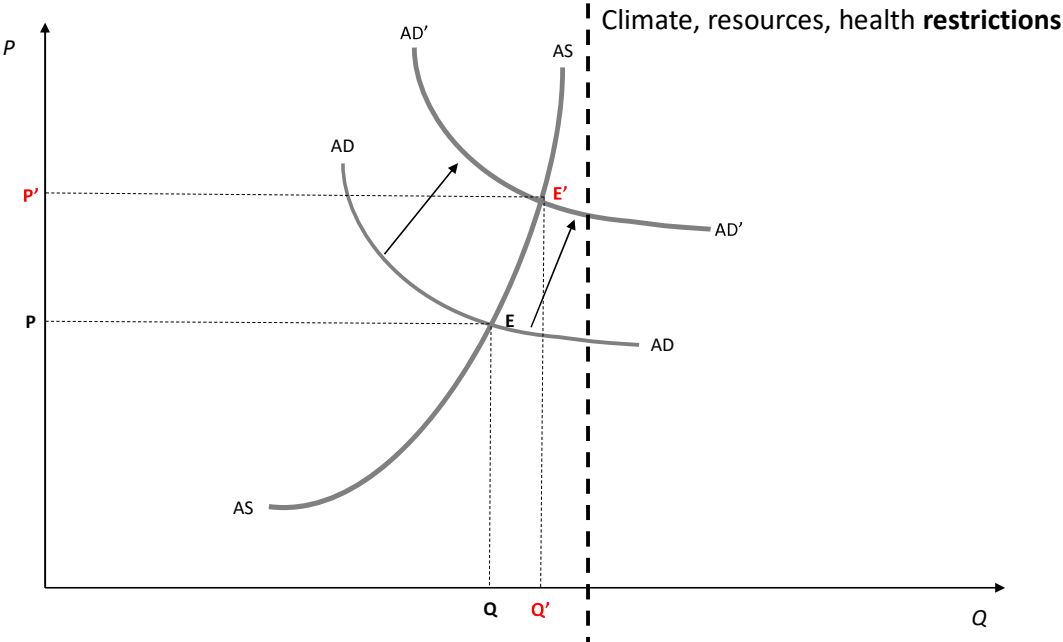
Linear Economy

Macroeconomic Impact

Linear Economy

In the **medium-term** the **climate change**; resulting from the increasing of the greenhouse gas emissions; the **resources scarcity**; the **health problems** of the population and the **demand pressure** will create a **state of inflation, economic stagnation and social disorder**.

Macroeconomic Impact [medium-term]



An aerial photograph of a large, circular stadium with a multi-tiered roof, illuminated by the warm, golden light of a sunset. The stadium is surrounded by a dense forest of trees with autumn foliage. The sky is a gradient of orange and yellow, with the sun low on the horizon to the right.

Circular Economy

Sustainability & Prosperity

The Circular Principle

For the sustainability of our production and consumption systems is imperative to introduce the principle of “**doing more with less natural resources**” in the foundations of our economic and social systems.

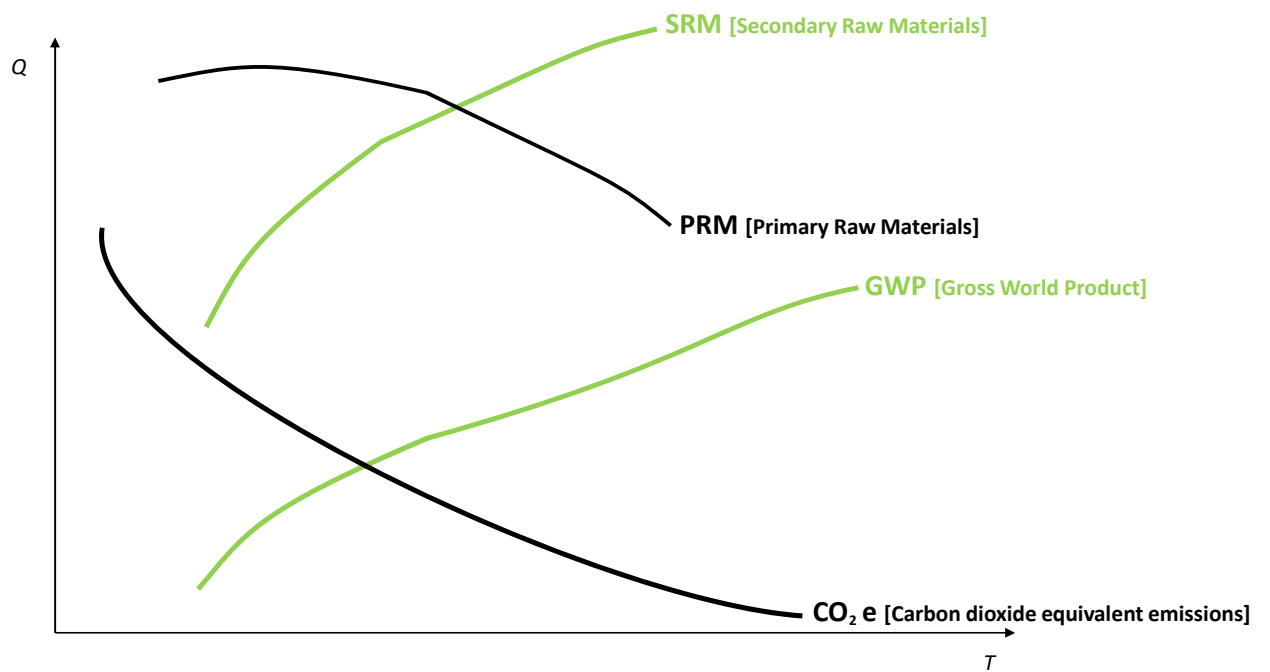
Disruption

Design for the **Future**.

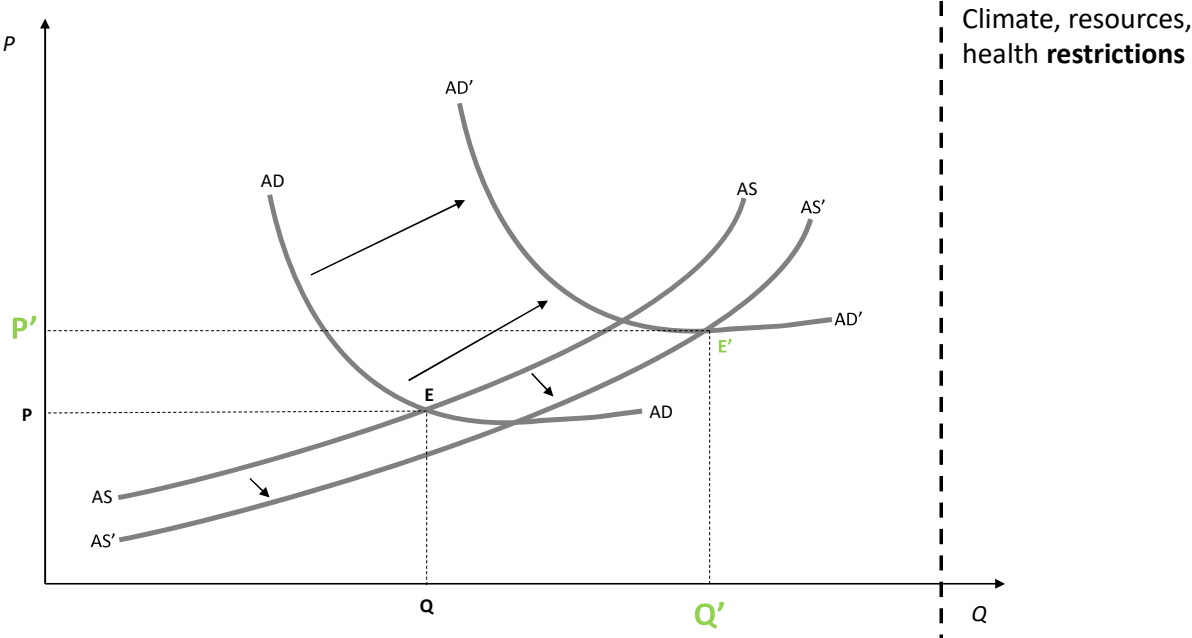
Sustain and preserve what is already there.

Transform **Waste** into **Secondary Raw Materials**.

Sustainability



Prosperity



The Circular Revolution

“Mr. Gorbachev, tear down this wall!”

- Ronald Reagan

Now it's our turn to say:

“Worldwide Governments, tear down the linear economy!”



Marcovil

Our Commitment

About Us



Founded in 1987 and today with a production cover area of 10.000 m²,
Marcovil is a technological based company in the field of mechanical
engineering oriented to the design and manufacturing of machines and
turnkey solutions, that combines advanced production technology with an
experienced and knowledgeable team.



Our Vision



The sustainability and prosperity of the production
and consumption systems through a circular and
low carbon economy.



Our Mission

Research, design and manufacturing machines and turnkey solutions with High-Performance and High-Lifetime, supported on Industrial Automation, in order to improve the capacity, efficiency, management and working conditions of the Recycling Industry towards a effective Circular Economy.



Our Politics [Product View]

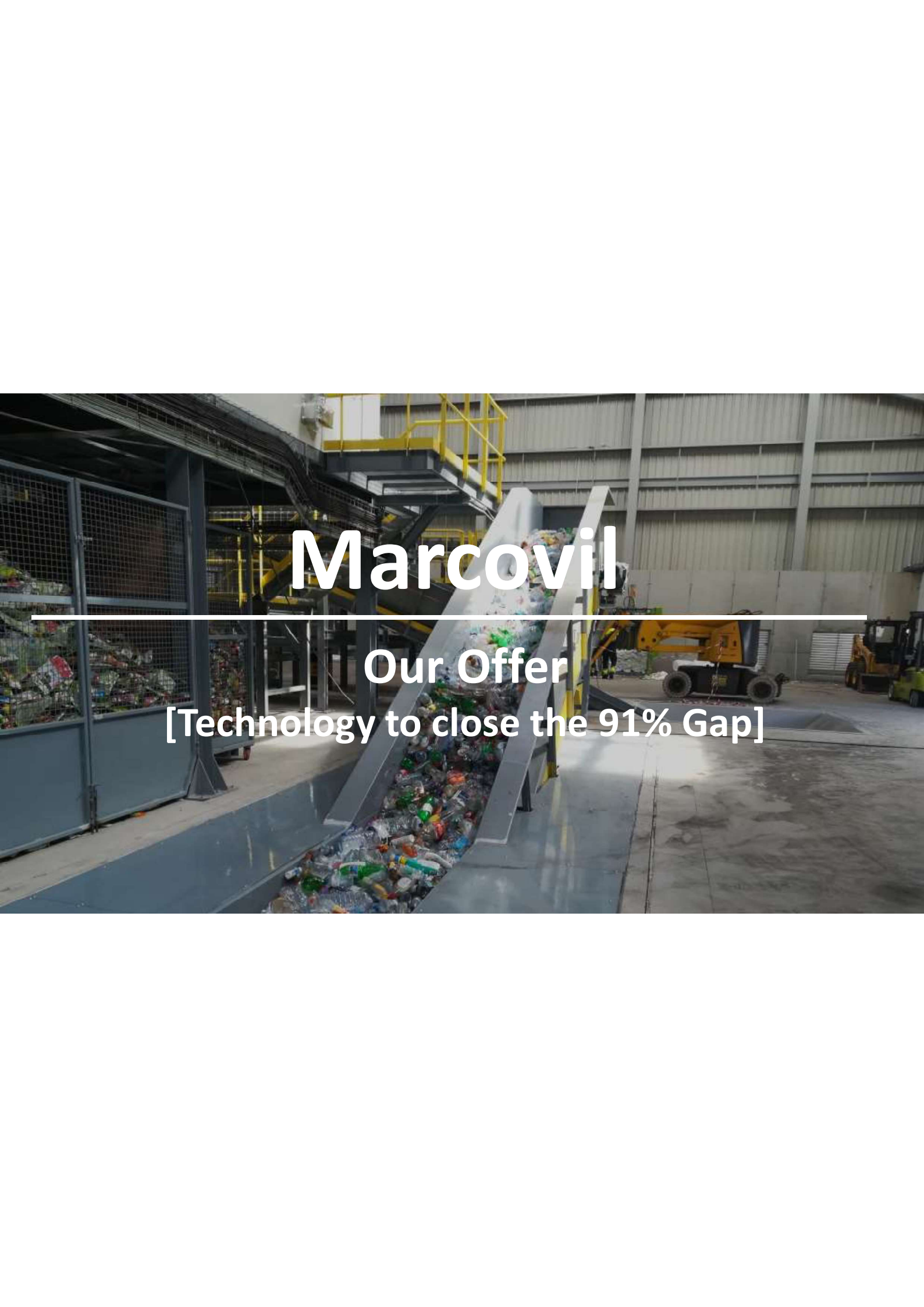
- **Continuously research and develop** (R&D) new machines and recycling processes, in order to treat new fractions and to improve the existing performance.
- **Improve machine design**, in order to leverage the Ratio (Performance / Resources).
- Introduce **more industrial automation (IIoT)** into machines and recycling processes, in order to solve the supply labor market problem and to get data and transform into valuable knowledge for the different management levels.

Our Politics [Customer / Market View]

- **The 91% Gap is too big.** It is crucial to establish long-term partnerships with Engineering Companies, End-Users and Manufacturers, in order to give a combined response to the challenges and the increasing demand created by the Circular Economy.
- Influencing Institutions and Governments through **Economic Studies** on the impact of the introduction of technologies and increasing levels of waste collection and treatment in their transformation into **secondary raw materials**.

Our Numbers

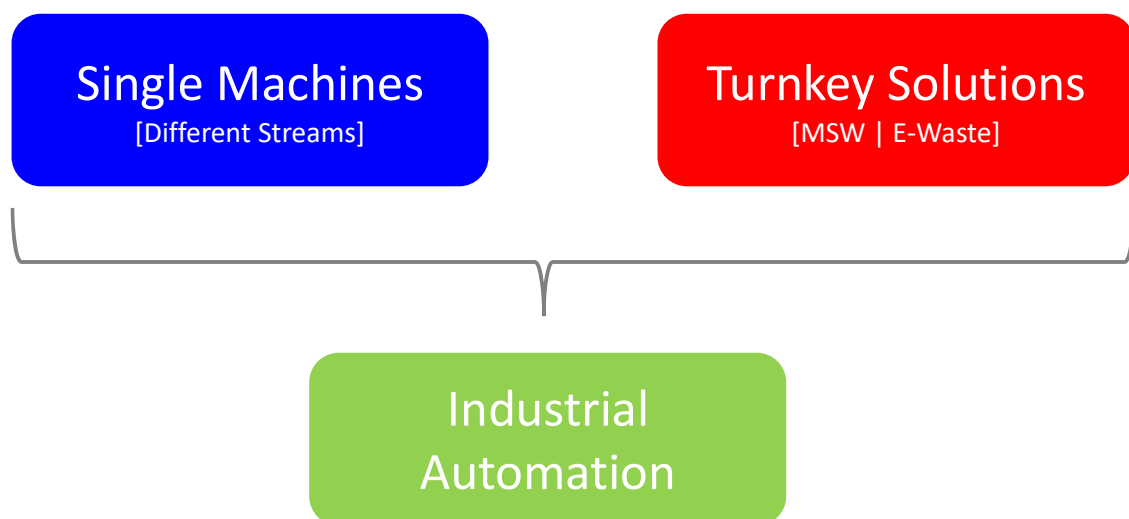
Year of Foundation	:	1987
Number of Employees Year: 2018	:	80
Legal Capital	:	€ 3.000.000,00
Financial Independence (Total Equity / Total Assets) x 100 Year: 2018	:	72 %

A photograph of a large industrial facility for waste recycling. In the foreground, a wide metal conveyor belt is filled with a variety of plastic waste, including bottles and containers. To the left, there are large metal cages or bins also filled with waste. In the background, a large industrial building with a corrugated metal roof is visible. A yellow excavator and a green forklift are parked on the right side of the facility. The overall scene depicts a busy industrial environment for waste management.

Marcovil

Our Offer
[Technology to close the 91% Gap]

Our Offer

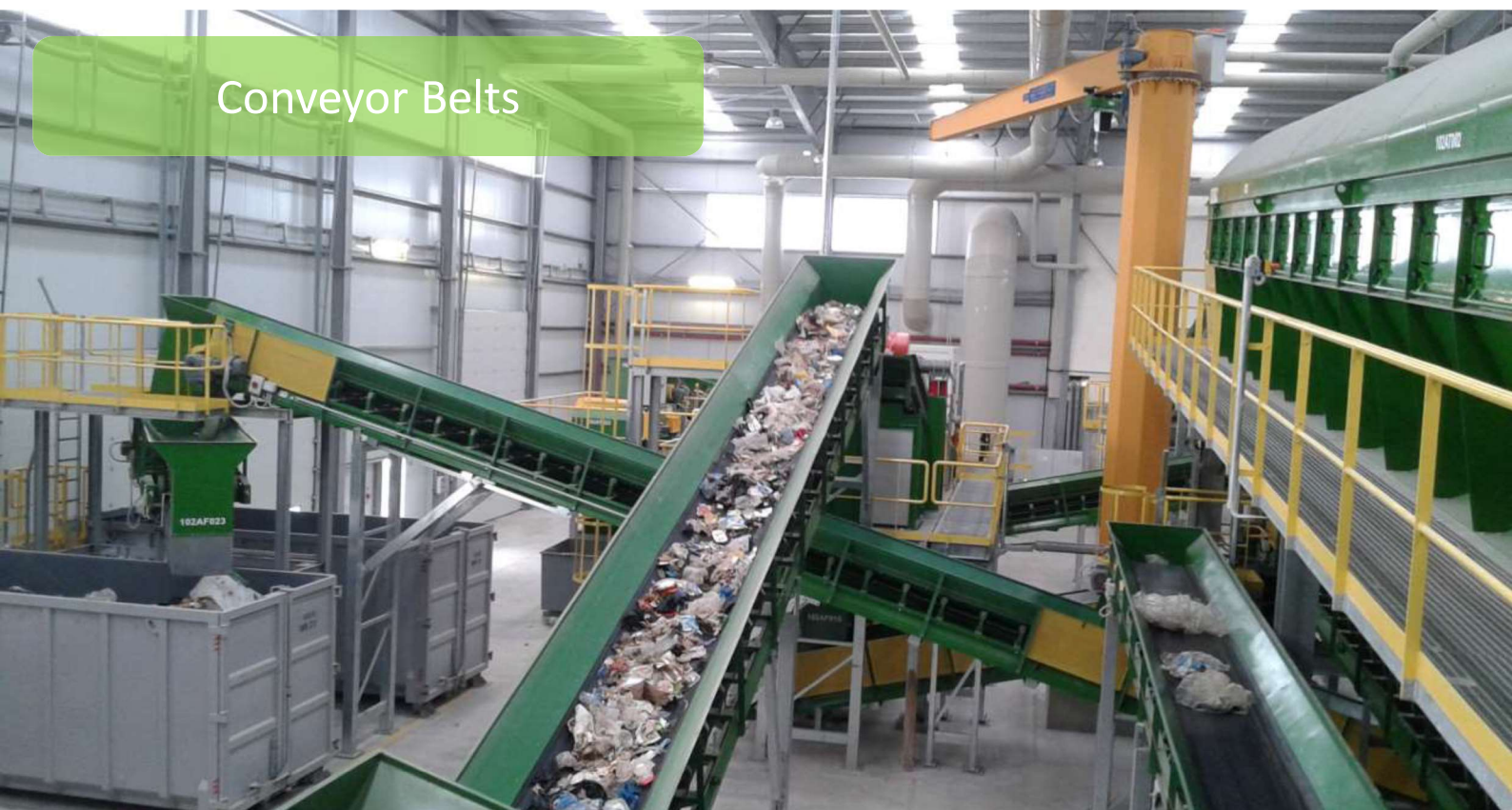


A photograph of an industrial facility. On the left, a large building with light blue corrugated metal siding is visible. A prominent blue metal conveyor system with railings extends from the building towards the right. In the background, there are green trees under a clear blue sky. A tall, thin light pole stands near the conveyor. The text 'Marcovil' is overlaid in white, bold font, with a horizontal white line underneath it.

Marcovil

Single Machines

Conveyor Belts



Screw Conveyors



Feeding Bunker



Vibrating Feeders



Bag Opener



2 Shaft Shredders



Trommel



PET Bottle Perforators



Sink-Float Separators



Centrifugal Dryers



Crane with Grab



The image shows a large industrial facility, likely a recycling or waste management plant. In the foreground, there is a long, two-story white building with several windows. This building is part of a larger sorting system. Below the white building, there are metal grates and structural supports. In the background, a large yellow conveyor belt system is visible, leading up to a higher level. The ceiling is high with a complex network of steel beams and red-painted pipes. The overall scene is industrial and functional.

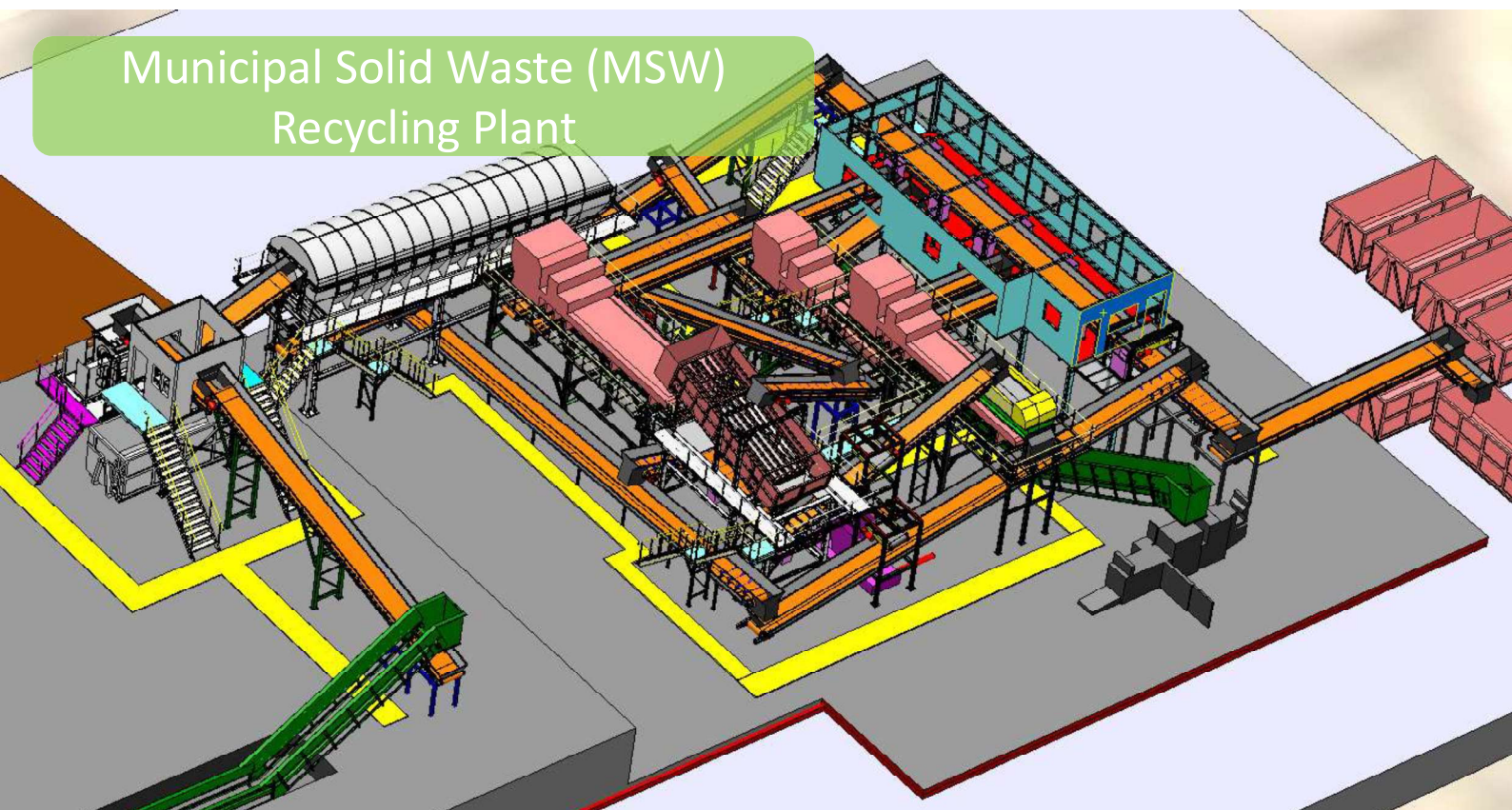
Manual Sorting Cabin



Marcovil

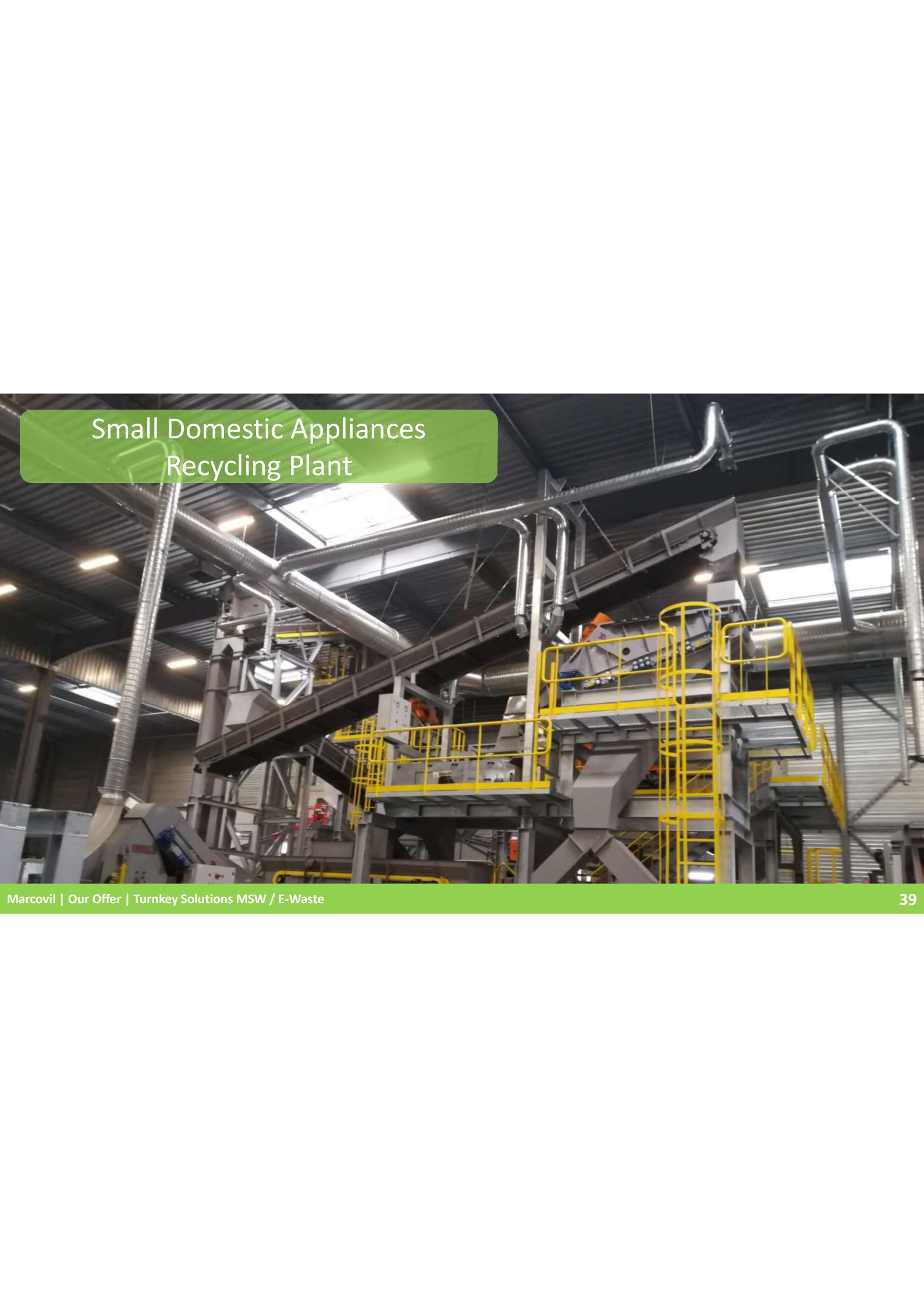
Turnkey Solutions
[MSW / E-Waste]

Municipal Solid Waste (MSW) Recycling Plant





Municipal Solid Waste (MSW) Recycling Plant



Small Domestic Appliances Recycling Plant

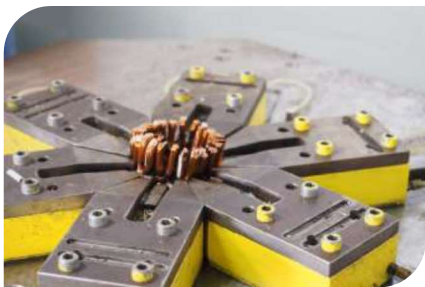
A photograph of an industrial shredder in a recycling plant. The machine is processing a large volume of electronic shredder residue (ESR), which is being shredded and then falling into a collection bin. The background shows the interior of a large industrial building with metal siding and yellow safety railings.

Electronic Shredder Residue (ESR) Recycling Plant

A wide-angle photograph of a large industrial recycling plant. The facility is filled with complex machinery, including conveyor belts, large storage bins, and processing units. In the foreground, a yellow Volvo forklift is partially visible on the right. A large purple bin filled with dark, granular material is prominent in the lower left. The background shows more industrial equipment and structural elements of the large hall.

WEEE / ELV Mixed Plastic Recycling Plant

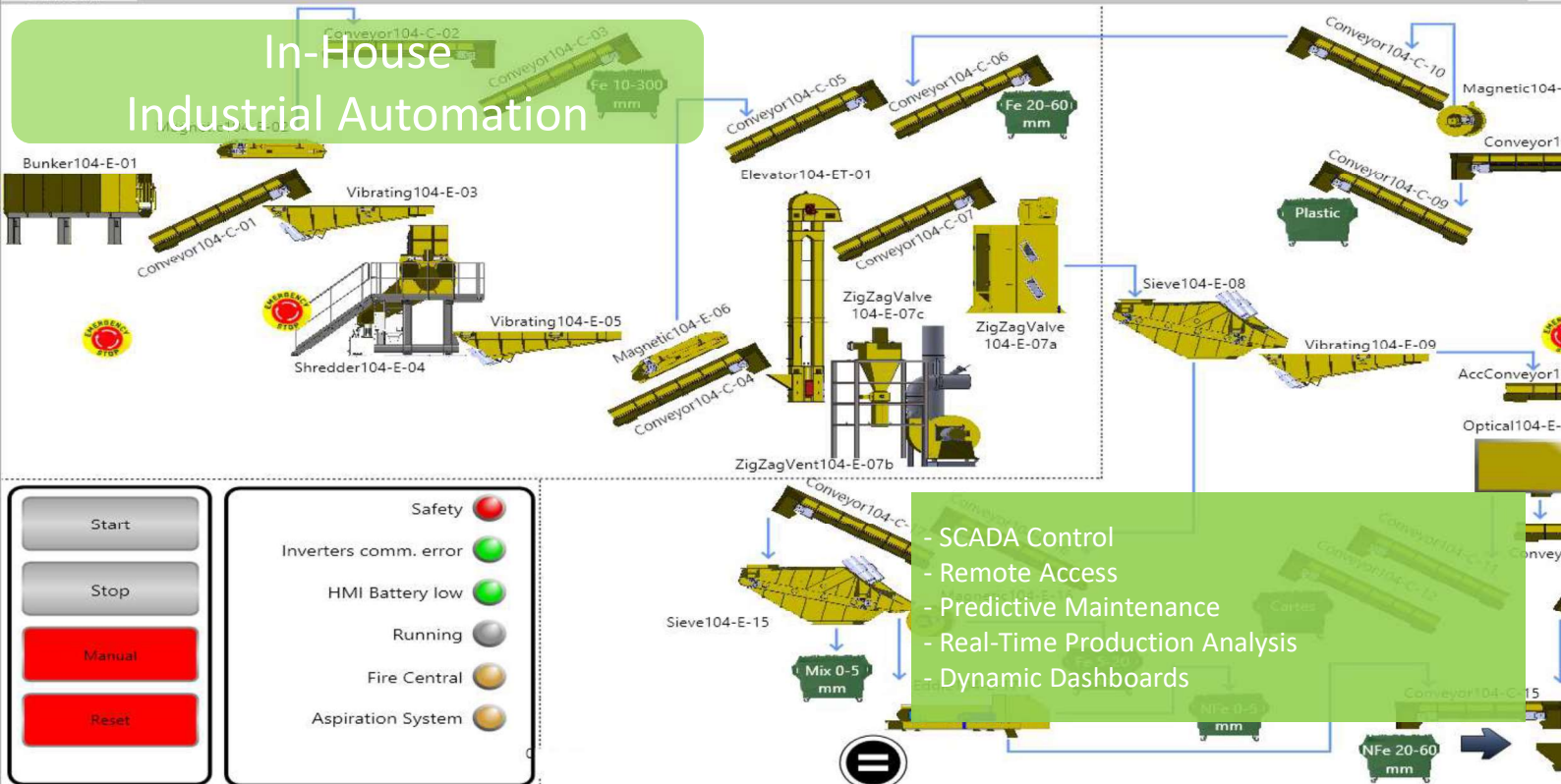
Fridge Compressors Recycling Plant



Industrial Automation

Mechanical treatment and valorization of non-ferrous fractions

In-House Industrial Automation





Marcovil

Infrastructures & Skills

Infrastructures

[Cover area 10.000 m²]

Mechanical
Construction

Steel Reception
and Preparation

Surface
Treatment:
Shot Blasting

Surface
Treatment:
Painting

CNC
Machining
Center

Mechanical
Construction

Mechanical
Construction

Electrical
Department

Automation
Department

Hydraulic
Department

Project
Department

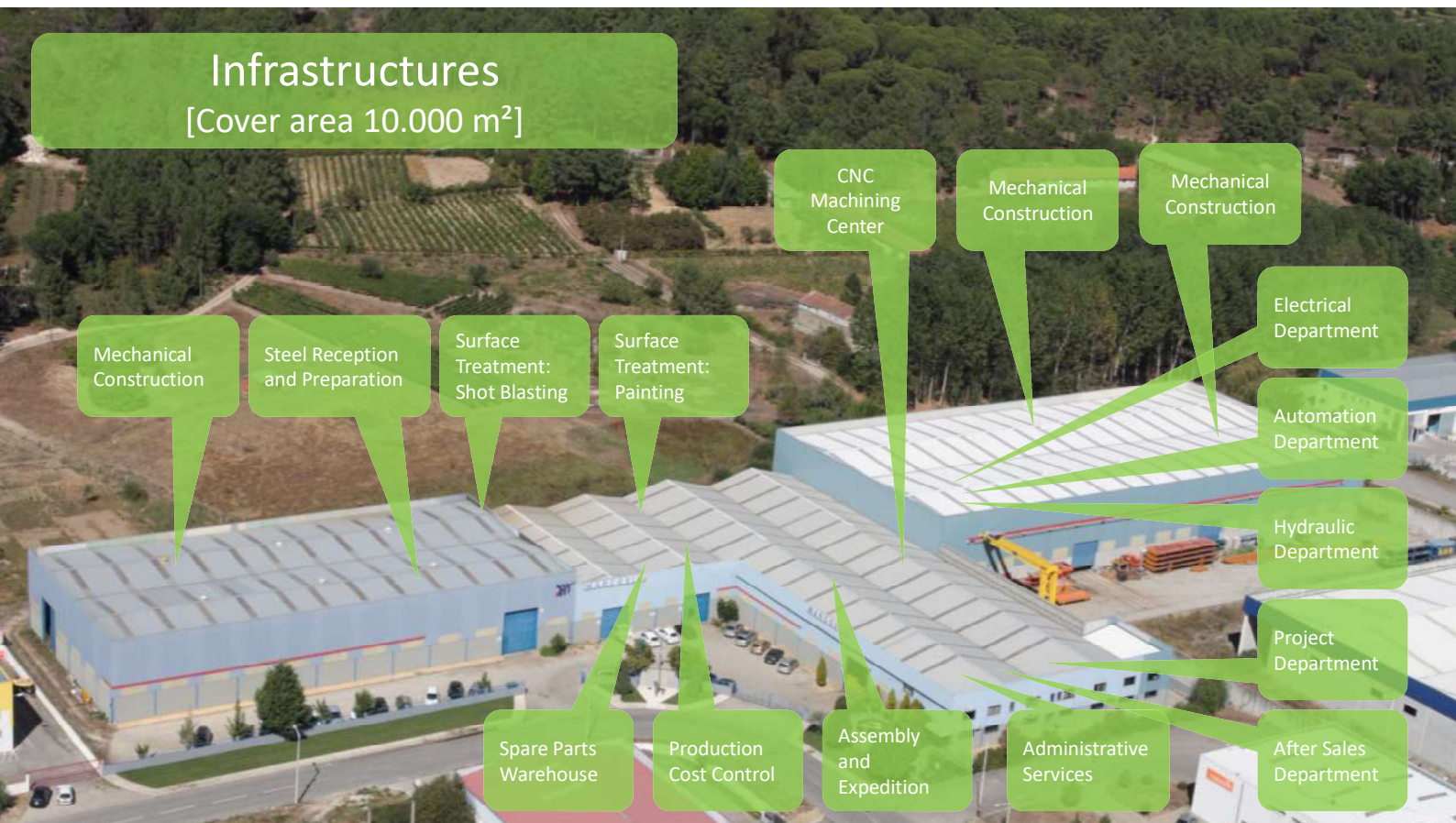
After Sales
Department

Spare Parts
Warehouse

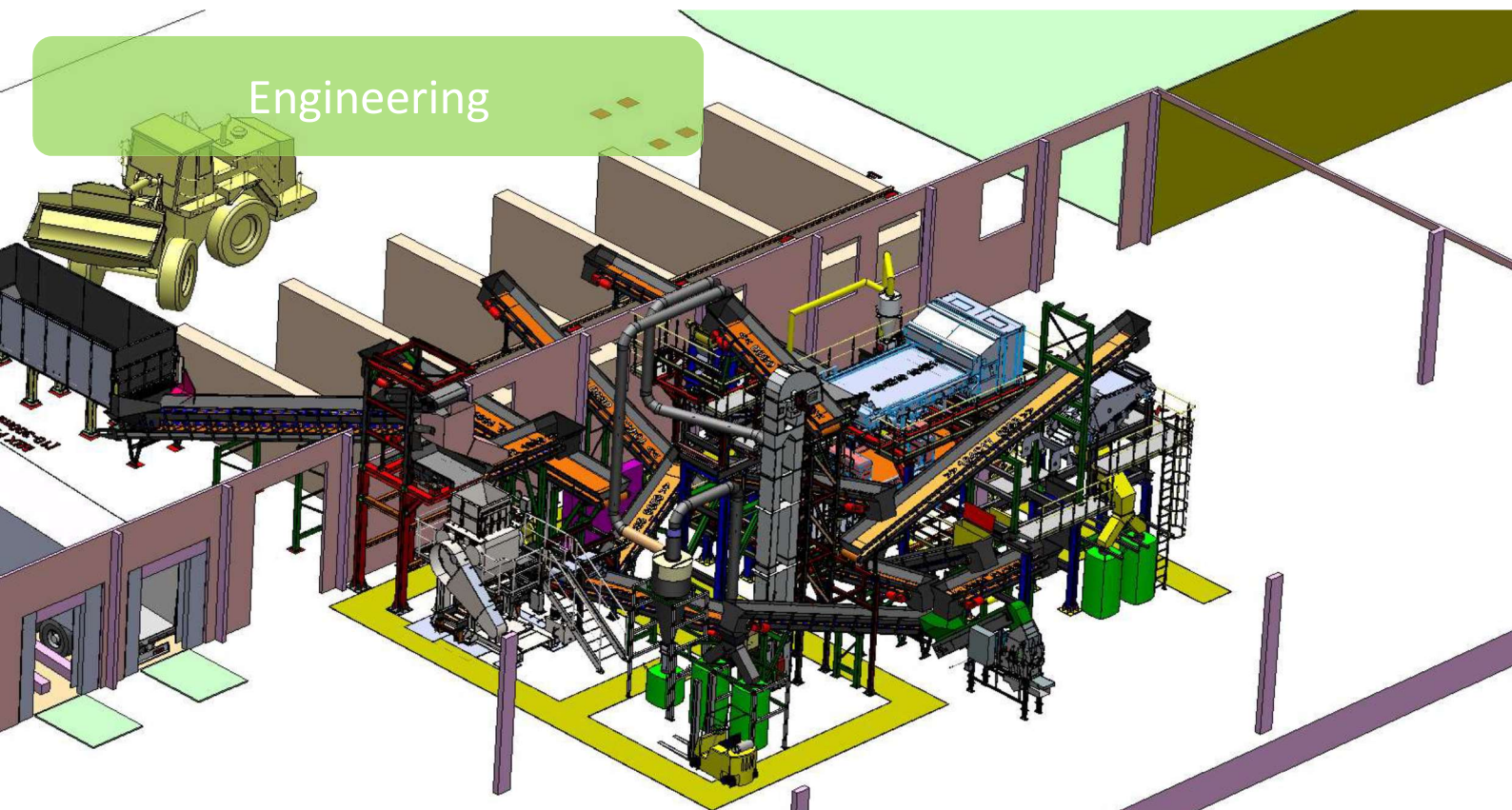
Production
Cost Control

Assembly
and
Expedition

Administrative
Services



Engineering



Machining Center



Plasma Cutting



Plate Roll Bending



Manufacturing



Manufacturing



Manufacturing



Hydraulic Department



Electric & Electronic Department



Automatic Shot Blasting



2 x Painting Cabins



Factory Assembly



Factory Acceptance Test



Mechanical Installation On-Site



Electrical Installation On-Site



A photograph of an industrial machine's control panel. The panel is light grey and features a small, square, textured display screen. Below the screen is a row of five buttons: a red emergency stop button, followed by three yellow buttons, and a black button. To the right of the panel is a blue metal structure with a CE mark and a yellow warning label. The background shows a bright window and a green exit sign.

Marcovil

Supply Chain

Strong & Reliable Partners

SIEMENS

Schneider
Electric

OMRON

Continental
CONTITECH

SEW
EURODRIVE

TOMRA



The background image shows an industrial setting. On the left, there is a grey electric motor with a cooling fan. To its right is a large, dark, curved metal component, possibly a part of a machine or a large wheel. In the background, there are several rows of metal shelving units filled with small, dark, cylindrical objects, likely industrial components or parts. The overall scene is industrial and technical.

Marcovil

Quality

Quality Policy

At all organizational levels, MARCOVIL undertakes to:

1. Maintain and periodically review the Management System according to **ISO 9001 criteria**, systematically self-evaluating management practices and their results.
2. Get a **motivated team of well-qualified professionals** and promote their active participation in the pursuit of the objectives of the company.
3. Get **the preference and satisfaction of the Clients**, through competitive products, fulfilling both the requirements of the Clients and the applicable statutes and regulations.
4. **Continuously improve the effectiveness of its processes by making the resources available leased and reducing waste** to offer the best product at the lowest cost.
5. **Establish partnerships** with stakeholders, both of which benefit.
6. **Identify, Evaluate and Control the risks** to prevent the occurrence of failures or undesirable situations.

Quality Certifications & Procedures

- TUV Certificate ISO 9001:2015
- TUV Austria Certificate EN 1090-1:2009 + A1:2011
- Welding Procedure Certificated by ISQ (*Instituto de Soldadura e Qualidade*)
- Certified Welders by ISQ (*Instituto de Soldadura e Qualidade*)
- Working Instructions
- In-House Quality Inspections
- Health and Safety Policy
- In-House Canteen for Lunch in order to guarantee the same level of calories to all workers
- Birth Incentive Program
- Innovation Incentive Programs

A photograph of a large industrial conveyor belt system in a factory. The conveyor is blue and yellow, with a motor and pulley system visible. The background shows a high ceiling with red pipes and skylights. The text "Marcovil" is overlaid in white.

Marcovil

Safety of Machinery
[Conveyor Belt Example]

T010

Safety of Machinery

Machinery directive 2006/42/EC Annex II

Safety of machinery according to
EN ISO 13849-1 and EN ISO 12100:2010

A photograph of an industrial conveyor system. The main conveyor is a grey metal structure with a yellow safety cage around the motor. A control box is mounted on the side of the motor. The conveyor is inclined upwards. In the background, there are concrete stairs and another conveyor system. The floor is made of concrete.

Control Box On/Off

Limit Switches



A photograph of a green industrial machine, likely a conveyor system, with a yellow perforated safety guard. A rotation sensor is mounted on the machine. The sensor is a small, cylindrical device with a black cap and a white base, connected to a white cable. The machine is painted green, and the safety guard is yellow with a pattern of small holes. The background shows a factory setting with a metal structure and a yellow overhead crane.

Rotation Sensor

Protections in all moveable components

