

**ARKEMA**

# Discover MLPC

12/16/2024

**MLPC**



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# MLPC: Presentation

## PROFILE

- **100% subsidiary of Arkema**
- **World leader** in the production and sales of **additives for the rubber industry and chemical intermediates**
- A specialist in chemistry of **CS<sub>2</sub>**
- Provider of safer **solutions for vulcanization** system to customers through **its own R&D with Arkema R&D support**
- **Superior supply chain reliability** around the world

Sales in more than

**37** countries



# 2

**Production sites: Rion des Landes & Lesgor**

Both production sites are SEVESO high threshold and comply with ICPE regulations

# 160

employees

# 1

technical support

# 1

R&D center



## OUR CERTIFICATIONS



## MLPC, 100% Arkema subsidiary

- With a leading industrial and commercial presence, **Arkema** operates in 55 countries with 21,100 employees worldwide, 16 R&D centers and 148 industrial sites
- In 2020, **Arkema** has been entering a new phase of its transformation and will reinforce **its expertise now structured into three coherent and complementary segments** - Adhesive Solutions, Advanced Materials, and Coating Solutions

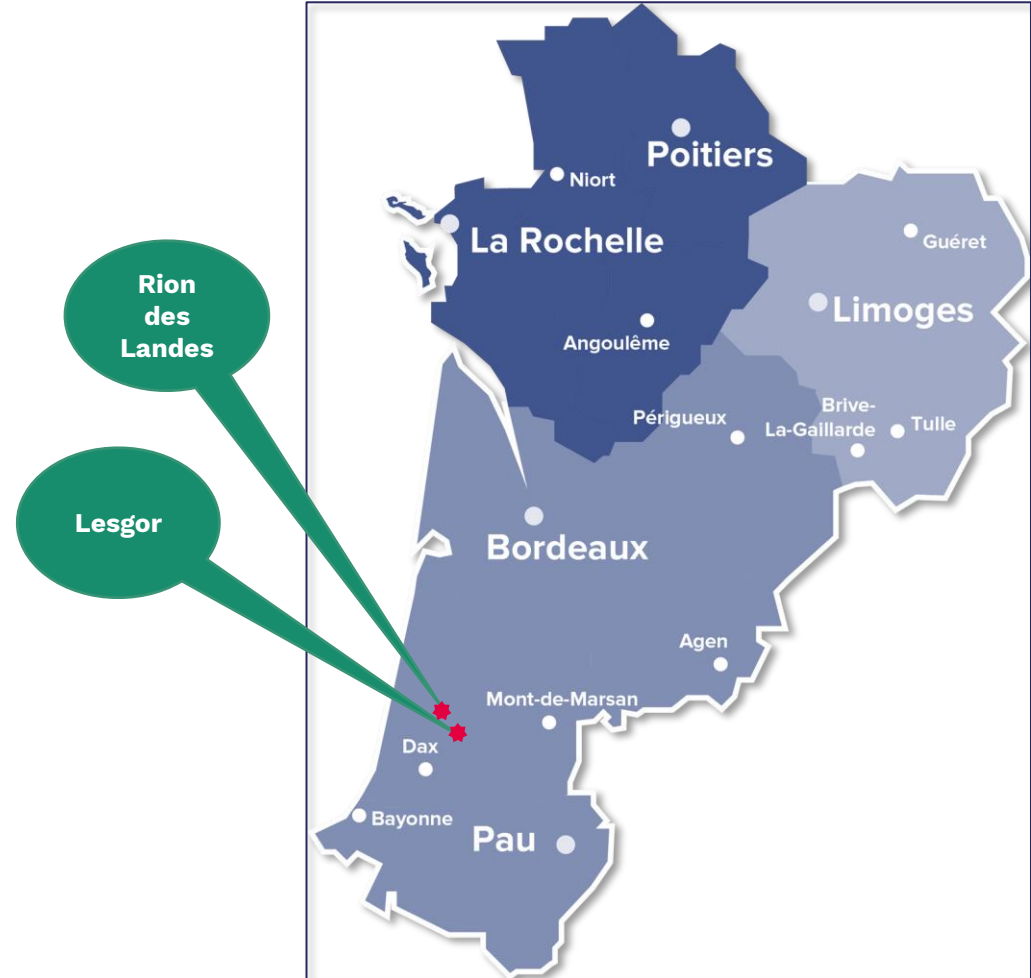
### **MLPC belongs the Advanced Materials Segment**

**Arkema aims to generate sustainable and responsible growth for its businesses and to meet societal challenges by providing its customers with sustainable and innovative solutions that contribute to the Sustainable Development Goals defined by the United Nations**

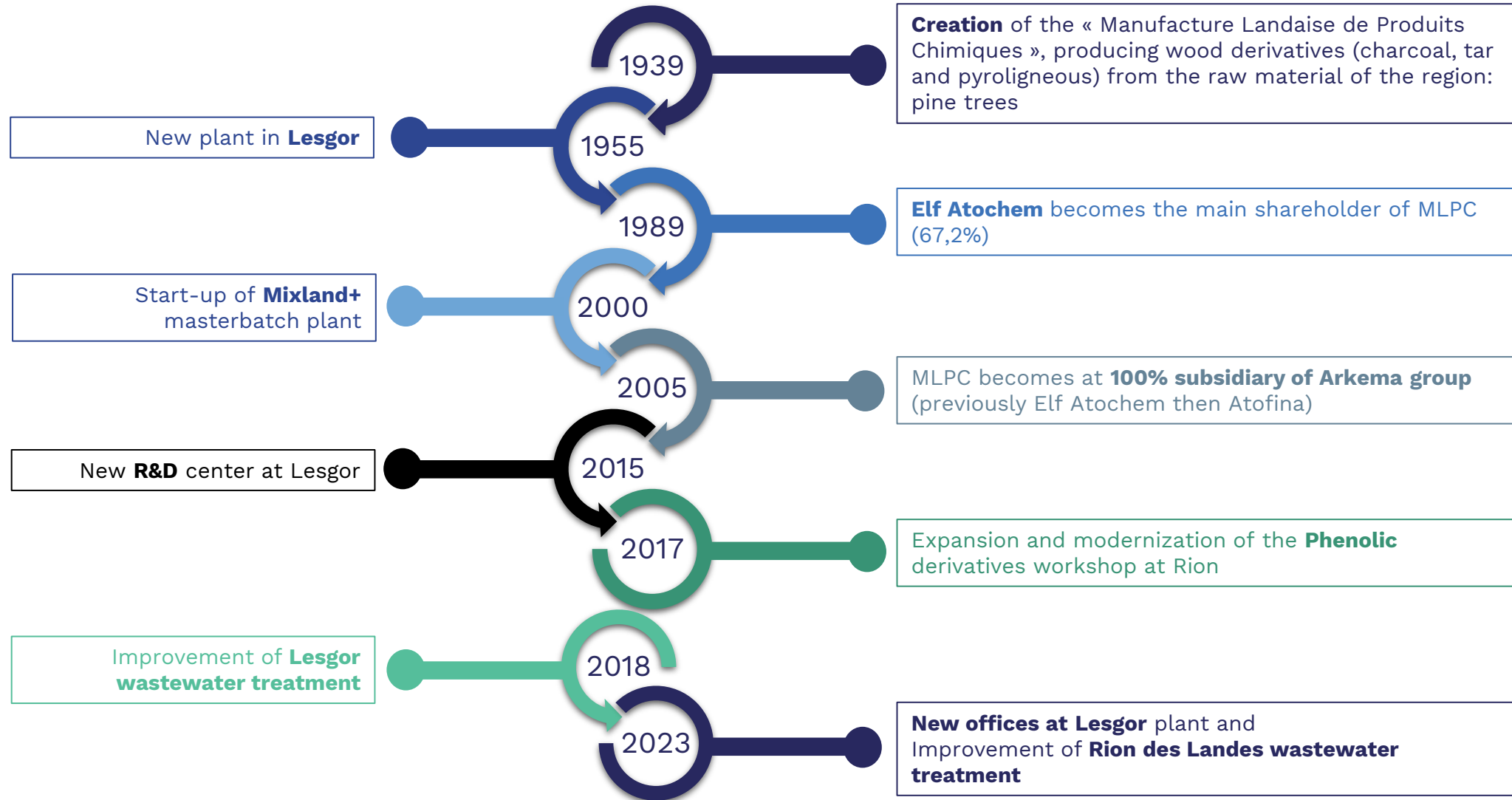
# Introduction – Location



**MLPC** is located in South-West of France, near Bordeaux

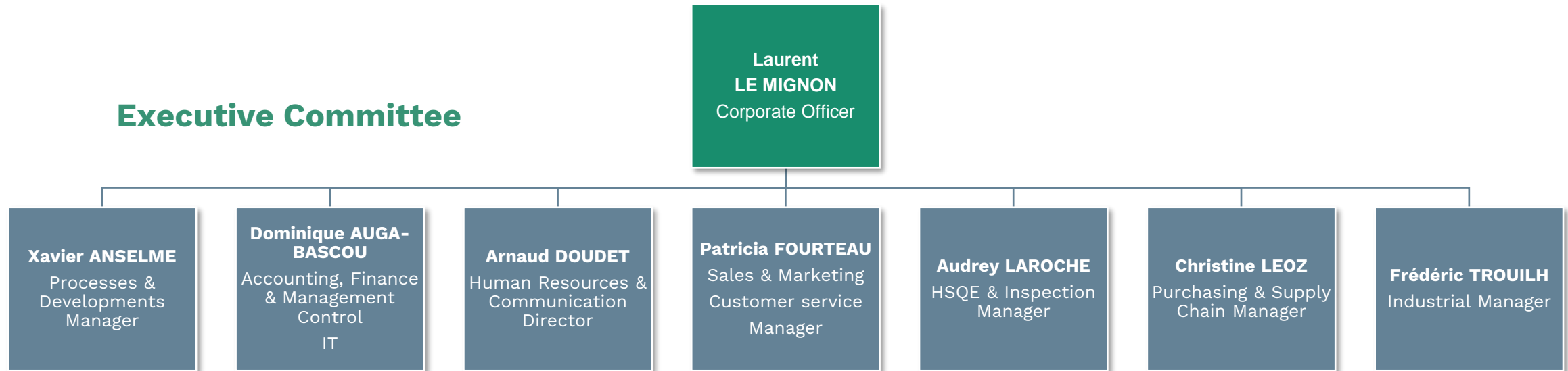


# MLPC history



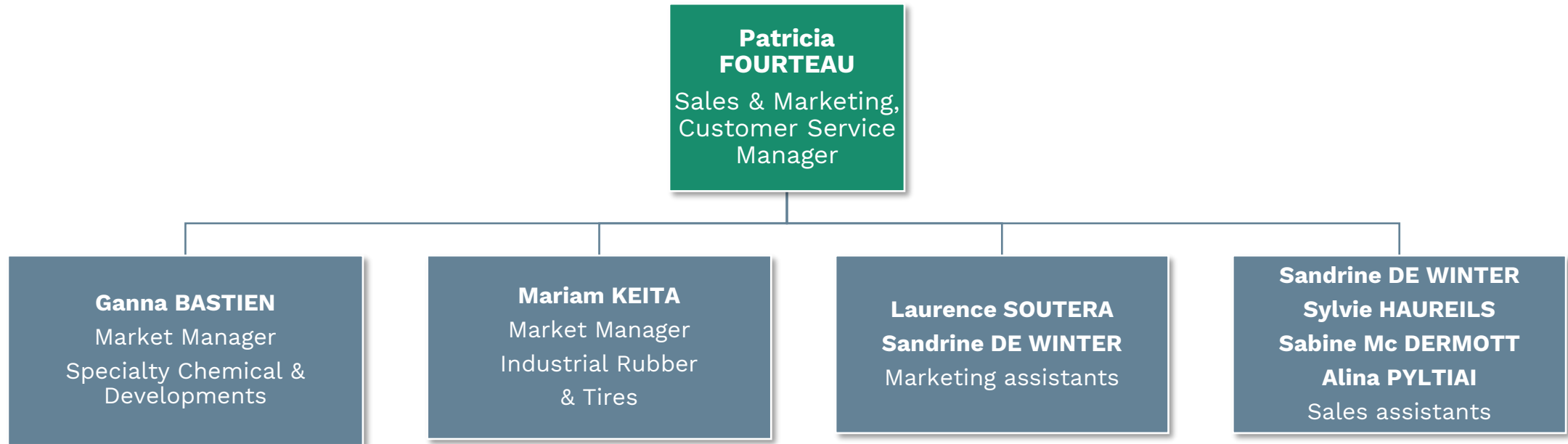
# MLPC – Organization

→ General direction



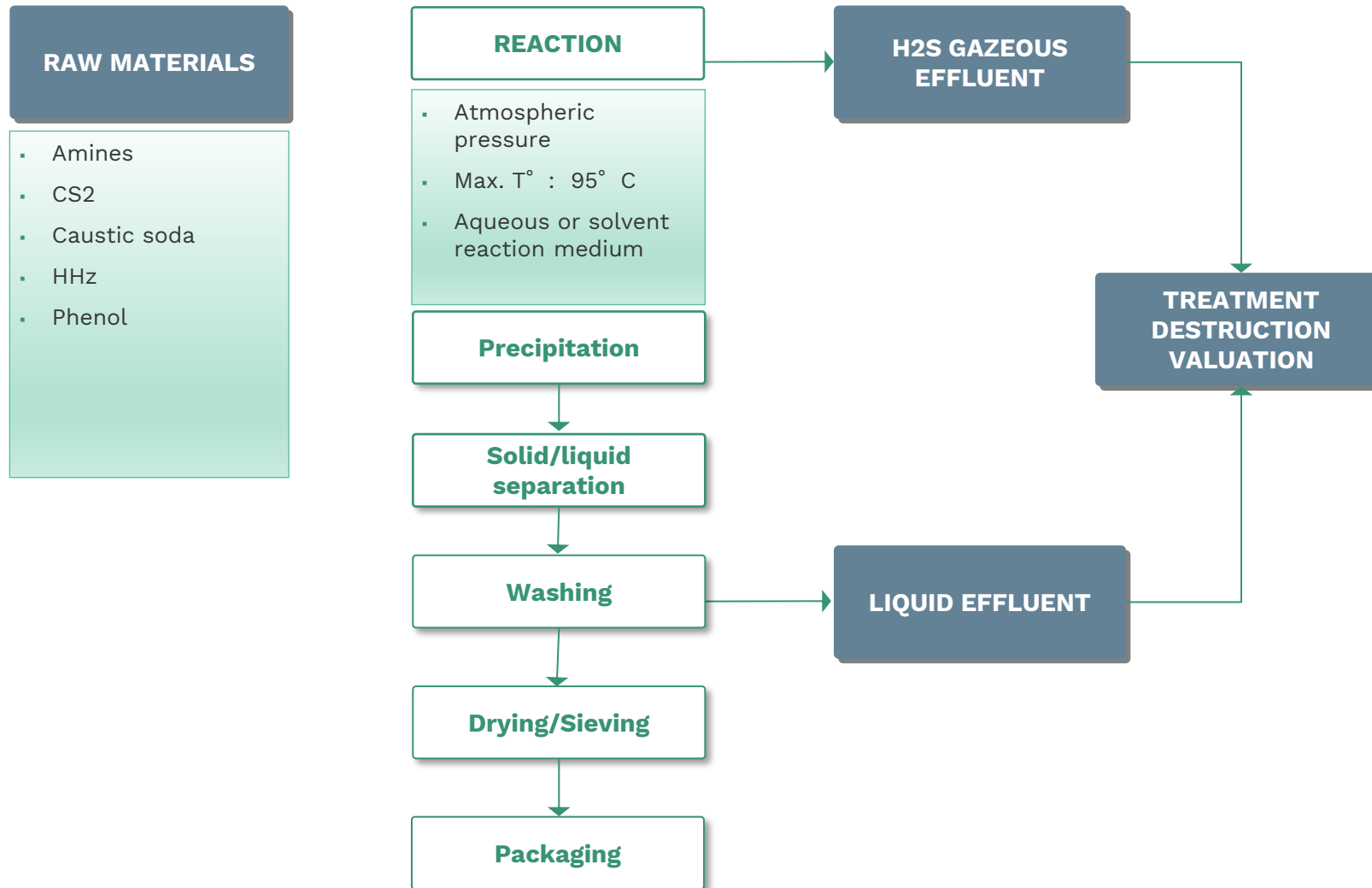
# MLPC – Organization

→ Business & Marketing department

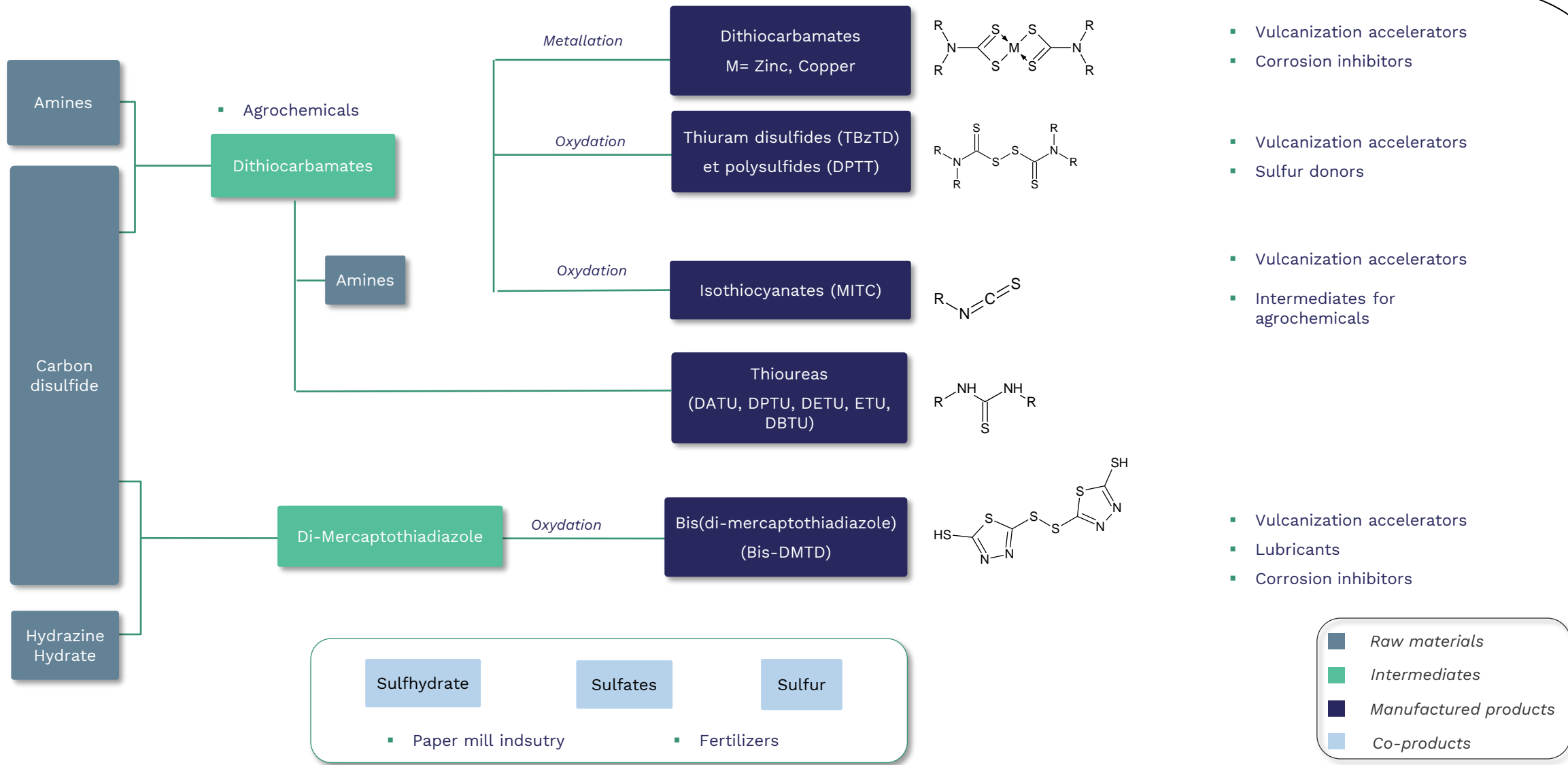




# MLPC Chemicals – Typical production process

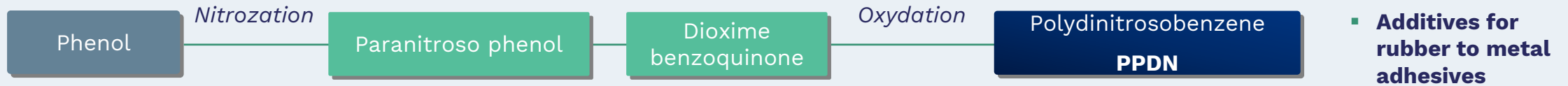


# Lesgor plant



# Rion des Landes plant

## Chemistry



## Polymerbond for rubber additives



■ Raw materials

■ Intermediates

■ Manufactured products

# Advantages of the Mixland+<sup>®</sup> brand

## MIXLAND+<sup>®</sup>



Lower scrap rates thanks to the high level of filtration

Faster dispersion

Easier of handling

Better chemical stability

Higher quality consistency

Wider elastomers compatibility

Cost savings thanks to a higher chemical efficiency

# The R&D department

2 Laboratories located on the 2 industrial sites

1 Manager PhD in Chemistry, 1 Engineer, 3 Technicians

## Synthesis Laboratory

New products, processes optimization



### Synthesis tools:

- Batch reactors 1-2L
- Continuous-flow reactors (10ml/min)

### Analytic tools:

- DSC, HPLC, DCO, Titrations, Particle size analysis

## Applicatives Performance Laboratory

Rubber applicative studies, Technical Support  
Mixland workshop development



### Mixing tools:

- Internal mixer: from 60cc to 2.5L
- Pilote: Continuous mixing (Masterbatch) and external mixer

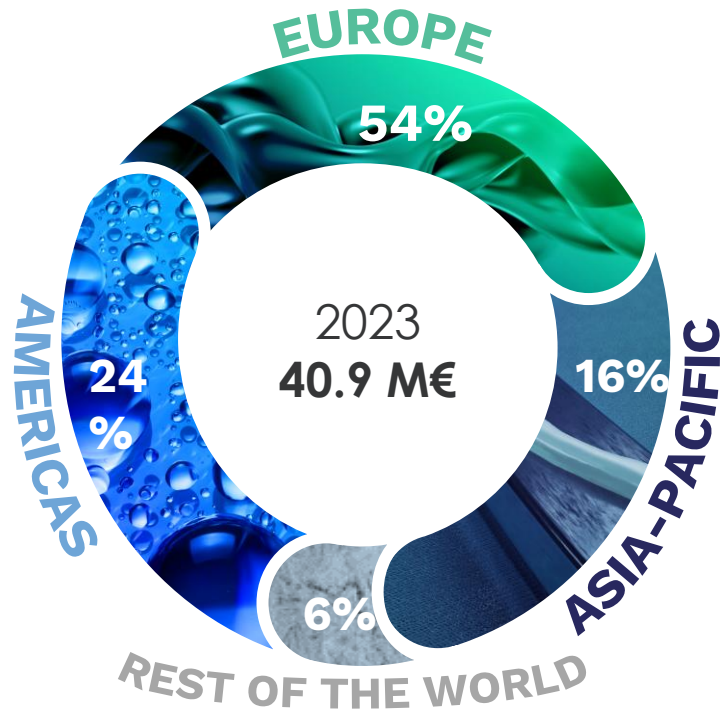
### Analytic tools:

- MV2000 viscosity: Mooney (scorch time)
- Rheotech rheometer MD+
- Compression molding
- Shore A hardness
- Dynamometer



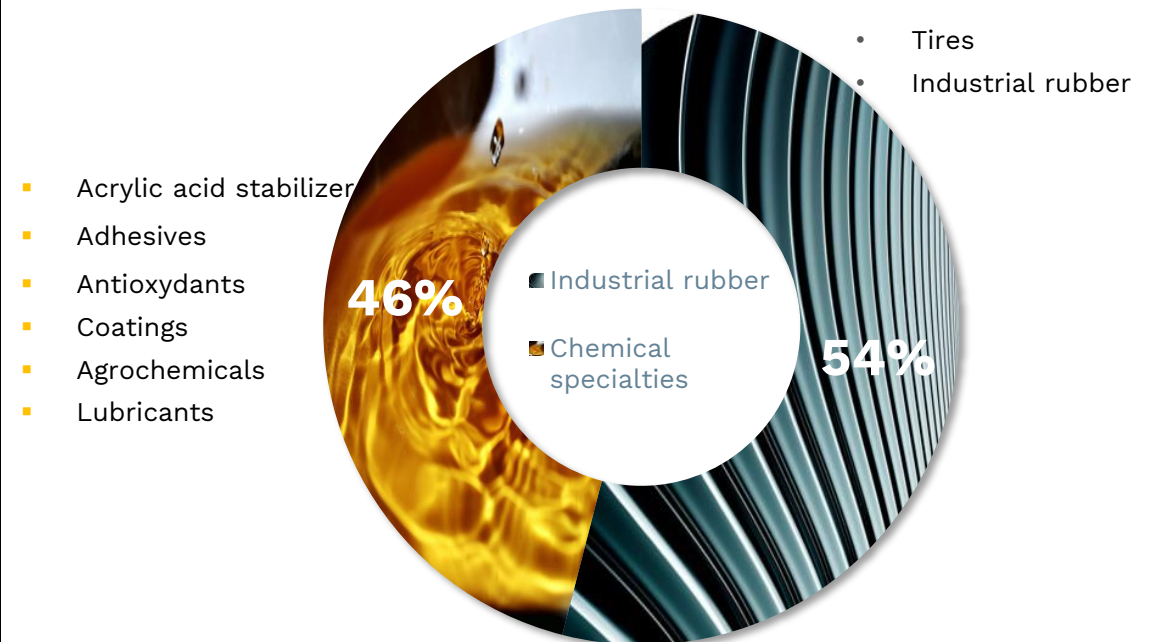
# MLPC Markets – A diversified products portfolio

## Sales by region



- Europe is the 1st market (10% in France)
- MLPC works with an extensive network of active distributors

## Markets & Key applications



- Specialty market is growing

**EKALAND™**

**MIXLAND+®**

**VULTAC®**

# MLPC Markets – Secondary accelerators for Rubber applications

## Specialties

- TBzTD, ZBEC, ZDEC
- DPTT

## New products

- SD (for ETU replacement)
- TBP (for TMTD & OTOS replacement)

## Unique European producer of Thioureas

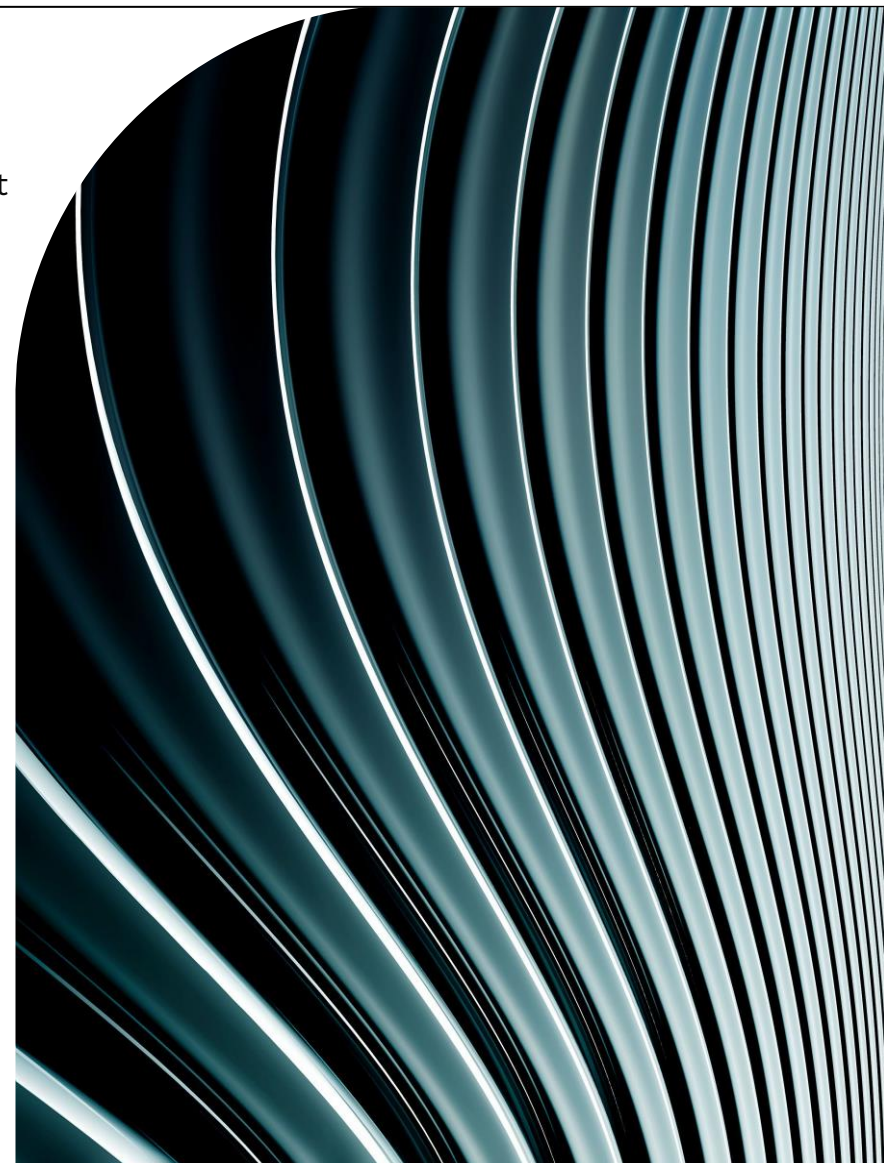
- To secure the supply of the market players in Europe

## 2nd largest producer of Polymerbound Masterbatches (Mixland+®) for Industrial Rubber in Europe

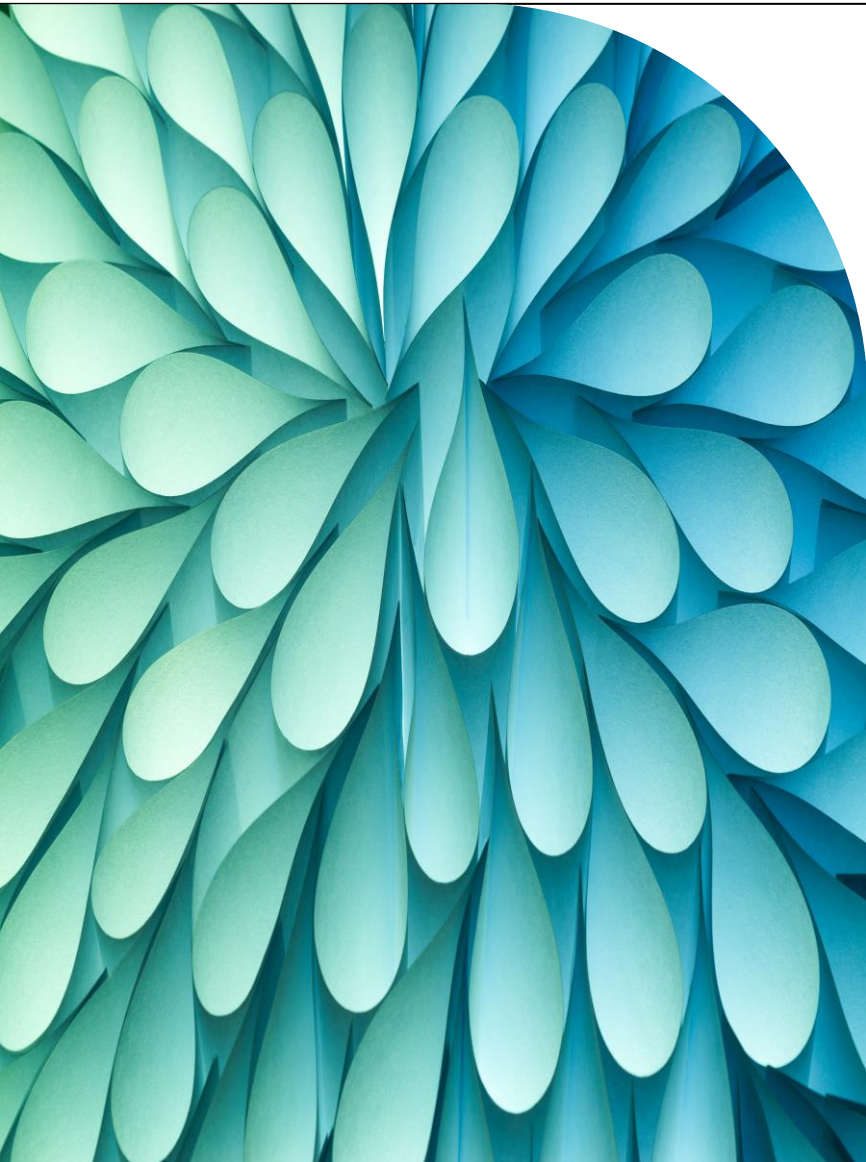
- MLPC has an innovative process (continuous) and proprietary binder allowing for higher value differentiated sales

## Vultac® is sold as anti heat-fatigue agents in Green Tires

- Highly differentiated sales and market leader for that kind of chemistry
- Supports larger deals with key tire makers around the world in synergy with ZBEC and TBzTD



# MLPC Markets – Chemical specialties



## **MITC:** For Wood Pole fumigation in the USA

- Partnership with the market leader
- MLPC has sole US EPA registration for MITC in this application in the USA

## **PPDN:** Coupling agent for Rubber/Metal adhesive

- MLPC has an unique expertise in this type of chemistry and a market leader as a producer

## **CDBC:** As antioxydant for Acrylic acid

- MLPC is world leader in production of CDBC used for Acrylic Acid
- MLPC has lion share of supply to all key AA producers, including Dow, Arkema, LG Chemicals, Nippon Shokubai, Mitsubishi

## MLPC is **unique European producer of Thioureas:**

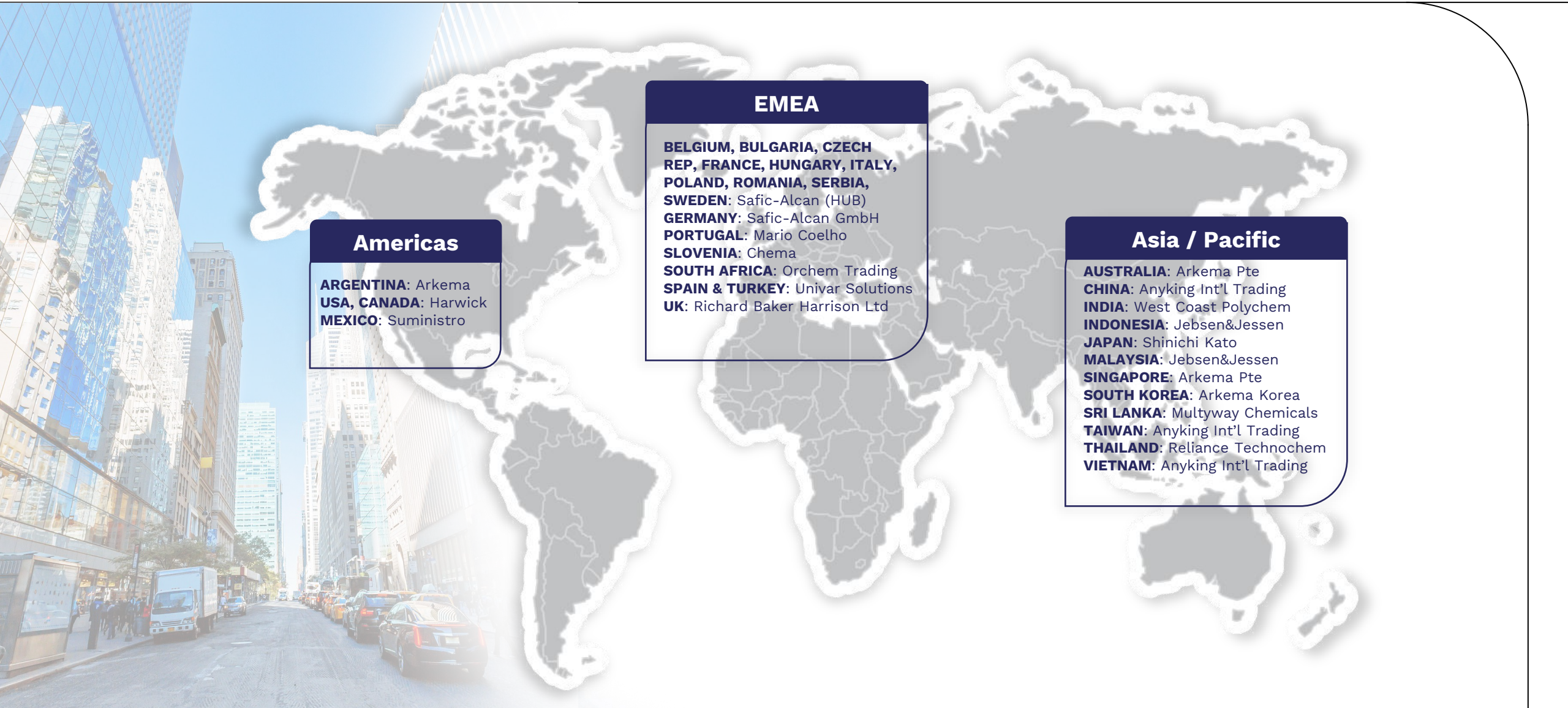
- DETU CR, DATU LI play a role of corrosion inhibitors for the treatment of metallic surfaces
- DPTU PD is an antioxidant for PVC tapes and a foam stabilizer for Latex

## **New product & Developments with our partners:**

- **Bis-DMTD**, additive for lubricants
- **3.5 DMP** as coating agent for polyurethanes
- And other projects related to **CS<sub>2</sub> chemistry**



# MLPC Markets – Wordwilde sales distribution network



## Americas

**ARGENTINA:** Arkema  
**USA, CANADA:** Harwick  
**MEXICO:** Suministro

## EMEA

**BELGIUM, BULGARIA, CZECH REP, FRANCE, HUNGARY, ITALY, POLAND, ROMANIA, SERBIA, SWEDEN:** Safic-Alcan (HUB)  
**GERMANY:** Safic-Alcan GmbH  
**PORTUGAL:** Mario Coelho  
**SLOVENIA:** Chema  
**SOUTH AFRICA:** Orchem Trading  
**SPAIN & TURKEY:** Univar Solutions  
**UK:** Richard Baker Harrison Ltd

## Asia / Pacific

**AUSTRALIA:** Arkema Pte  
**CHINA:** Anyking Int'l Trading  
**INDIA:** West Coast Polychem  
**INDONESIA:** Jebsen&Jessen  
**JAPAN:** Shinichi Kato  
**MALAYSIA:** Jebsen&Jessen  
**SINGAPORE:** Arkema Pte  
**SOUTH KOREA:** Arkema Korea  
**SRI LANKA:** Multyway Chemicals  
**TAIWAN:** Anyking Int'l Trading  
**THAILAND:** Reliance Technochem  
**VIETNAM:** Anyking Int'l Trading

# Quality, Health/Safety & Environment

## Health Environment & Safety

- Both production sites are SEVESO high threshold and comply with ICPE regulations for the control of industrial and environmental risk
- All our production units are subject to a periodic assessment of risks
- Arkema Best Practices are implemented
- Statistics and Indicators track performance on all relevant HSE aspects

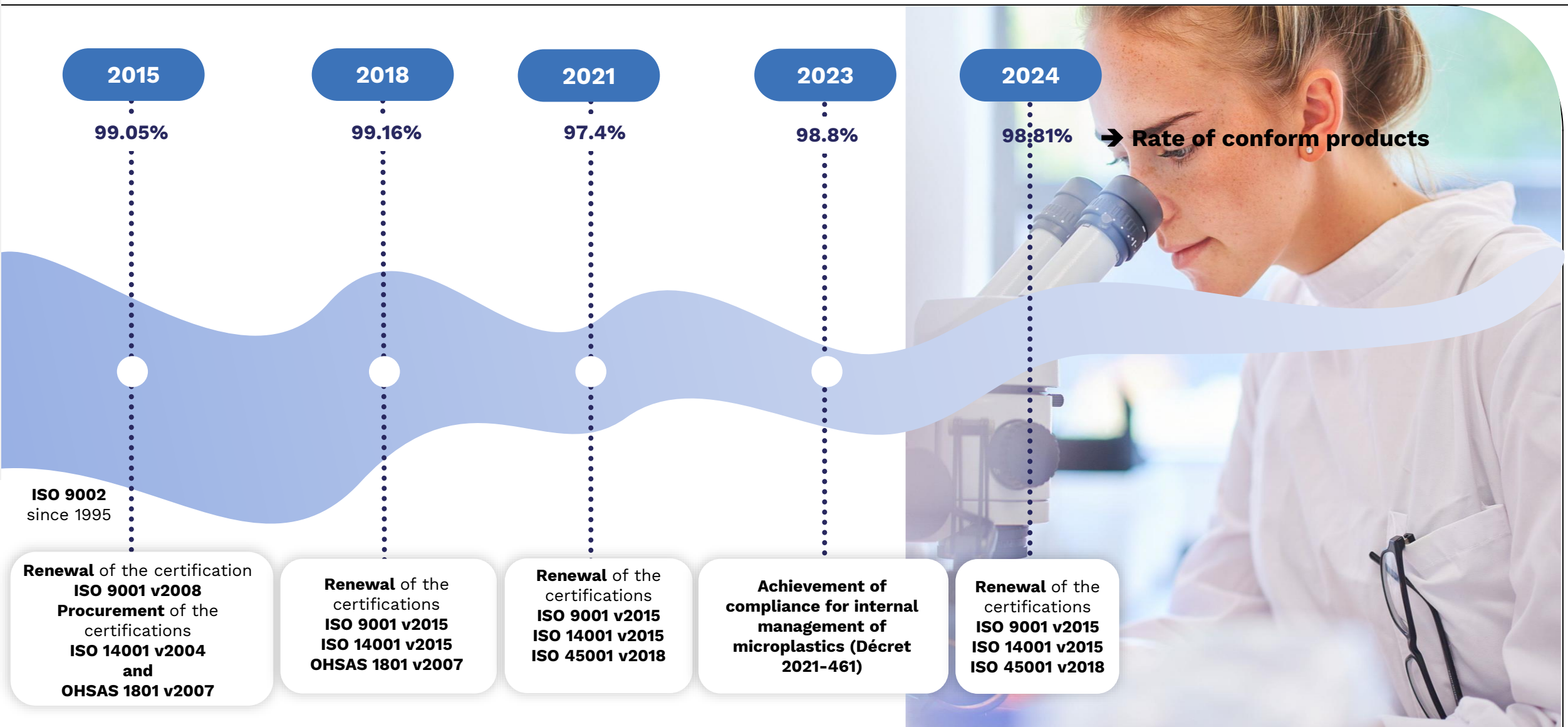


- ISO 9001v2015
- ISO 14001v2015
- ISO 45001v2018



- Very good acceptance by local communities and local NGOs (no complaint for more than 3 years)
- Permanent dialogue with local political and administrative officials

# Quality: Rate of conform products (physico-chemical specifications)



# Our strategy

MLPC is an industrial chemical company, subsidiary of Arkema which mainly offers additives for the rubber market and specialty niche chemicals, in synergy with our technologies and industrial assets.

It evolves in partnership with the specialists of the targeted markets.



## Our CUSTOMERS can expect from us:

- A high level of **quality** of **products** and **services**
- A **Technical support** in our rubber core business
- A **R&D** enabling us to market regularly new products to meet evolving technical requirements and environmental issues



## Committed and supportive and aware of the challenges of Sustainable Development, MLPC employees work to provide to

- A **safe** and **adequate** workplace
- Economic results to provide further **investment**
- **Reliable** and **cost-efficient** production processes
- Respectful relationships based on teamwork and open **dialog**
- Smart **management** of priorities



## As a responsible producer of chemicals, MLPC International is committed to a proactive and durable improvement plan, with the goal to:

- **Protect/Prevent**  
Analyze and control all risks and their impacts in order to protect all our employees and external stakeholders, and to protect the environment against any accident that may occur during operations  
Prevent all risks and their impacts that could affect all those with whom MLPC cooperates
- **Comply**  
Anticipating and complying with new applicable regulations, Arkema requirements and working towards a more environmentally friendly production
- **Improve**  
Capitalize on opportunities and feedback from experience in a process of continuous improvement

# We are committed to a sustainable future

We deliver sustainable solutions driven by innovation

We manage our activities as a responsible manufacturer

We cultivate an open dialog and close relations with our stakeholders

**Responsible product stewardship :**

- 2030 Target: 65% sales must be (Impact+)

**Have a significant contribution to SDGs**



**Implement and facilitate circularity**

- 2022: 10% of sales with renewable and recycled materials

**Safety : 2 indicators for 2030**

- 1. TRIR: achieve 0.8
- 2. PSER: achieve 2.0

**Climate : 2 indicators for GHG**

SBTi approve Arkema trajectory of 1.5°C in 2030:  
 Scope 1&2: -48.5%  
 Scope 3: -54%

**2030 targets:**

- Energy 25% reduction in consumption intensity
- Water 60% reduction in intensive emission
- Air 65% reduction in intensive emission of volatile organic compounds

<https://www.arkema.com/global/en/investor-relations/corporate-governance/csr/>

**Employee development and diversity:**

2030 targets:

30% female senior management and 50% non-French nationals among senior management and executives

**Responsible Purchasing**

> 80% suppliers covered by TfS assesment



# We are committed to a sustainable future

In that context, in 2023 MLPC has invested a lot in assets:

- **Water** : More efficient water treatment equipment to ensure clean effluent discharge at both plants, Rion des Landes and Lesgor.
- **Energy** : New boiler and compressor for better management of our gas and electricity consumption.
- **Waste** : R&D intensive work to find ever more environmentally-friendly processes, for example to avoid incinerating the mother liquor from our synthesis processes.
- **The circular economy** : Recycling of equipment no longer in use, materials find a second life through metal sorting, but also the use of certain synthesis waters as a heat-generating resource.
- **The land** : All our waste follows approved channels by French authorities for waste treatment.
- **The Air** : Already at the heart of our business, this ambitious program is addressed through the safety of our processes.



<https://www.arkema.com/global/en/investor-relations/corporate-governance/csr/>

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