

Il ruolo chiave dell'industria chimica per una reale transizione verso una Circular Economy

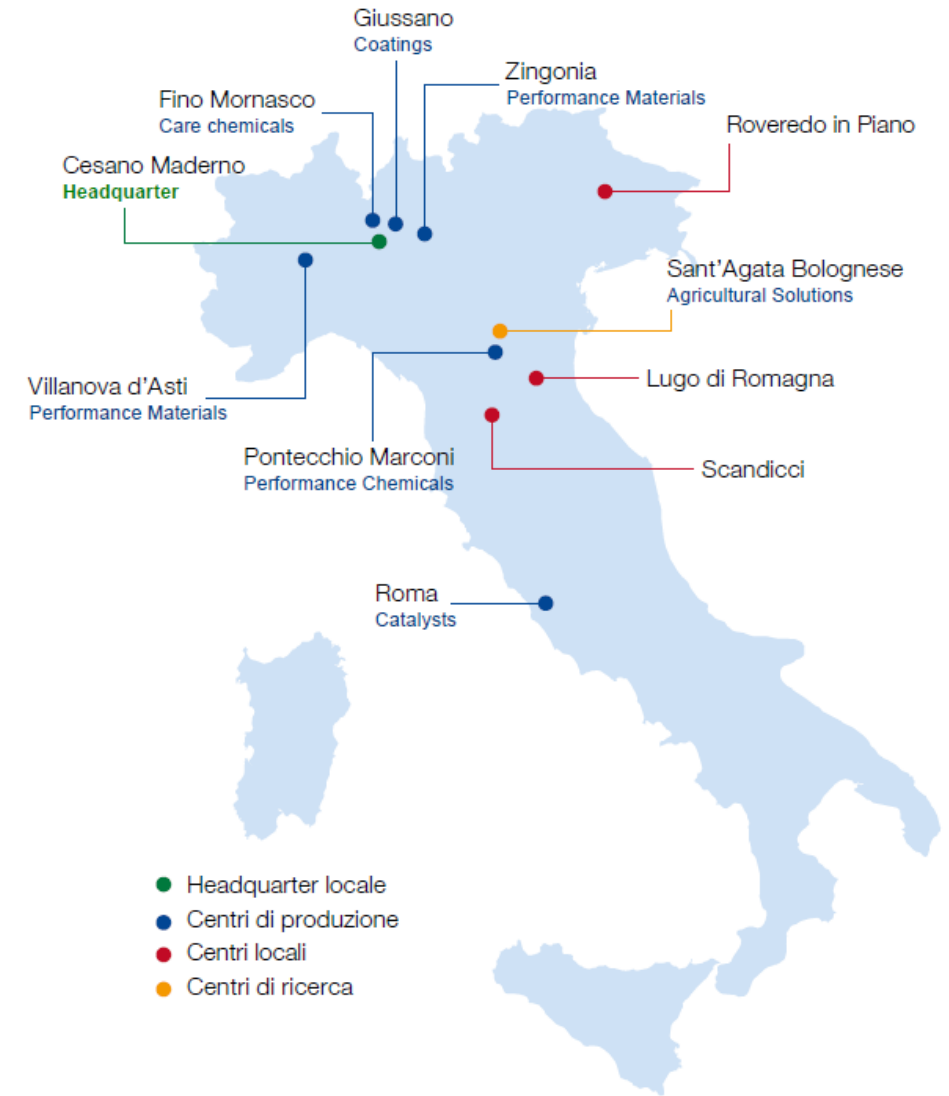
Celmira Susana Sousa
BASF Italia SpA



Rimini, 27 ottobre 2021

BASF in Italia

- I nostri prodotti chimici sono utilizzati in quasi tutti i settori
- Uniamo al successo economico la tutela dell'ambiente e la responsabilità sociale
- **Headquarter:** Cesano Maderno (MB)
- **Vendite 2020:** €1,6 miliardi
- **Collaboratori** (al 31 dicembre 2020): 1.239
- **11 siti di cui 6 produttivi**
- **7 Società:** BASF Italia S.p.A., BASF Coatings Services Italy S.r.l., BASF Colors & Effects Italy S.r.l., Chemetall Italia S.r.l., Chemetall S.r.l., Kendell S.r.l., Nunhems Italy S.r.l.
- **Settori industriali:** Automotive, Agricoltura, Biomedicale, Chemicals, Vernici e Rivestimenti, Edilizia, Arredamento, Industria Calzaturiera, Home & Personal Care, Packaging



Heading towards a sustainable future

We are heading towards a sustainable future

In the 21st century, sustainability has become a worldwide megatrend

Modern life is great. But it is also taking a heavy toll on our planet. If we want to keep nature intact, we need to be more efficient with our resources.

That is why the concept of sustainability has become a megatrend – in politics as well as in business sectors as diverse as the chemical industry.



BASF Carbon Management

Our commitments to making the
Paris Climate Agreement **come true**

2030

25%

CO₂ emissions reduction
compared with 2018¹

2050

**Net
Zero**

CO₂ emissions¹

¹ The goal includes Scope 1 and Scope 2 emissions. Other greenhouse gases are converted into CO₂ equivalents according to the Greenhouse Gas Protocol.

Our levers to reduce BASF's CO₂ emissions

Grey-to-green

Power-
to-steam

New
technologies

Continuous
improvements

Bio-based
feedstock



The EU vision – becoming the first climate neutral continent by 2050

POLITICAL GUIDELINES FOR THE NEXT EUROPEAN COMMISSION 2019-2024



BASF Circular Economy Program

How do we drive Circular Economy?



We aim at **doubling** our **circular sales** to reach **€17 billion** by 2030.



We commit to use **250,000 metric tons of recycled feedstock** by **2025** globally¹.



We run a **Circular Economy Program** to accelerate the transition.

¹BASF signed Global Commitment of Ellen MacArthur Foundation to convert this feedstock into more than 160,000 tons recycled plastics (calculated by mass balance) annually by 2025

Plastics, plastic waste & end-of-life options

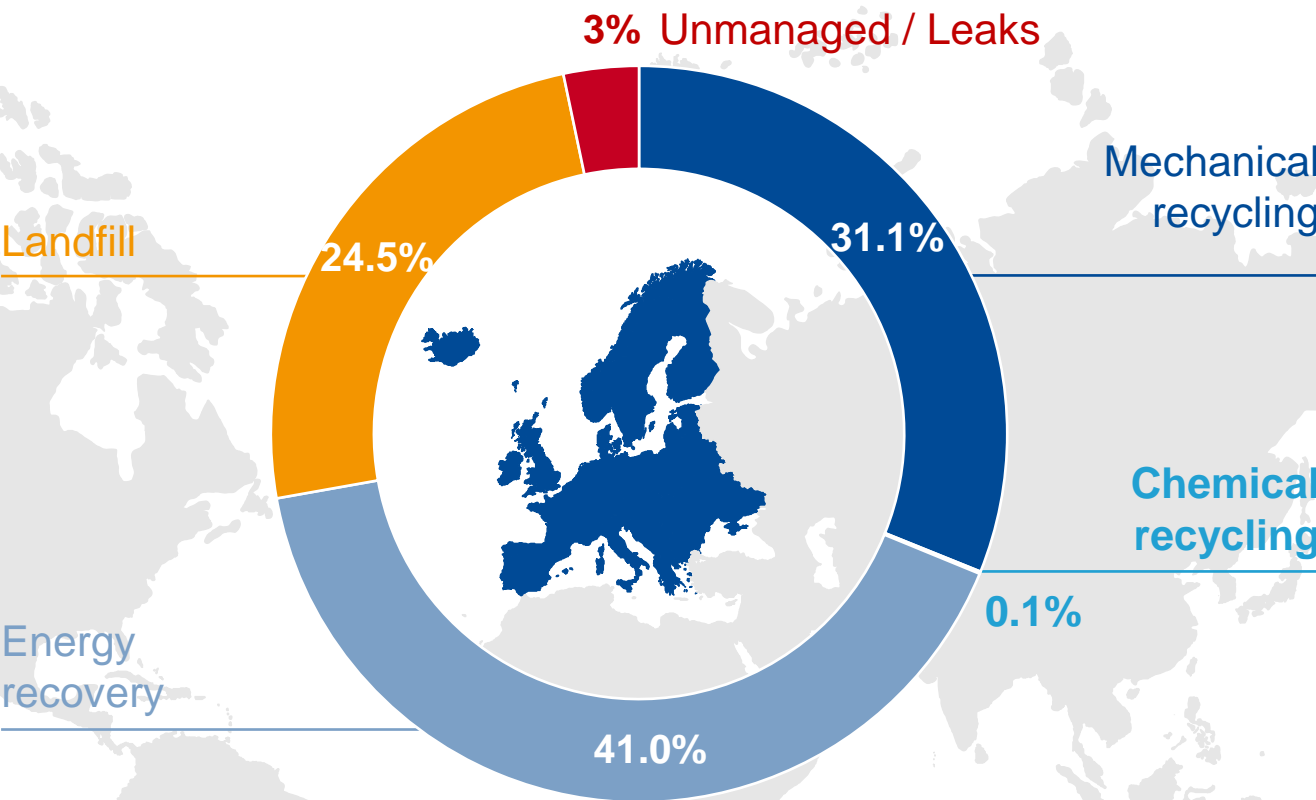
Plastic waste is a major global challenge

We must address end-of-life challenges to make full use of plastics' benefits



Today's recycling landscape for plastic waste

Fate of 30 million metric tons of plastic waste generated in EU28+2 in 2018



40% of all used tires in Europe are burned. We can give them a new life. **With chemical recycling.**

Source: ETRMA (2021): End of Life Tyres Management – Europe – 2019

BASF
We create chemistry

Only one third of all plastic waste is kept in the materials cycle in EU28+2.

Source: Conversio, "Circular Economy of Plastics 2018 EU28+2", September 2019 // Conversio, "Global Plastics Flow 2018", February 2020

Let's take the next step in plastic recycling!



Closing the loop for plastics with the ChemCycling™ project

BASF cooperates with Quantafuel, Pyrum and New Energy

Partnerships are part of BASF's efforts to develop chemical recycling as a business



- Pyrolysis of **mixed plastic waste**
- Start-up of plant in September 2020
- BASF supports further development of Quantafuel's technology towards optimizing the output for the use as feedstock in chemical production



- Pyrolysis of **end-of-life tires**
- One production line in operation after 10+ years of optimization
- Ready for roll-out of technology, planning to build additional production lines with partners



- Pyrolysis of **end-of-life tires**
- One plant in operation after almost a decade of optimization
- Feasibility study underway that targets the adaption of New Energy's technology to the conversion of other plastic waste streams

Examples for customers applications made with Ccycled™ products

Commercial product –
in the German market since summer 2020



The innovative packaging based on recycled raw materials is a perfect match for our new Gutfried organic chicken meat sausage

Maximilian Tönnies, Managing Director
Zur Mühlen Gruppe

Prototyping



Plastics are vital to car manufacturing and have proven benefits during their use phase, however, plastic waste remains a major global challenge. Solving this issue requires innovation and joined-up thinking between regulators, manufacturers and suppliers

Chris Brown Senior Sustainability
Manager, Jaguar Land Rover

Benefits of ChemCycling™

Benefits of ChemCycling™ – Overview

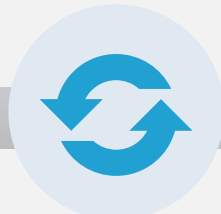
Why BASF is developing chemical recycling for use on industrial scale

Complementary approach to existing recycling methods, thus overall recycling rates of plastic waste will be increased



Solution oriented end-of-life option since redesigning plastic products to make them mechanically recyclable is not always feasible

Contributing to a circular economy as plastic waste is turned into feedstock for the chemical industry



Replacing fossil resources and **saving CO₂ emissions** against conventional plastics production

Virgin quality products for demanding applications can be manufactured, e.g., food packaging or automotive parts



Supporting our customers in achieving their recycling targets

Social media campaign

<https://www.linkedin.com/feed/update/urn:li:activity:6858331605191139328>



We create chemistry