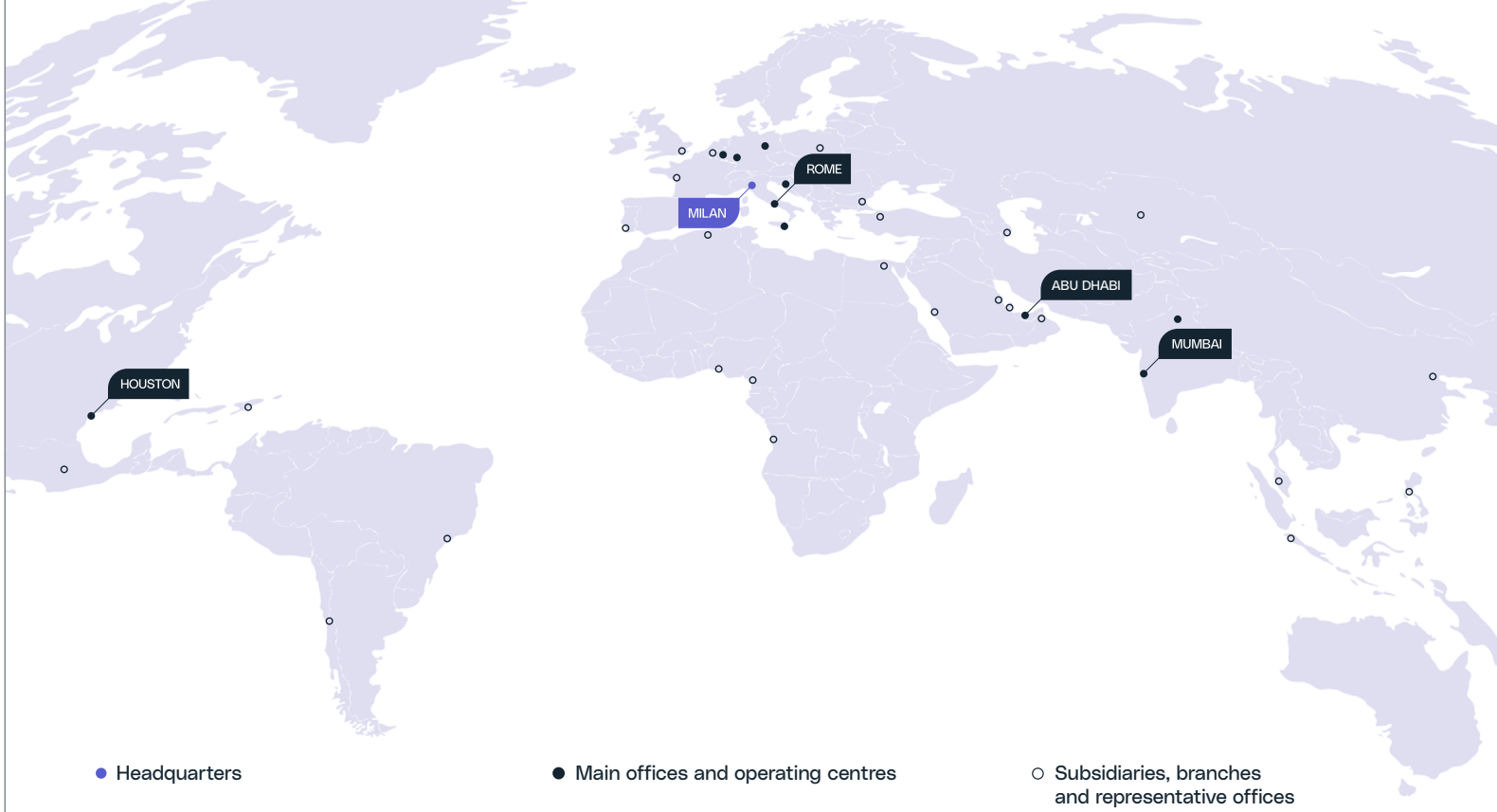
NEXTCHEM
MAIRE Sustainable Technology Solutions

We enable energy transition

GROUP GLOBAL PRESENCE

NEXTCHEM is MAIRE's company dedicated to **Sustainable Technology Solutions**.

We enable energy transition through innovative technologies within our three business lines: Sustainable Fertilizers & Nitrogen-Based Fuels, Low-Carbon Energy Vectors, and Sustainable Materials & Circular Solutions.



5.9
Revenues (€ billion)

13.8
Backlog (€ billion)

212.4
Net Income (€ million)

50
Countries

~10,000
Employees

~50,000
People engaged worldwide*

Data as of 31st December, 2024

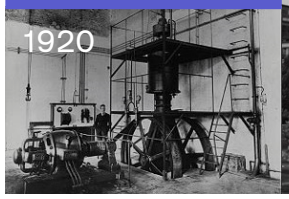
**The data includes employees, collaborators and sub-contractors*

TECHNOLOGY EXCELLENCE STRENGTHENED OVER TIME

AMMONIA REVOLUTION

1920

Fauser Montecatini pioneers the ammonia production process from renewables.



HERE COME THE FERTILIZERS!

1947

Stamicarbon is established in the Netherlands, bringing crucial technological and engineering skills. This marks the start of a journey towards global leadership in the fertilizer market.

FUELING THE FUTURE

1971

The Italian engineering company Selas Italia (later known as **KTI**) is founded. Specializing in high-temperature technologies, KTI brings expertise in customized, advanced solutions for hydrogen and syngas production.

POLYETHYLENE PIONEERS

1992

TPI is established, focusing on high-end know-how in planning plants for low-density polyethylene (LDPE) production.

GREEN CHEMISTRY & UPCYCLING

2018-2020

The green acceleration begins: **NEXTCHEM** is launched, spearheading green chemistry and energy transition. The acquisition of **MyReplast Industries** and the creation of **MyRechemical** enhance the Group's position in plastic upcycling and waste-to-chemical technologies.

UNBOXING THE FUTURE

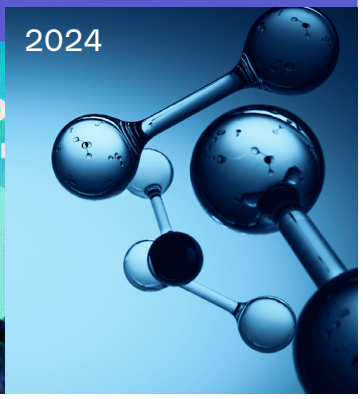
2023

The **"Unbox the Future"** Strategic Plan is announced. A new unit lights a new phase in the industrial cycle: **Sustainable Technology Solutions** is formed under NEXTCHEM. Acquisitions of **Conser** and **MyRemono** expand expertise in biodegradable plastic and chemical recycling.

HYDROGEN HORIZONS

2024

NEXTCHEM continues its growth with the acquisition of **HyDEP** and **GasConTec**. HyDEP pioneers proprietary solutions for green hydrogen production, while GasConTec excels in low-carbon hydrogen, ammonia, and methanol technologies.



MAIRE'S TECHNOLOGICAL ROOTS

NEXTCHEM: THE GREEN ACCELERATION

THE ONGOING BLOOM

WHO WE ARE

WE EVOLVE TECHNOLOGY FOR A BETTER WORLD

Technology is powerful.
At NEXTCHEM we use it
to make the difference.

A WIDE RANGE OF MARKET-READY SUSTAINABLE SOLUTIONS

Broad portfolio of proprietary technologies

delivered by cutting edge innovation
and capacity to scale-up

30+ market-ready technologies
protected by ~2,500 patents

Superior process design capabilities

to develop complex schemes
integrating multiple technologies

700+ employees

30+ partnerships
with research centers

End-to-end economically viable solutions

from feedstock to final product
in high-growth market segments

60+ 2023-2024 cumulative awards
widely diversified

DIVERSIFIED OFFERING TO MEET CUSTOMERS NEEDS IN FAST-GROWING MARKETS

Our main goal is to enable a low-emission future through our technological portfolio. We leverage our expertise to serve the decarbonization of industries, from transportation to agriculture, from energy to materials.

feed

Sustainable Fertilizers & Nitrogen-Based Fuels

Driving sustainable nitrogen solutions in **fertilizers**, leveraging our leadership in **urea**, while innovating in **ammonia** for hydrogen transport

move

Low-Carbon Energy Vectors

Advancing low-carbon energy via **hydrogen** and **CO2 valorization**, powering aviation, shipping, chemicals, as well as **sustainable plastics** innovation

make

Sustainable Materials & Circular Solutions

Enhancing **circularity** by transforming waste into valuable resources, while using **chemical** and **mechanical recycling** for sustainable material recovery

SUSTAINABLE FERTILIZERS & NITROGEN-BASED FUELS

Nitrogen-based solutions

Technology solutions

NX Stami™ Urea including Ultra Low Energy design and fluid bed granulation technology	Leaders in fertilizer technology, maximizing energy efficiency
NX Stami™ Nitrates	Optimizing nitric acid production
NX Stami™ Ammonia	Ammonia from low-carbon hydrogen (through ATR or CPO)
NX Stami™ Green Ammonia	Futureproof carbon-free ammonia production

SUSTAINABLE MATERIALS & CIRCULAR SOLUTIONS

Valorizing Waste

Technology solutions

NX Circular™	Valorization of waste through gasification and conversion of syngas into hydrogen, methanol, ethanol, or SAF
NX EnerCircle™	Production of bioenergy from waste biomass
NX Replast™	Upcycling rigid plastic waste into valuable products
NX Re™	Chemical recycling of plastic waste into monomers

LOW-CARBON ENERGY VECTORS

Hydrogen suite, low-carbon fuels and carbon capture, Sulphur recovery and Advanced polymers

NX CPO™ Catalytic partial oxidation	Small scale hydrogen production through syngas for hard to abate
NX Reform™ Steam methane reforming	Small-medium scale hydrogen production from gas (available with carbon capture)
NX eBlue™ Steam methane reforming	Low-carbon hydrogen production with reduced natural gas consumption and lower CO_2 emissions
NX AdWin Hydrogen® Autothermal reforming	Large scale low-carbon hydrogen from gas with high efficiency and capture rates
NX FHYVE™	Reliable and cost-effective electrolysis modules for green hydrogen
NX AdWin Methanol® Autothermal reforming	Large scale methanol synthesis from gas for a new low-carbon fuel
NX SAF™ BIO HEFA process, also with pre-treat	Unlocking sustainability of aviation through cost-effective small scale
NX Decarb™	Optimizing and integrating core carbon capture unit
NX SulphuRec™ Sulphur recovery	Abate pollutants in refinery and natural gas processing
NX CONSER™ MAN	Sustainable processes for fine chemicals production
NX CONSER™ Duetto	Building a sustainable future through biodegradable plastics

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