



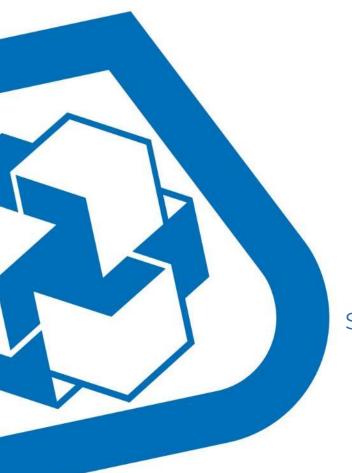
# The CO2 Compensation Process & Sustainable Products By MAPEI





### The CO2 Compensation Process & Sustainable Products

#### Speakers





**Nisreen Salman** 

Specification Manager Middle East & Africa



Mikaela Decio

Corporate
Environmental
Sustainability
Team Leader



Samantha Shepherd

Specification Manager Middle East & Africa



#### Mapei figures

**3.3** 

Billion Euros consolidated turnover 2021



**Employees** 



New formulations by Mapei Group every year

32



Research centres in 20 countries



Subsidiaries in 57 different countries

More than



6,000

Products for the building industry of the Mapei Group

More than

100,000



Tons of CO<sub>2</sub> offset

More than

66,000



Clients around the world

86

Plants in 5 continents, in 35 different countries

163,000

Professionals from the sector involved in Mapei training courses





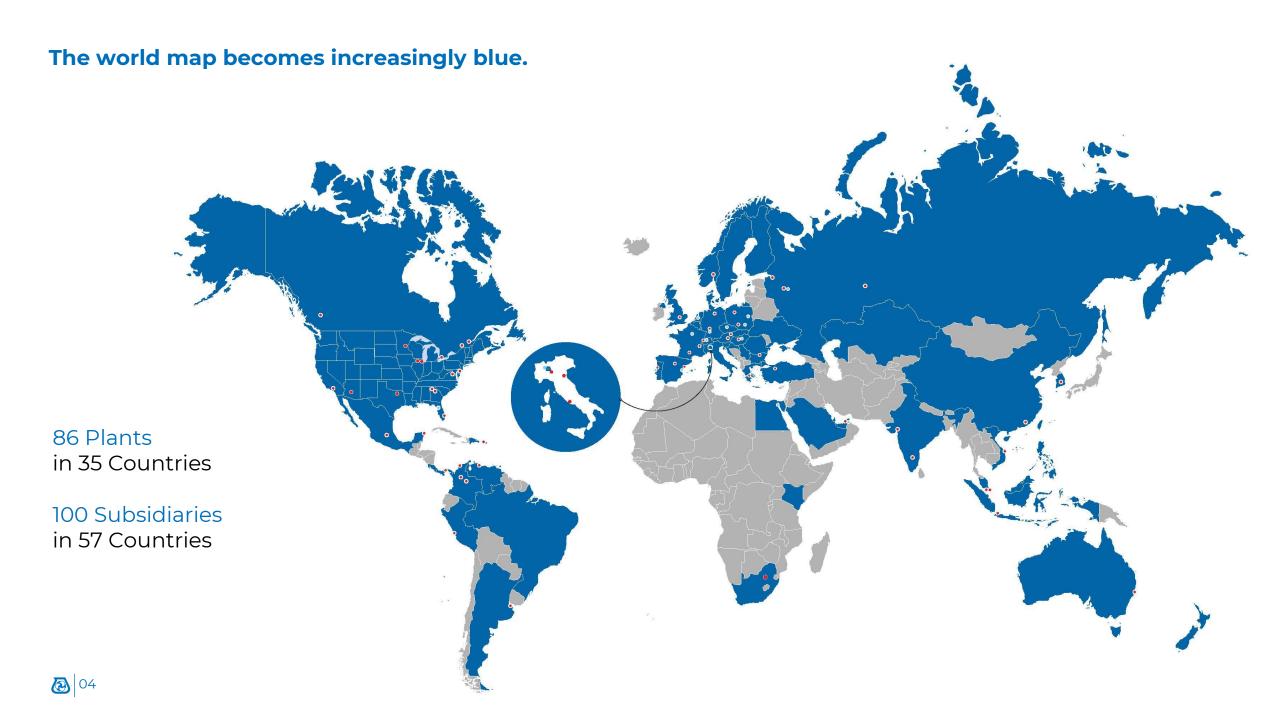
27,900

4,000,000



Tons of CO<sub>2</sub> saved during cement production thanks to Mapei grinding additives

Tons of products shipped every day



#### 24 Product lines



 $\square$  An incomparable range offered for every site around the world.



1. Products for ceramics and stone materials



2. Complementary products for installation



3. Products for cleaning, maintaining and protecting surfaces



4. Products for resilient, LVT, textile materials



5. Products for sports flooring



6. Products for wooden flooring



7. Products for cementitious and resin flooring



8. Products for acoustic insulation



9. Products for building



10. Admixtures for concrete



11. Architectural stone paving



12. Architectural exposed aggregate concrete surfaces



13. Products for CFS industrial flooring



14. Products for structural strengthening



15. Products for masonry restoration



16. Products for thermal insulation



717. Wall protective and decorative coatings



18. Products for waterproofing



19. Products for waterproofing



20. Products for underground constructions UTT



21. Elastic sealants and adhesives



22. Products for the marine industry



23. Cement additives C-ADD



24. Asphalt pavements

#### **CORPORATE ENVIRONMENTAL SUSTAINABILITY TEAM**

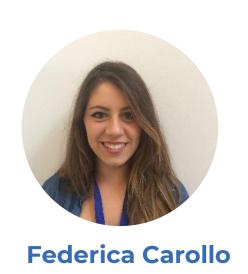
















# THE SUSTAINABILITY REPORT

**2022: GLOBAL** 



#### **SUSTAINBILITY REPORT**

#### Materiality analysis and SDGs





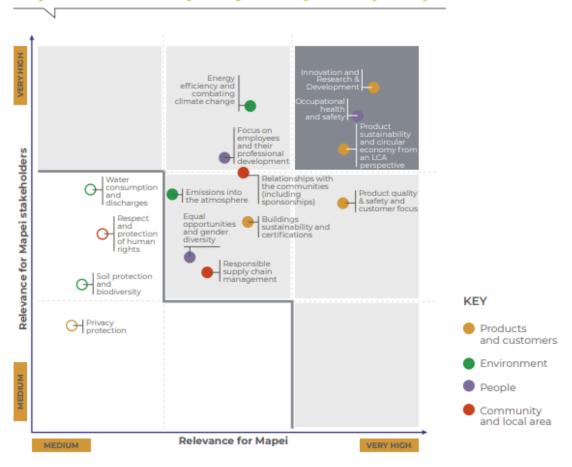








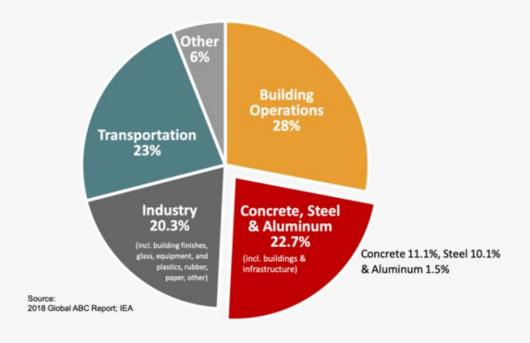
#### Mapei 2021 materiality analysis (Mapei Europe scope)





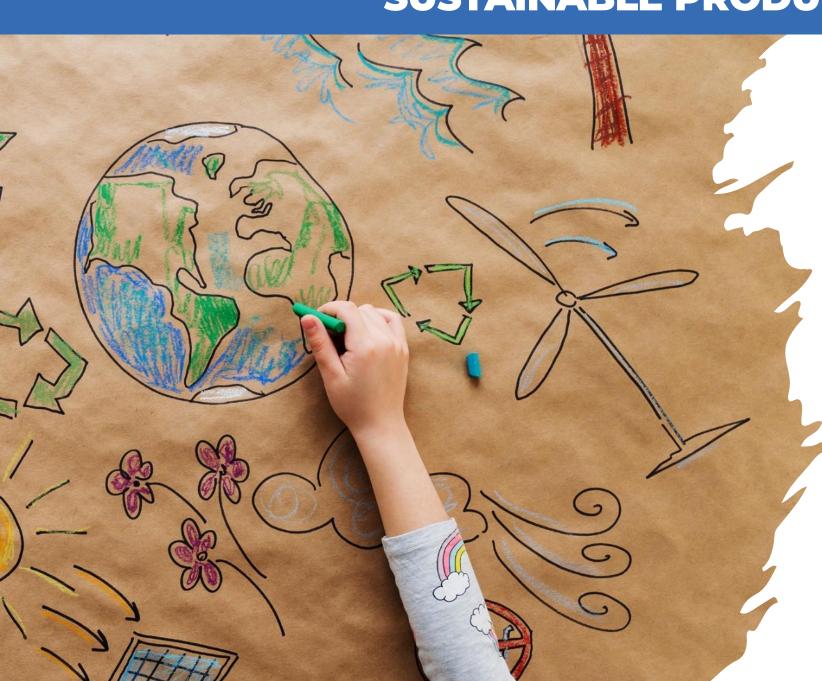


## GLOBAL CO<sub>2</sub> EMISSIONS BY SECTOR



40% of energy, 50% of raw materials 21% of water

#### **SUSTAINABLE PRODUCTS**

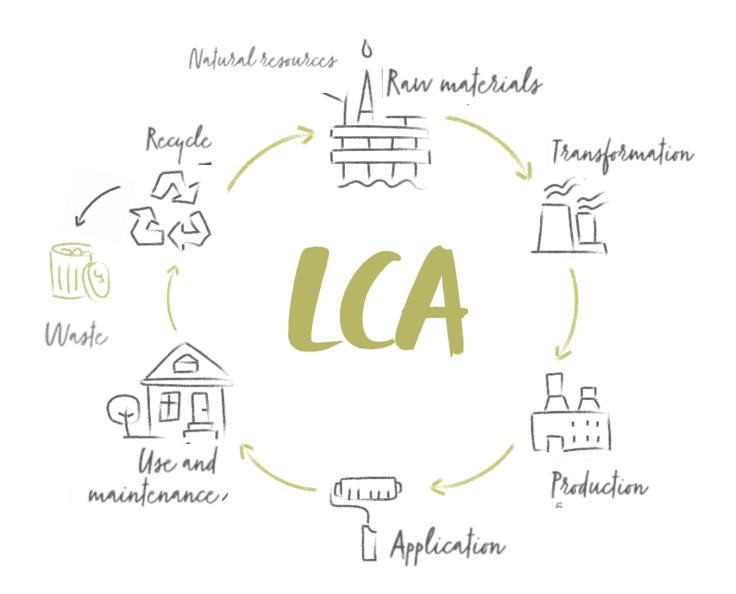


QUALITY = DURABILITY

ENVIRONMENTAL IMPACTS REDUCTION

CO<sub>2</sub> OFFSETTING

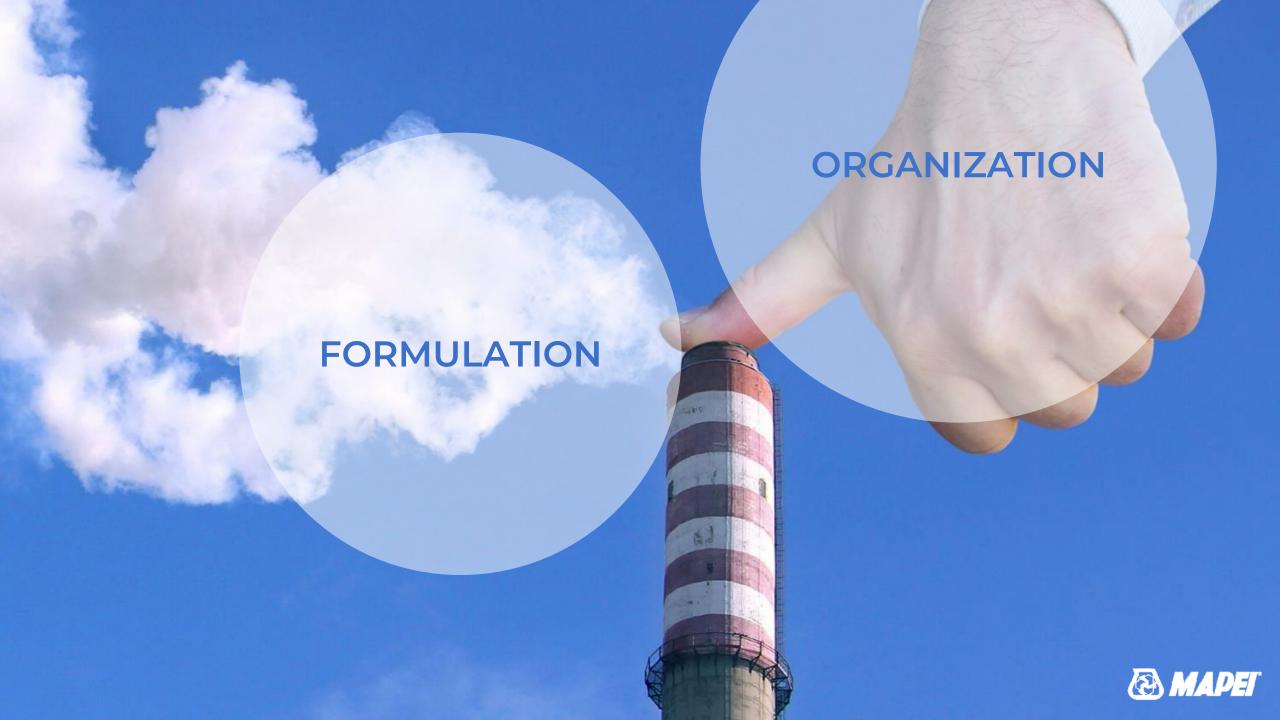
#### **LCA: LIFE CYCLE ASSESSMENT**











#### REDUCING CO<sub>2</sub> EMISSIONS - ORGANIZATION

**ENERGY** 

**WASTE** 

**CIRCULARITY** 





#### REDUCING CO<sub>2</sub> EMISSIONS - PRODUCT

**FORMULATION** 

**PRODUCTION** 

**SUPPLY CHAIN** 







#### **BUILDING MORTARS: GWP**



#### EPD PRODUCT-SPECIFIC



#### **ENVIRONMENTAL** PRODUCT DECLARATION

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

**Mapegrout Colabile Zero** 





#### **ENVIRONMENTAL** PRODUCT DECLARATION

In accordance with ISO 14025 for

#### **MAPE-ANTIQUE DEHUMIDIFYING LINE**

**Mape-Antique Rinzaffo Mape-Antique MC Mape-Antique MC Macchina Mape-Antique CC Mape-Antique NHL Eco Rinzaffo** Mape-Antique NHL Eco Risana

An EPD should provide current information and may be updated if conditions change. The stated



#### **ENVIRONMENTAL** PRODUCT DECLARATION

In accordance with ISO 14025 and EN 15804:2012+A2:2019/AC:2021 for

**ULTRACOLOR PLUS** dark base

Programme: The International EPD® System; www.environdec.com EPD International AB

Programme

EPD registration S-P-02133

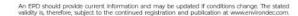
Publication Valid until: 2020-11-11 2025-11-10

Geographical scope:





operator



number:

Geographical

#### CO<sub>2</sub> COMPENSATION



Now you can also choose to live with zero impact\* on climate change. Choose sustainability for all your projects, with Mapei.

\*For Mapei, "zero impact on climate change" means that CO<sub>2</sub> emissions measured throughout the life cycle of products from the Zero line in 2023 using Life Cycle Assessment (LCA) methodology, verified and certified with EPDs, have been offset through the acquisition of certified carbon credits in support of renewable energy and forestry protection projects. A commitment to the planet, to people and to biodiversity. For more details on how emissions are calculated and on climate mitigation projects financed through certified carbon credits, click here.





#### **CARBON CREDIT: THE PROCESS**









**Kg of CO<sub>2</sub> per kg of finished product** 









**Kg of CO<sub>2</sub> per kg of finished product** 



#### **NOTICE**

Offsets are not a replacement for taking action to reduce our carbon footprint

On the contrary, they are the last option to offset emissions we cannot currently avoid

R&D IMPROVES FORMULAS FOR DURABLE AND QUALITY PRODUCTS
WITH LOW ENVIRONMENTAL IMPACT





# OFFSETTING OF RESIDUAL CO2 EMISSIONS HYDROPOWER (VIETNAM) AND REFORESTATION (INDONESIA) KERAFLEX MAXI S1 ZERO AND ULTRACOLOR PLUS WORLDWIDE



#### **ZERO LINE: CERAMICS AND STONE MATERIALS**





#### **ZERO LINE: MORTARS FOR RESTORATION**





#### DAKRTIH HYDROPOWER PROJECT

VIETNAM, RENEWABLE ENERGY PROJECT

The project involves the construction and operation of a hydroelectric power plant in the DakrLap district of DakNong province in the Central Highlands of Vietnam. The dam will produce over 630,000 MWh per year with aninstalled capacity of 144 MW.

Using water from the Dong Nai River and other rivers and streams in the region, DakRTih will provide electricity and water for thousands of hectares of local crops. In addition to the environmental benefits, the project's activities have created new job opportunities for the local population.

Thanks to the technology, the project contributes to national energy and ecological security and reduces air pollution in the area, making a concrete contribution to climate change mitigation.





Emissions reduction: +550,000 tCO<sub>2</sub>/year

Annual production: +636,900 MWh

New job opportunities: +1,800

Standard: Clean Development Mechanism (CDM)

#### RIMBA RAYA BIODIVERSITY

RESERVE PROJECT INDONESIA, REDD+ PROJECT

Before the project was established, the biodiversity-rich forests of Rimba Raya were planned by the local government to be converted into four palm oil estates. Besides preserving the diversity of the ecosystem and the habitat of endangered species such as the Bornean orangutan, the project reduces emissions by avoiding the planned deforestation of more than 47,000 hectares of forest for palm oil production.

The project not only sequesters carbon and protects habitat for local wildlife, but also promotes local sustainable development, particularly in terms of environmental education and economic capacity building.



Emissions reduction: +3.500.000 tCO<sub>2</sub> /year Biodiversity protection: +90.000 ha of forest

New job opportunities: +70

Standard: Verified Carbon Standard + CCBS



MEASURING ENVIRONMENTAL IMPACTS BY LCA

THIRD-PARTY CERTIFICATION

• ROLE R&D in REDUCING CO<sub>2</sub> EMISSIONS

CO<sub>2</sub> OFFSET







Any questions?

m.decio@mapei.it sustainability@mapei.it n.salman@mapei.ae s.shepherd@mapei.ae



