



 CONFINDUSTRIA FIRENZE  
**CONNEXT**  
FIRENZE

**23 OTTOBRE 2019**  
FORTEZZA DA BASSO, FIRENZE



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# Le EPD: documenti di comunicazione e garanzia di trasparenza

Mikaela Decio



# COSTRUIAMO IL FUTURO DAL 1937

In tutto il **mondo**, tutti i **giorni**, i cantieri possono contare su **Mapei**



EDIFICIO DI NUOVA  
COSTRUZIONE



EDIFICIO DI VECCHIA  
COSTRUZIONE



EDIFICIO COMMERCIALE



EDIFICIO INDUSTRIALE



SPAZI PUBBLICI



SPORT E ARREDO URBANO

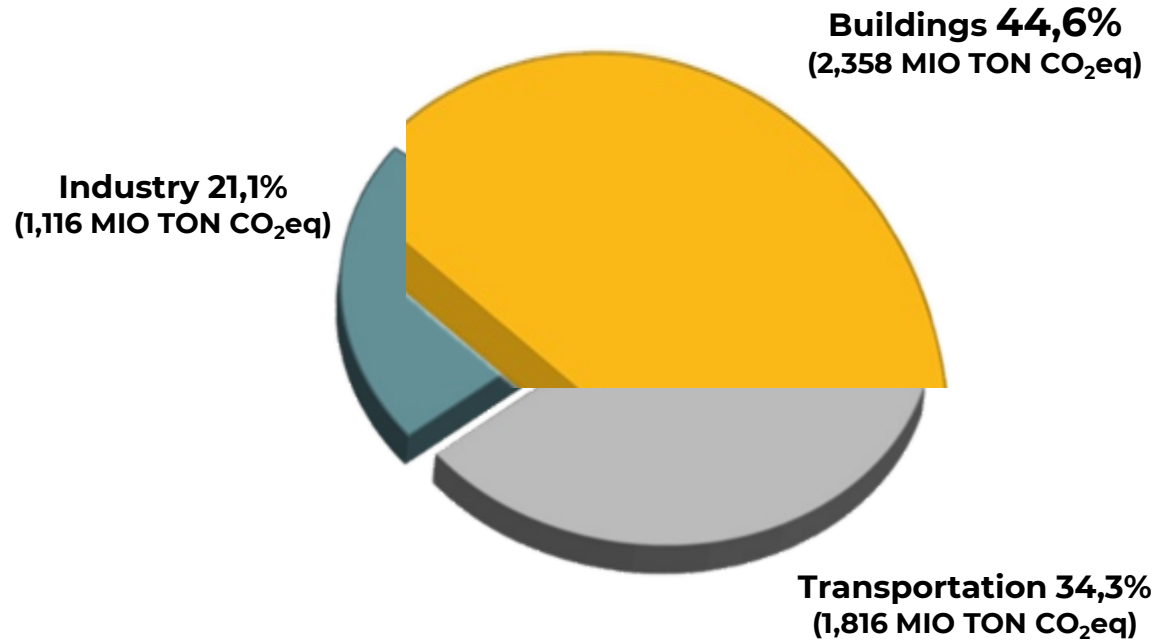


INFRASTRUTTURE



NAVALE

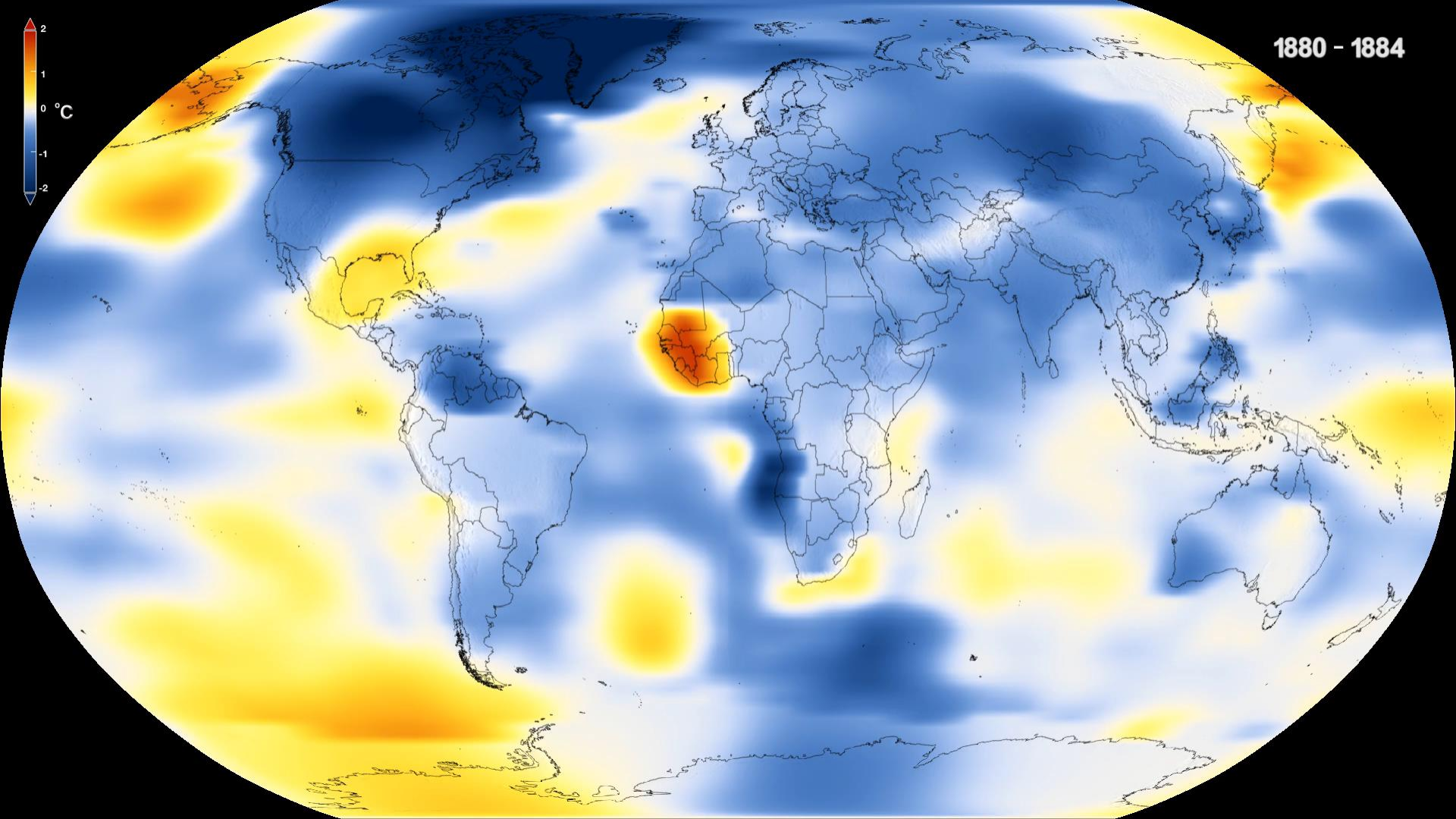
# PERCHÉ L'EDILIZIA?

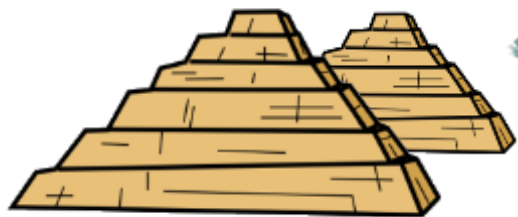


## U.S. CO<sub>2</sub> Emissions by Sector

Source: ©2013 2030, Inc. / Architecture 2030. All Rights Reserved.  
Data Source: U.S. Energy Information Administration (2012).

1880 - 1884





# CHI IMPATTA DI PIÙ SULL'AMBIENTE?







**No!**

# CHI IMPATTA DI PIÙ SULL'AMBIENTE?



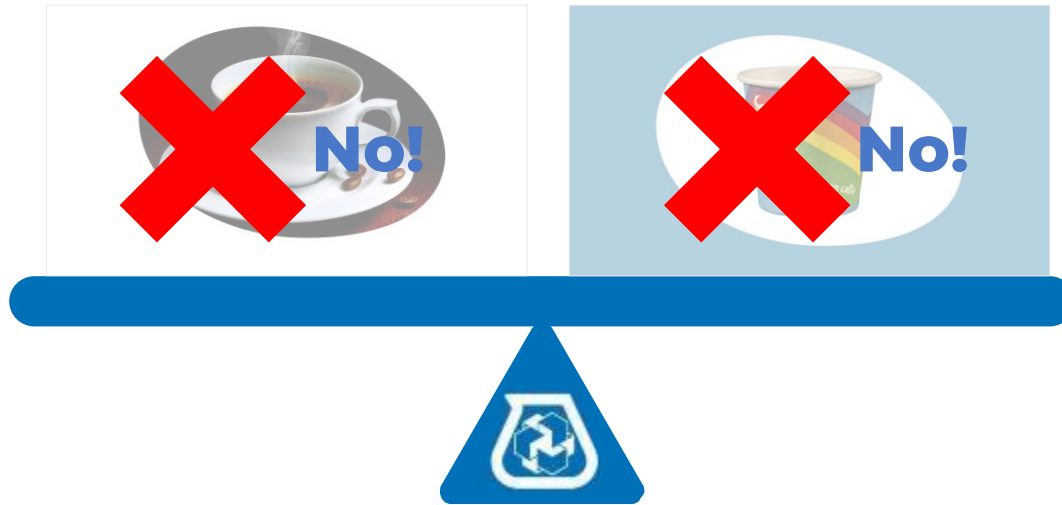




**No!**

etto di un buon caffè

# CHI IMPATTA DI PIÙ SULL'AMBIENTE?







**No!**

etto di un buon caffè

# CHI IMPATTA DI PIÙ SULL'AMBIENTE?

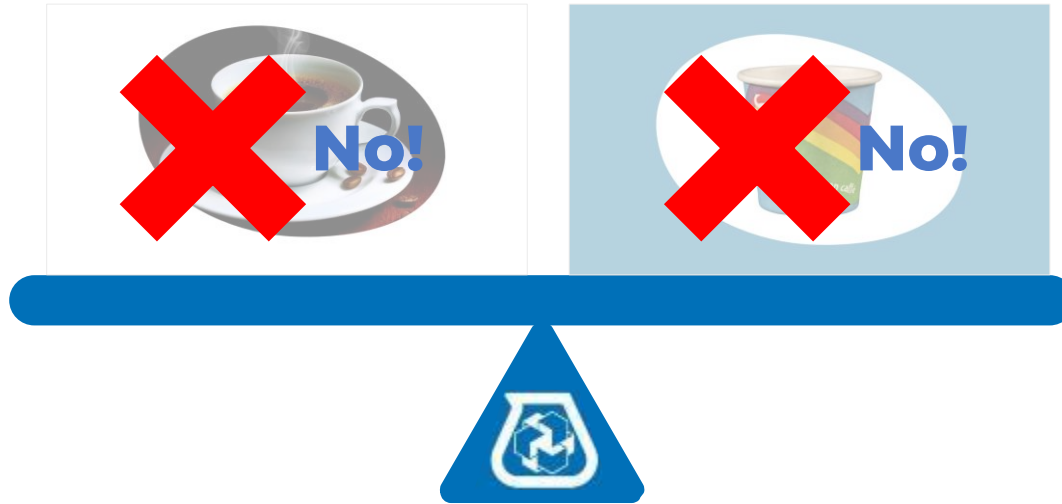






**No!**

# CHI IMPATTA DI PIÙ SULL'AMBIENTE?



**LA RISPOSTA È...**



**...DIPENDE!**

# LIFE CYCLE ASSESSMENT

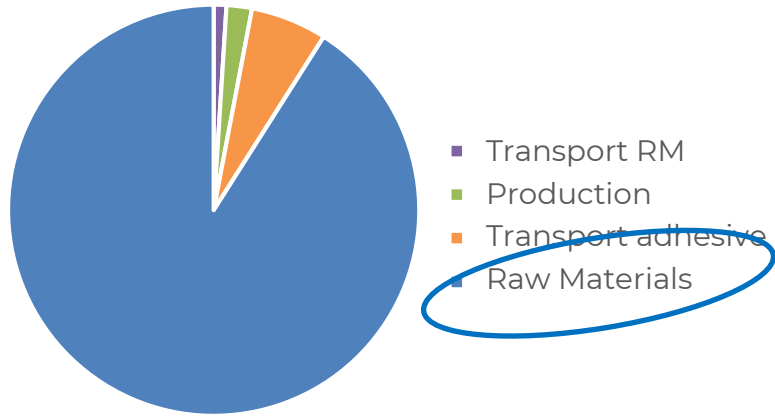


# ENVIRONMENTAL IMPACTS

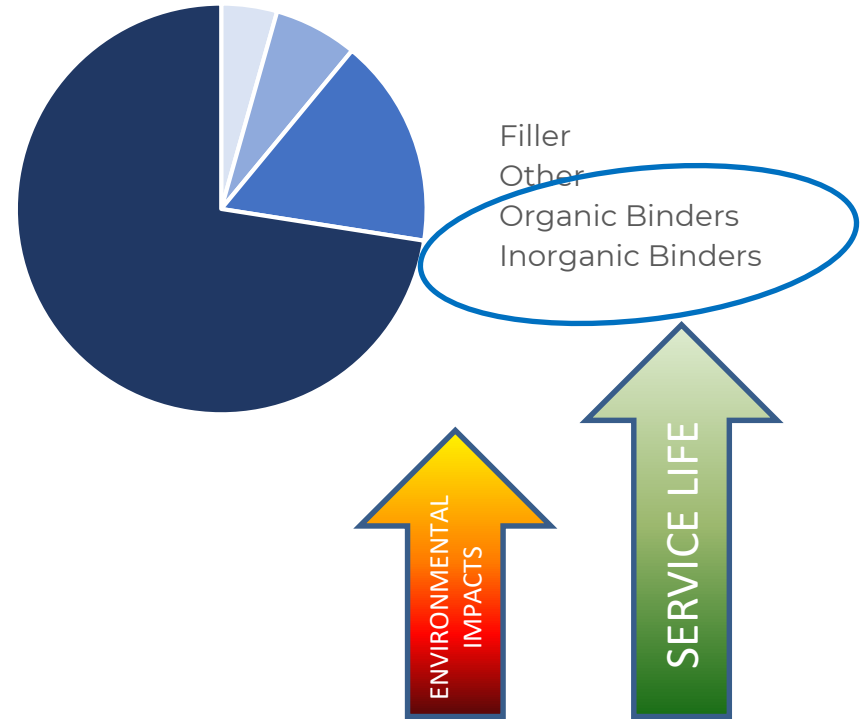


# PRODOTTI PER EDILIZIA: GWP

## LIFE CYCLE



## RAW MATERIALS (RM)

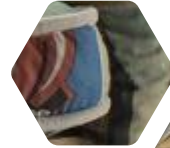


GWP: Global Warming Potential (kg CO<sub>2</sub>eq.)





**NO WASTE  
IN NATURE!**

# MATERIALE RICICLATO





# MATERIALE RICICLATO

	<b>GWP kg CO<sub>2</sub>/bag</b>		
ADESIVO X	10 kg CO <sub>2</sub> /bag	4 BISTECCHHE	90 km
ADESIVO CON RICICLATO	7,5 kg CO <sub>2</sub> /bag	3 BISTECCHHE	70 km

\*GWP: Global Warming Potential

# MATERIALE RICICLATO

	<b>GWP kg CO<sub>2</sub>/bag</b>		
MALTA X	6 kg CO <sub>2</sub> /bag	6 BIRRE E 1/2	55 km
MALTA CON RICICLATO	1,9 kg CO <sub>2</sub> /bag	2 BIRRE	20 km

\*GWP: Global Warming Potential

# PRODOTTI SOSTENIBILI



# PRODOTTI SOSTENIBILI





# ENVIRONMENTAL PRODUCT DECLARATION

In accordance with ISO 14025 for  
**Granirapid** (grey & white)  
**Elastorapid** (grey & white)  
**Kerabond** (grey & white)  
**Isolastic**



### GENERAL DESCRIPTION / GOAL & SCOPE

This EPD covers the stated product attributes and combinations for internal use, floor, wall and ceiling systems, as well as external use for facade systems, concrete and masonry protection systems and for the protection of concrete and masonry structures. It is intended for application in the United States, with a total of 10,000 tonnes covered around the world in 10 different countries and 10 contractors. Major use is for concrete formwork. Most products are used in concrete and masonry applications.

EPD of Granirapid, Elastorapid, Kerabond and Isolastic is based on the use of the following materials and manufacturing processes: concrete, masonry, brick, stone, metal, wood, glass, etc. The EPD is intended for use in the United States, with a total of 10,000 tonnes covered around the world in 10 different countries and 10 contractors. Major use is for concrete formwork. Most products are used in concrete and masonry applications.



Organization: The International EPD System <a href="http://www.epdcanada.com">www.epdcanada.com</a>	Registration organization: EPD International of AB	EPD registration reference: EP-0001	Product name: Granirapid	Product code: 329-0316	Product date: 2024-04-27	Product category: Internal wall	Product version: 2024-07-18
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# Environmental Product Declaration

**ENVIRONMENTAL PRODUCT DECLARATION**

In accordance with ISO 14025 for  
**Granirapid** (grey & white)  
**Elastorapid** (grey & white)  
**Kerabond** (grey & white)  
**Isolastic**

Designation: The International EPD System <a href="http://www.epd.ch/en">www.epd.ch/en</a>	Designation: Mapei EPD International of AB E-P-0001	EPD registration number: E-P-0001	EPD registration date: 2024-04-27	EPD code: International	EPD version: 2008-07-18
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**MAPEI**  
SISTEMI PER IL CEMENTO

**WYDEL**

44 EPD per  
135  
prodotti e  
sistemi

**Polyglass**  
4 EPD  
12 prodotti

**Mapei AS**  
11 EPD  
26 prodotti

**Mapei SpA**  
26 EPD  
86 prodotti

**Mapei Corp**  
3 EPD  
11 prodotti

TRASPARENTE, MISURATA, **CERTIFICATA**



**NO GREENWASHING**



**L**eadership  
in **E**nergy  
and **E**nvironmental  
**D**esign

# EPD: DOVE SONO RICHIESTE

RECYCLED  
MATERIAL



EPD



LOW VOC  
EMISSIONS



## LEED

**MAPEI** 

Subject: **KERAFLEX MAXI S1: CONTRIBUTION ON LEED V3**

DATE:	20/05/2010
ISSUED TO:	MAPEI R&D/CRM
<b>PROJECT INFORMATION</b>	
PROJECT NAME:	TOREPOLI
ADDRESS:	TALLORRETTA, 20091 MILANO
PRODUCTION PLANT:	DORLAND CERAMICA (2009)

 **Materiali ed Emissioni**  
Building Product Stockpiles and Optimization - Environmental Product Declaration

Product	EPD Type	Production	Package quantity	Area/m <sup>2</sup>	Weighted total value (kg)
MAPEI KERAFLEX	MAPEI KERAFLEX	CONCRETO E MURALE FINISSE	100	100	100

 **Indoor Environmental Quality**  
Low-Volatility Materials

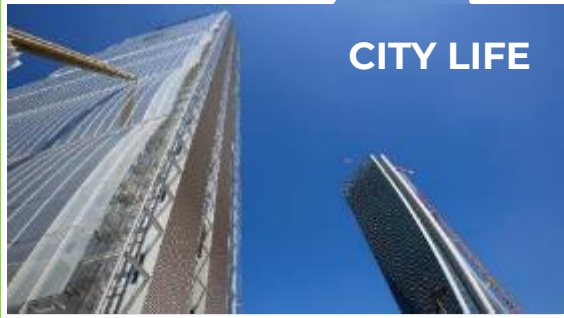
Product	VOC content				VOC emissions		
	regulation	measured type	allowable (µg/l)	actual (µg/l)	regulation	measured	actual (µg/l/h)
MAPEI KERAFLEX	EN 12002	MAPEI KERAFLEX	100	100	MAPEI KERAFLEX	MAPEI KERAFLEX	100

For further requests please write to [gep@mapeimaterials.com](mailto:gep@mapeimaterials.com)

**MAPEI** s.p.a.  
Via Lancia, 1 - 20133 Milano  
Tel. +39 02 76001 - Fax +39 02 76002



# LEED @ MILANO



CITY LIFE



TORRE UNICREDIT

**CAM**



# CAM: CRITERI AMBIENTALI MINIMI



RIDURRE GLI IMPATTI AMBIENTALI DEGLI INTERVENTI DI  
NUOVA COSTRUZIONE, RISTRUTTURAZIONE E MANUTENZIONE  
DEGLI EDIFICI, CONSIDERATI IN UN'OTTICA DI **CICLO DI VITA**

# MATERIA RICICLATA O RECUPERATA

RIDURRE L'IMPATTO AMBIENTALE SULLE RISORSE NATURALI,

AUMENTARE L'USO DI **MATERIALI RICICLATI**,

AUMENTARE IL **RECUPERO DEI RIFIUTI**

- DICHIARAZIONE AMBIENTALE DI TIPO III (UNI EN 15804 e ISO 14025);
- CERTIFICAZIONE DI PRODOTTO CHE ATTESTI IL CONTENUTO DI RICICLATO (REMADE IN ITALY® O EQUIVALENTI);
- AUTODICHIARAZIONE AMBIENTALE VERIFICATA DI TIPO II (ISO 14021).

# EPD:

## ORA:

È importante  
avere una EPD,  
non i valori.

## Europe project:

Databases  
comuni, regole  
comuni: valori  
comparabili

**PEF:** Product  
Environmental  
Footprint

[sustainability@mapei.it](mailto:sustainability@mapei.it)

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LET'S BUILD  
A SUSTAINABLE  
FUTURE  
TOGETHER



[www.mapei.com](http://www.mapei.com)