



**BUILDING PROGRESS
FOR PEOPLE AND
THE PLANET.**

Holcim (Italia) S.p.A.

UNESCO - Edition

~60K 
Employees


2030 & 2050
1.5 degree aligned
net-zero targets, validated
by SBTi 


300 


Patents in green
construction

100+  Start ups
in our open innovation
ecosystem

29 ^B
_{CHF} 
Net Sales

21% 
reduction in our CO₂ per net
sales by 21%

40+ 
University
collaborations

#1 
R&D organization
in our industry

5 
worldwide R&D
hubs

BECOMING THE GLOBAL LEADER IN INNOVATIVE AND SUSTAINABLE BUILDING SOLUTIONS

BUILDING MATERIALS



AGGREGATES

CEMENT

READY-MIX CONCRETE

CONSTRUCTION MATERIALS

SOLUTIONS & PRODUCTS



ROOFING

INSULATION

TILE ADHESIVES



FACADE

UNITED BY
OUR HOLCIM IDENTITY

DRIVEN BY OUR PURPOSE



**BUILDING PROGRESS FOR
PEOPLE AND THE PLANET**

WE'RE ADVANCING OUR VISION



**BE THE GLOBAL LEADER
IN INNOVATIVE AND
SUSTAINABLE
BUILDING SOLUTIONS**

DELIVERING OUR STRATEGY

**ACCELERATING
GREEN GROWTH**

Build Progress With Us | Holcim Italia | 2024

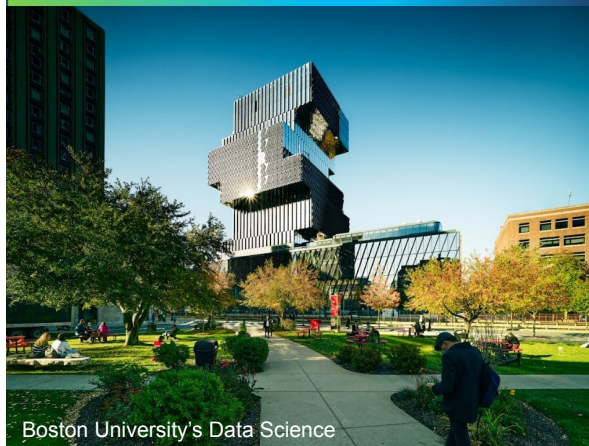


OUR PURPOSE

BUILDING PROGRESS FOR PEOPLE & THE PLANET

BUILDING GREENER CITIES

We're making cities greener with our sustainable building solutions.



Boston University's Data Science

SMARTER INFRASTRUCTURE

Holcim solutions are essential to enabling the smarter infrastructure that our growing world needs.



Maya Train, Mexico

IMPROVING LIVING STANDARDS FOR ALL

With our world building the equivalent of New York City every month, driven by rising population and urbanization, we need to build better with less.



Mvule Gardens, Kenya

SIX MEGATRENDS DRIVING CONSTRUCTION

OUR MARKETS HAVE NEVER BEEN AS ATTRACTIVE

POPULATION GROWTH

From ~8 billion today to ~10 billion by 2050



URBANIZATION AND MEGACITIES

Approx. 2.5 billion more people are expected to live in cities by 2050



SUSTAINABLE CONSTRUCTION SOLUTIONS

Higher demand due to resource scarcity & climate change



BETTER LIVING STANDARDS

and more efficient infrastructure demand growing



INNOVATION DRIVING BUILDING TECHNOLOGIES AND BUILDING EFFICIENCY

accelerated by light and modular construction solutions



REPAIR & REFURBISHMENT

driving urban demand



03. DECARBONIZING BUILDING



DECARBONIZING BUILDING



NET ZERO FUTURE HOLCIM APPROACH



GREEN OPERATIONS
Decarbonizing Holcim



BUILDING BETTER WITH LESS
Decarbonizing construction



CIRCULAR CONSTRUCTION
Building new from old



MAKING BUILDINGS SUSTAINABLE
Decarbonizing cities

Rigorous and science-driven



Transparent

Industry's first Climate Report in 2022; second report in 2023



Globally recognized



Giving shareholders a say on our climate strategy

96%
approved in 2023

DECARBONIZING BUILDING



YOUR VISIT



ROUTE MAP MERONE



GREEN OPERATIONS

Decarbonizing Holcim



GREENER ENERGY

Alternative Fuels

from biomass to municipal waste

Renewable energy

from solar, wind and hydro to waste heat recovery



GREENER FORMULATIONS

Broad range of alternative materials

from construction and demolition waste to calcined clay



GREENER MOBILITY

Sustainable and efficient: From autonomous quarry e-vehicles to long-haul biofuel and e-trucks, to railways and barges

Digitalization: Proprietary digital technologies to optimize load and route efficiency, safety and carbon footprint



NEXT GEN TECHNOLOGIES

CCUS and mineralization: Over 50 projects recycling CO₂ for applications like transport and agriculture

Plants of Tomorrow: automated and data-driven solutions, from robotics to predictive maintenance



GREENER FORMULATIONS FROM CONSTRUCTION & DEMOLITION WASTE TO CALCINED CLAY



Over 20 alternative materials in our green formulation portfolio

- Waste Limestone
- Steel Slag & Air Cooled Slag
- Road Cleaning Sludge
- Soil Excavation Fines
- Aluminum/Iron Scrap
- Paper Mill Ash
- Bottom Ash
- Reclaimed Fly Ash
- Blast Furnace Slag
- Fresh Fly Ash
- Pozzolana
- ...and more

Expanding range of innovative
low-emission alternative materials



CALCINED CLAY
Up to 50% LESS CO₂



**CONSTRUCTION &
DEMOLITION WASTE**
10M TONS by 2025

NEXT GENERATION TECHNOLOGIES INDUSTRY 4.0 LARGEST DEPLOYMENT IN THE SECTOR



Our Plants of Tomorrow program is deploying automated and data-driven solutions to make our operations more sustainable, from robotics to predictive maintenance.

THE PLANTS OF TOMORROW



Scan QR code to view
in Augmented Reality

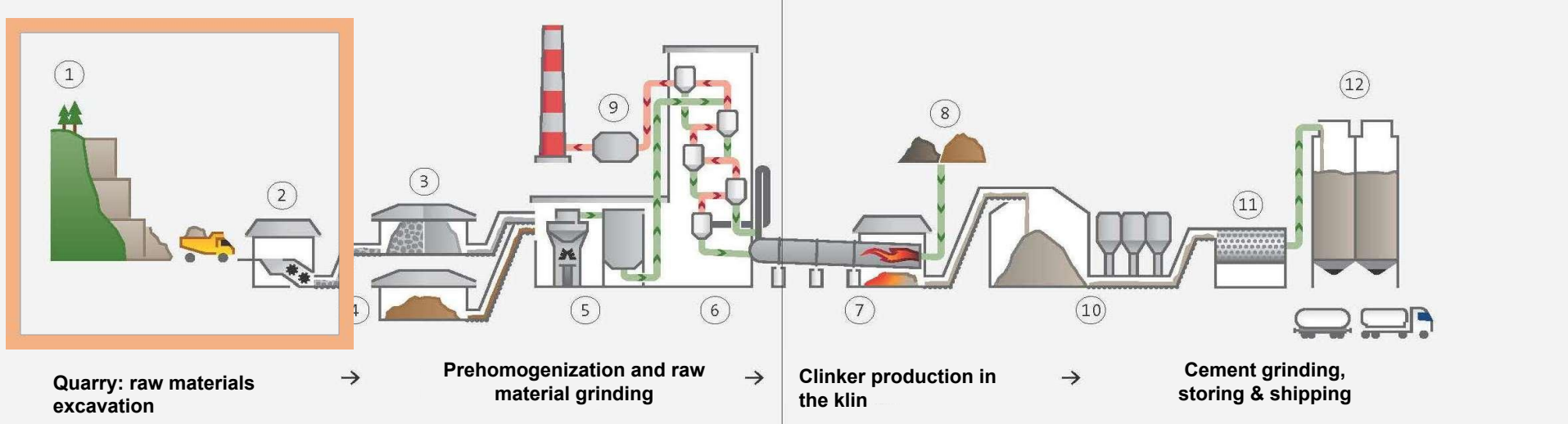


AR



CEMENT PRODUCTION PROCESS

What we do: our production process



WHAT CEMENT IS MADE OF?



EXCAVATION FIRST STEP



Workers who are employed in the excavation management process have mainly **skills and knowledge in geology**.
Workers who work in the quarries are mainly drivers who have earth moving machine licence.

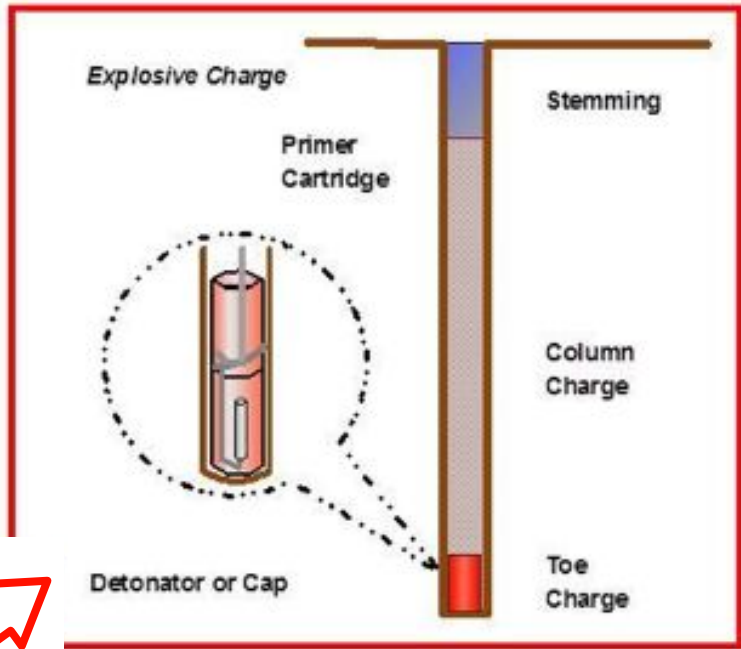


THE PROCESS
BEGIN WITH
EXCAVATION



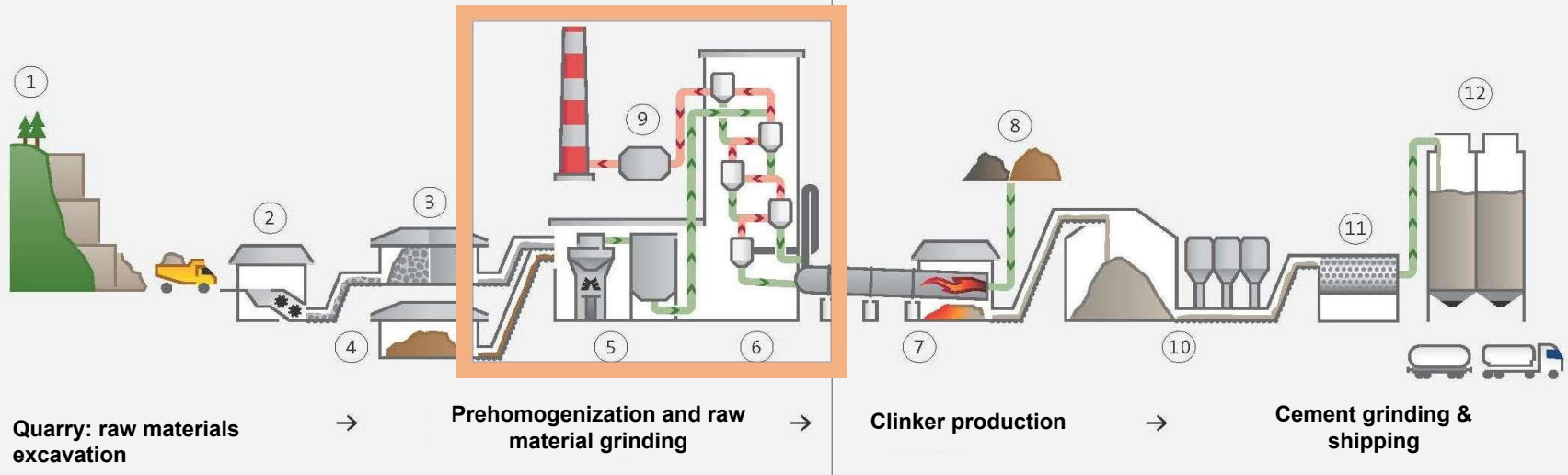
EXCAVATION – DRILLING & BLASTING

Drilling

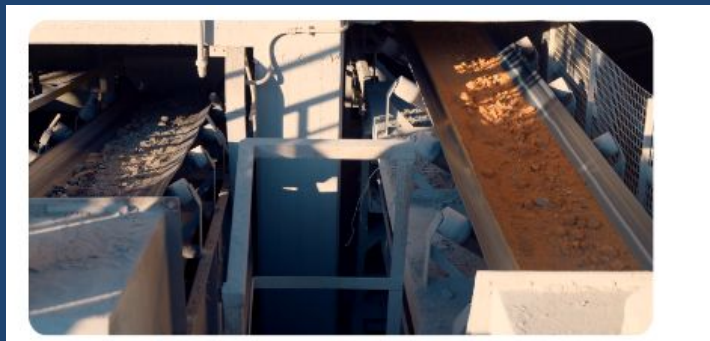


CEMENT PRODUCTION PROCESS

What we do: our production process



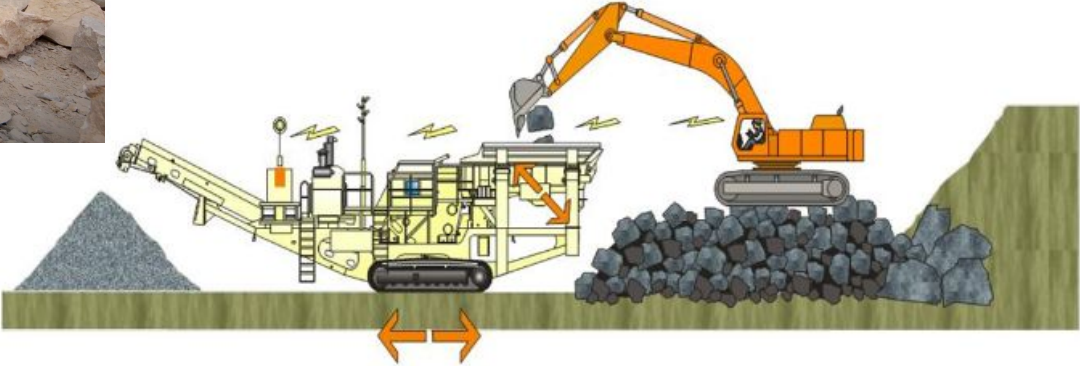
RAW MATERIAL GRINDING SECOND STEP



People employed to work in the production process have different skills and backgrounds. Some must work with electrical parts, some others with mechanical devices. Being aware of the chemical properties of the material is necessary to manage the production process in terms of quality a quantity of different materials used.

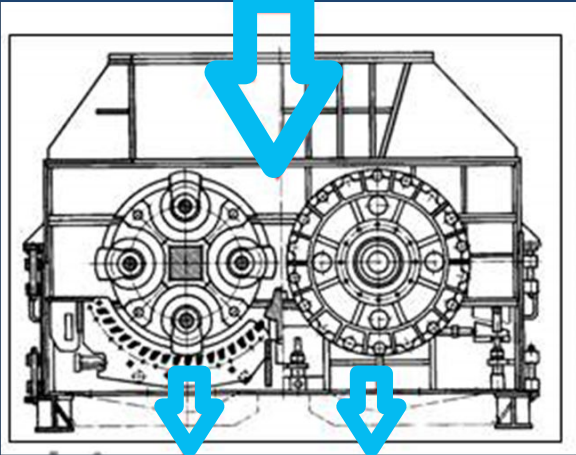
RAW MATERIALS PREPARATION – GRINDING

After the excavation, raw materials are grinded to reduce it by ~1 m at ~30-100 mm

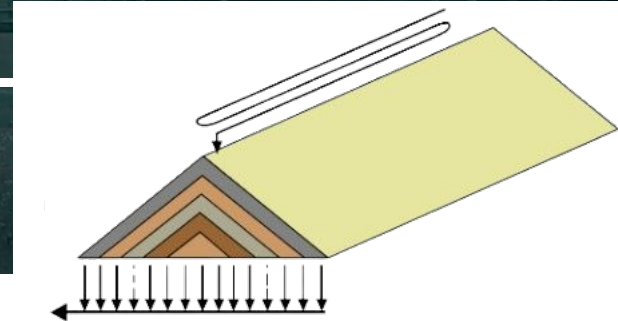


RAW MATERIALS PREPARATION – GRINDING

Hammer
Crusher

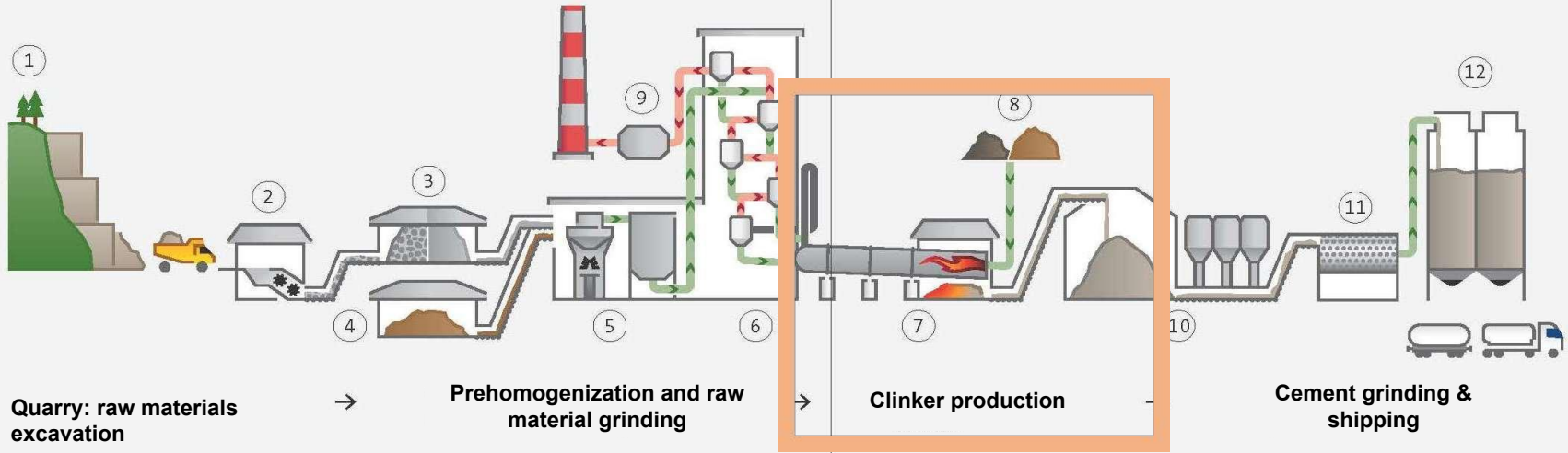


RAW MATERIALS PREPARATION – HOMOGENIZATION



CEMENT PRODUCTION PROCESS

What we do: our production process



Clinker production in the Kiln

THIRD STEP

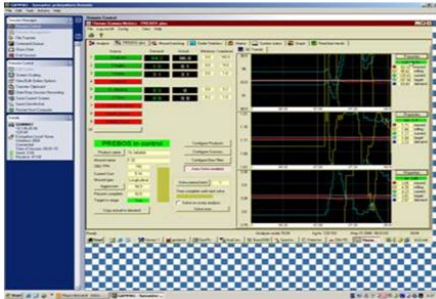


People employed to work in the production process have different skills and backgrounds. Some must work with electrical parts, some others with mechanical devices: maintenance of the machines is essential. To check the quality of the material, the correct quantity of the different parts, emissions, types of fuels, we need chemical and environmental specialists who deal also with laws and prescriptions.

MAIN CONTROL ROOM AND CONSTANT QUALITY CHECK IN THE LAB

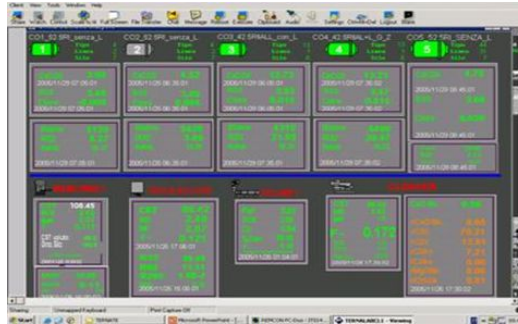
GAMMA METRICS

On line analysis of
the raw material

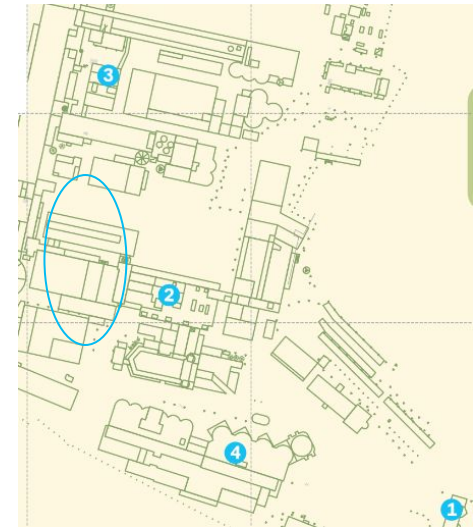


POLAB AMT

Sampling and analysis



In ternate plant



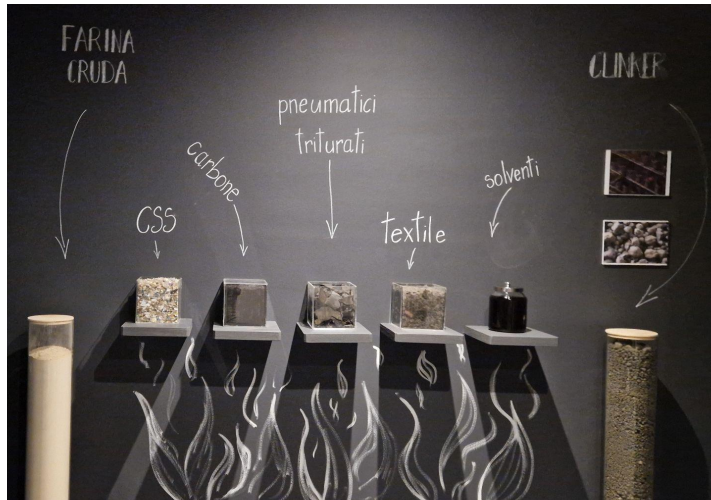
Cement Crash test



EMISSIONS

SME = Constant Monitoring System of Emissions

Emissions are constantly monitored through 2 different systems. (not in Merone because here the kiln are off and not working)
replacement of traditional fuel like coke with Alternative fuel let us save about **100.000 ton of CO₂** per year.

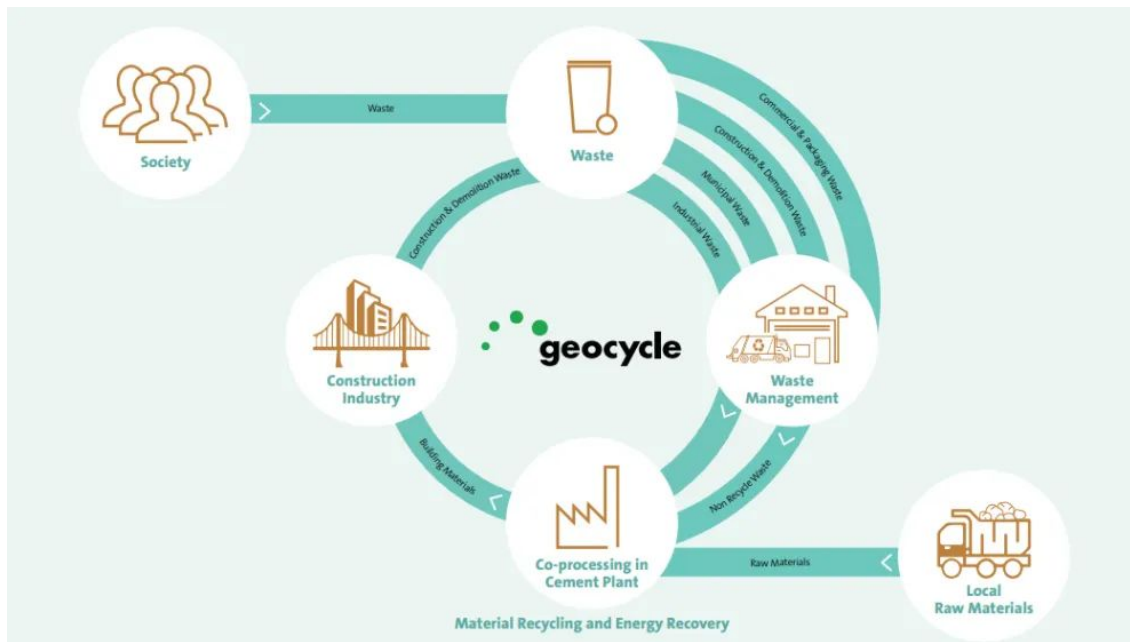


GEOCYCLE

TRANSFORM NON-RECYCLABLE MATERIALS INTO RESOURCES



Geocycle Italia rethinks waste challenges to provide innovative ways to manage it

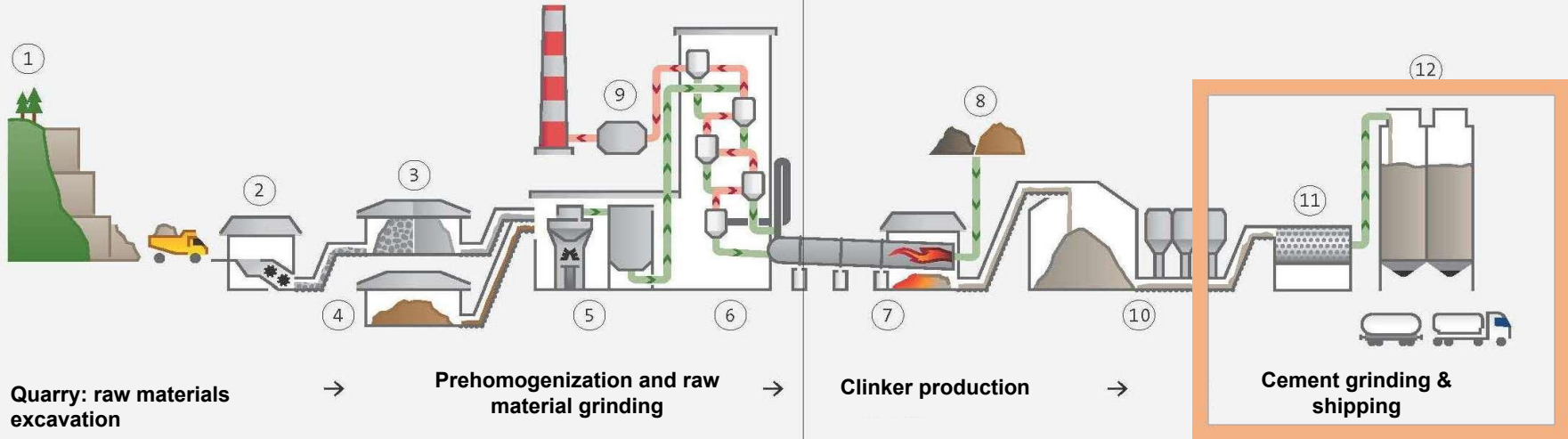


HOLCIM COMMITTED TO CIRCULAR ECONOMY



CEMENT PRODUCTION PROCESS

What we do: our production process



GRINDING AND SHIPPING OF THE PRODUCT BULKS OR BAGS

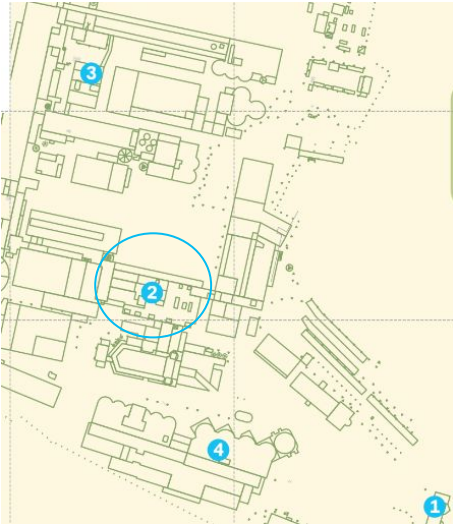
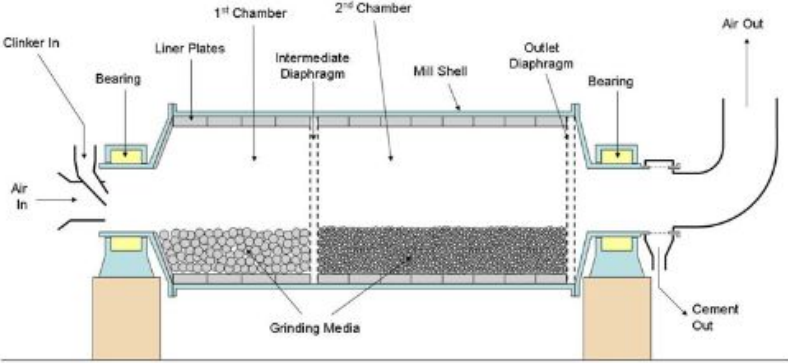


People employed in warehouse usually should have the **forklift licence** and they are trained about the machines like the pallet one.



ECOPlanet Prime is a sustainable cement with low emission and it's available in an innovative degradable bag which disappears in the mixer.

THE CEMENT GRINDING PROCESS



OUR SUSTAINABLE PRODUCT

LOW EMISSION OF CO₂

**BUILD
BETTER
WITH
LESS**



ECO Pact



ECO Planet



100% Performance - With at least 30% less CO₂

WHAT IS THE OUTCOME? SUSTAINABLE BUILDINGS TO DECARBONIZE CITIES

Bosco Verticale



Torre Hadid



Sede Gruppo CAP



Porta Nuova Milano



CityLife Milano



Fondazione Feltrinelli



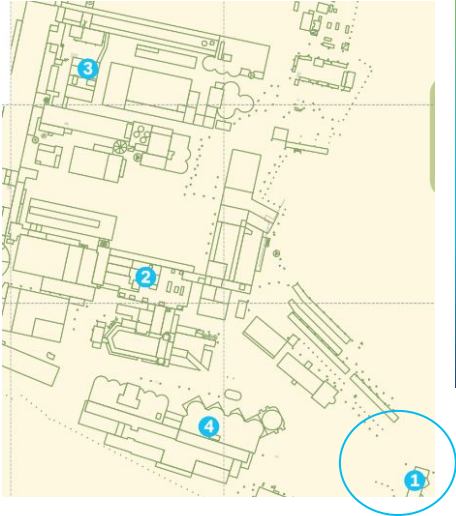
CAP,
Milan



M4,
Milan



Our history and our future: THE CEMENT MUSEUM



05. LIFE AT HOLCIM



LIFE AT HOLCIM

OUR VALUES

When you choose to build progress with us, you can expect to be part of a company that cares about:

INNOVATION

We are passionate about finding better ways to build. It's why we embrace smart technology and empower our people to go the extra mile, so together we can deliver the next generation of building solutions.

SUSTAINABILITY

We need to create a net-zero future. That's why we put climate action at the heart of our strategy, so that together, we can decarbonize buildings across their full lifecycle.

DIVERSITY

We are 60,000 people with diverse backgrounds, cultures, generations, expertise, and abilities. It's why together we foster an inclusive workplace that celebrates our differences and creates equitable opportunities for all.

GROWTH

We want our people to own and shape their own career. It's why we invest in world-class learning and development opportunities, so together all our people can grow and thrive.

COLLABORATION

We believe in the power of partnerships to create value for all. It's why together we foster a culture of collaboration and teamwork that supports inspires our people every step of the way.

PERFORMANCE

We are dedicated to making things happen and bringing our vision to life with excellence and accountability. It's why we want to inspire and support our people to perform at their best everyday.

ROLE AT HOLCIM ARE UNIQUE AS YOU ARE

EARLY CAREERS



Internships and Apprenticeships



Graduate Schemes

EXPERIENCED PROFESSIONALS



Operations



Sales and Marketing



Innovation, Sustainability, and Research



Support Functions

