

## **DECARBONIZING BUILDING**

#### **STARS SWITZERLAND SYMPOSIUM 2023**



ANTONIO CARRILLO, VP SUSTAINABILITY

#### SIX MEGATRENDS DRIVING CONSTRUCTION

#### 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





# DECARBONIZING BUILDING

BECOMING THE GLOBAL LEADER IN INNOVATIVE AND SUSTAINABLE BUILDING SOLUTIONS



## LEADING THE WAY TO SUSTAINABLE BUILDING



## **BUILDINGS ACCOUNT FOR** 38% OF GLOBAL EMISSIONS

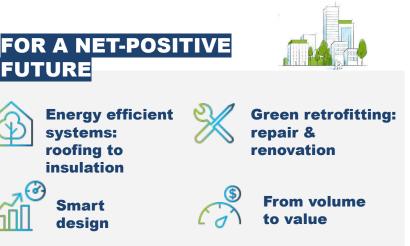
## **10% EMBODIED CARBON**

from materials and the construction phase



### **28% OPERATIONAL CARBON**

from heating, cooling and powering





## DECARBONIZING BUILDING



Decarbonizing cities

### NET ZERO FUTURE HOLCIM APPROACH

Rigorous and science-driven



Transparent

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



Globally recognized 

 FT
 FINANCIAL
 CLIMATE

 LEADERS
 LEADERS

 statista 5
 2022

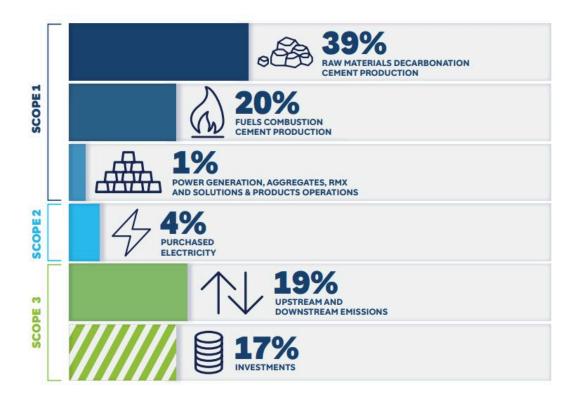
Giving shareholders a say on our climate strategy



**GREEN OPERATIONS BUILDING BETTER WITH LESS** Decarbonizing Holcim Decarbonizing construction **CIRCULAR CONSTRUCTION** MAKING BUILDINGS SUSTAINABLE

Building new from old

#### **DRIVING TRANSPARENCY** LEADING IN CLIMATE-RELATED DISCLOSURE REQUIREMENTS





### **SCIENCE-DRIVEN ROADMAP FOR NET ZERO OPERATIONS**

UPGRADED 2030 TARGETS IN LINE WITH 1.5°C FRAMEWORK VALIDATED BY SBTI



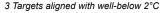


#### SCIENCE-BASED TARGETS ACROSS THE THREE SCOPES UPGRADED TARGETS IN LINE WITH 1.5°C FRAMEWORK VALIDATED BY SBTI



1 The target boundary includes land related emissions and removals from bioenergy feedstocks.

2 This net-zero validation was evaluated within the parameters of the Business Ambition for 1.5°C campaign, and covers categories 1, 3, 4, 6, 7 and 9 of Holcim's Scope 3 emissions.





# PIONEERING NEW TECHNOLOGIES FROM CCUS TO CALCINED CLAY

### **DECARBONIZING HOLCIM**





#### **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 CO<sub>2</sub> for applications like transport and agriculture

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



# ACCELERATING CLIMATE ACTION WITH CCUS

## 50 CCUS PROJECTS WORLDWIDE

FIRST IN THE INDUSTRY WITH 6 GRANTS FROM THE EU INNOVATION FUND

### GERMANY



CROATIA



POLAND

### BELGIUM



FRANCE

GREECE



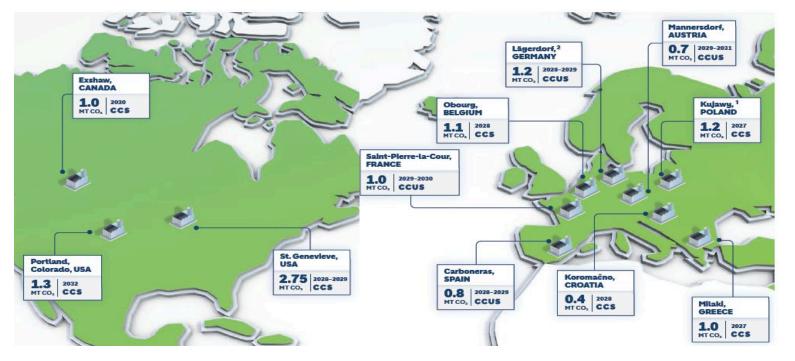




#### **OVER 50 CCUS PROJECTS**

CHF 2 BILLION CAPEX BY 2030 TO CAPTURE MORE THAN 5M TONS OF CO2/YEAR

#### 11 FLAGSHIP PROJECTS TO START CAPTURING +5 MT CO2 BEFORE 2030 From storage and utilization, including mineralization and carbonation





# DRIVING CIRCULAR CONSTRUCTION IN ALL METROPOLITAN CITIES WHERE WE OPERATE



# GLOBAL LEADER IN ADVANCED ROOFING & INSULATION SYSTEMS













# DRIVING PERFORMANCE WITH BILLION DOLLAR BRANDS

## ECOPact The Green Concrete \$1BN



Ellinikon, Athens, Greece, Europe's largest urban regeneration project



Recygénie, The world's first fully recycled concrete building, Paris, France

**ECOPlanet** The Green Cement



\$2BN









### **STRATEGY 2025 – ACCELERATING GREEN GROWTH**







