

# Greenet



The network of Horizon Europe  
Cluster 5 National Contact Point.



## ÇİMSA CEMENT INDUSTRY

**GREENET Brokerage Event**  
**6th May 2025**



*The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604*

- **Name:** Ali CAMGOZ
  - **Company:** ÇİMSA CEMENT INDUSTRY TRADE INC.
  - **Country:** TURKIYE
  - **Department:** Operational Technologies
  - **Expertise of the department:**
    - Data Analysis
    - Machine Learning
    - Mill & Kiln Optimization
    - Predictive Maintenance
    - SCADA Software
  - **Contact Information**
    - [a.camgoz@cimsa.com.tr](mailto:a.camgoz@cimsa.com.tr)
- **Name:** BERRAK AVCIOĞLU
  - **Company:** ÇİMSA CEMENT INDUSTRY
  - **Country:** MUNIH&TURKIYE
  - **Department:** R&D
  - **Expertise of the department:**
    - From raw material to product
    - Chemical Lab Analysis
      - XRD,XRF,FTIR,Optic Microscope
    - Physical/Mechanical Lab Analysis
      - Partical Size Distribution
      - Setting Time, Refracter
      - Slump
      - Compressive Strength
  - **Contact Information**
    - [berrak.avcioglu@sabancibs.com](mailto:berrak.avcioglu@sabancibs.com)

**>70**  
Countries

**5**  
Integrated  
Factory

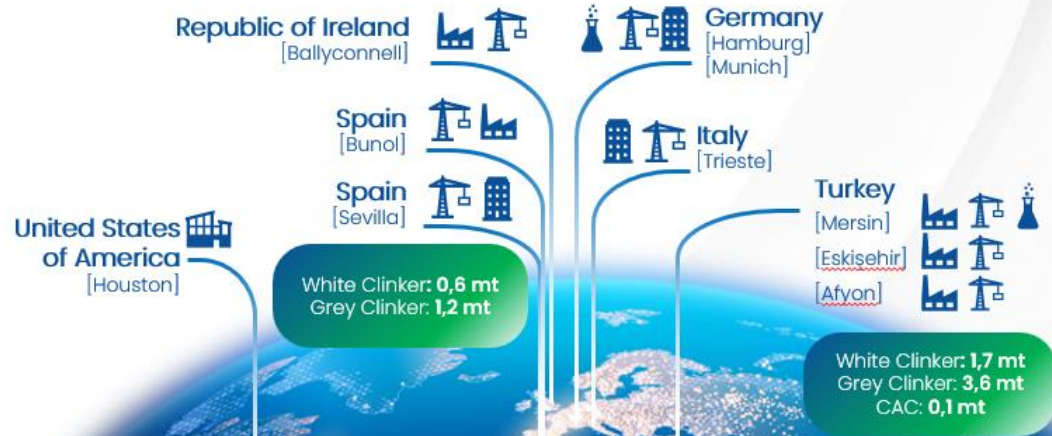
**>30**  
Ready Mix  
Concrete

**2**  
R&D  
Center

**6**  
International  
Terminal

**+2.000**  
Employees

**1**  
Grinding  
Facility





- **2000** Formula Center established as Research & Application Center in Mersin Plant
- **2017** First R&D Center of the Turkish cement sector
- **2021** R&D Pilot Plant was settled
- **2023** Sabanci Technology Center established in Munich, TUM Campus



## Products;

- White Cement
- Grey Cement
- Ready Mixed Concrete
- Special Products (CAC)



- Energy Efficiency
- Development of high thermal conductivity materials for shallow geothermal energy systems
- 2017 – 2021



- Circularity
- Production of construction materials with using recycled secondary raw materials
- 2020 – 2024



- Digitalization
- Decreasing environmental footprint of industrial processes with digital solutions
- 2019 – 2023



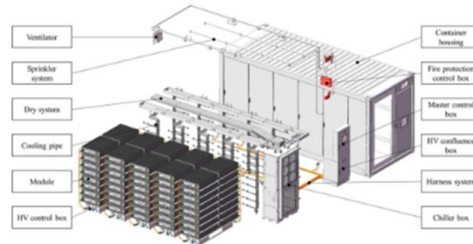
- Material Science
- Development of smart alloys and coatings resistant to high temperatures and mechanically harsh conditions
- 2020 – 2024

# Greenet



The network of Horizon Europe  
Cluster 5 National Contact Point.

## Energy Planning Optimization – AI Based



*The GREENET project has received funding from the EU Horizon Europe programme under Grant Agreement No 101069604*

## Energy Planning Optimization – AI Based

### **Variables:**

Solar Power Plant  
Waste Heat Recovery Plant  
Storage (Battery)  
Weather Conditions  
Hourly prices for grid consumption

### **Units:**

Ram Mills (2)  
Coal Mill (1)  
Kilns (2)  
Cement Mills (3)

### **Goal:**

Predicting Solar and WHR productions using process and weather variables.  
Optimizing Production Scheduling  
Cost optimization by using AI





- The project focuses on forecasting solar and WHR energy production using real-time process and meteorological data.
- These forecasts are embedded into production planning to enable dynamic scheduling and energy cost optimization through AI-driven decision support systems.







# Project Idea

- We leverage advanced AI and machine learning models trained on real-time and historical process and weather data.
- Our patented optimization algorithms and robust data infrastructure across all plants enable seamless, real-time industrial AI applications.





THANK YOU

