

The market-ready cement technology for people and the planet



Limestone Calcined Clay Cement (LC³) is a blended cement that replaces half of the carbon-intensive clinker found in Ordinary Portland Cement (OPC) with materials that emit little to no CO₂:

- Calcined clay
- Ground limestone



LC³ is a low-carbon and affordable alternative for the cement industry

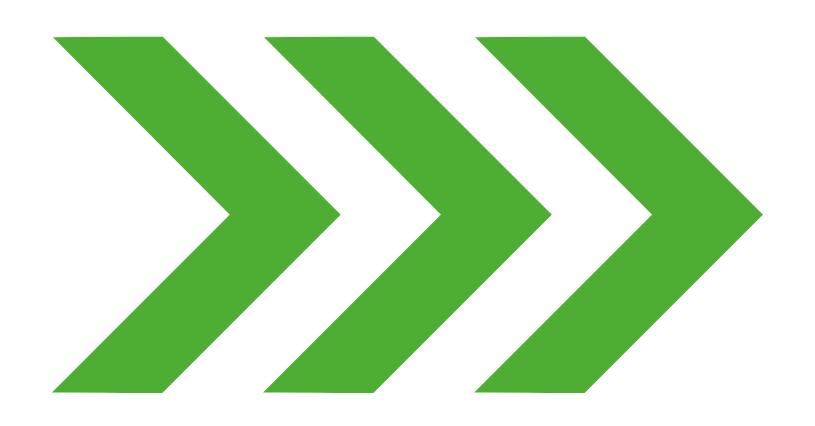
LC³ can save up to 500 million tonnes of CO₂ per year by 2040



LC³ reduces the carbon-intensive clinker content in a typical cement bag by half and reduces the CO2 emissions by 40% compared to Ordinary Portland Cement (OPC)



Because calcining clay is cheaper than producing clinker, LC³ saves up to 25% of the production costs



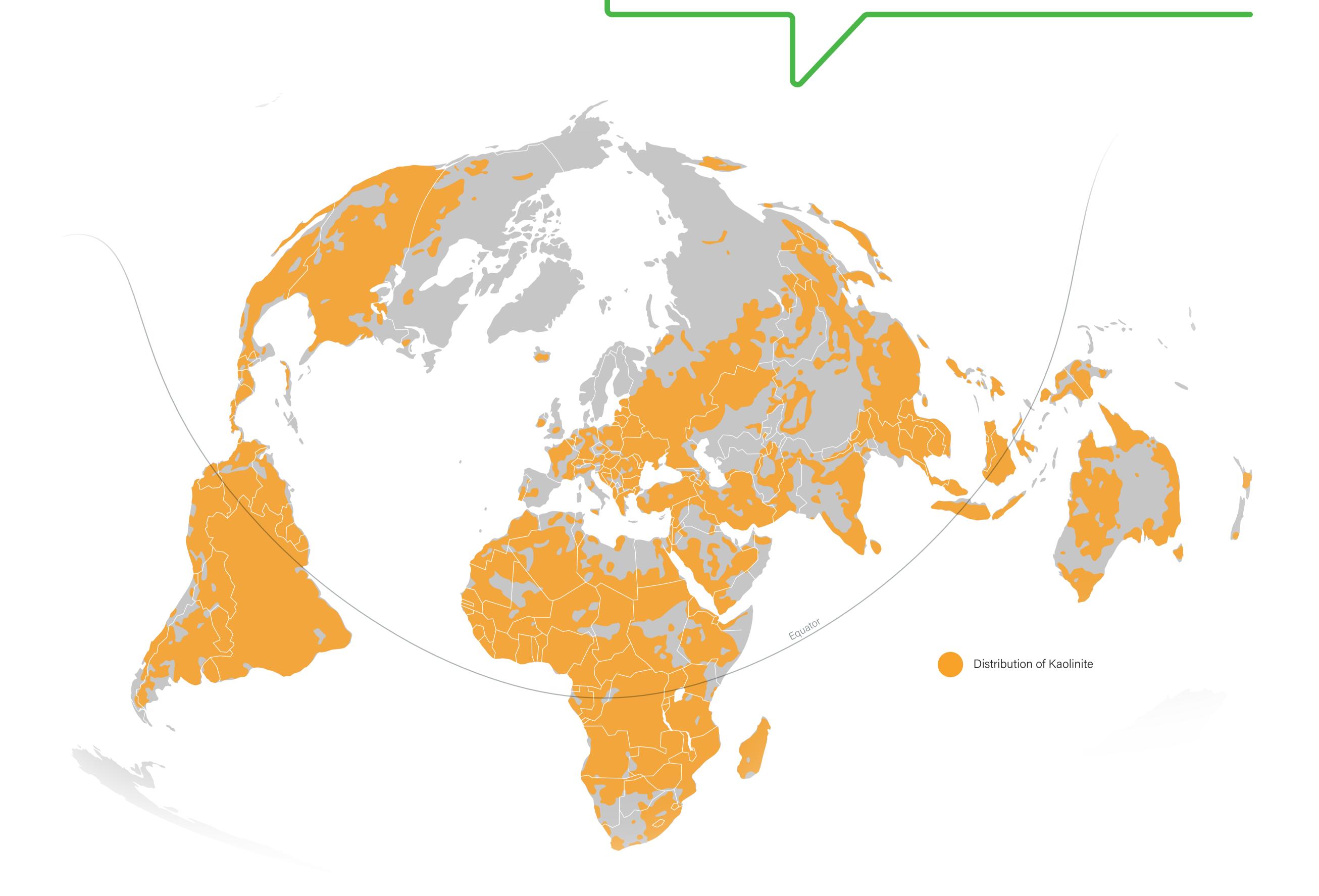
LC³ is a **scalable**, **high-performance** solution for cement production



SCALABLE

The abundance of clay means LC³ can be produced in most cement plants worldwide

Kaolinite clay, the most suitable clay for making LC³, is available in abundance all over the world.





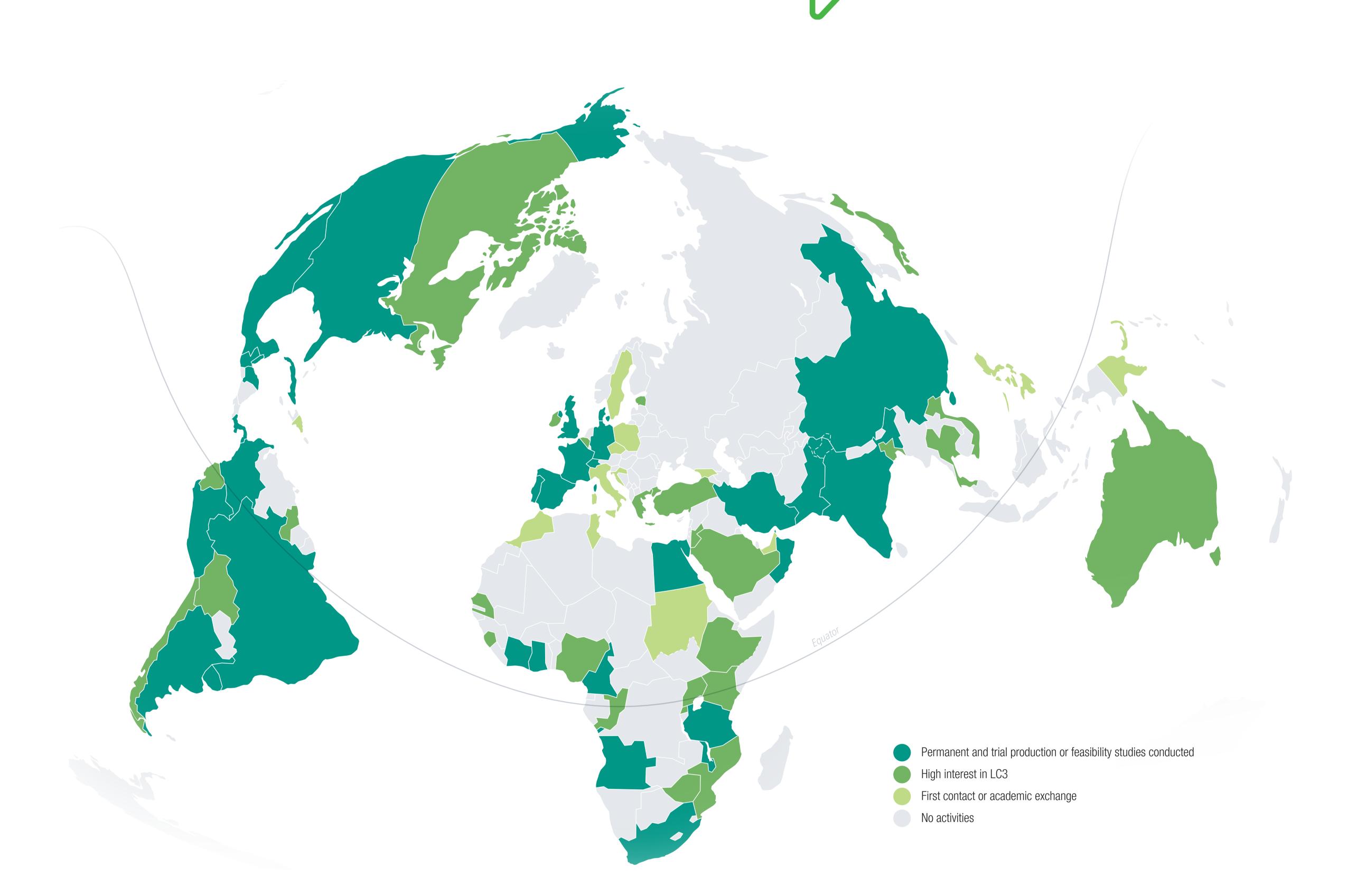


LC³ performs as well if not better than OPC with the **advantage of greater resistance** to the penetration of chloride ions – the main cause of corrosion



LC³ across the world

LC³ is produced today
in 9 major plants worldwide;
+20 more by 2030





Colombia:

Building with LC³



© Cementos Argos

LC³ is already produced industrially in major plants around the world and used in large-scale building and infrastructure projects: shopping malls, roads, tunnels, bridges, etc.

For example in Columbia, the Puente Cauca viaduct on the Pacifico 2 road is built with LC³ produced by Cementos Argos.



© Cementos Argos





Habitat for

Humanity project:

Family houses with LC³



House with conventional cement.

© Holcim Mexico

Concrete made
with LC³ usually has
a slight reddish color
due to the natural
color of clay



House with LC3.

© Holcim Mexico

The Habitat for Humanity project aims to compare the performance of two types of cement by constructing two small family houses on a study site: one with conventional cement and the other with LC³.

The comparison will focus on CO₂ emissions, mechanical properties in both fresh and solid states, and durability.

This project is implemented by LC³ Project TRC-LATAM / CIDEM, with support from Holcim Mexico.

