



# TIKAL

Not new cement.  
**Just better economics.**



Cement is the **binding ingredient** or ‘glue’ in concrete—the second most consumed substance on Earth after water.

Concrete=



Cement



Aggregates



Sand



Water



## 2 | What keeps concrete producers up at night

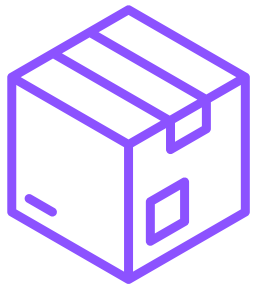


Ready-mix concrete margins are being crushed and cement prices are higher than ever.



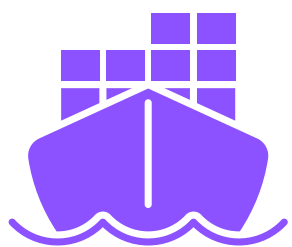
**13.4%**

price increase  
for cement YoY



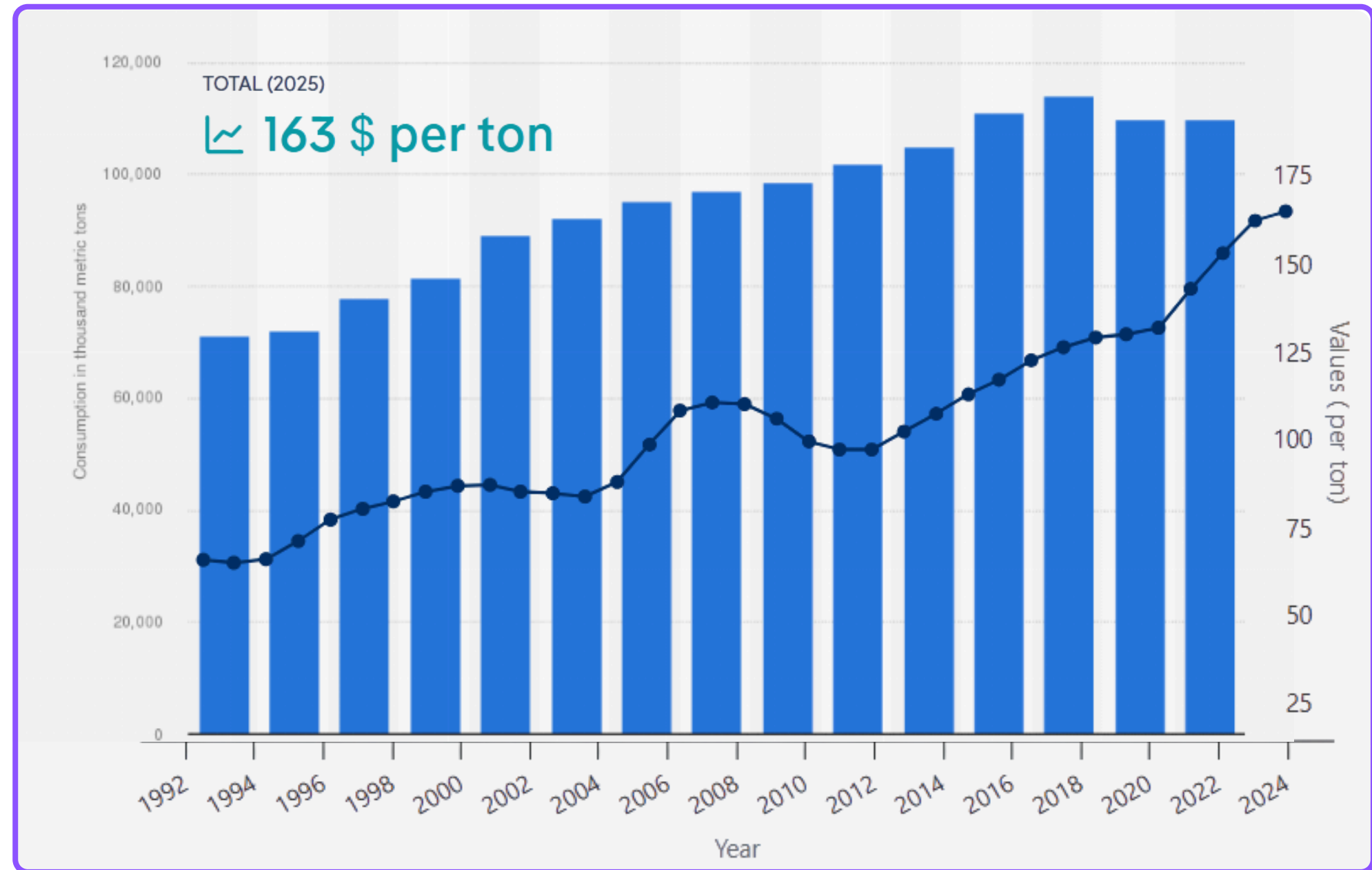
**40%**

increase in cement  
delivery costs



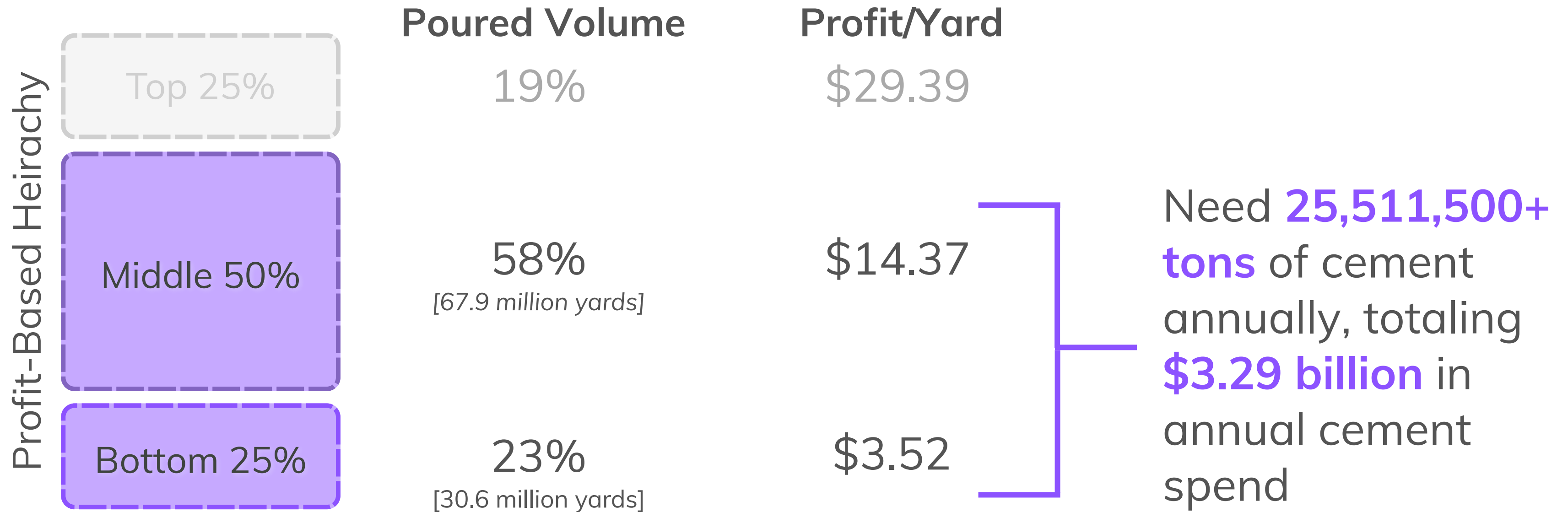
**25%**

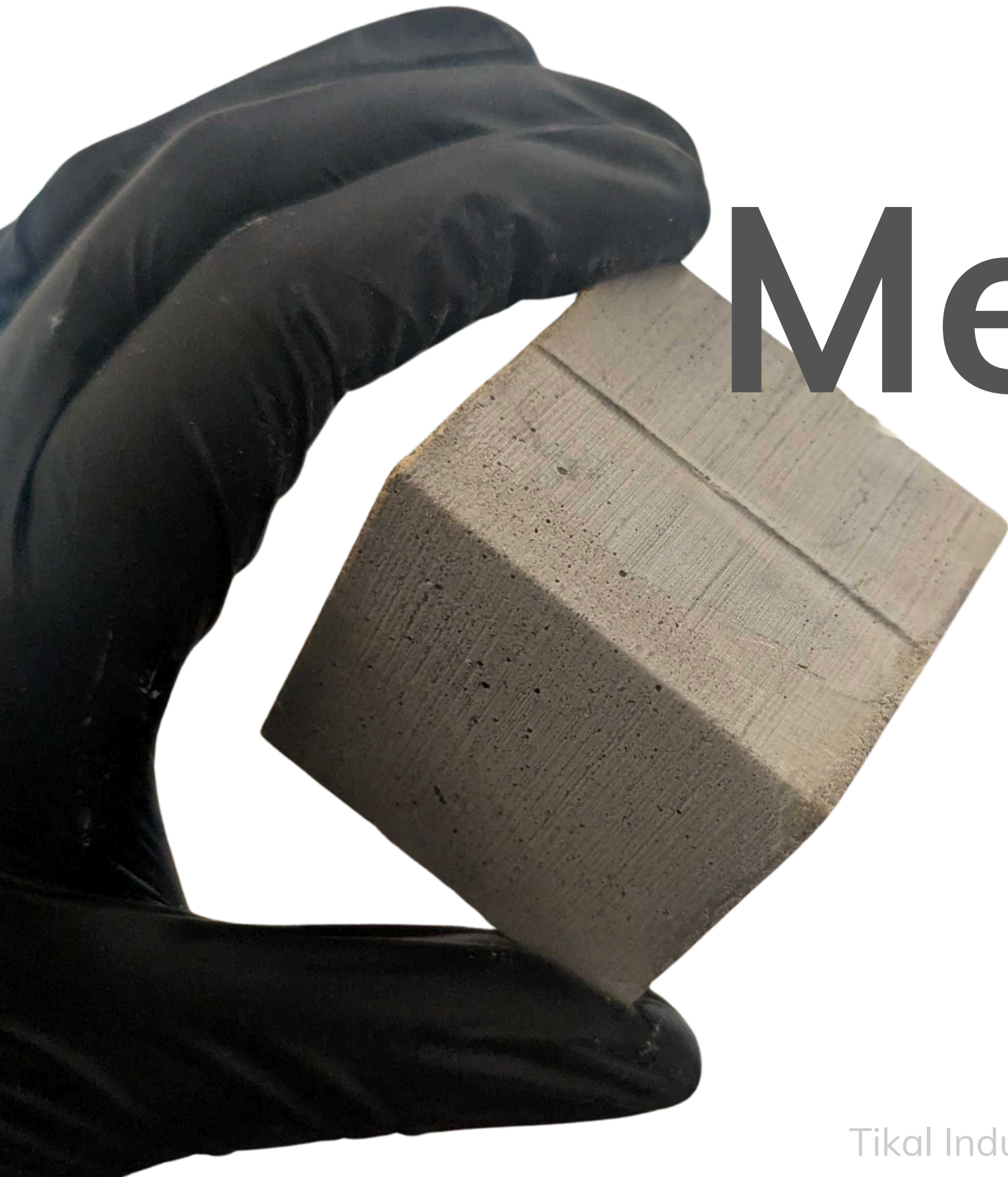
tariffs on imports  
in 2025





Only large concrete operators can raise sales prices fast enough preserve margins. **But the forgotten majority pours 81% of total market volume.**





# Meet BlueSCM<sup>TM</sup>

Lower Cost  
Lower Carbon  
Built from Waste



# Meet BlueSCM™

Sold at \$95-110/ton

**Product Type:** High-reactivity SCM, engineered blend

**Compliance:** Evaluated per ASTM C1709-22 and tested in accordance with ASTM C311, ASTM C1202, ASTM C1567, and ASTM C109/C39.

**Recommended Replacement Level:** Ready-Mix Concrete with Type IL Cement (40-60% Cement Replacement)

- SCM designed to achieve high cement replacement without early-strength penalty (90% of OPC at 7 days) while maintaining long-term strength superiority (110% at 28 days)

**WATER DEMAND**

**~105%**

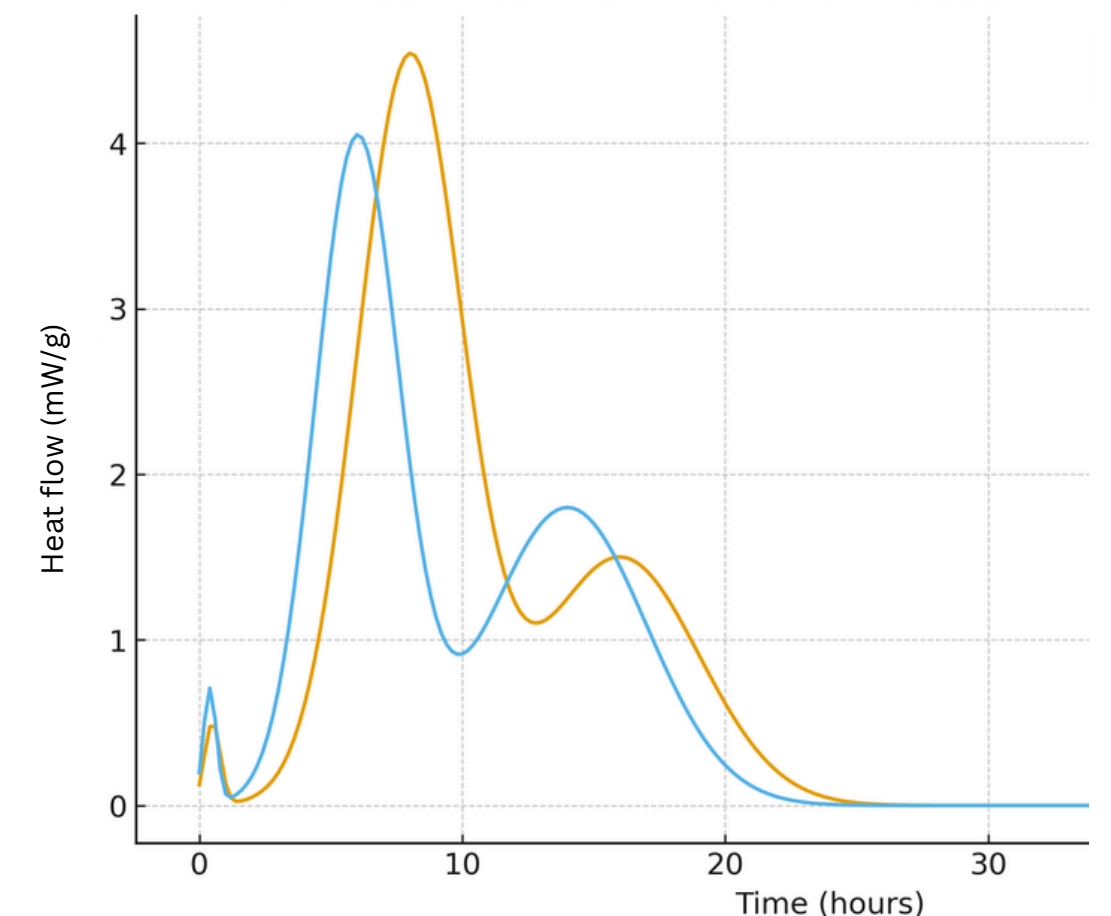
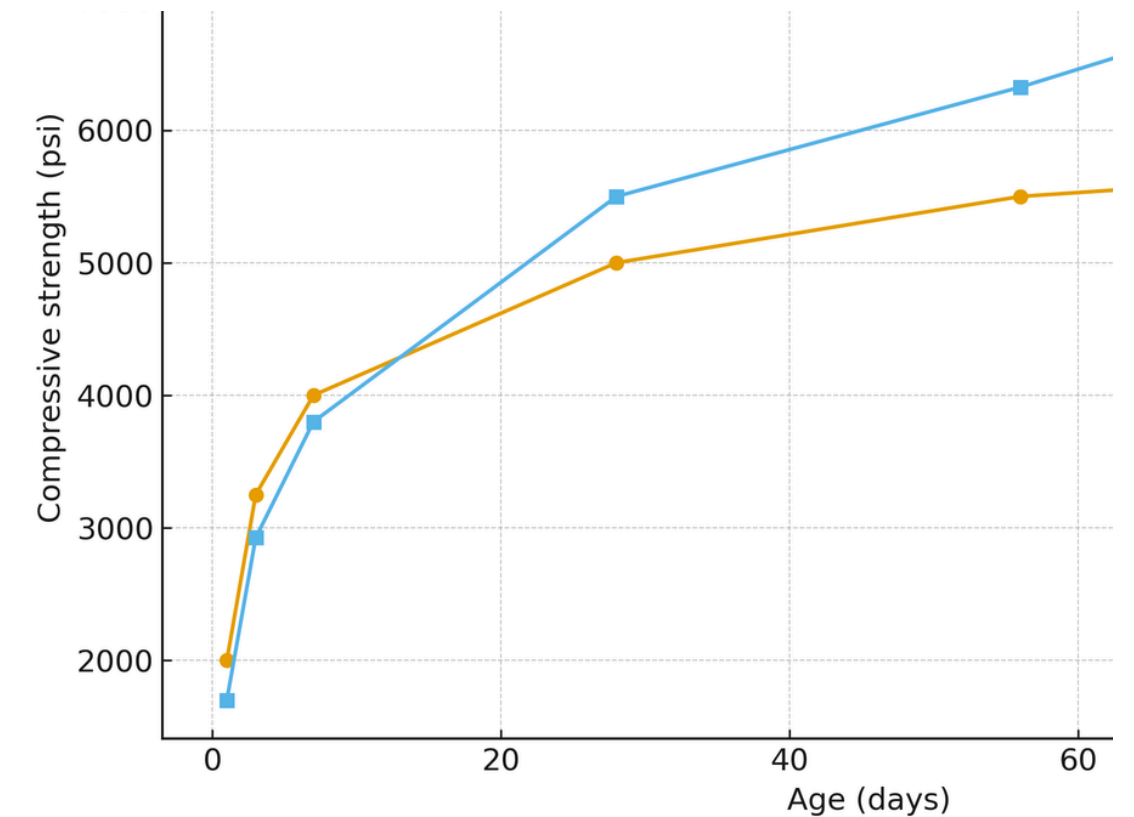
**INITIAL SET**

**45-60**

**BLAINE FINENESS**

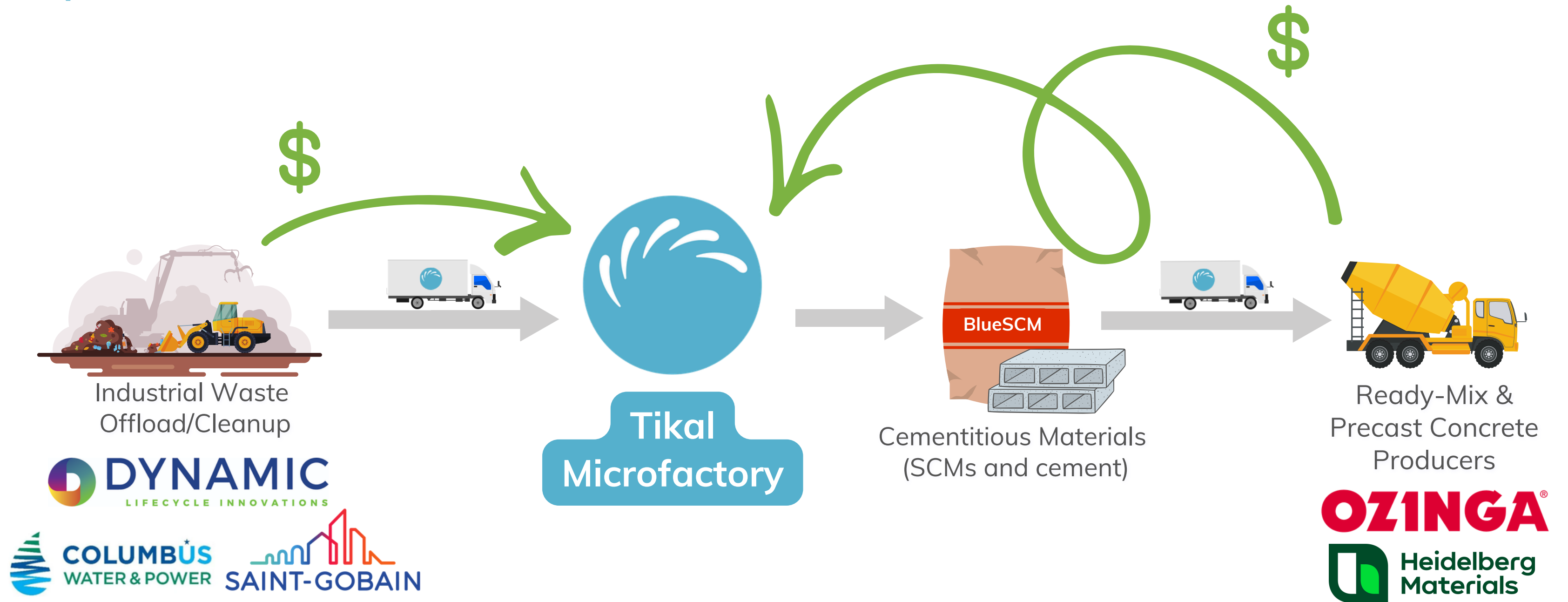
**800-900 m<sup>2</sup>/kg**

**BLUESCM (50% REPLACEMENT) VS. OPC TYPE 1L**



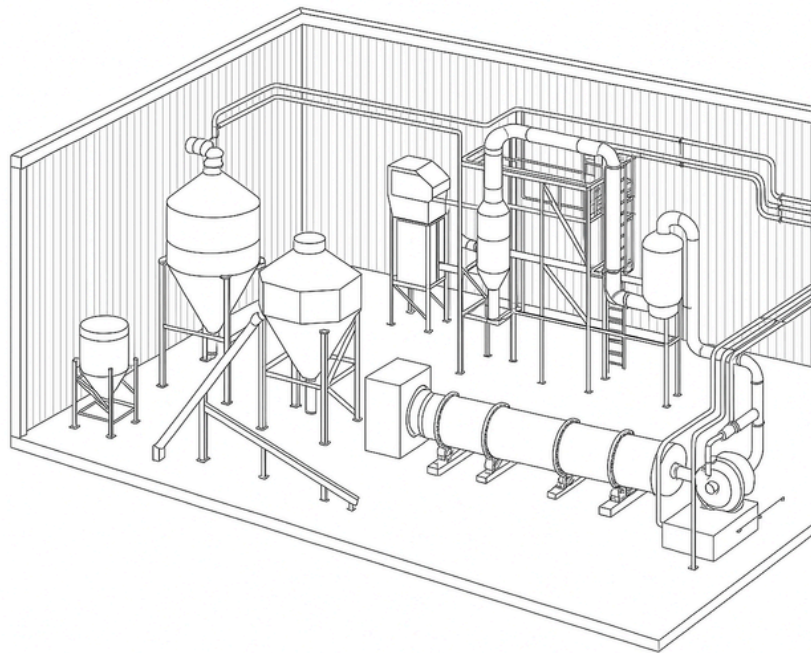


We transform industrial waste into **cost-competitive** construction materials.





BlueSCM is sold cheaper than traditional SCMs, leveraging superior unit economics and a low-capex microfactory model.



### **TiKAL**MICROFACTORY

**Production Volume**  
50,000 tons  
annually

**Lower CapEx**  
only \$4.0M  
(vs ~\$200M)

**EBITDA Margin Per Ton**  
+23.6%  
varies based on incoming waste type



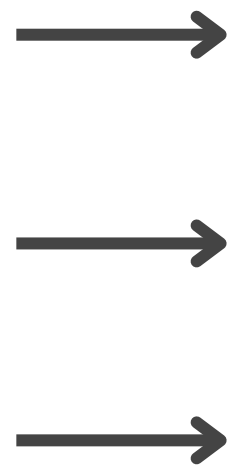
continuous production process

Waste Streams

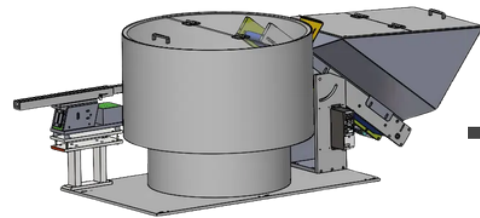
Calcium

Alumina

Silica



**TiKAL** MICROFACTORY



Remove contaminants



Increase reactivity



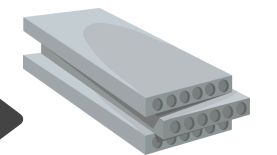
Homogenize particle size



Blend into SCM/cement  
Engineered additives to optimize calcium-aluminosilicate-hydrate formation.

[TRL 7]

Offtakers



Precast



Ready-mix



**TiKAL** SOFTWARE

[TRL 3]

Sampling and analysis of incoming feedstock



Dynamic process adjustments



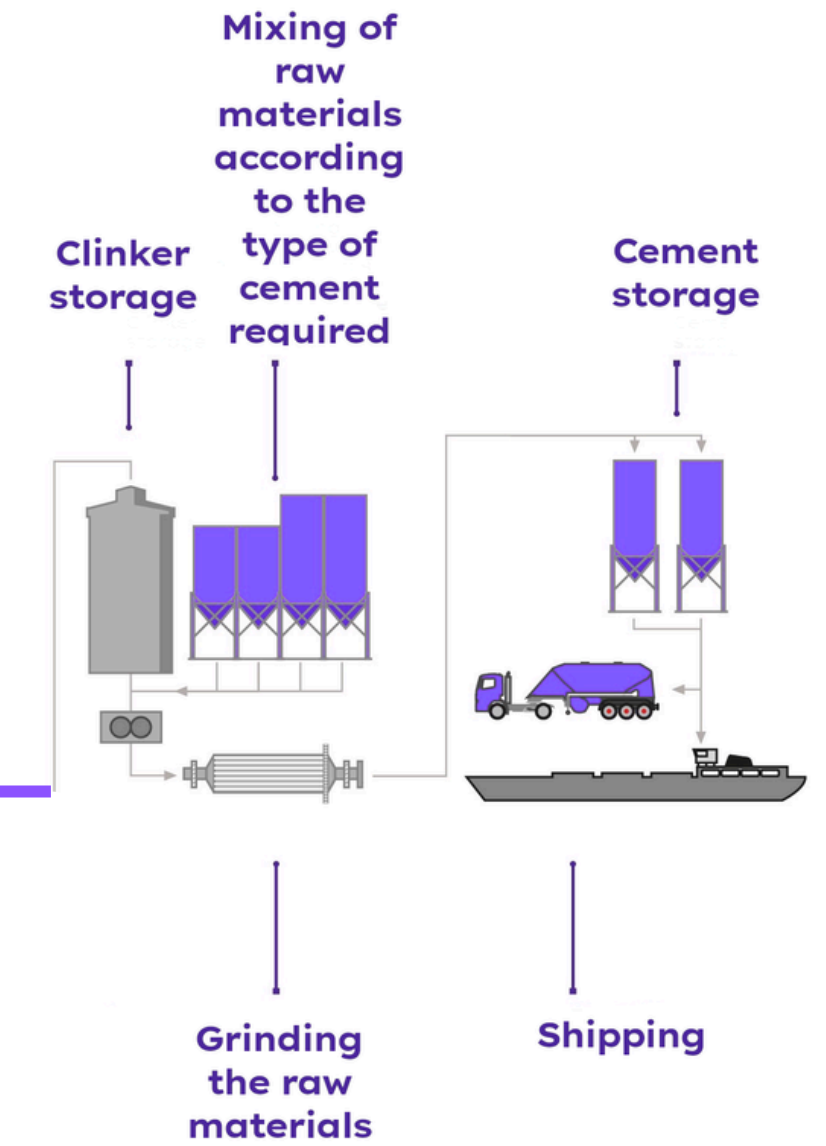
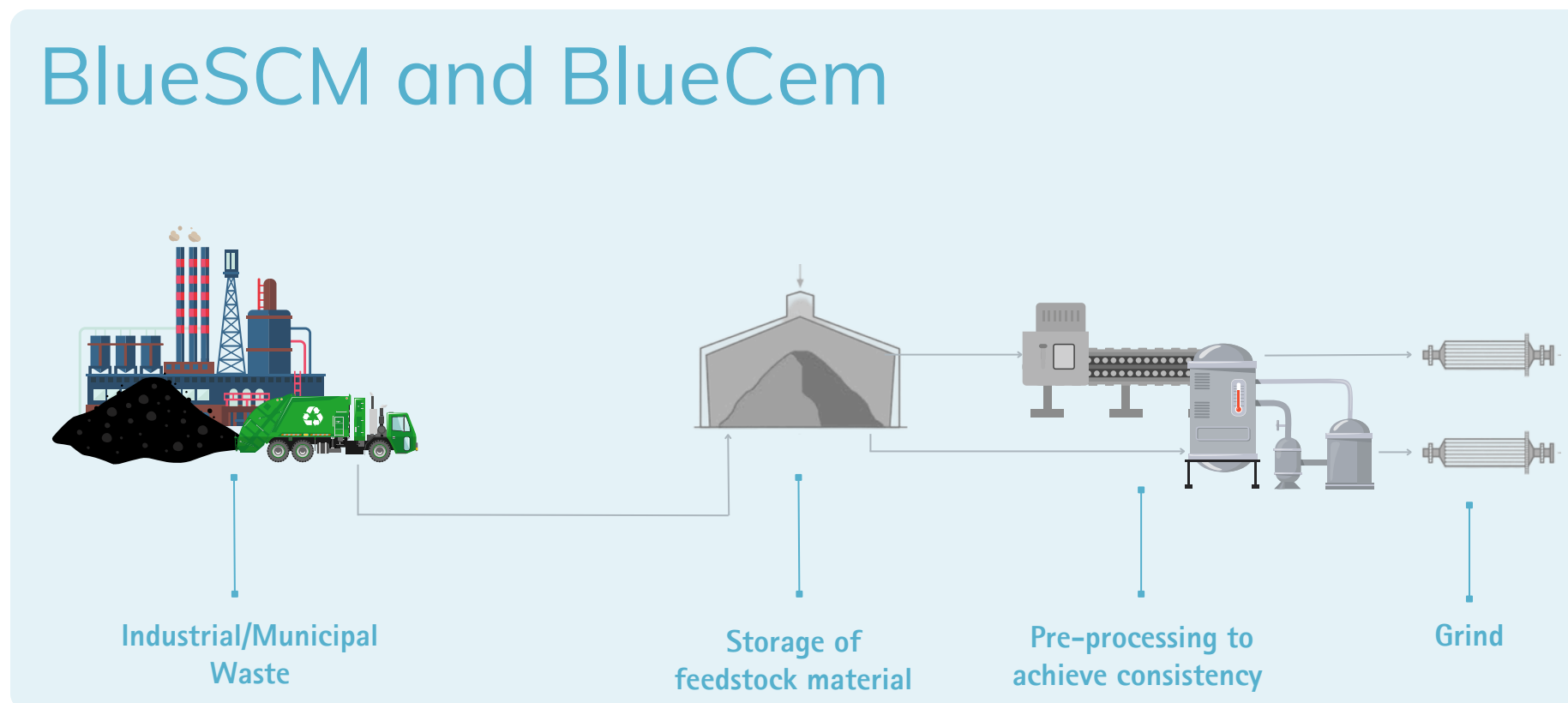
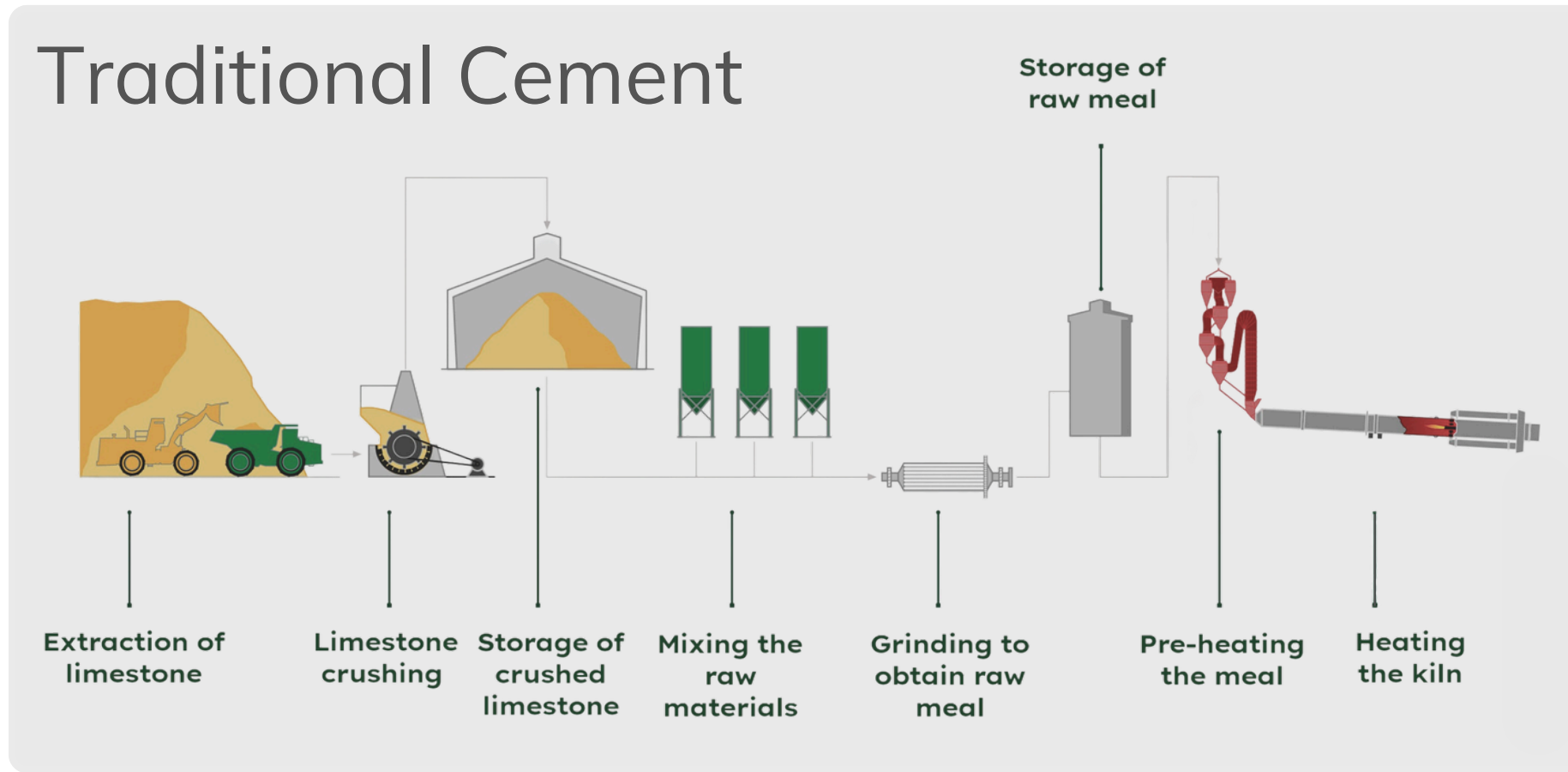
Adjust additive requirements



Predict early ASTM quality results

automated quality control across variable feedstock

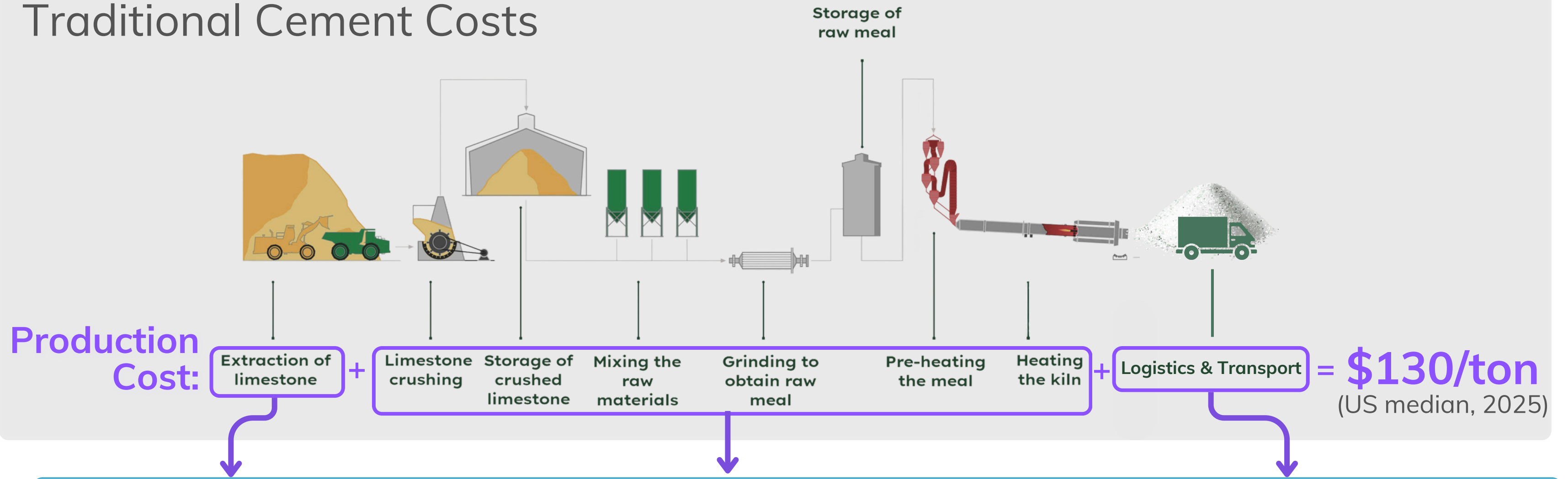
# 9 | Plug-and-Pour: Instant adoption for ready-mix producers.



- ✓ Use Existing Equipment
- ✓ No Workflow Changes
- ✓ No Specialized Training



## Traditional Cement Costs



Negative raw material costs via tipping fees

\$20-75/ton

Reduced processing & energy costs (less grinding, low temperature treatment)

\$83.46 opex/ton

Local deployment minimizes logistics

<75mi radius

**\$42.60/ton profit at full scale while reducing CO2 emissions by 80%.**



Cement is a **\$500B** global market with a 4% CAGR.

### Beachhead Market: Greater Chicagoland Area

Cement manufacturing industry valued at **\$287.2 million** in 2025

**1.35M tons** of cement consumed annually

**8M tons** of viable waste generated annually, enough to support ~70 Tikal microfactories



### GTM Strategy:

#### BlueSCM (~50% replacement)

Applications: non-structural type 1L ready-mix systems

*Least adoption hurdles (ASTM C1709)*

#### Cement (100% replacement)

Artificial limestone calcined clay cement replacement through ASTM C1157 standard, target structural applications

#### BlueCem (100% replacement)

Full waste portfolio utilization, target precast and ready-mix applications requiring early-strength, OPC type 1 replacement

*(ASTM C1157)*

Increased Brand Credibility



**Christian Guerrero**

CEO

*Manufacturing and  
Quality Engineer*

CAST21

Colgate®

rada

Madison  
Scientific™



**Tayyaba Ali**

CTO

*Systems and Process  
Automation Engineer*

Baxter



Southwire®



Ingredion.



**Tyler Grudowski**

COO

*Mechanical Systems Design  
and Supply Chain*

Delve



MARMON

UNITED





## Current Fundraise:

Target: \$2.25M (50% committed)

Use: 16-month runway to commercial operation and revenue generation

Structure: Priced equity round

## Key Milestones:

- Q1 2026: ASTM C1709 compliance for BlueSCM
- Q2 2026: Large-volume commercial contracts signed
- Q4 2026: Microfactory commissioning
- Q2 2027: Series A positioning (\$15M)

### Pilots/Clients Secured:



### Anticipated Contracts:





# NOT YOUR GRANDDADDY'S CEMENT



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