



BELLA-TERRA™ Recycled Earth Products

BELLA-TERRA™ “Beautiful Earth”

Company Introduction

BELLA-TERRA™ is a building materials technology company developing recycled cement alternatives solving a major problem by enabling concrete producers to transition from traditional energy and resource intensive products to low-carbon alternatives.

Corporate Contact:

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BELLA-TERRA™ Recycled Earth Products Corporation

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Portland Cement

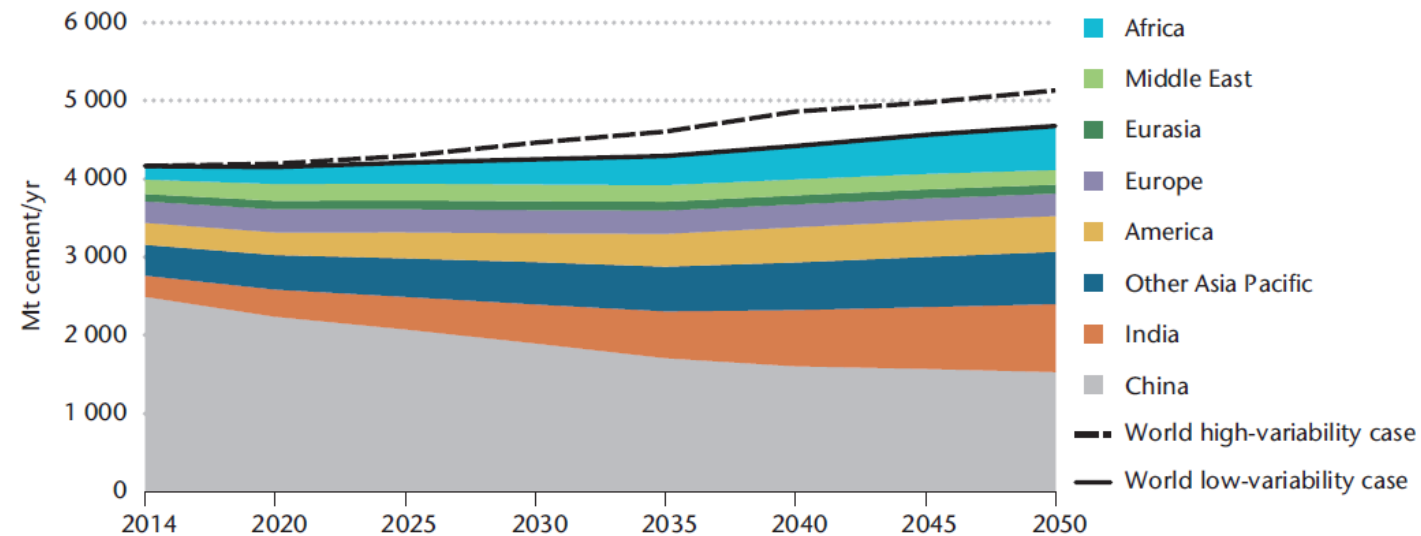
- Cement, a key input into concrete, is the **most widely used construction material in the world** with over **4 billion tons produced annually**.
- Cement production accounts for **8% of global CO2 emissions** - producing **1.56 billion tons in 2020**.
- Building floor area is projected to **double over the next 40 years** – equivalent to adding the total building floor area of **Japan to the planet every year** to 2060.
- To be in line with **Paris Climate Agreement**, the cement sector will need to **decrease emissions by 16% by 2030**.
- Developing markets in Asia and Africa – with efforts to meet UN Sustainability Goals (SGDs) **infrastructure spending to be \$60 trillion in developing countries over next 10 years**.



Global Demand

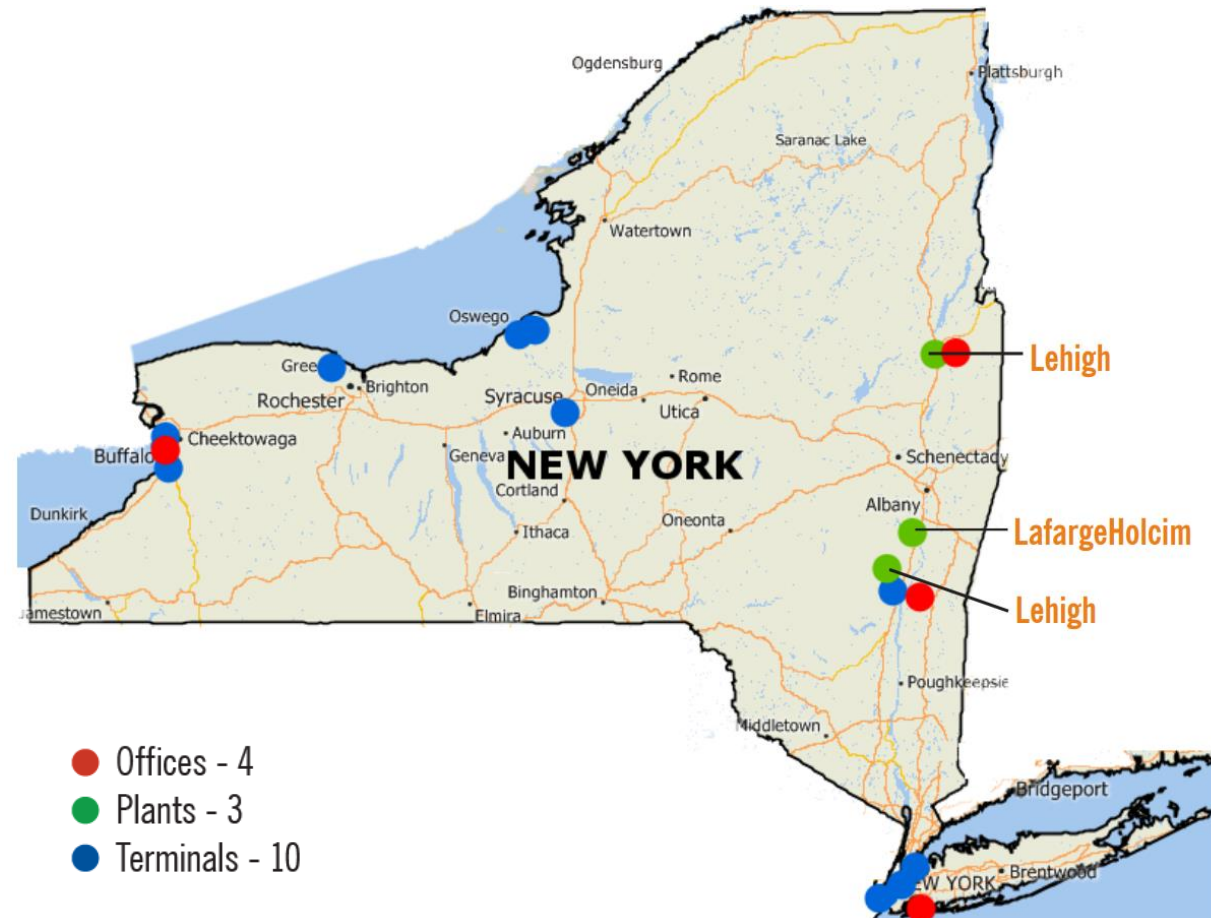
Demand for cement is expected to increase to over 5 billion tons per year by 2050, driven by urbanization and infrastructure development.

- China has been a primary driver of growth and global demand; however, future demand will be driven by emerging economies in Africa and Asia.
- The Global Commission on the Economy and Climate estimates that \$90 trillion will be invested in infrastructure through 2030, and that two-thirds of this investment will be in developing countries.

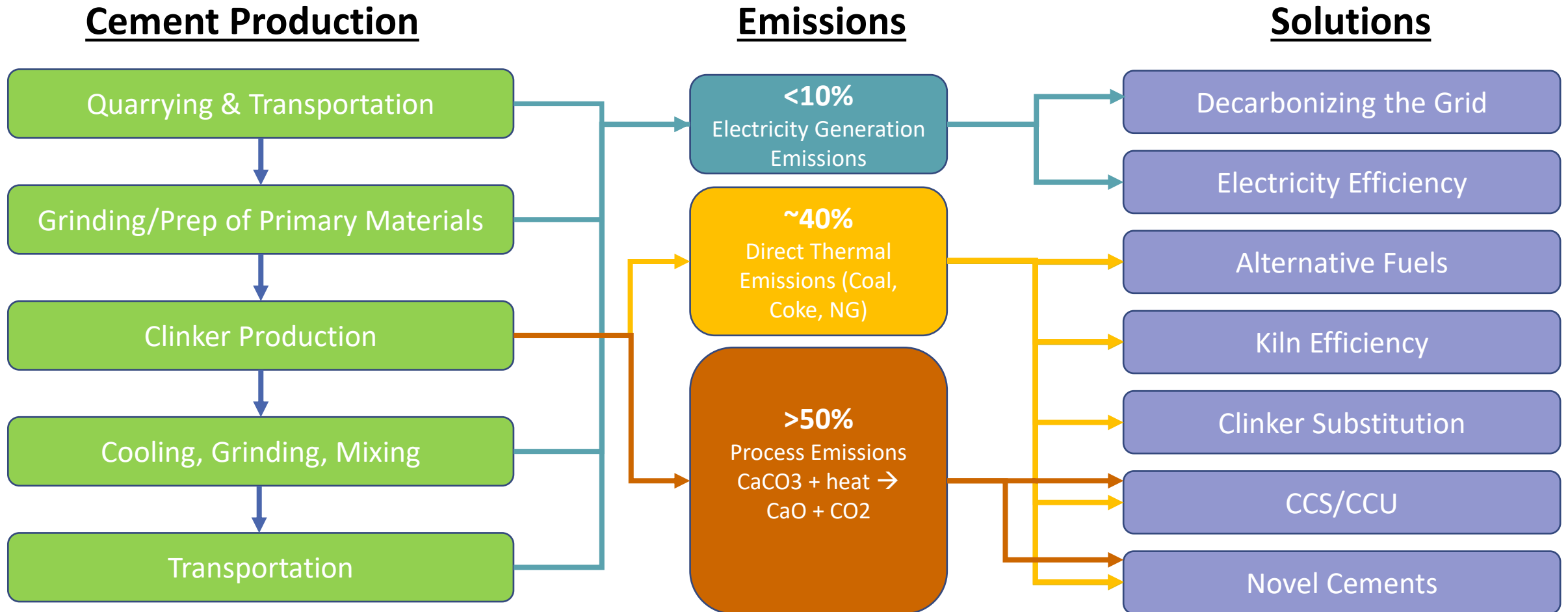


New York Cement Market

- **Clinker Capacity:** 1.4 million metric tons
- **Cement Consumption:** >3 million metric tons (2021)
- **Cement Employees:** 213 (2015)
- **Cement & Concrete-Related Employees:** >20,000 with payroll of ~\$1.3 billion (2021)
- **Cement Contribution to State Revenue:** \$7.6 million (2015)
- **Cement & Concrete-Related Contribution to State Revenue:** ~\$2.6 billion (2021)



CO2 Reduction in Cement



Emissions Reduction in Cement Industry



Paris Climate Agreement

- 13 United Nations Member Nations
- Cement Industry included in targets to reduce global emissions



Cement Sustainability Initiative (CSI)

- 18 Major Cement Producers targeting 1 giga ton of CO2 reduction by 2030
- Industry to be carbon neutral by 2050



Infrastructure Investment and Jobs Act

- \$1.2 trillion spending bill to invest in infrastructure across the US



NY State Senate Bill S542A

- Signed by Governor Kathy Hochul on Dec 22, 2021
- Requires New York to set an emissions standard for concrete used in public works

BELLA-TERRA™ Solutions

BELLA-TERRA™ is committed to reducing the climate impact of the cement industry by providing **cost-effective cement alternatives** and **recycling technologies** that enable concrete batch plants to efficiently produce 100% recycled building materials.

BELLA-TERRA™'s two core technologies:

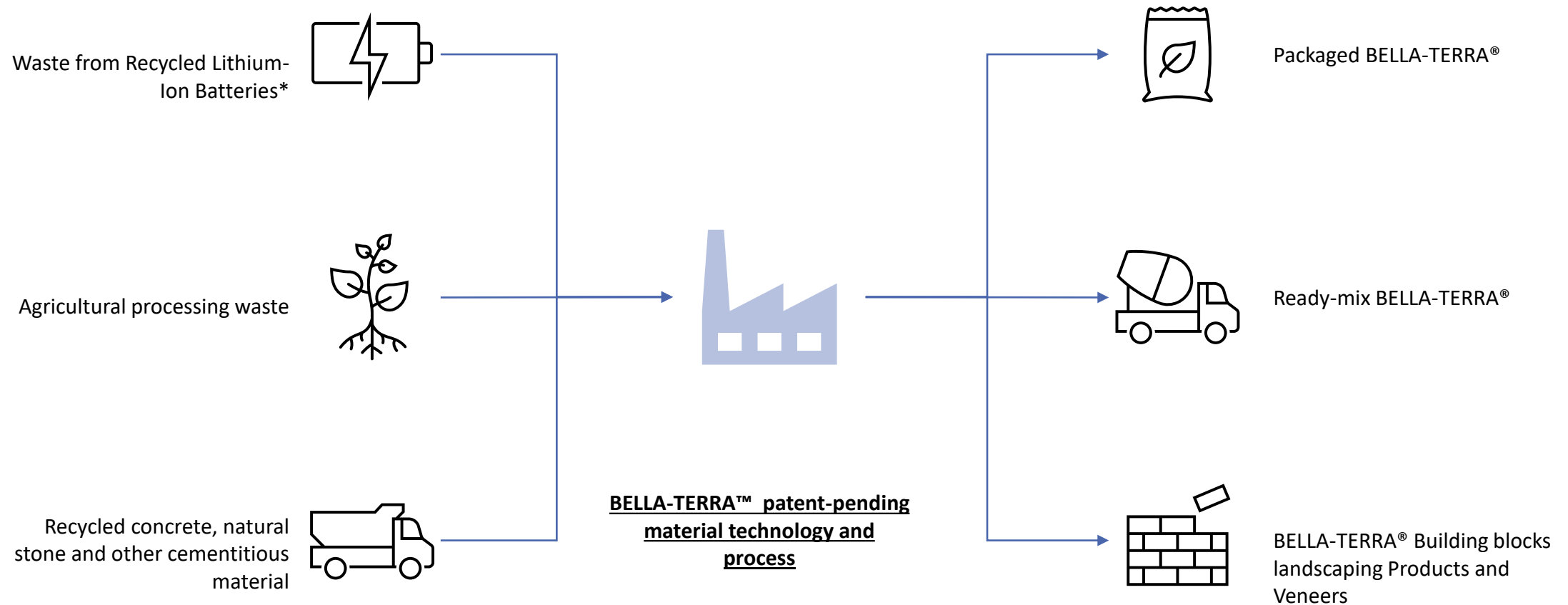
1. **BELLA-TERRA™**: A **100% recycled cement alternative**, BELLA-TERRA™ , utilizes pre and post consumer and industrial waste, with non synthetic plant fiber-based alternatives to petroleum resin-based binders & Portland cement.
2. **Aggre-Mac™ (“Aggre-Mac”)**: A **sustainable cementitious material recycling technology** that allows concrete batch plants to recycle cementitious materials and produce BELLA-TERRA® based building materials.

BELLA-TERRA® – Cement Alternative

- **Renewable** – Non-synthetic, plant fiber-based alternative to petroleum resin-based binders & Portland cement. BELLA-TERRA™ utilizes to multiple waste streams to create high quality building materials.
- **Strength** – BELLA-TERRA™ building materials match and exceed traditional Portland Cement mixes.
- **Cost** – BELLA-TERRA™ can be produced at scale for prices comparable or cheaper than cement.
- **Impact** – BELLA-TERRA™ is 100% recycled and produced from construction, agricultural, tool & die, and electronics waste*.

**Use of electronic waste is under development*

BELLA-TERRA™ Novel Cement & Additive

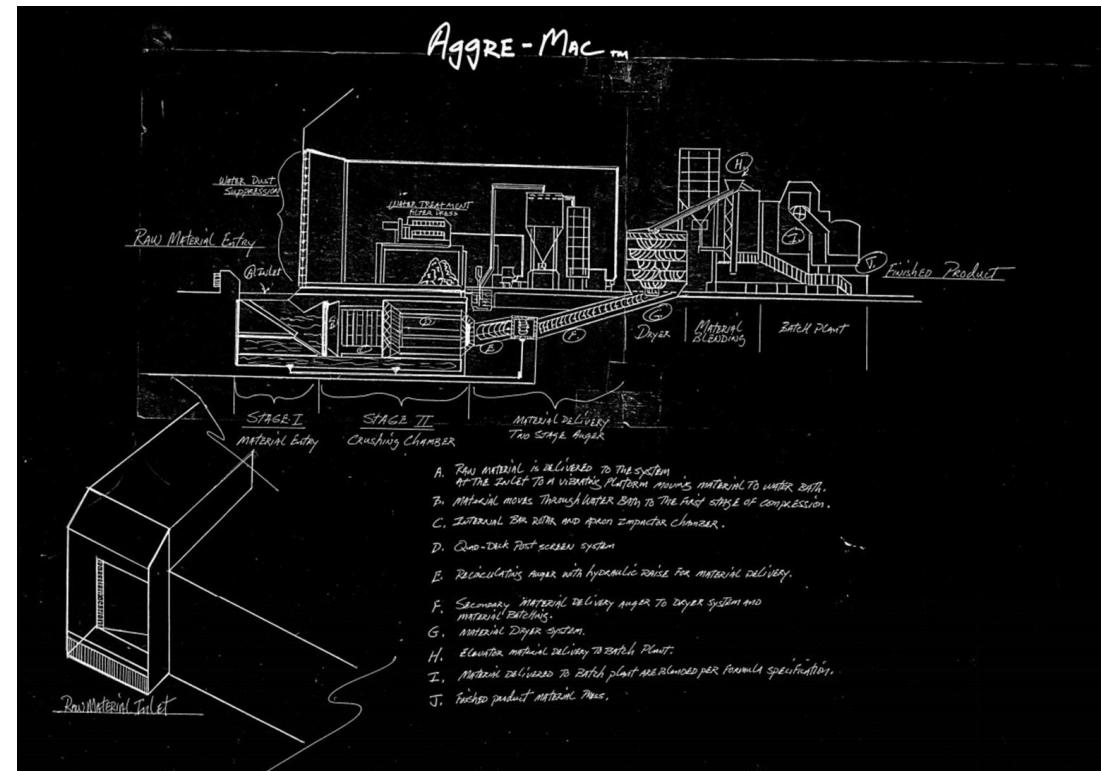


**New waste stream currently under development*

Aggre-Mac™ Recycling Technology

Aggre-Mac™

- Patent pending recycling system which is **self-contained**, **low energy demands**, with **zero waste**.
- Allows **concrete batch plants** to quickly and **cost effectively** add raw material recycling capabilities.
- Together with BELLA-TERRA™, enables existing ready-mix plants to **produce 100% recycled building material**.



BELLA-TERRA™ Landscaping and Veneers

BELLA-TERRA™'s initial products include:

- Construction blocks
- Concrete Additives
- Packaged building material*
- Building Veneers
- Landscaping Products

**Future Products*



BELLA-TERRA™ Building Material Market Solutions

	Binder	Aggregate	Building Materials
Traditional Solution	Portland Cement, Cement Alternatives	Quarried Stone and Sand, Traditional Recycling	Pavers, Veneers, Ready-mix, Pre-cast, Packaged Concrete
Environmental Impact	1 MT CO2 for every MT of Portland Cement	965 million tons of sand and gravel consumed annually	Roughly 25% of solid waste is from construction
BELLA-TERRA™ Solution	BELLA-TERRA™ Binder	Aggre-Mac™	BELLA-TERRA™ Building Blocks Concrete additives and landscaping products

Market Size and Potential Revenue

Total Addressable Market: \$14.8b

Total US Market For Cement (Portland, Blended & Masonry)

1. 105 Million Tons shipped to customers
2. Average price of \$175/MT

Serviceable Available Market: \$1.4b

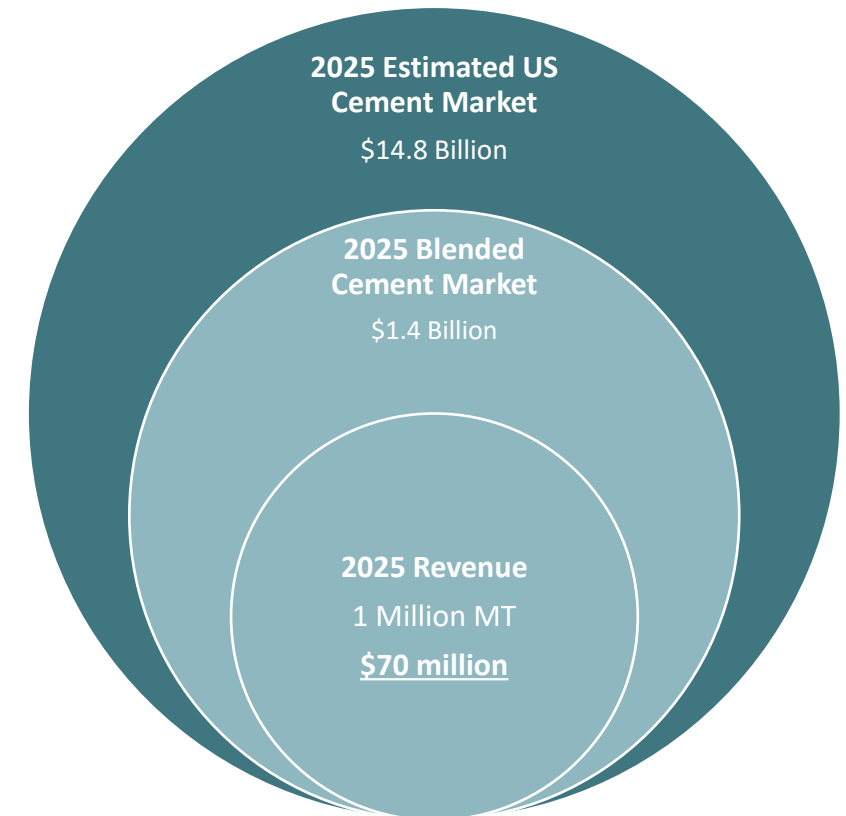
Total Market for Blended Cement

1. Blended with fly ash, slag, silica etc.
2. Currently 3% of US consumption. Potential to grow to 10% by 2030 to match EU


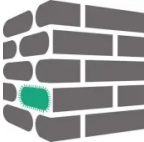


Serviceable Obtainable Market:

10% Market Share

1. BELLA-TERRA™ is targeting 5% of the total market for cement alternatives



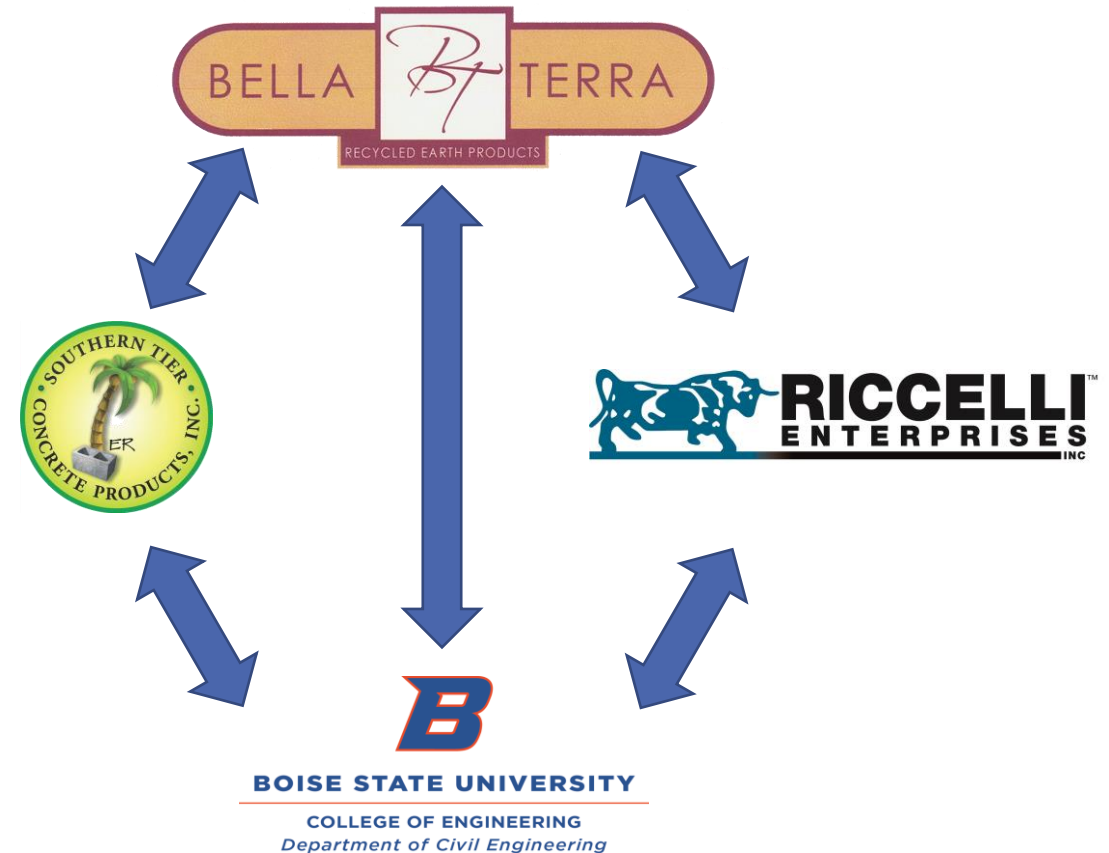
Alternative Building Material Industry

Company	Products	Total Funding	Notable Investors	
	Solidia Technologies	Efficient cement manufacturing, sustainable curing	\$105m	Total Carbon Neutrality Ventures, LafargeHolcim, BP Ventures, OGCI Climate Investments
	BioMason	Cement replacement	\$28.4m	
	Carbon Cure	CO2 storage technology	\$12.4m	Microsoft, Breakthrough Energy, BDC Venture Capital
	Blue Planet	CCS aggregates	\$9.3m	Chevron Technology Ventures

R&D Partnerships

Boise State University, Riccelli Enterprises, Inc., and Southern Tier Concrete Products, Inc.

- Foundation for developing new cement alternatives based on original technology.
- Expand to incorporate other recycled materials (e.g., recycled lithium-ion battery byproduct).
- Expect initial, 100% recycled cement alternative and additive by end of 2024.



Raw Materials Partnerships

Li-Cycle Partnership

- Li-Cycle (NYSE:LICY) is a leading recycler of lithium-ion batteries with a major facility planned in Rochester, NY for 2023 completion.
- The facility is expected to **produce 25-35k MT of recycled gypsum annually**, currently destined for disposal at landfills.
- **Letter of Intent (LoI) signed May 2021** to explore partnership on developing building materials combining Li-Cycle's gypsum and BELLA-TERRA™.
- Initial testing shows strong potential for new building material that can be used in industrial and structural applications.
- In discussion to fund the R&D, licensing, equipment purchases and marketing costs in order to begin production of the new building material.

Partners



R·I·T

R·I·T

SAUNDERS
College of BUSINESS



MONROE COUNTY
MCIDC
INDUSTRIAL DEVELOPMENT CORP.



Li-Cycle®



Management Team

Michael Valle, Jr.

Chief Executive Officer

Mike V. is a multi-generation stone mason who left a career in law enforcement. He has an A.S. in Criminal Justice from Monroe Community College, an A.A. in Sociology from the University of Rochester, and a B.A. in Manufacturing Sociology from Empire State College. Mike V. has been in the stone and masonry business for 45 years and is the inventor of BELLA-TERRA® technology and the Aggre-Mac™ process.

Wayne Davies

Chief Operating Officer

Wayne is a career builder. His experience ranges from Residential builds to Commercial builds, in the project realms of \$30 Million and above. Wayne's focus is on project process and progression, with a strength in details and scheduling. His most recent employers are DiPasquale Construction – 3 years and LeChase Construction 21 years.

Dr. Sondra Miller

Chief Science Officer

Dr. Miller is an Associate Professor in the College of Engineering at Boise State University where she focuses on fate of contaminants in natural and engineered systems including cement alternatives. She holds a Ph.D. in Environmental Engineering from the University of Iowa, a M.S. in Environmental Engineering and B.S. in Civil Engineering from the State University of New York at Buffalo. She is a licensed professional engineer in the states of Idaho and New York.

Mike Tschiderer

Chief Financial Officer

Mike T. is a seasoned financial executive who has worked in leadership roles in public, private equity, and venture capital companies. He has a focus on sustainability, and has significant experience working in the sector, including:

- Ecovation, Inc. (wastewater treatment)
- Infinia Corp. (solar energy)
- Lanzatech Inc. (carbon recycling)

Management Team

Witt Gatchell

Senior VP, Business Development

Witt has worked for 10 years in project development, venture capital, and private equity in emerging markets. He brings broad experience working on a variety of infrastructure, manufacturing and technology projects. Witt has a B.A. in Finance from Colorado State University and an M.A. in Global Finance from the University of Denver.

Kimberly Gebo

Senior VP, Engineering and Technology

Kimberly brings over 27 years of experience and extensive manufacturing leadership to BELLA-TERRA™ as a manufacturing Engineer, quality manager, and a former business owner. Kim's industrial experience includes metal fabrication, industrial filtration, supply chain management, and lean manufacturing. She is a LEED certified in ISO 9001:2015, IATF 16949: 2016 and ISO14001.

Chris Gennarino

VP, Operations

Chris has worked in natural stone and resin-based manufacturing /fabrication for twenty-four years, attended Syracuse University, MCC AA, and is CNC certified.

Michael Valle, III

VP, Operations

Mike has eighteen years operations – project management experience , fabrication and material processing, attended AMI Natural Stone Certification, and CNC-Digital Laser certified.

Senior Advisors

Richard J. Riccelli Sr.

Riccelli Enterprises, Inc.
Northern Ready-Mix Concrete

Patrick Palmer

Southern Tier Concrete Products, Inc.

Robert Simons

Surface Tech, Inc.

Terrance Bromley

Bromley Enterprises

Ken Vasile

Vasile Construction

Robert “Bud” Harrigan

Chispa Corporate Guidance

Christopher Calabrese

Corporate Counsel

Thank You

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