



VITRIFORM3D

Dr. Alex Stiles, CEO/co-founder

**Bottles to
Buildings**

SUSTAINABILITY IN ARCHITECTURE

11% of global emissions from building materials

\$110B U.S. Green Building Mat'ls market with 12% CAGR

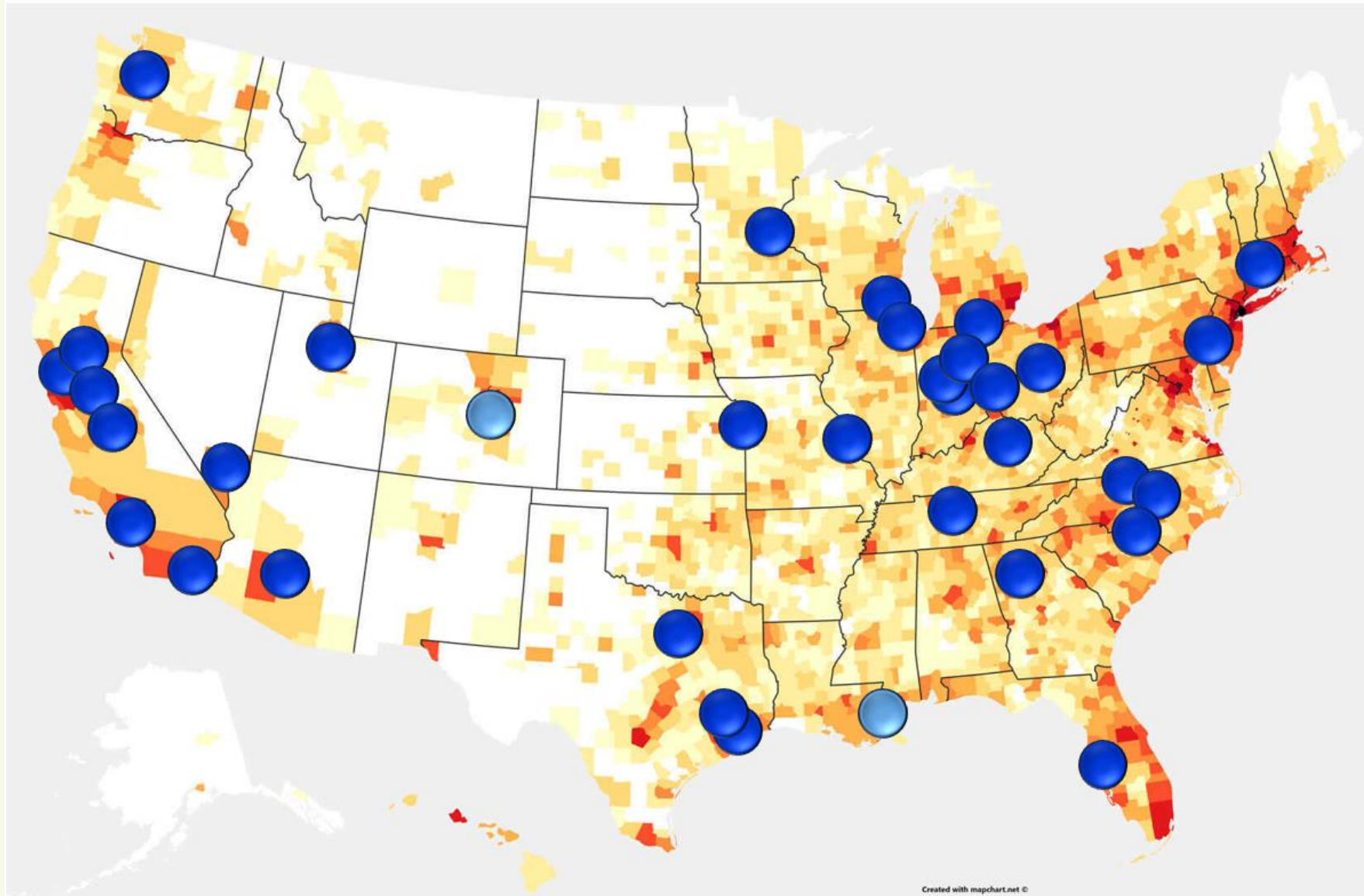


GLASS
RECYCLING
IS BROKEN

**Only 1/3
recycled
8 million
tons of glass
landfilled each
year**

2024

Glass Processing Centers vs U.S. Population Density



Created with mapchart.net ©

RECYCLED GLASS 3D PRINTING



**Cities pay to recycle
their glass waste**



**Glass crushed to
fine sand**

VITRIFORM3D

Actual printed glass tile

**3D print engineered
stone with 95% glass**

RECYCLED GLASS BUILDING PRODUCTS



Luxury Tile & Decor

- Highly customized designs (\$50-\$150/ft²)
- Looking for pilot projects

2024



Interior & Exterior Tile

- Mid-market boutique tile (\$10-\$30/ft²)
- Launch in 2025



Exterior Wall

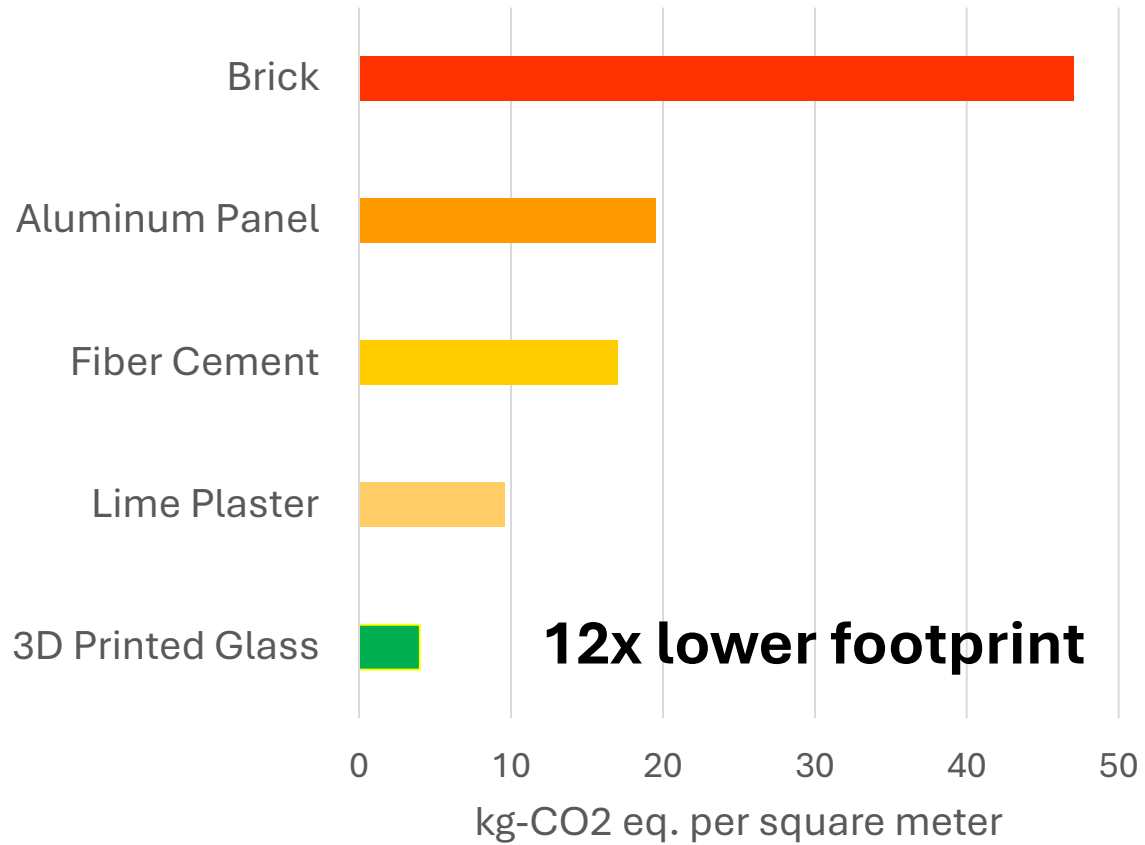
Paneling

- Mid-market commercial cladding (\$5-\$20/ft²)
- Launch in 2027

5

EMBODIED CARBON ADVANTAGE

Fire Resistant Wall Finishes



COMPETITIVE ADVANTAGE

Stone-like Materials	3D Printed Glass	Precast Concrete	Fiber Cement	Ceramic Tile	Natural Stone
Low embodied carbon	✓				✓
Locally sourced	✓	✓		✓	
Detailed 3D textures	✓	✓	✓		✓
Custom color graphics	✓			✓	
Low-cost customization	✓	✓			
Translucent	✓				✓
High bending strength	✓		✓	✓	

RECYCLED GLASS
PROTOTYPES



Backlit Signage



Custom Luxury Tile



Wall Paneling

TRACTION

- \$1.1M in non-dilutive grants
- 2024 pilot scale target:
 - 2' x 3' 3D printed panel



U.S. DEPARTMENT OF
ENERGY



LOCAL GLASS COLLECTION

- Launched November 2023
- 139 Knoxville Subscribers
- >18,000 lbs diverted from landfill
- Inquiries for 6,000,000 lbs annually in Knoxville area



HOW YOU CAN
HELP

Pilot projects

Investor introductions

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