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 Material
Bank

mM EDUCATION SESSION #5

The Role of Research, Science, and Data in Materials Decision Making

Moderator



Priya Premchandran
Habitable



Nora Rizzo
Design for Freedom



Shannon Goodman
Build Reuse



Annie Bevan
mindful MATERIALS



Thank you to our Sponsors!

National 
Gypsum®

 **Material
Bank**®

Imagine a world where....

It's easy to identify and select better materials in workflow.

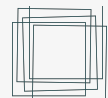
We can quantify holistic impacts of products in projects to support ESG reporting.

We can Value Buildings & Analyze Risk leveraging impact reductions

Manufacturers see a clear ROI for their sustainability investment



Our Adventure to the Regenerative Materials Economy Requires the Eas(ier) Button!



COMPANY MATERIALS DASHBOARD

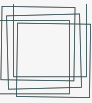
REQUIRED CRITERIA

- **HUMAN HEALTH**
 - **Substances**
 - Transparency
 - Disclosure Threshold: 100 ppm
 - 3rd Party Verified: Yes
 - Optimization
 - No PFAS
 - No Flame Retardants
 - No Antimicrobials
 - **VOCs**
- **CLIMATE HEALTH**
 - **Embodied Carbon**
 - Transparency
 - Optimization
 - CLF Baseline Level: Achievable
- **SOCIAL HEALTH & EQUITY**
 - **Company Workplace**
 - Transparency
 - Diverse Business Enterprise
 - **Supply Chain**
 - **Community**

LIBRARY OF APPROVED MATERIALS

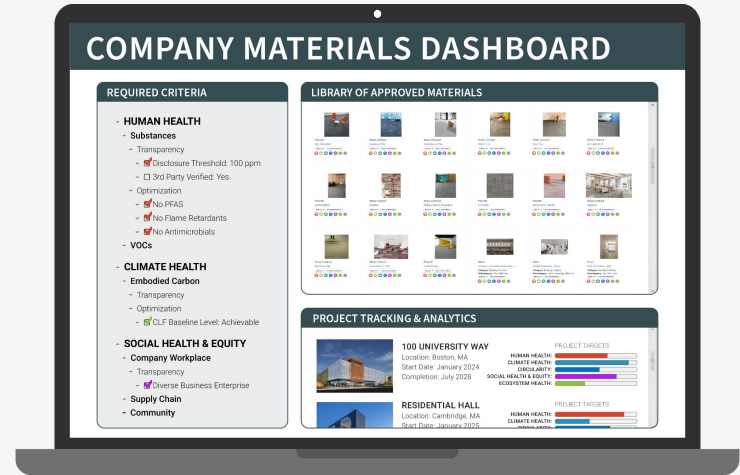
PROJECT TRACKING & ANALYTICS

Project Name	Location	Start Date	Completion	Human Health	Climate Health	Circularity	Social Health & Equity	Ecosystem Health
100 UNIVERSITY WAY	Boston, MA	January 2024	July 2028	High	Medium	Low	High	Medium
RESIDENTIAL HALL	Cambridge, MA	January 2025	-	High	Medium	Low	High	Medium



The Eas(ier) Button we are working towards:

- + Access product sustainability data in common framework in workflow
- + Overlay your materials requirements
- + Manage your materials library
- + Track materials used on projects
- + Analytics + Reporting on impacts
- + Unlock quantifiable ESG metrics to Valuate & Analyze Risk
- + Manufacturers can track ROI
- + No more disparate spreadsheet requests



A Materials Foundation: A Common Materials Language

The Common Materials Framework

Sustainability Certifications & Data, Structured for Impact.



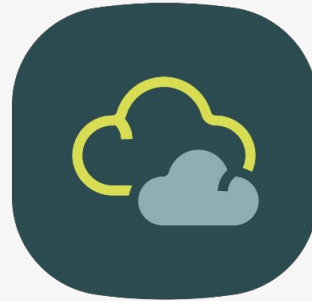
Ecosystem
Health



Social Health
& Equity



Circular
Economy



Climate
Health



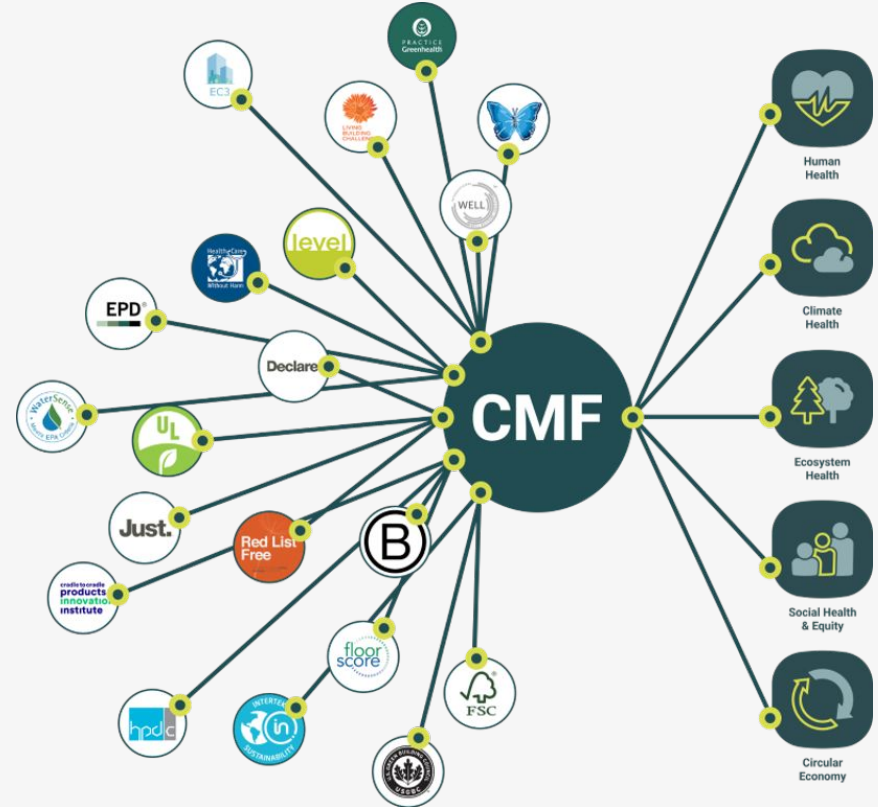
Human
Health

The Framework

The CMF analyzes and contextualizes over 150 of the most common building product and material certifications and disclosures.

The framework gives structure to over 650 data 'factors' identified within these certifications & programs, organizing them into 5 buckets of holistic sustainability.

This is the common language our industry has needed to drive accountability and momentum.

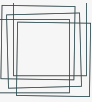




2024

mM Forum Summit

An unprecedented opportunity.



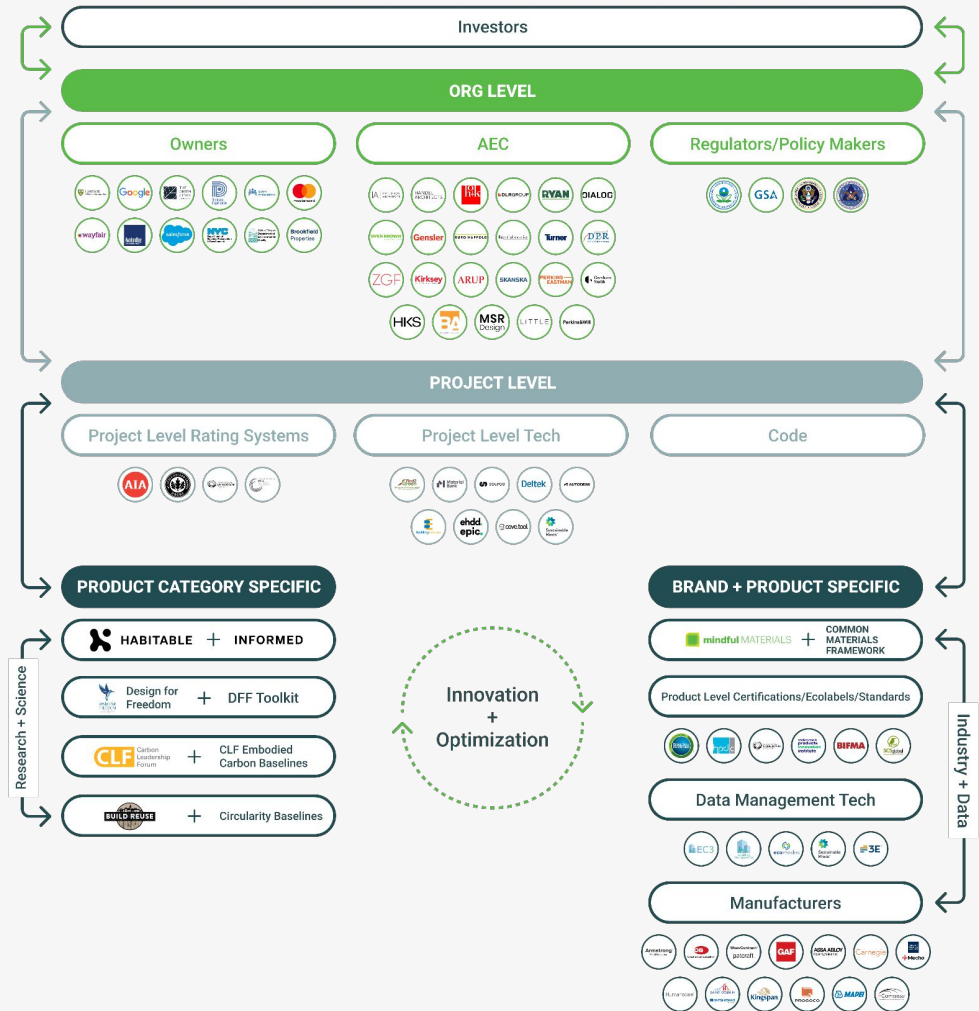
Foundational Milestone: Industry Wide Report

- + Industry Wide Communication & Awareness Resource
- + Detailed Overview of our shared Vision of Future, State of the State of the industry, Summary of Forum/Industry Efforts, Forthcoming Solutions, and Opportunity for Action
- + Milestone Marker to ensure Forums don't get too far ahead of industry



An Ecosystem Approach to Scale Change

Where research & science inform third party certifications & vice versa





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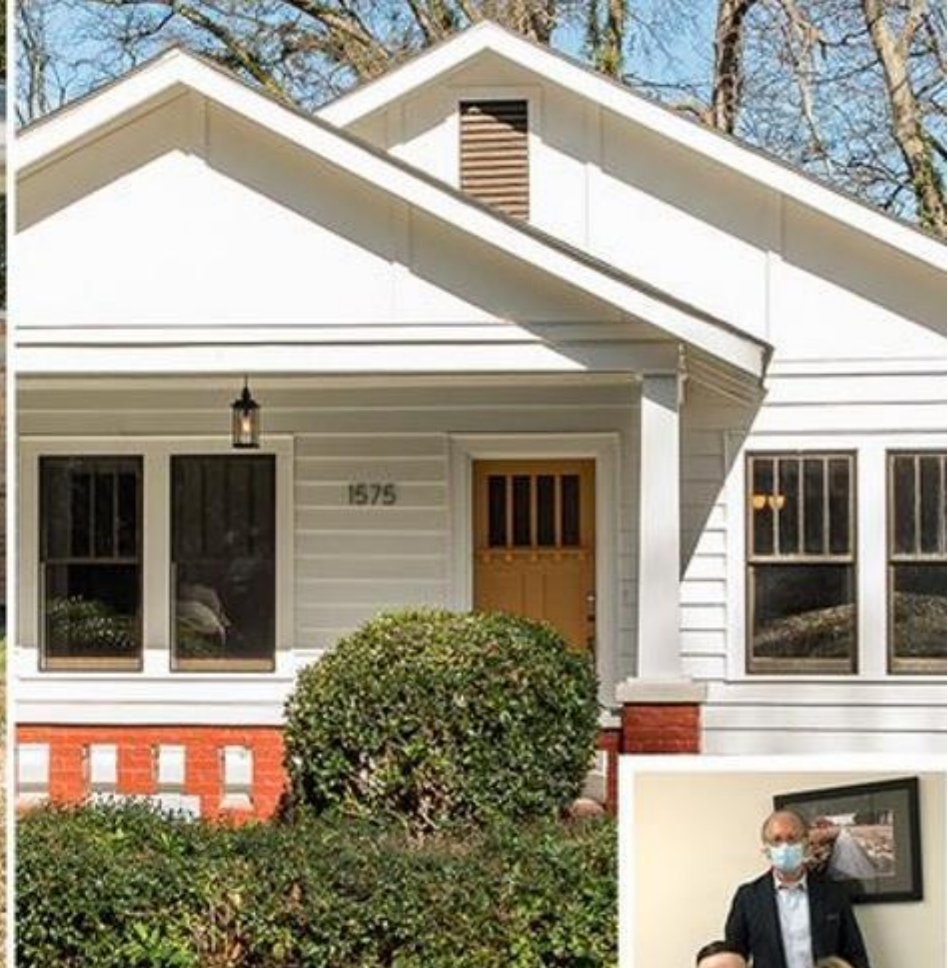
Annie Bevan
mindful MATERIALS



LIFECYCLE BUILDING CENTER



LBC REUSE CENTER & STORE



LBC NONPROFIT MATERIAL MATCH PROGRAM



LBC NONPROFIT MATERIAL MATCH PROGRAM



LBC'S OPERATIONAL IMPACT

Since beginning operations in 2011, LBC has:

DIVERTED 12.6 MILLION POUNDS OF USABLE
BUILDING MATERIALS FROM LANDFILLS

12.6 MILLION

AWARDED 425 BUILDING MATERIAL
GRANTS TO NONPROFIT ORGANIZATIONS

425 TOTAL

SAVED THE COMMUNITY OVER \$6 MILLION
THROUGH DISCOUNTED AND FREE
MATERIALS

\$6,000,000





REBUILDATL COALITION / WORKFORCE DEVELOPMENT



REBUILDATL COALITION / WORKFORCE DEVELOPMENT



KENDED A BUILDING @ GEORGIA TECH



KENDEDA BUILDING @ GEORGIA TECH



KENDED A BUILDING @ GEORGIA TECH



GA Film Lumber

- 3,840 tons annually
- 2,000 housing units

CHICKADEE

UNITS: 1
BEDROOMS: 2
BATHROOMS: 1.5
STORIES: 2
GROSS SF: 896 SF
PORCH SF: 84 SF



2ND FLOOR PLAN

1ST FLOOR PLAN

- 1 FRONT PORCH
- 2 LIVING
- 3 KITCHEN
- 4 BEDROOM
- 5 BATH
- 6 GARAGE

KRONBERG URBANISTS + ARCHITECTS
2024 HOUSING CHOICE LIBRARY

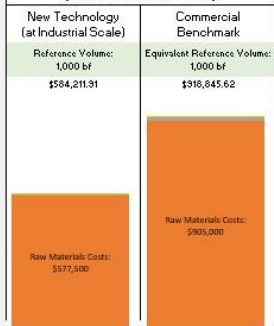


REBUILDATL: DOE RE-X BEFORE RECYCLING PRIZE

Results in charts below are in annual impact, some inputs have been scaled up from a per functional unit basis.

Cradle-to-Gate Cost / Reference Volume

Manufacturing Cost Comparison (for Reference Volume)



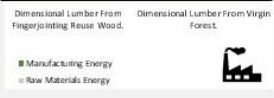
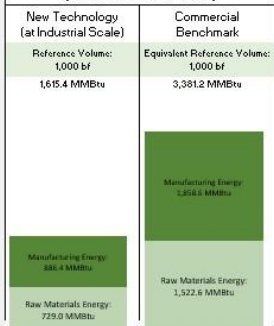
Potential Manufacturing Cost Savings per Reference Volume Manufactured:
 \$334,633.71 saved per ref. volume
 36.4% cost savings per unit of production replaced

Cost Impact Summary (Reference Volume)

Manufacturing Cost Category	Cost Savings
Capital Expenses	\$3.12
Raw Materials	\$327,500.00
Energy (Utilities)	\$1,154.75
Direct Labor	-\$24.16
Total Cost Savings	\$334,634

Cradle-to-Gate Energy / Reference Volume

Cradle-to-Gate Energy Comparison (for Reference Volume)



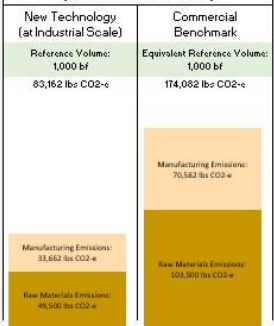
Potential Cradle-to-Gate Energy Savings
 1,765.8 MMBtu saved per ref. volume
 52.2% manufacturing energy savings per unit of production replaced

Energy Impact Summary (Reference Volume)

Life Cycle Phase	Energy Savings
Raw Materials	733.60 MMBtu
Manufacturing	372.18 MMBtu
Total Energy Savings	1,165.78 MMBtu

Cradle-to-Gate Emissions / Reference Volume

Cradle-to-Gate Emissions Comparison (for Reference Volume)



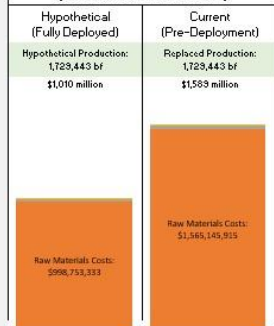
Potential Cradle-to-Gate Emissions Reduction
 90,920 lbs CO2-e saved per ref. volume
 52.2% manufacturing energy savings per unit of production replaced

Emissions (GWP) Impact Summary (Reference Volume)

Life Cycle Phase	Emissions (GWP) Reduction
Raw Materials	54,000 lbs CO2-e
Manufacturing	36,920 lbs CO2-e
Total Energy Savings	90,920 lbs CO2-e

Cradle-to-Gate Cost / Entire U.S. Market

Manufacturing Cost Comparison (for Potential U.S. Market)



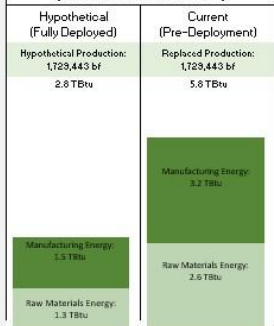
Annual Potential Cost Savings to U.S. Manufacturers:
 \$579 million saved per year
 36.4% cost savings per unit of production replaced

Cost Impact Summary (U.S. Manufacturers)

Manufacturing Cost Category	Cost Savings
Capital Expenses	\$0.0 M
Raw Materials	\$566.4 M
Energy (Utilities)	\$12.4 M
Direct Labor	\$0.0 M
Total Cost Savings	\$578.7 M

Cradle-to-Gate Energy / Entire U.S. Market

Cradle-to-Gate Energy Comparison (for Potential U.S. Market)



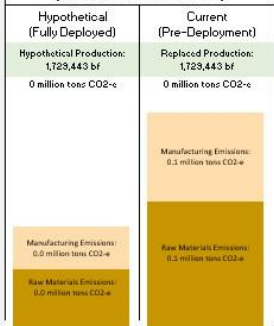
Annual Potential Life Cycle Energy Savings
 3.1 TBtu saved per year
 52.2% life cycle energy savings in affected markets

Energy Impact Summary (U.S. Market)

Life Cycle Phase	Energy Savings
Raw Mater. Embodied Energy	1.4 TBtu
Manufacturing	1.1 TBtu
Use Phase	0.0 TBtu
Total Energy Savings	3.1 TBtu

Cradle-to-Gate Emissions / Entire U.S. Market

Cradle-to-Gate Emissions Comparison (for Potential U.S. Market)



Annual Potential Life Cycle Emissions Savings
 0.1 million tons CO2-e saved per year
 52.2% life cycle emissions reduction in affected markets

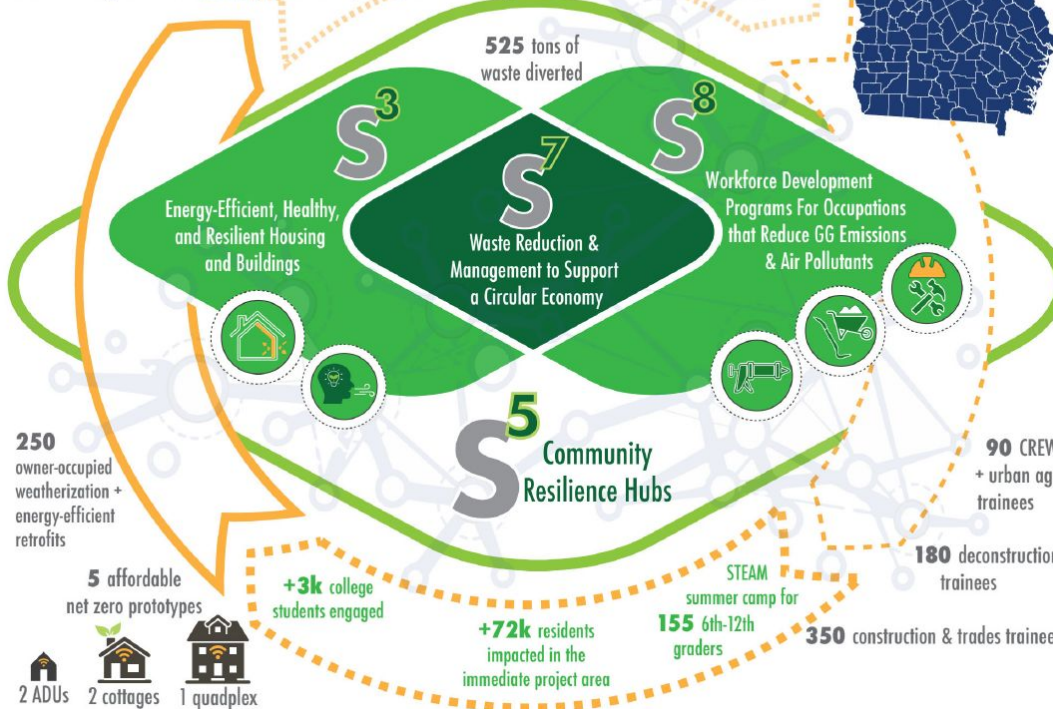
Emissions (GWP) Impact Summary (U.S. Market)

Life Cycle Phase	Emissions (GWP) Reduction
Raw Mater. Embodied Energy	0.0 million tons CO2-e
Manufacturing	0.0 million tons CO2-e
Use Phase	0.0 million tons CO2-e
Total Energy Savings	0.1 million tons CO2-e

Key
 Net Savings
 Even
 Net Increase

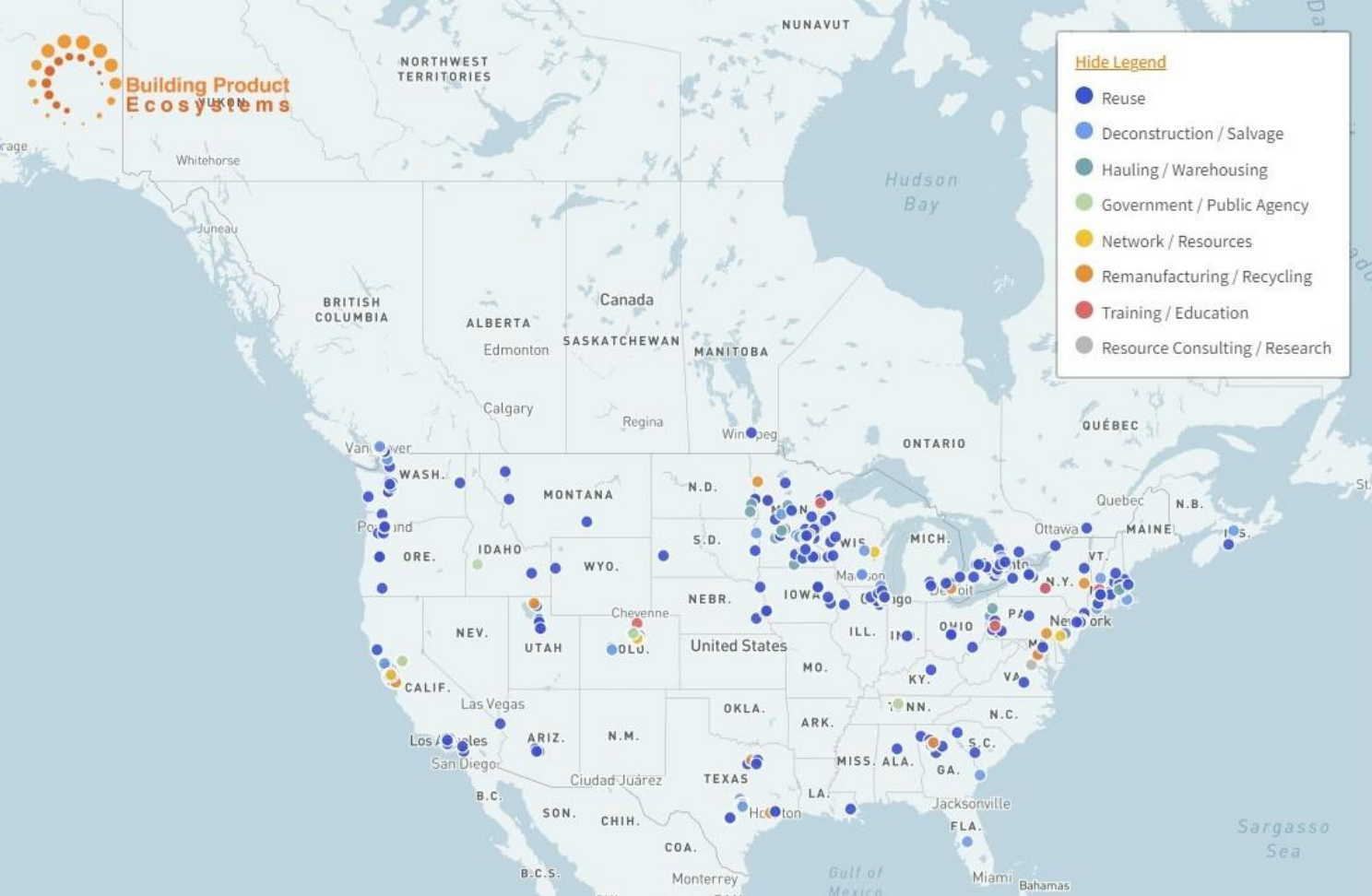
Re-SuRGE

ReBuilding a Sustainable, Resilient, Green Economy



Re-SuRGE: EPA Community Change 2025 - 2027 Targets

- 250 Owner-Occupied Weatherization & Energy-Efficiency Retrofits
- 5 Net-Zero Affordable Housing Prototypes
- 620 Individuals Trained
- 525 Tons Diverted
- 5 Resilience Hubs



Reduce Waste & Emissions



Foster New Circular Businesses



Accelerate the Rate of Change

ALL FOR REUSE – REUSE ECOSYSTEM MAP



[About](#) [Programs](#) [Members](#) [Resources](#) [Conference](#) [Find Materials](#)

**Empowering communities to turn
construction and demolition waste into
local resources.**

BUILD REUSE – EPA REDUCING EMBODIED GHG GRANT

Create

Home

Browse all

Messages

Cart

Buying / Receivi...

Selling

Reports

Collections

Saved

Filters: 1

Everywhere

Sort by: Best match

Search: carpet tile

58 listings • Page 1 of 1 | Clear filters



Carpet Tiles

\$118 • Used - Good

3000 ft² available

Roselle, NJ



Carpet Tiles

\$118 • New

10000 ft² available

Roselle, NJ



Carpet Tile

\$118 • New

1000 ft² available

Roselle, NJ



Clean Cushionback carpet tile

\$0.59 • Used - Good

8000 ft² available

Roselle, NJ



Ecoworks - Shaw Carpet Tiles

Free • Used - Like new or open box

12000 ft² available

San Francisco, CA



NIB Commercial Carpet tile 18 yr rated

\$81.00 • New

233 available

Muskegon, MI



Interface Carpet Tile - AE311 - Color: Iron

\$14.00 • New

125 available

Renton, WA



Interface Carpet Tile - Style: AE311 - Color: Smoke

\$14.00 • New

131 available

Renton, WA



Interface Carpet Tile - Style: CE172 - Color: Kimono

\$14.00 • New

125 available

Renton, WA



1000 sqft pallets of 24" Repurposed Commercial Carpet tiles

\$500.00 • Used - Good

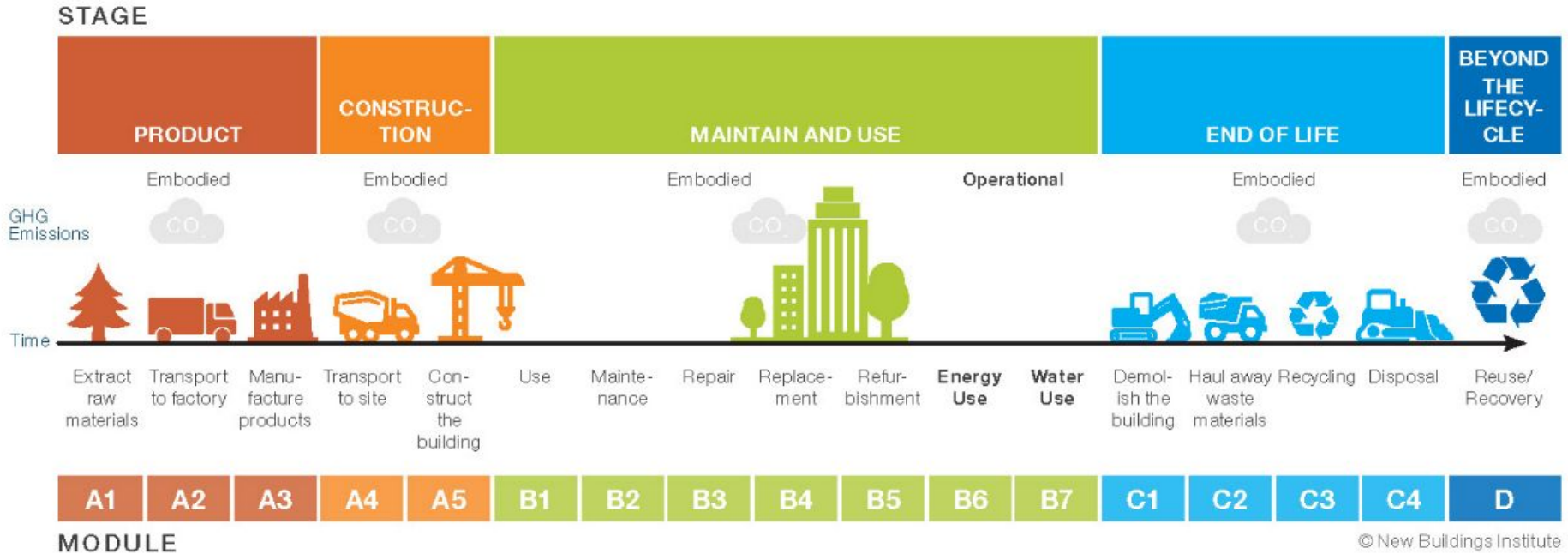
28 available

Grand Rapids, MI

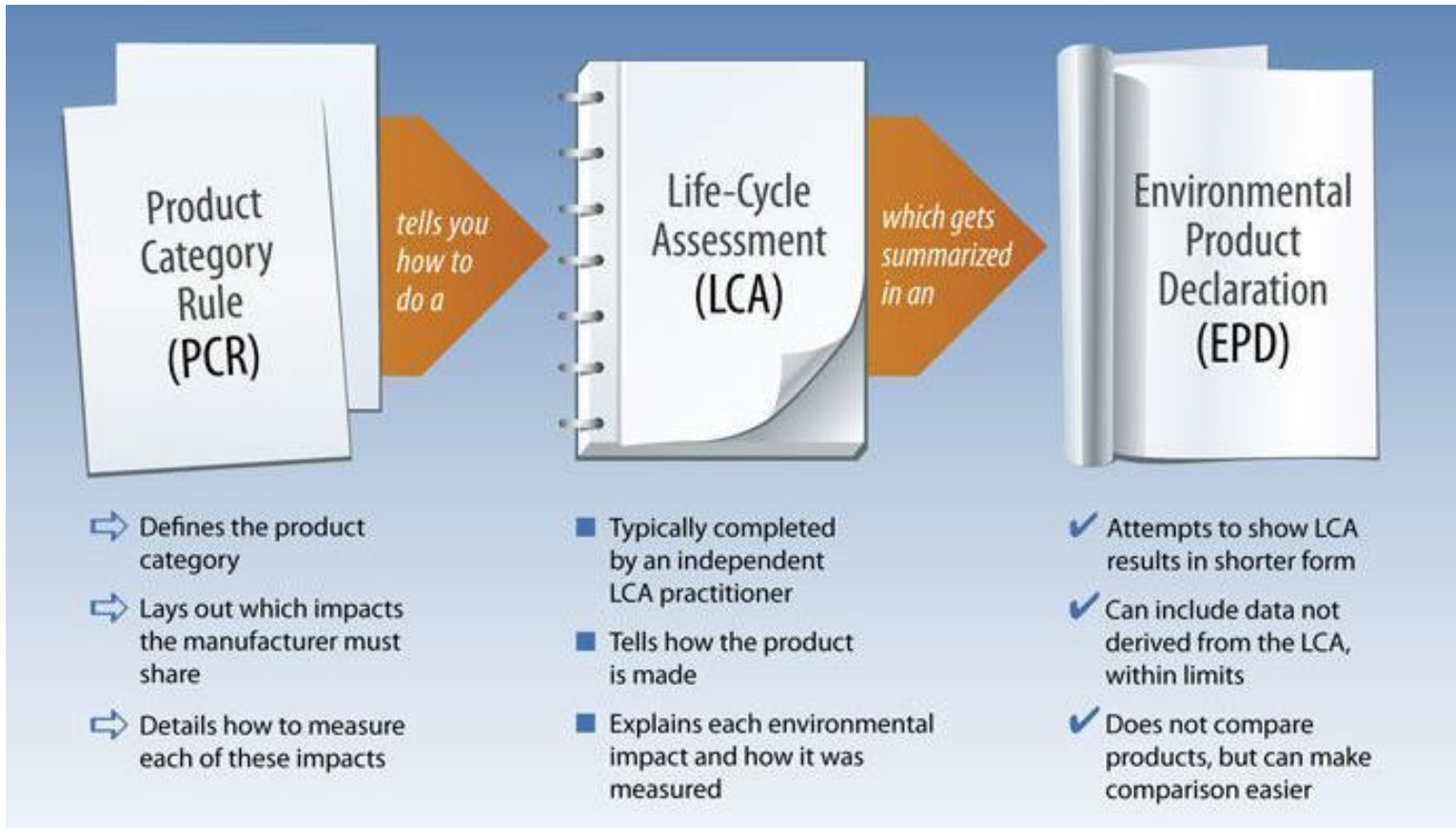
Lifecycle Building Center

FIGURE 1: LIFECYCLE STAGES

Data source: BS EN 15978:2011



BUILD REUSE – EPA REDUCING EMBODIED GHG GRANT

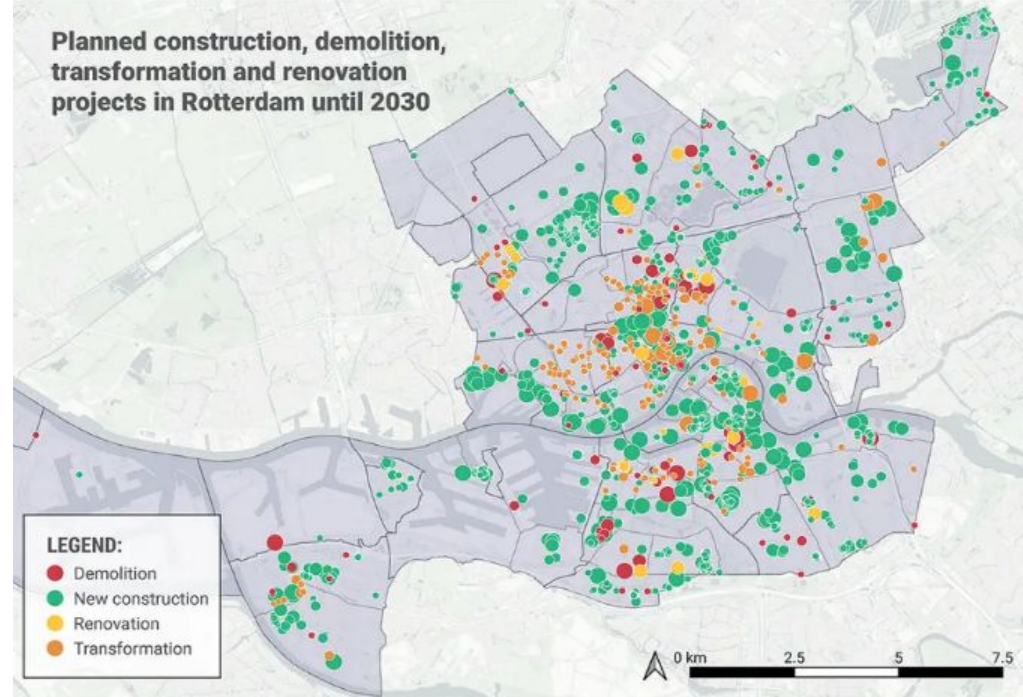


source: buildinggreen.com

BUILD REUSE – EPA REDUCING EMBODIED GHG GRANT

BUILDING REGISTRATION

cirdax.co
m



metabolic.nl/news/urban-mining-and-circular-construction/

MATERIAL "PASSPORTS" / URBAN MINING

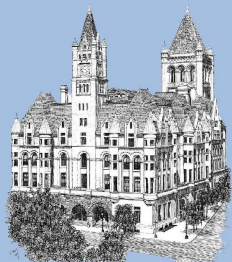


DECONSTRUCTION + REUSE CONFERENCE 2025

Bridging the Reuse Gap : from Promise to Practice
August 4-6, 2025 | St. Paul, Minnesota

Build Reuse is proud to once again present our annual Deconstruction + Reuse Conference in-person at the historic Landmark Center in downtown St. Paul, MN.

The only North American conference focused explicitly on reuse in the built environment will host people from around the world to discuss the current economic, social, and environmental challenges and solutions to making building material reuse the norm. Presentation topics include design for deconstruction, reducing embodied carbon emissions, measuring reuse data, inspiring reuse projects, policy change, reuse retail, innovative deconstruction projects and so much more!



Drawing by Roger Hall

**Information
&
Registration**



Photo Credit: John M. Phillips

2025 BUILD REUSE CONFERENCE: AUG 4-6, ST. PAUL, MN



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Advancing Health and Equity Through Better Building Products

Greenbuild 2024 | mM EDUCATION SESSION #5

Habitable believes that all people and the planet will thrive when the materials economy is in balance with earth's natural systems.

Our mission: To improve human and environmental health by creating bold, science-based solutions that inspire materials innovations to eliminate pollution, mitigate climate change, and create a more equitable future.



Healthy Materials' Newest Power Couple Present an Informed and Aligned Approach

Dec 6, 2023

Healthy Building Network (HBN) and mindful MATERIALS (mM) have teamed up to simplify selection of healthier building materials. On a recent webinar, CEOs Gina Ciganik and Annie Bevan presented renewed alignment between HBN's Informed™ approach and mM's Common Materials Framework (CMF).



Transparency + Disclosure

CURRENT STATE

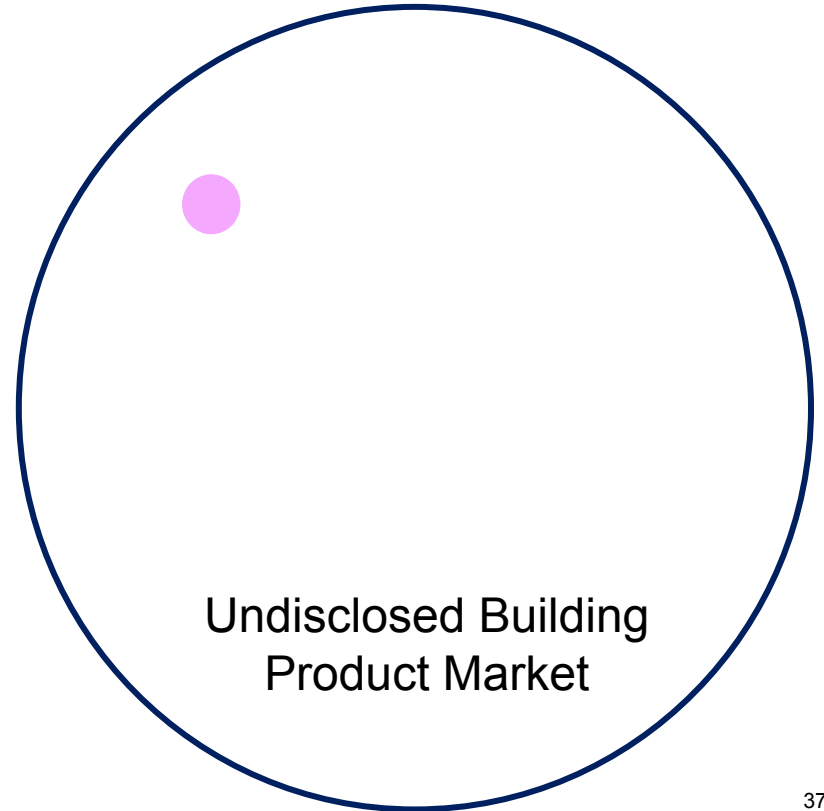
~7,000 HPDs
~1,700 Declare
~400 Cradle to Cradle



Transparency + Disclosure

LIMITED DATA

How do you make an informed decision when the product you want is not yet disclosed?



How did we get here?

1. Lack of regulation
2. Industry secrets & greenwash
3. Missing the product lifecycle view



+2.5 trillion
square feet

by 2060



Finding Healthier Building Products is Too Hard

STAFF CONSTRAINTS

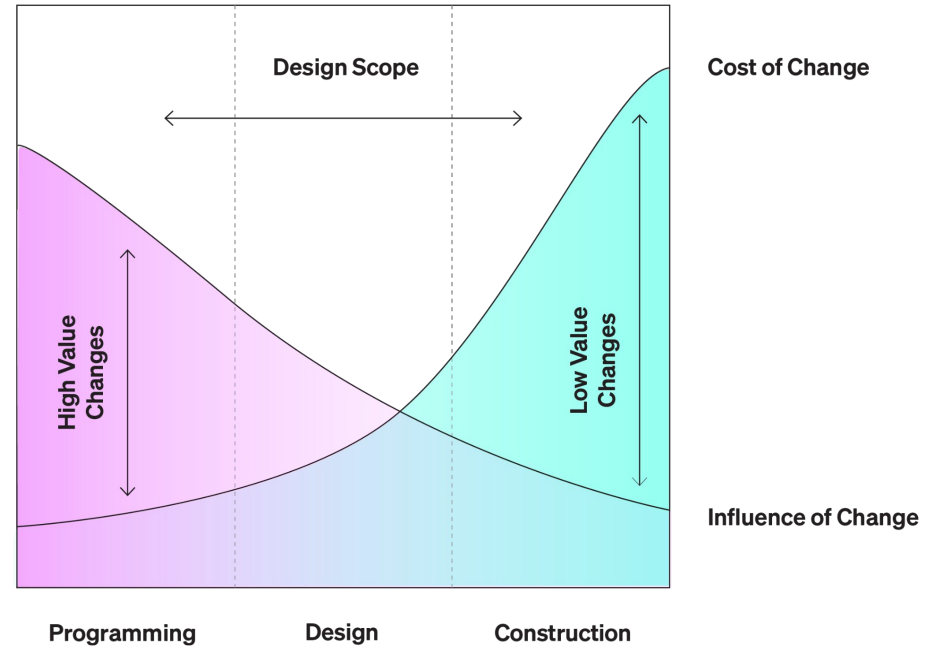
*Takes too much time, energy, and specialized expertise.
Existing tools and approaches are not scalable.*



Finding Healthier Building Products is Too Hard

LIMITED IMPACT

Decisions are often made too late in the design process, beyond the tipping point where real impact can be made.



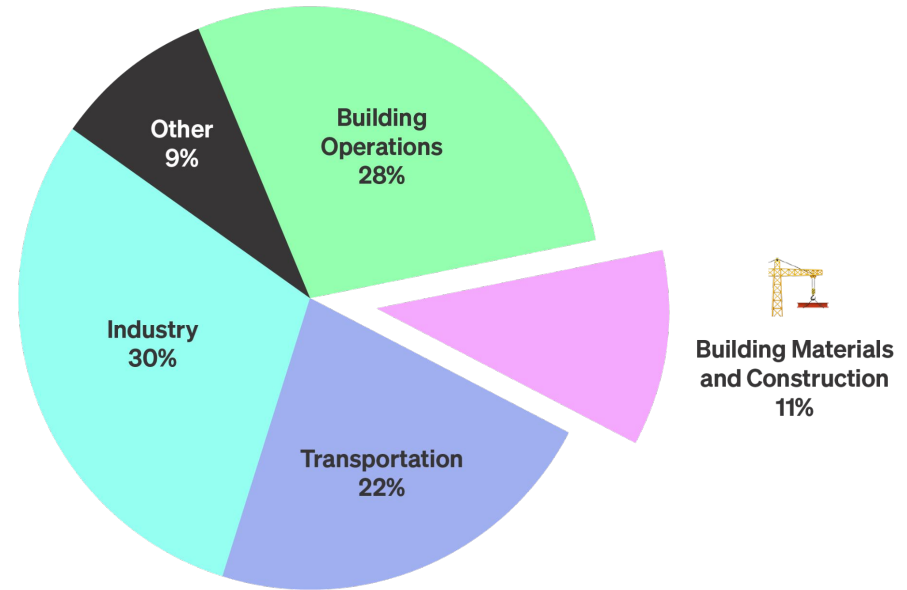
Finding Healthier Building Products is Too Hard

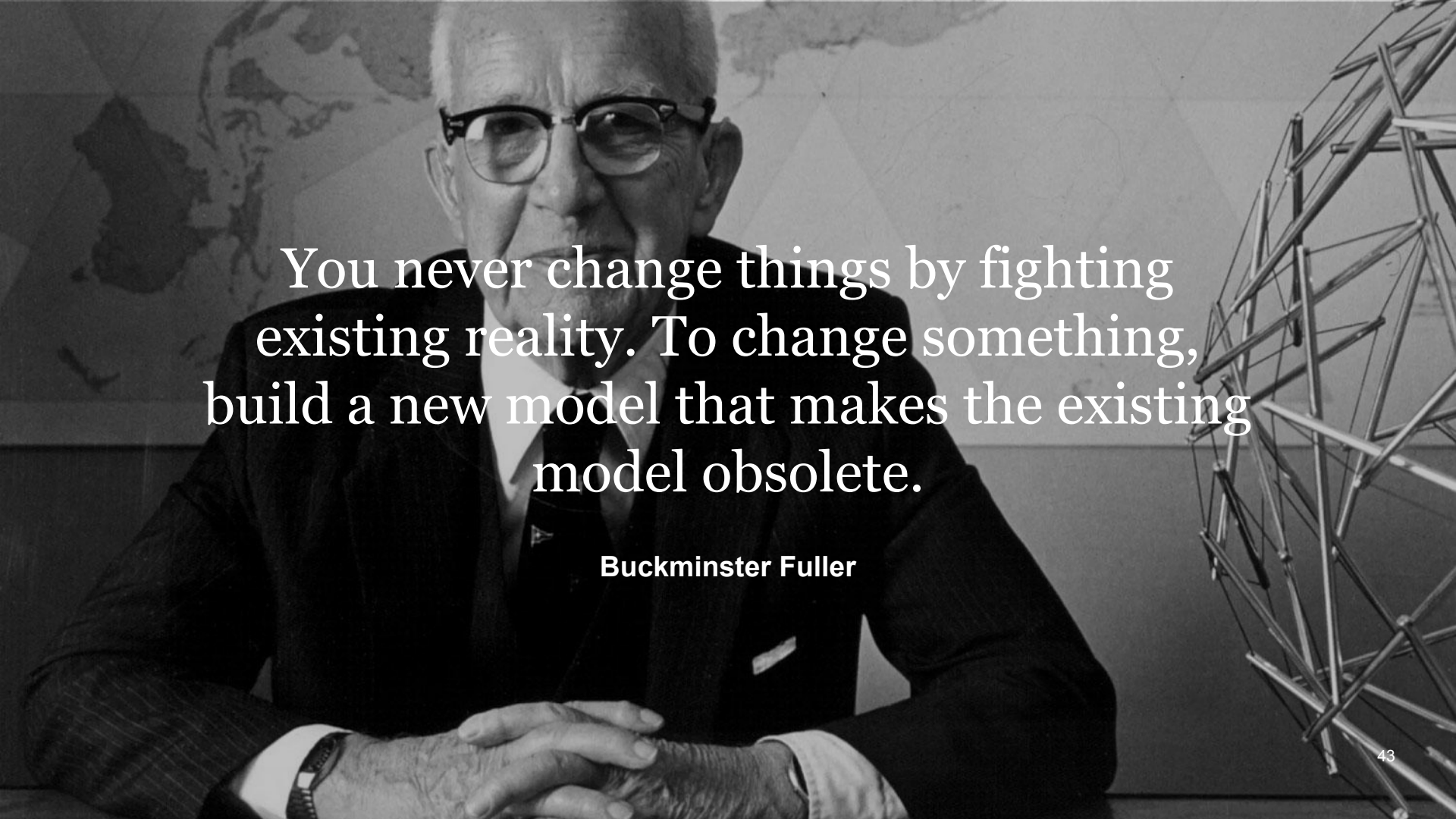
NO BUSINESS CASE

Carbon and climate goals often overshadow concerns about material health.



Global CO₂ Emissions by Sector





You never change things by fighting
existing reality. To change something,
build a new model that makes the existing
model obsolete.

Buckminster Fuller

We need a
new system.



InformedTM

Science-based materials modeling for healthy material selection.

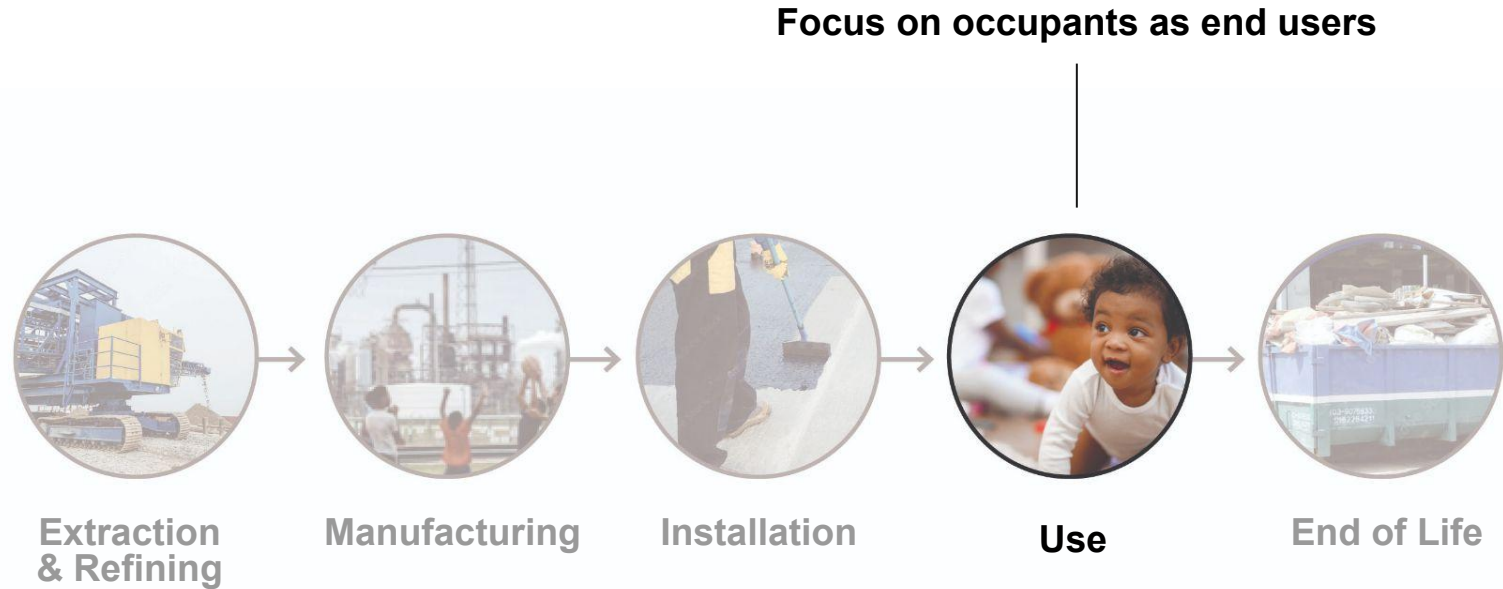


InformedTM Materials Modeling

Our mission: To empower everyone with science based, data driven information to choose materials with positive impact on human health, climate and environmental justice throughout the building lifecycle.



Certifications & Standards Have a Limited View



Certifications & Standards Have a Limited View

“It’s not healthy unless it’s healthy for all.”

Informed™ takes into account health impacts across the entire product lifecycle.

This allows you to confidently make decisions that are better for all people and our planet.



**Extraction
& Refining**



Manufacturing



Installation



Use



End of Life



Reduce Disproportionate Harms

People of Color

Low-Income Populations

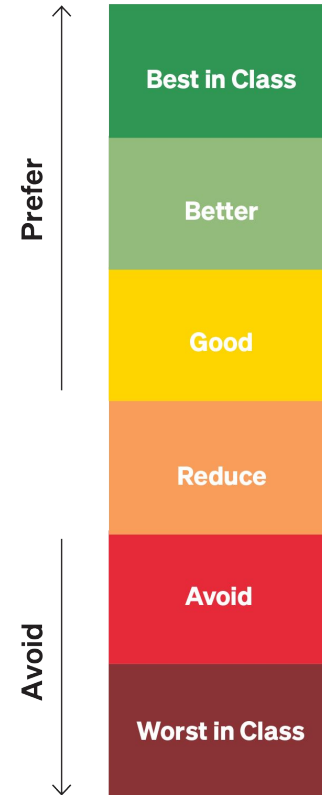
Children



Informed™—Scientific Rigor, Easy to Use

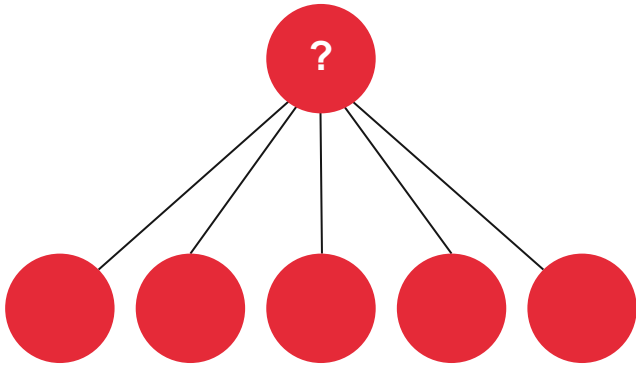
CREDIBLE, ACTIONABLE, SCALABLE

Simplifying product selection through an intuitive ranking system of product types.



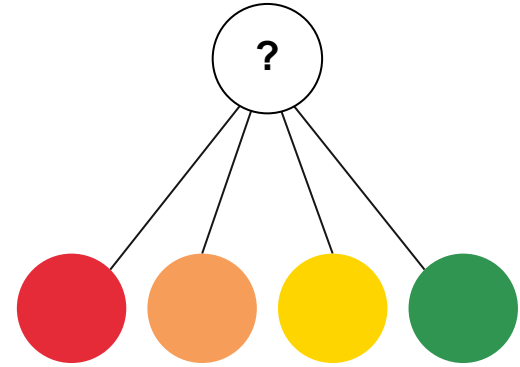
Start With the Right Question

Which vinyl should I use?



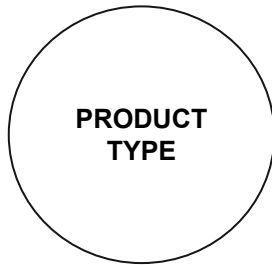
Spoiler Alert! **Red** is **Red**.

What are healthier flooring types?



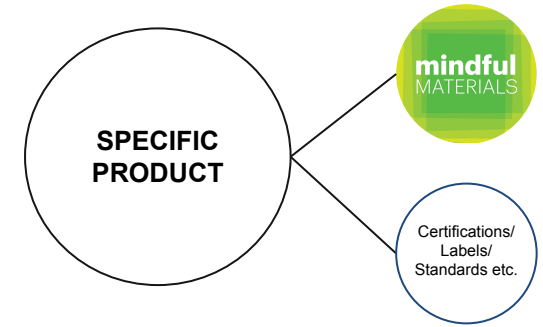
Then Narrow Down Your Selection

Step 1: Based on independent science



Use Informed™ 's red-to-green color ranking to identify product types that are healthier for people and the planet.

Step 2: Based on trusted industry information

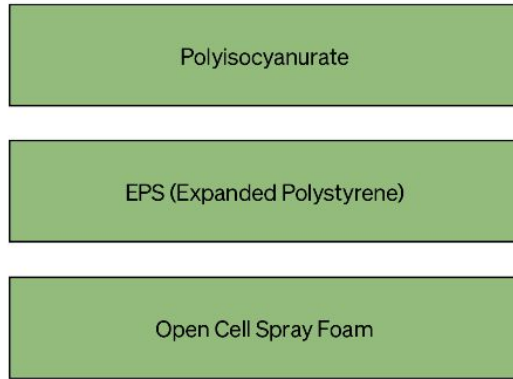


Of the product types selected, choose a specific product that meets your needs.

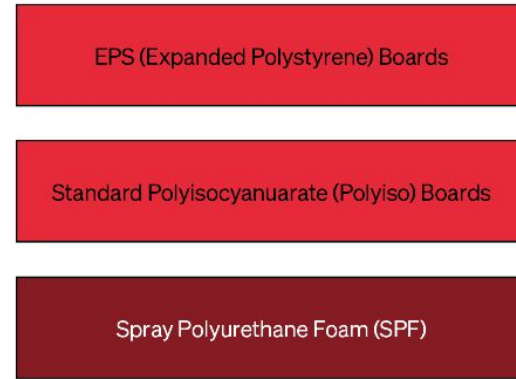


Carbon/Health Conflict: Insulation

Embodied Carbon Product Guidance



Habitable Material Health Product Guidance



Steps to improve embodied carbon can **negatively impact material health** or vice versa



Available Across 17 Product Categories and Growing



Why Informed™?



Don't need to be an expert.

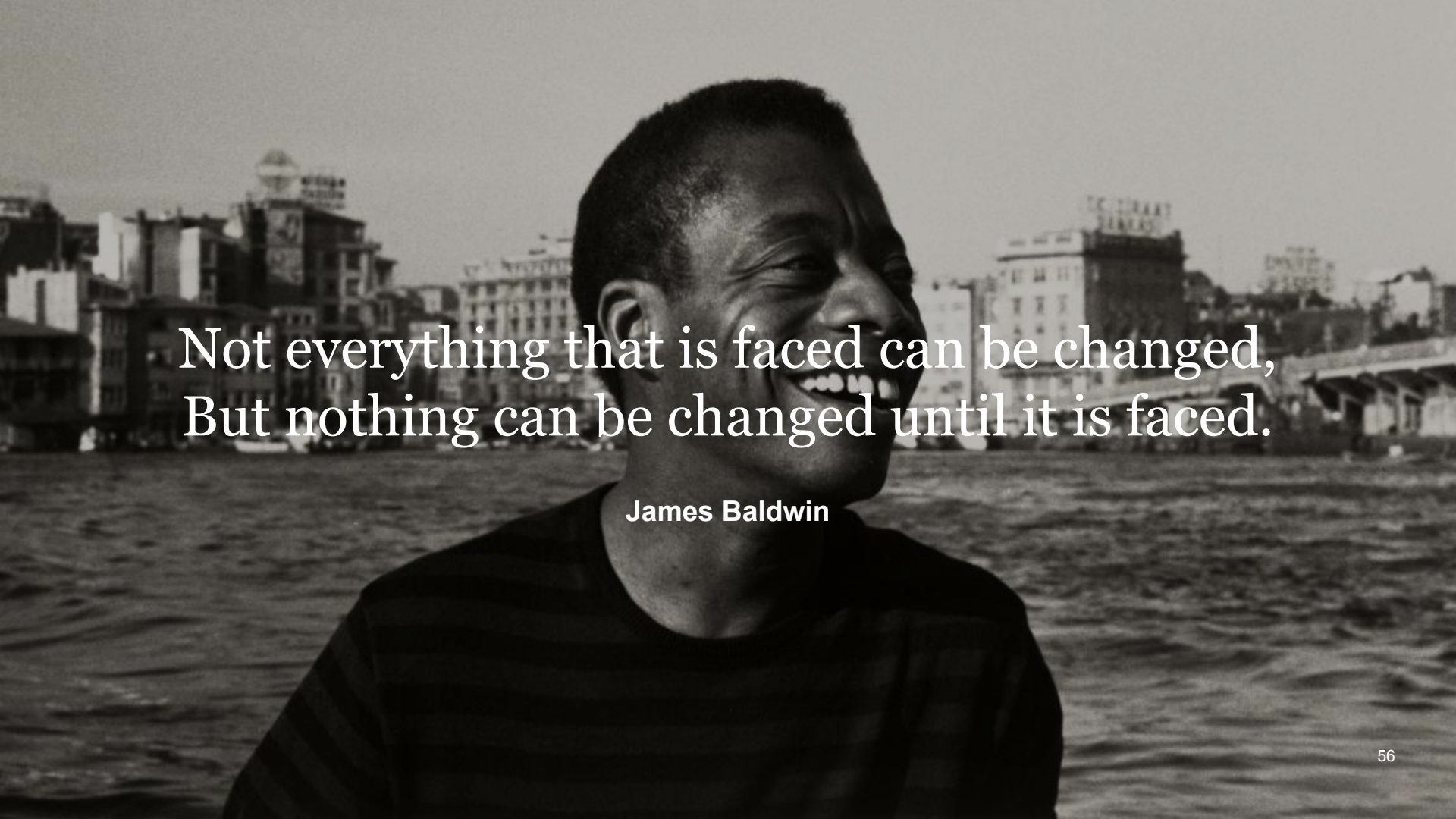


Easy to understand: avoid products in the red, prefer yellow and above.



Make decisions earlier, with more impact.

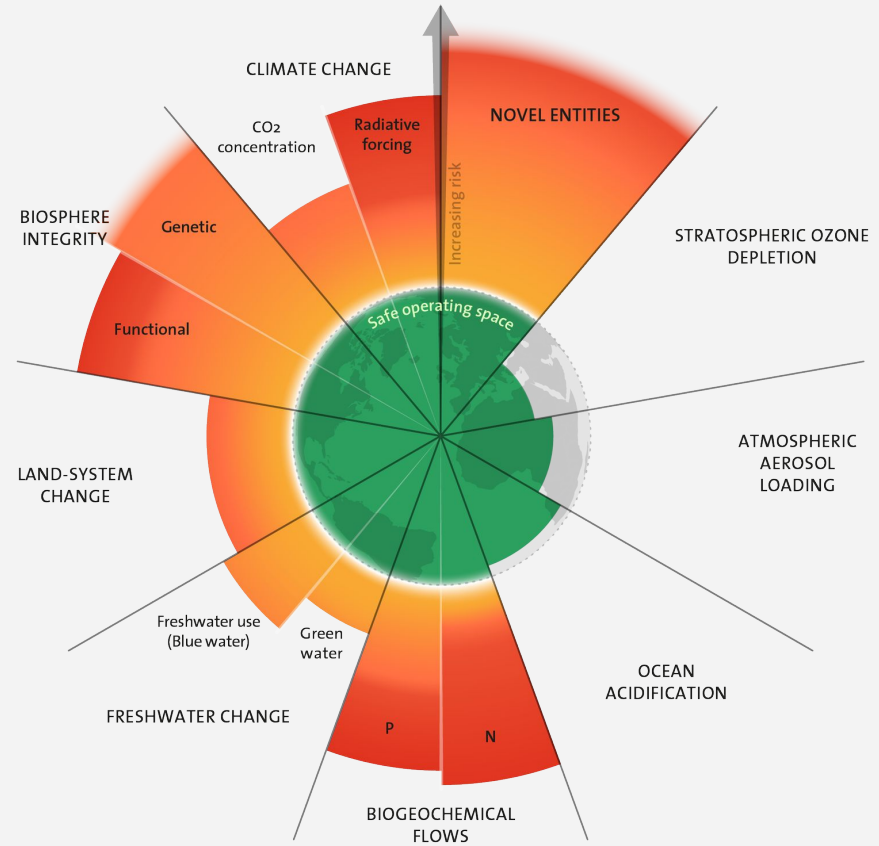




Not everything that is faced can be changed,
But nothing can be changed until it is faced.

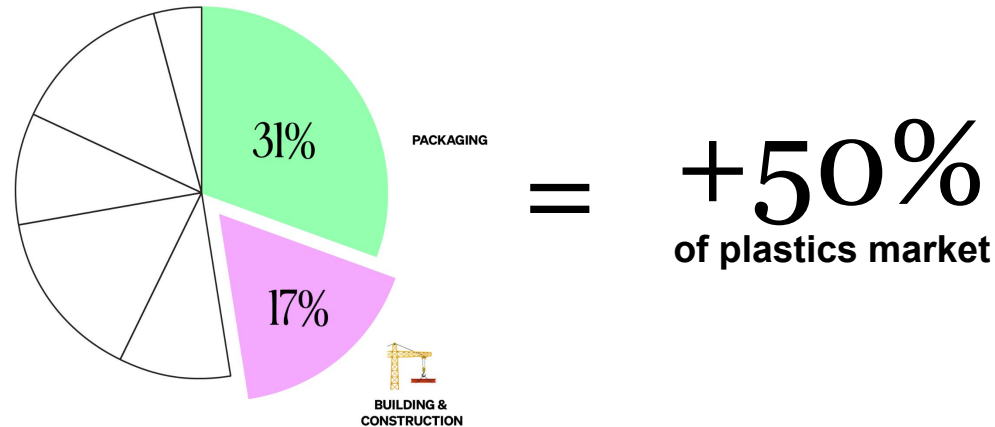
James Baldwin

6 of 9
planetary boundaries
have been exceeded



Our Disposable Plastic Buildings

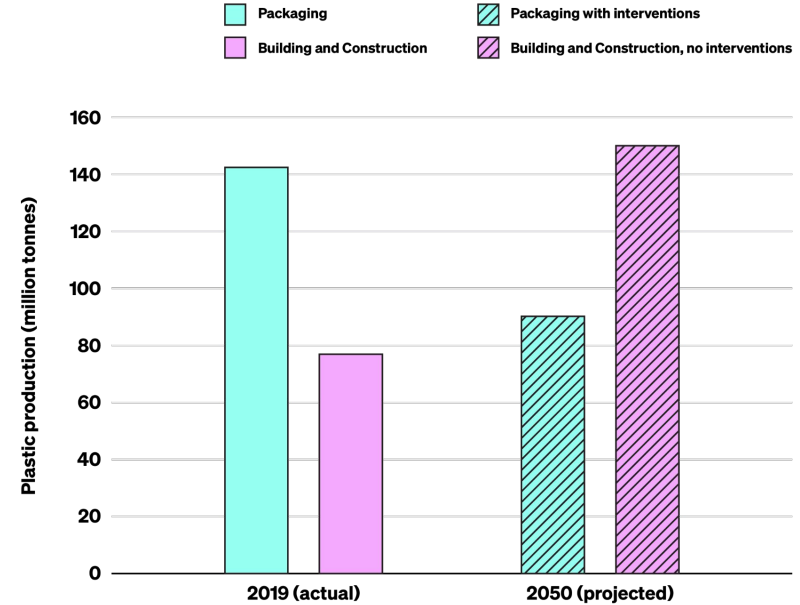
Building and construction is the second-largest consuming sector of plastics, which are almost exclusively derived from fossil fuels, a major contributor to climate change.



Replacing
one problem
with another



Source: OECD (2022), *Global Plastics Outlook: Policy Scenarios to 2060*, OECD Publishing, Paris, <https://doi.org/10.1787/aa1edf33-en>.
Becque and Sharp. Phasing Out Plastics: The Packaging Sector (2020). ODI report. <https://odi.org/en/publications/phasing-out-plastics-the-packaging-sector/>



Plastic Waste from Carpet



=



1.2 million tons
of plastic in carpet discarded
in the U.S. each year
1.1 MILLION TONNES

**All plastic water bottles,
bags, and straws**
used in the U.S. each year



Informed™ Analysis—Plastic in Carpet

Informed™ Product Guidance Rankings	Approximate % Plastic
Linoleum	1%
Solid Wood Floor (pre finished)	2%
Concrete (no finish/accessories or only densifier without PFAS)	0%
Ceramic Tiles (no added lead)*	0%
Solid Wood Floors (site-finished)	2%
Cork Floors (pre-finished)	15%
PVC-free Resilient Flooring	30%
Engineered Wood Floors (pre-finished)	4%
Rubber or Rubber/Cork Floors made without tire-derived crumb rubber)	29%
Laminate	16%
Carpet (with no fly ash, no vinyl or polyurethane backing, and no PFAS)	62%
Engineered wood floors (site-finished)	4%
Vinyl Floors (no phthalates or hazardous recycled content)	23%
Rubber or Rubber/Cork Floors (made with tire-derived crumb rubber)	29%
Carpet (containing fly ash, vinyl or polyurethane backing and PFAS)	62%
Vinyl Floors (containing phthalates, hazardous stabilizers, and hazardous recycled content)	23%

Carpet (with no fly ash, no vinyl or polyurethane backing, and no PFAS)

62%



What Do These Numbers Mean?

Source: EPA, US estimates 40 million tons of municipal plastic waste was generated in the US in 2021, [Toxic Free Future](#)

33

Coal plants offline for one year



50%

Total plastic waste generated in the US in one year



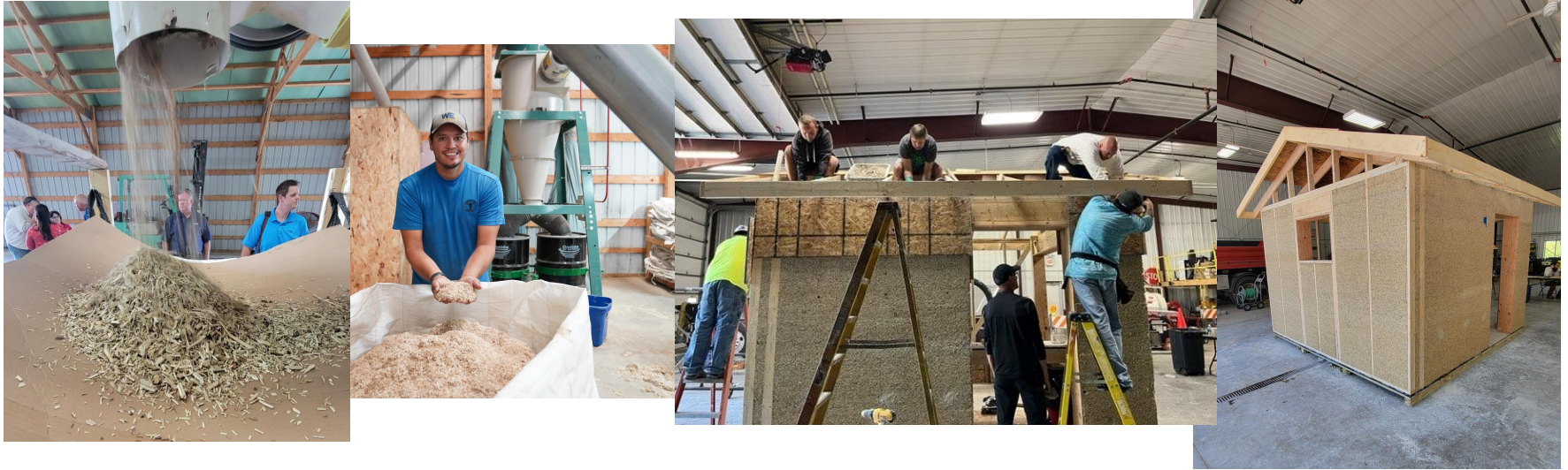
45,000

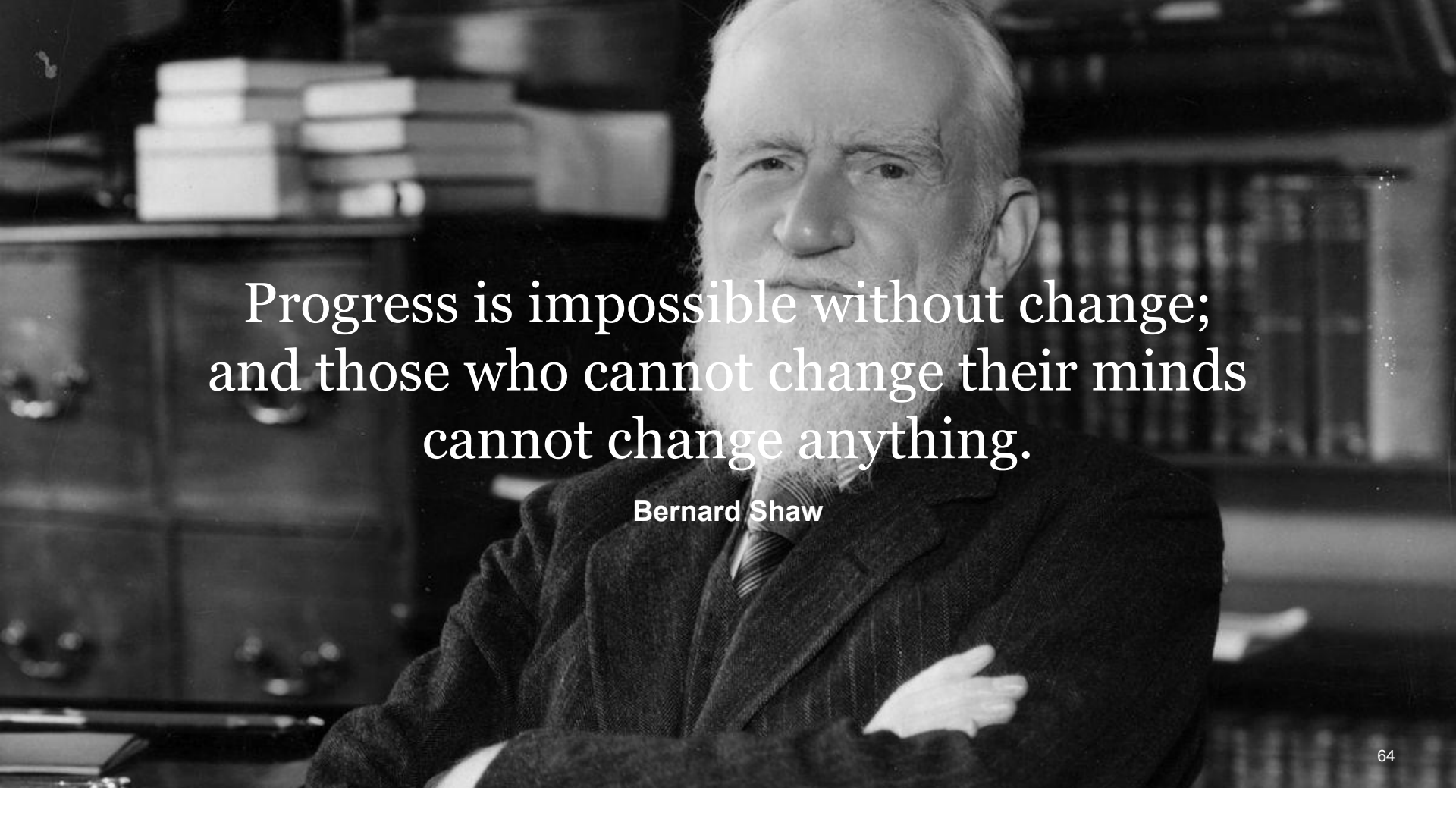
Rail cars full of vinyl chloride out of our communities



Product Innovation: Hempcrete

Lower Sioux Indian Community | Morton, MN





Progress is impossible without change;
and those who cannot change their minds
cannot change anything.

Bernard Shaw

Take Action

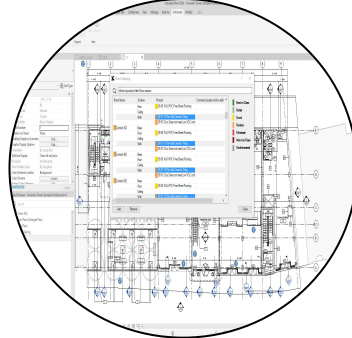


How Are Teams Using Informed™ Today?



Community of Practice

Housing, Healthcare,
Education, Workplace



Workflow Process & Tools

Revit Plug-in,
Specification Language,
Materials Library



Third-Party Standards

Innovation Credit

Trusted by Industry Leaders



Trusted by Sustainability Experts



“Knowing that Informed™ product guidance is not influenced by manufacturers helped make it a more credible resource.”

Lona Rerick
Sustainable Materials Leader, ZGF



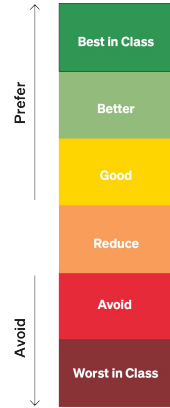
A black and white photograph of Margaret Mead. She is seated, looking slightly to her left with an engaged expression. She is wearing a dark, short-sleeved button-down shirt. Her hands are raised and gesturing as if in the middle of a conversation or presentation. To her left is a large, vintage-style microphone with a prominent grille. The background is a plain, light-colored wall with a subtle grid pattern.

Never doubt that a small group of thoughtful,
committed citizens can change the world; indeed,
it's the only thing that ever has.

Margaret Mead

Get Involved

Commit to step up from red on your next project.



Join a pilot project.



Revit



Get in touch to learn more.



Join Us!

 <p>Hidden in Plain Sight: Building Products' Contribution to Global Plastic Pollution</p>	 <p>NOVEMBER 19, 2024 12PM EST VIRTUAL</p>
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Hidden in Plain Sight: Building Products' Contribution to Global Plastic Pollution

As the second-largest consumer of plastics globally, the building industry has a crucial role to play. Discover actionable solutions to drive meaningful change today!



Thank you.

Priya Premchandran

premchandran@habitablefuture.org



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 Material
Bank

mM EDUCATION SESSION #5

The Role of Research, Science, and Data in Materials Decision Making



Priya Premchandran
Habitable



Nora Rizzo
Design for Freedom



Shannon Goodman
Build Reuse



Annie Bevan
mindful MATERIALS

Moderator



grace farms



grace farms



grace farms



grace farms



Our humanitarian work to **end modern slavery and foster more grace and peace in our local and global community** includes leading the Design for Freedom movement to eliminate forced labor in the building materials supply chain.

Grace Farms' SANAA-designed site breaks down barriers between people and across sectors.

The built
environment has a
relationship with
nature and people

Is your building
ethically sourced,
forced labor-free, as
well as sustainably
designed?



design for FREEDOM
by grace farms

Addressing on-site
labor is only half of
the equation

Forced labor in the
building materials
supply chain must
also be addressed

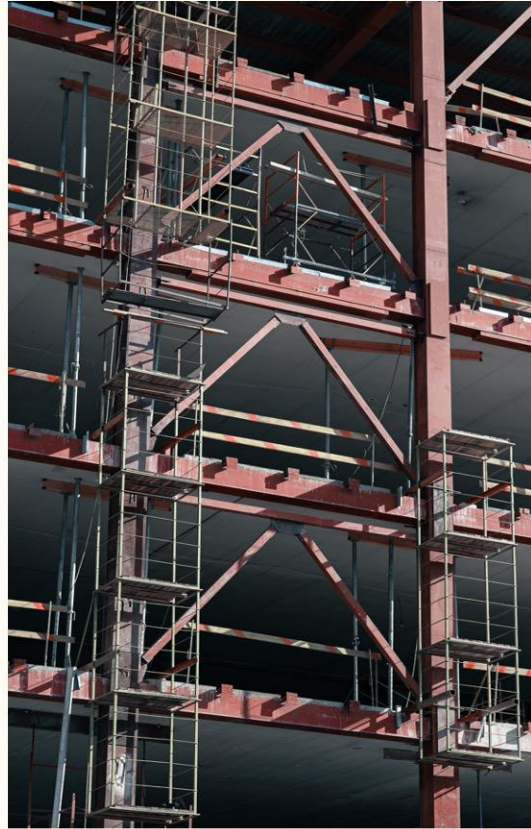


© Grace Farms Foundation



design for FREEDOM
by grace farms

Construction is one of the largest global industrialized sectors at the **highest risk of forced labor**



\$236 billion
annual dollar value of the modern slavery criminal industry worldwide

\$63 billion
goods made with forced labor

\$13.7 trillion
construction-related spending globally (USD)

12 materials
(raw and composite) at highest risk of forced labor in buildings

© Walk Free | Global Slavery Index 2023



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by grace farms



28 million People Are Trapped In Forced Labor Today



What is Modern Slavery?



Modern slavery is defined as situations of exploitation that persons cannot refuse or leave because of threats, violence, coercion, deception, and/or abuse. (ILO)

- Forced Labor
- Debt Bondage
- Forced Marriage
- Child Soldiers
- Human Trafficking
- Child Labor





Design for Freedom Principles

1

Find and address
embedded forced labor

2

Pursue ethical
decarbonization

3

Prioritize
circularity



Report

expert industry analysis



Toolkit

sourcing strategies resources



Case Studies

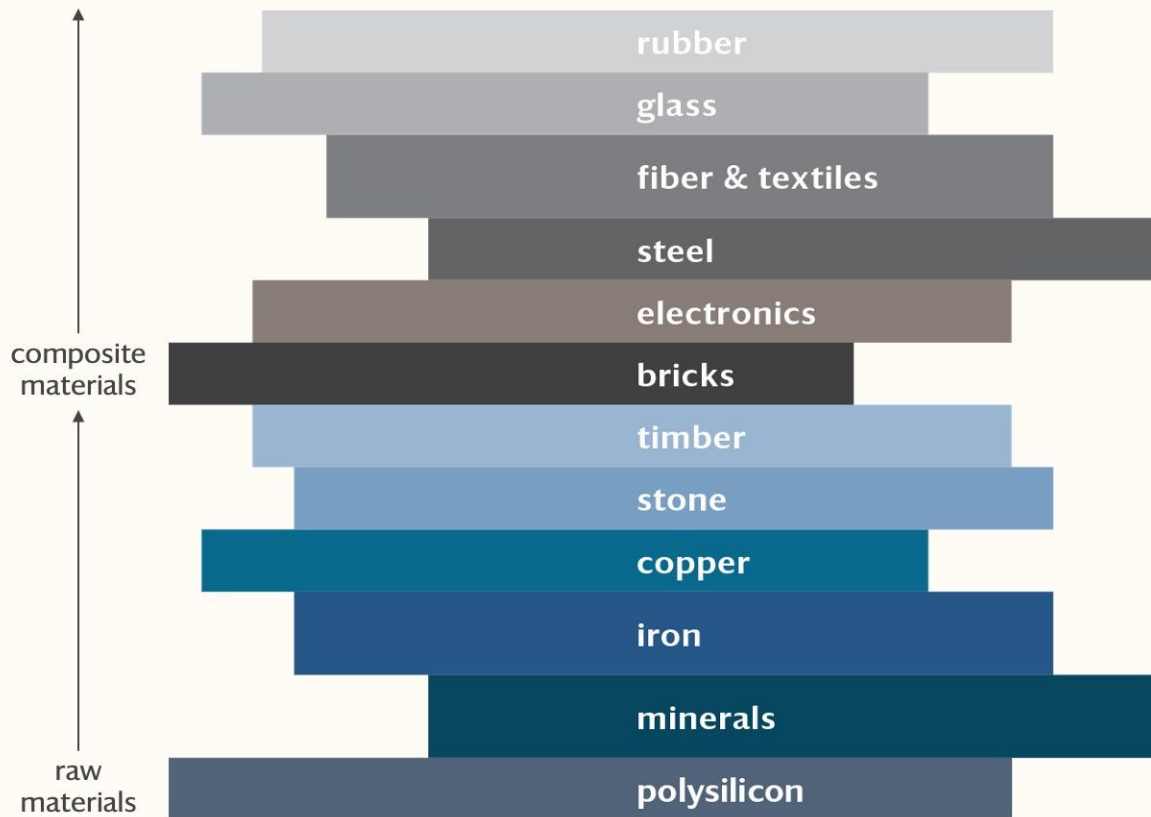
completed pilot projects

What
are the
Riskiest
Products?



Raw and Composite Materials at the Highest Risk of Embedded Slavery

Refer to *Design for Freedom Toolkit* for in-depth analysis



Source: Verité *Commodities Atlas* and the U.S. Department of Labor's List of Goods Produced by Child Labor or Forced Labor, Grace Farms analysis



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Design for Freedom International Guidance and Toolkit 2024



Design for Freedom | Pilot Project Locations 2024

United States

Newark, NJ
New Canaan, CT
New York, NY
Wappingers Falls, NY



Bigfork, MT
Charlottesville, VA
Chicago, IL
Dallas, TX



England
London

India
Jodhpur
New Delhi

Case Studies

Design for Freedom is a movement to create a radical paradigm shift to remove forced labor from the building materials supply chain





Shadow of a Face

Nina Cooke John
Harriet Tubman
Monument

Newark, New Jersey
2,163 SF
Opened March 2023



Humanscale Showroom

Suchi Reddy
Humanscale
The Sheward Partnership

Chicago, Illinois
4,000 SF
Opening 2024



Bigfork Library

Cushing Terrell
Imagine IF Foundation

Bigfork, Montana
6,000 SF
Opening 2024



Karsh Institute of Democracy

Höweler + Yoon
Hanbury Architects
Hourigan Construction
University of Virginia

Charlottesville, Virginia
65,000 SF
Opening 2026

Pilot Project RFP Launch

Submission Due: December 16, 2024



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Design for Freedom **Office Hours**



First Thursday of Every Month

Join **Nora Rizzo**, LEED AP BD+C, WELL AP, LFA and **Brigid Abraham**, AIA, LEED GA, WELL AP, on Zoom

- Learn more about the movement
- Integrate best practices
- Meet other industry professionals
- Discuss the Pilot Project process



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Design for Freedom Summit 2025

March 27, 2025

Design for Freedom
Summit 2025
Scan to Register



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Once you know, you can't unknow it,
now there is a **duty to act**



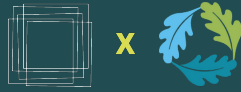
We all have the agency to design
for freedom



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Q+A



Thank you!

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