

DEVELOPING A MASS TIMBER ECOSYSTEM IN MICHIGAN, U.S. GREAT LAKES REGION, AND BEYOND

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Puupäivä by PuulInfo
30 October 2025; Helsinki, Finland

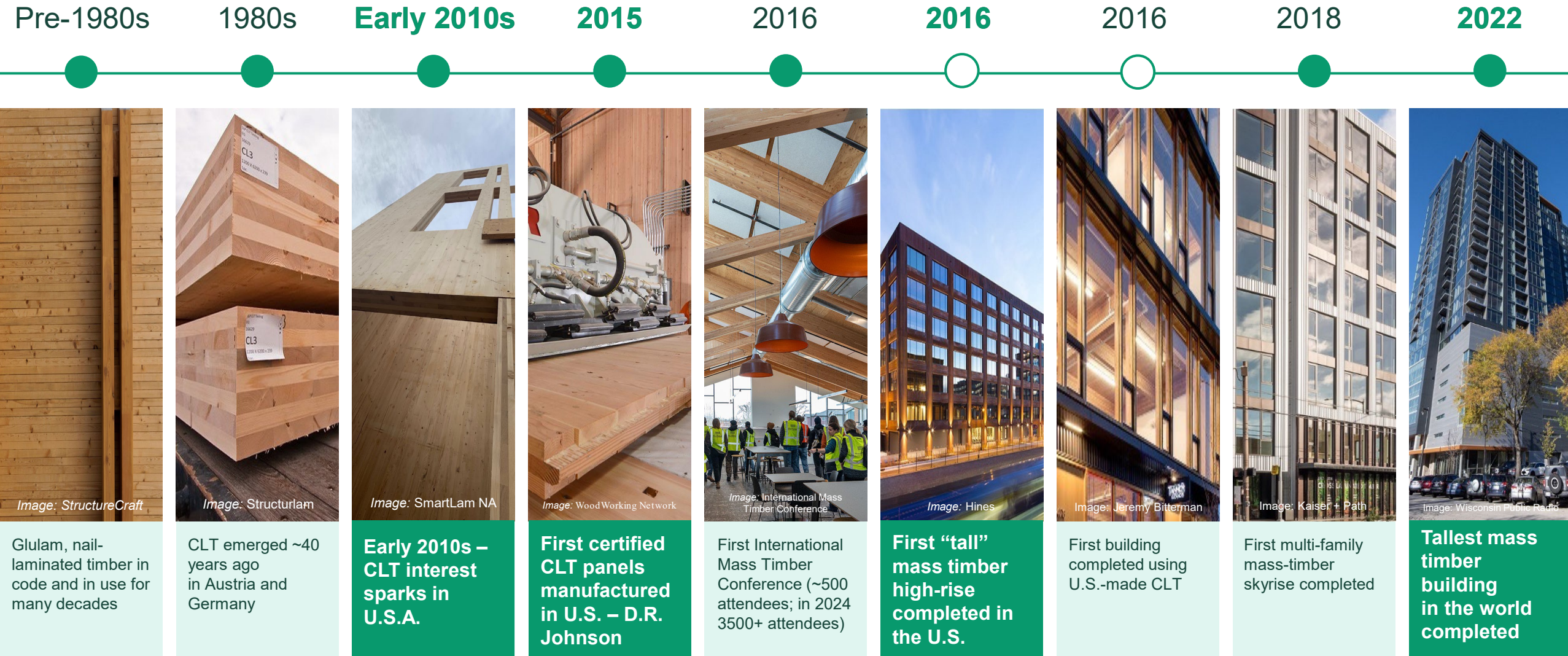


UNIVERSITY OF
EASTERN FINLAND



FULBRIGHT FINLAND
FOUNDATION

U.S.A. MASS TIMBER MILESTONES



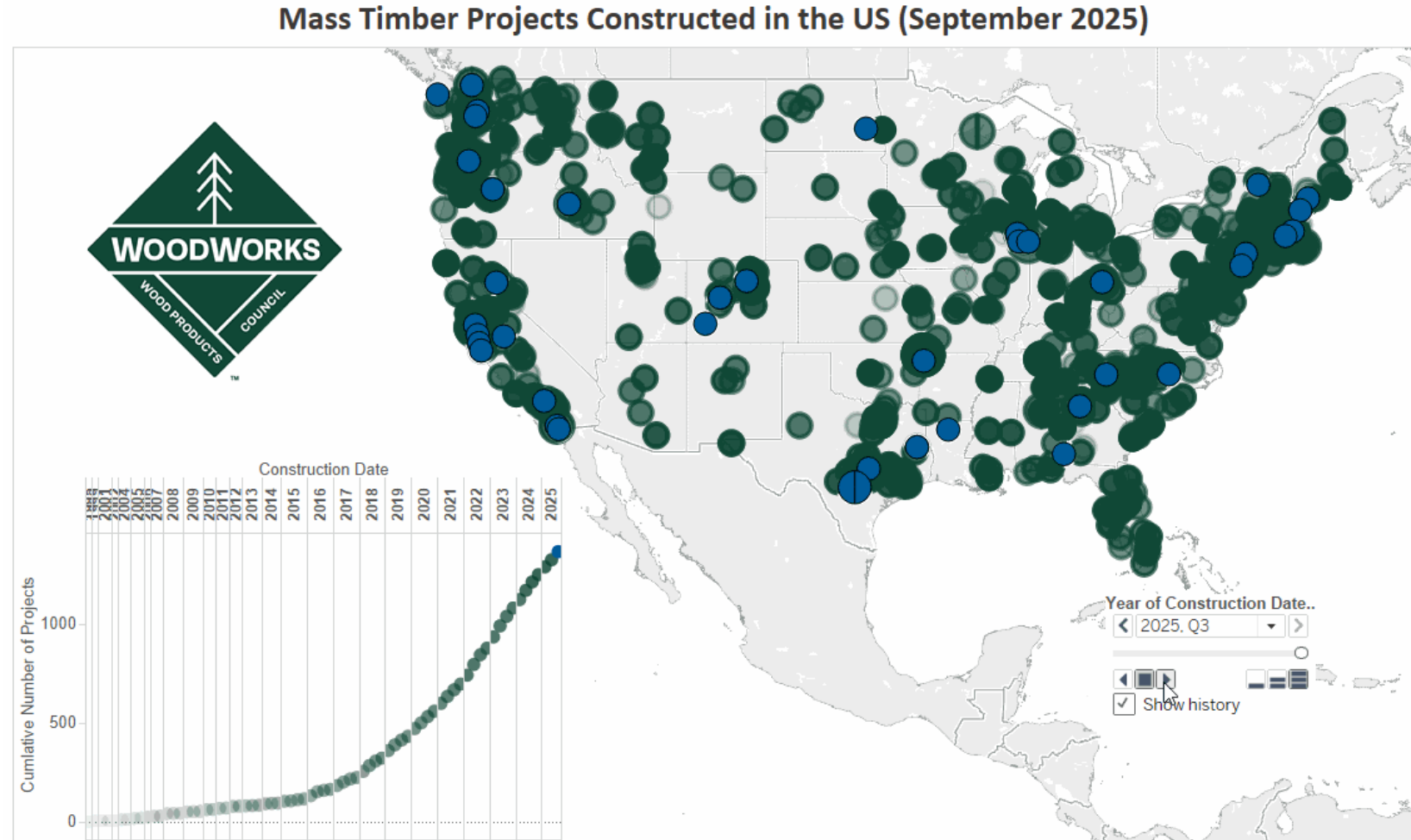
U.S. MASS TIMBER DEMAND

September 2025

Total projects: 2595
(Complete or in Development/Construction)

Projects in 2018: 439

Increase ~ 6x



MICHIGAN STATE
UNIVERSITY



Great Lakes Region



Minnesota

Wisconsin

Michigan

Illinois

Indiana

Ohio

Pennsylvania

New York

A stylized map of Michigan is centered on the image. The map is filled with a dark teal color and has a thick white outline. It is set against a background of light-colored wood planks arranged in a horizontal pattern. To the left of the map, there is a solid teal vertical bar. To the right of the map, the text 'Michigan' and 'Population: 10.14 million' is displayed in white. The overall design is clean and modern.

Michigan

Population: 10.14 million

The image features a stylized map of Michigan. The state's outline is filled with a dark teal color, while the surrounding areas are a lighter teal. A wooden plank texture is overlaid on the map, particularly prominent in the upper right and lower right sections. A white location pin is placed in the central-eastern part of the state, indicating the location of East Lansing. The text 'Michigan State University' is written in a large, bold, white sans-serif font in the upper right, with 'East Lansing, MI' in a smaller white font below it.

Michigan State University

East Lansing, MI

Michigan State University

East Lansing, MI

Three-Part Mission



**Founded
in 1855**



**Public Land-
Grant Research
University**



Research



Teaching



Extension



**>52,000
students**



MASS
TIMBER
@MSU

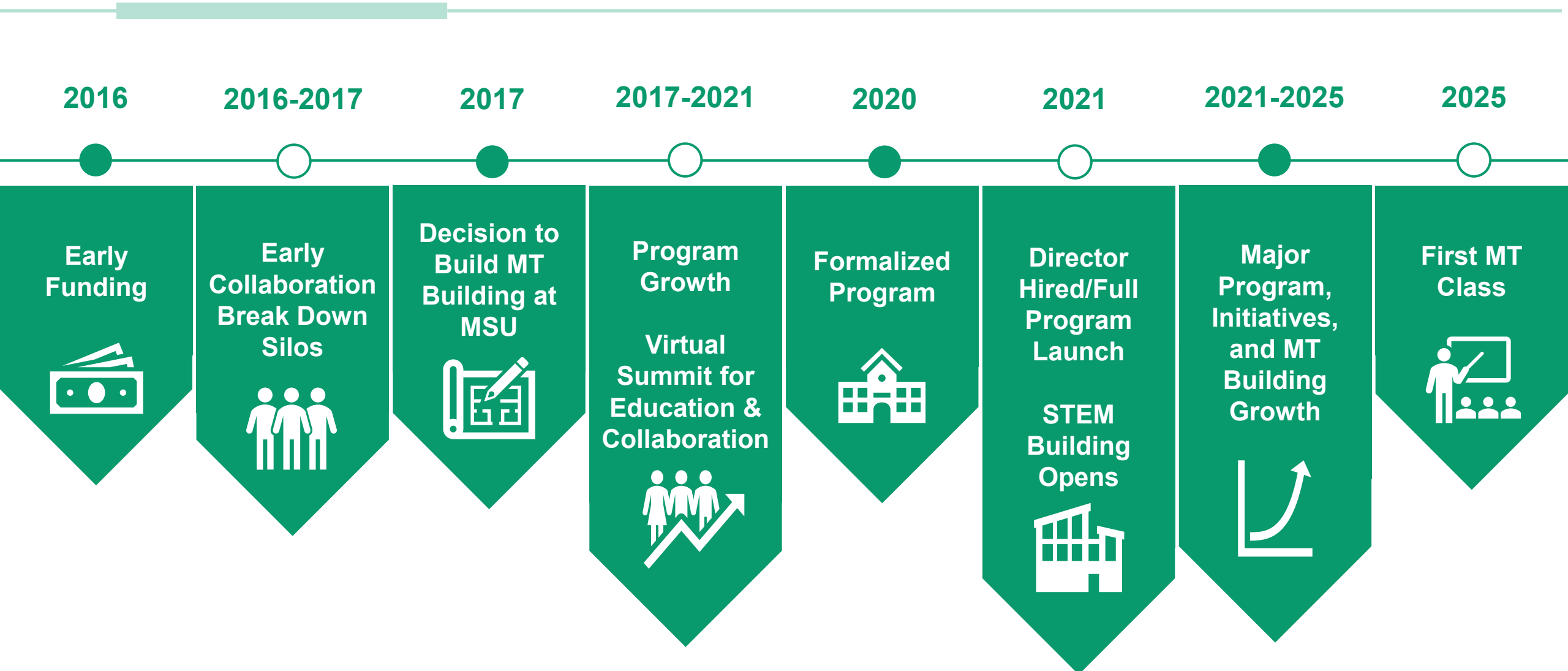


MassTimber@MSU mobilizes research, education, outreach, communications, policy, and partnerships to advance sustainable mass timber construction and manufacture in Michigan, the Great Lakes region and beyond.

canr.msu.edu/masstimber/
[#MIMassTimberMomentum](https://twitter.com/MIMassTimberMomentum)



PROGRAM CONCEPT & HISTORY



MASS TIMBER RESEARCH AND TEACHING AT MSU



**Construction
Management &
Decision Support**

**Energy reduction
in the US MT
Manufacturing
sector**



**Product
Development &
Testing: Under-
used species;
lignin adhesives,
coatings, foams**



**Economics: Mass
Timber Supply &
Demand**



**National model MT
AEC curriculum
development &
undergrad/grad MT
course**

MASS TIMBER STUDENT ENGAGEMENT

- **PhD**

- Forestry
- Chemical Engineering

- **Masters**

- Construction Management
- Chemical Engineering
- Forestry
- Civil & Environmental Engineering

- **Bachelors**

- Civil & Environmental Engineering



WHY MASS TIMBER FOR MICHIGAN?



Heavily Forested

53% of the state;
19.3 million acres



Manufacturing and Engineering Culture



- Employs almost 42,000 people;
- \$26.5 billion annually



Need to Build

190k housing units



Net-Zero Carbon by 2050

POTENTIAL ECONOMIC IMPACTS OF MT MANUFACTURE

BASED ON 2023 DATA AND 2023 \$ VALUES

Michigan

Mass Timber Manufacture in Michigan



For 50,000 m³

- \$152.62 MM GDP (Direct \$88.29 MM)
- 318 jobs (Direct 69 jobs at the facility)
- \$8.85 MM Total Taxes (Direct \$2.32 MM)
- \$1.91 MM Total State Taxes (Direct \$0.43 MM)

For 100,000 m³

- \$304.92 MM GDP (Direct \$176.57 MM)
- 591 jobs (Direct 100 jobs at the facility)
- \$16.84 MM Total Taxes (Direct \$3.93 MM)
- \$3.71 MM Total State Taxes (Direct \$0.81 MM)



STATE OF MICHIGAN INVESTMENTS

\$1MM

In FY 2025 Budget

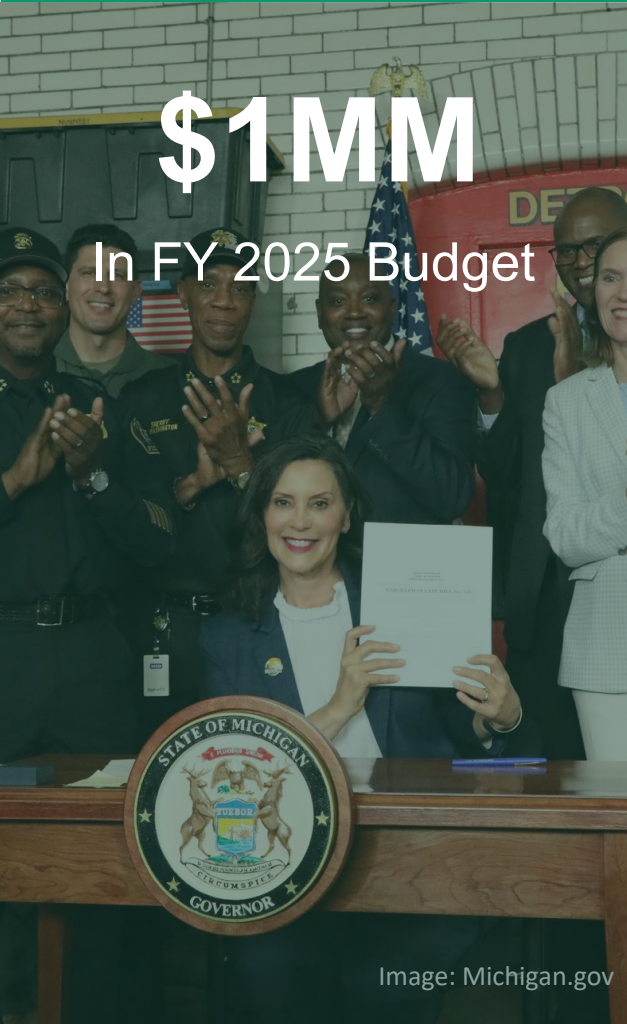


Image: Michigan.gov

\$750K

to MassTimber@MSU



Image: WoodWorks

\$360MM

Mass Timber DNR
Building

State Laboratory
Building



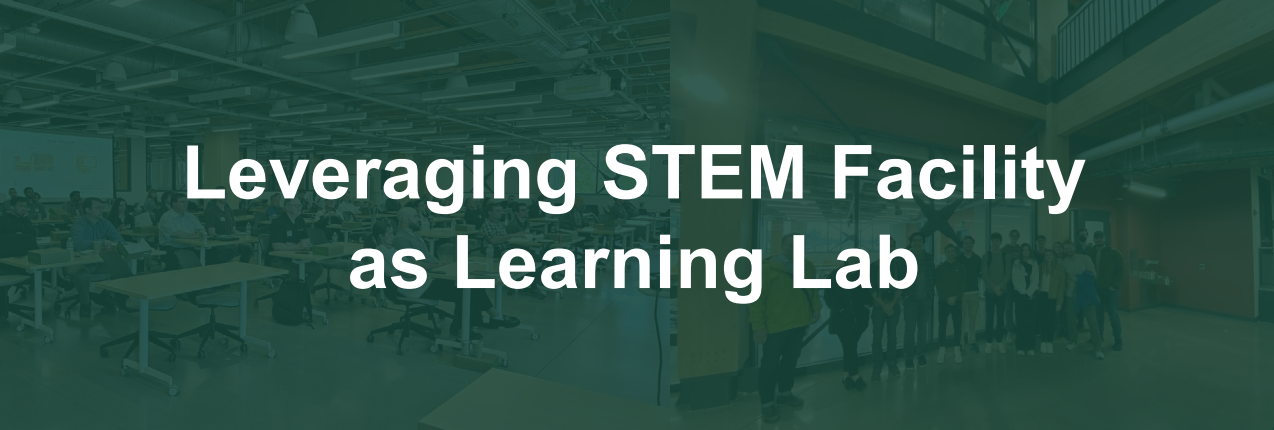
Image: Lord Aeck Sargent

\$30MM

MSU STEM Facility



MASSTIMBER@MSU: FOSTERING A MASS TIMBER ECOSYSTEM



Leveraging STEM Facility
as Learning Lab



Convening Communities



Michigan Mass Timber
Providing Technical Assistance
and Peer Learning

This quarterly virtual gathering will provide technical assistance and peer learning for those involved in mass timber projects across Michigan in a supportive and confidential environment.



Implementing Supportive
Initiatives



MICHIGAN STATE
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MASSTIMBER@MSU: FOSTERING A MASS TIMBER ECOSYSTEM

Leveraging STEM Facility as Learning Lab



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Leveraging STEM Facility
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Convening Communities



MICHIGAN STATE
UNIVERSITY

MICHIGAN MASS TIMBER UPDATE



Michigan Mass Timber Update 2025: Reaching New Heights

Annual celebration of #MI Mass Timber Momentum!

Save the Dates (in Kalamazoo):

- Main Event December 3, 2025, at the Kalamazoo Country Club
- Workshop by WoodWorks, December 2, 2025, at KRESA Career Connect Campus

Hosted by:

Sponsored by:



MASSTIMBER@MSU: FOSTERING A MASS TIMBER ECOSYSTEM



Leveraging STEM Facility
as Learning Lab



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**Providing Technical
Assistance and Peer Learning**

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USFS Wood Innovation Grant-Funded



Michigan Mass Timber

COMMUNITY OF PRACTICE

This quarterly virtual gathering provides technical assistance and peer learning in a supportive and confidential environment for those involved in mass timber projects and initiatives across Michigan.



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AMERICAN
WOOD COUNCIL

MASS TIMBER PROJECTS IN MICHIGAN

~65 Complete or in the Pipeline



K-12 schools, Universities



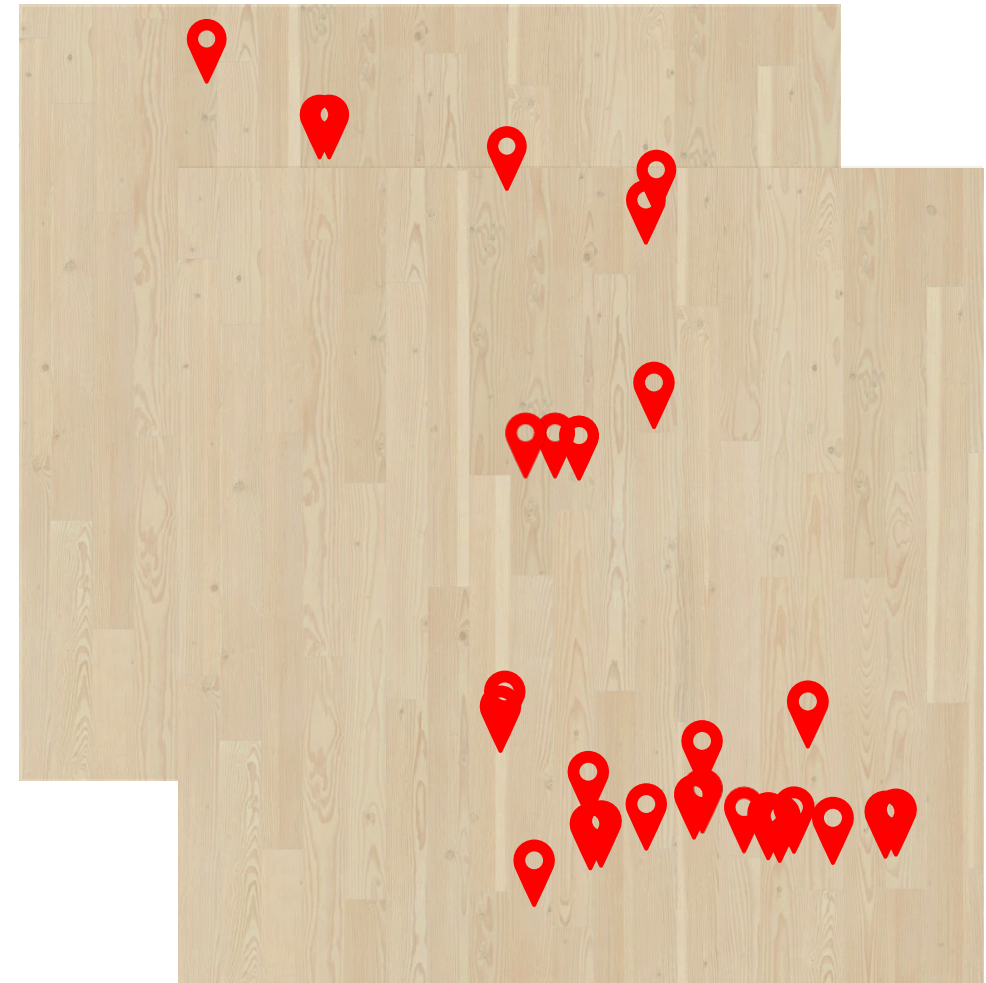
Training Facilities, Community Centers, Government Buildings



Apartments & Condos
Affordable Housing
Single-Family Home



Hotel



A.B. FORD COMMUNITY CENTER

📍 DETROIT, MI



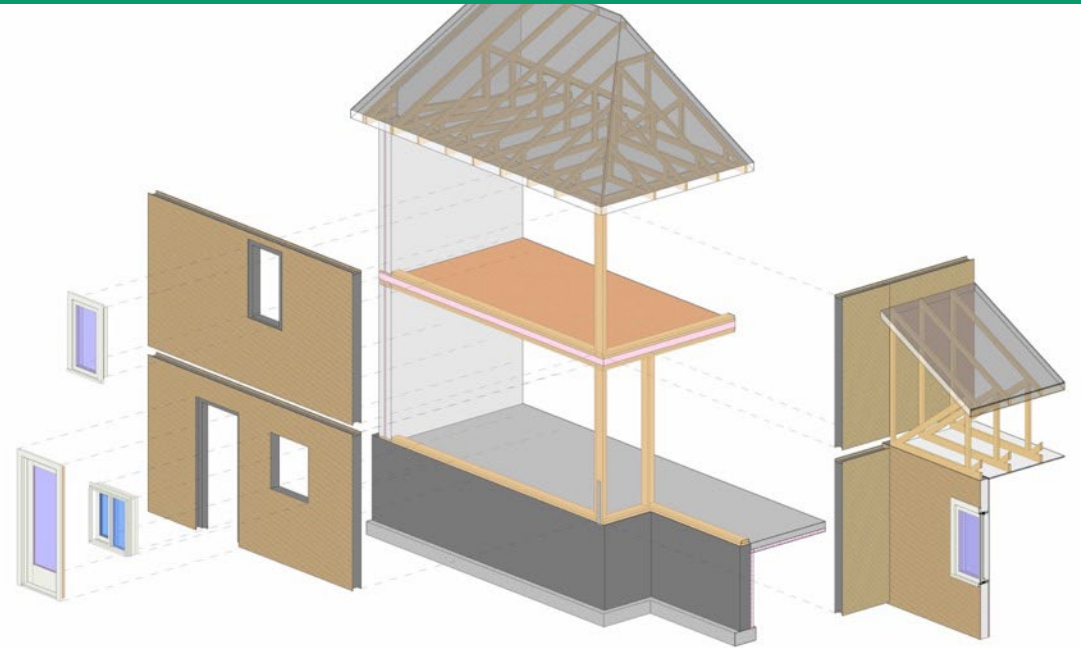
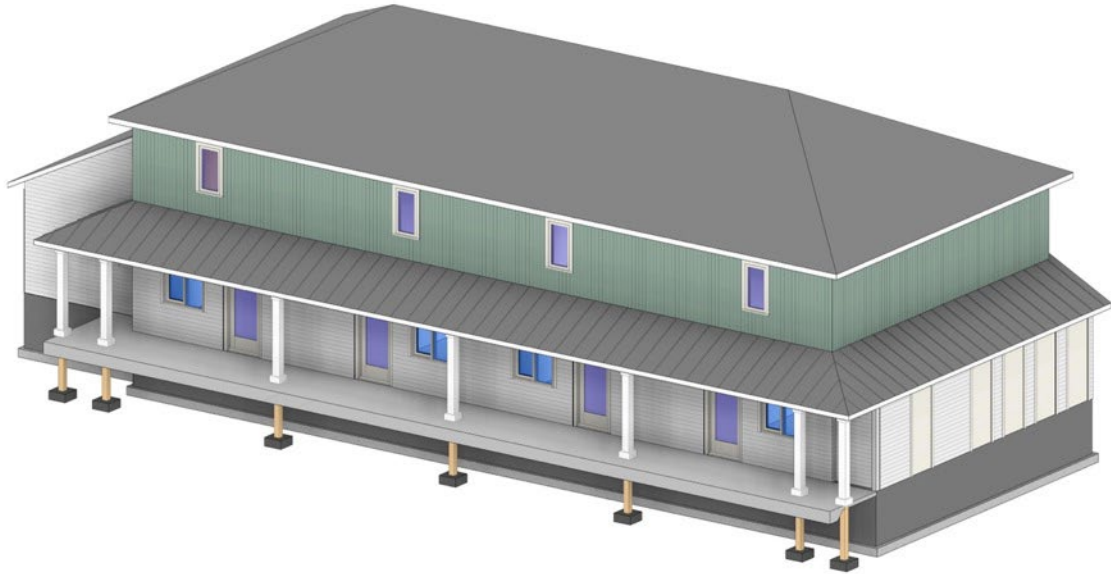
GRIFFITH VETERINARY HOSPITAL

📍 WESTLAND, MI



VINEYARD VIEW

📍 SUTTONS BAY, MI



KRESA CAREER CONNECT CAMPUS

📍 KALAMAZOO, MI



Photo: Aidan Ralko



Photo: Devin Anderson-Torrez | MLive.com

MICHIGAN DEPARTMENT OF NATURAL RESOURCES CUSTOMER SERVICE CENTER

📍 NEWBERRY, MI

Photos: Lord Aeck Sargent



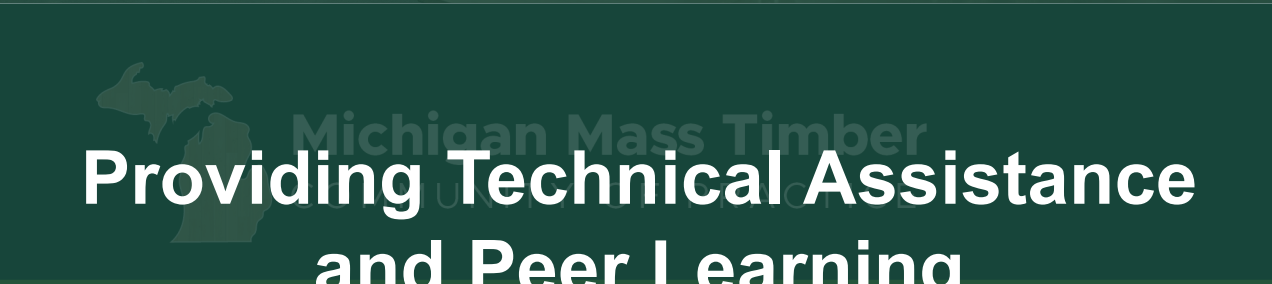
MASSTIMBER@MSU: FOSTERING A MASS TIMBER ECOSYSTEM



**Leveraging STEM Facility
as Learning Lab**



Convening Communities



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AMERICAN
WOOD COUNCIL

**Implementing Supportive
Initiatives**



**MICHIGAN STATE
UNIVERSITY**

MICHIGAN MASS TIMBER CATALYST PROGRAM

Supporting Your Success: Growing Michigan Mass Timber Momentum

Visit our website to learn more: masstimber.msu.edu/Catalyst



Agency:
Michigan
Department
of Natural
Resources
Office of
Public Lands



Source:
FY2025
State budget



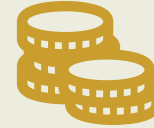
Objective:
Remove
barriers to
mass timber
with funding
and technical
assistance



Duration:
13 months



Funding:
\$20K-\$75K
based on
project size
and factors



**Special
Incentives:**
Bonus
affordable and
workforce
housing



Goals:
Increase mass
timber
expertise

Catalyze
Michigan mass
timber
economy

MANUFACTURE IN NORTH AMERICA

- Freres Engineered Wood (Lyons, OR)
- SmartLam (Dothan, AL)
- SmartLam (Whitefish, MT)
- Mercer (Penticton, BC, Canada)
- Nordic (Chibougamau, QC, Canada)
- StructureCraft (Abbotsford, BC, Canada)
- Element 5 (St. Thomas, ON, Canada)
- Vaagen Timbers (Colville, WA)
- Mercer (Conway, AR)
- Sterling Structural (Phoenix, IL/Lufkin, TX)
- Mercer (Spokane Valley, WA)



MI MASS TIMBER SUPPLY ANALYSIS AND GREAT LAKES DEMAND SURVEY



Identify optimal locations for mass timber manufacturing facilities.



Assess projected market-based feedstock availability and supply pathways for prospective mass timber manufacturing.



Understand the perceived knowledge of stakeholders, demand factors, market size influencing the wide adoption of mass timber as an alternative construction material.



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DNR CUSTOMER SERVICE CENTER

First Michigan Mass Timber Building Using
Michigan-Sourced Red Pine



November 2023



WALLS – 3PLY CLT (SPF-S)
RED PINE – MI SOURCED

February 2024



ROOF – 5PLY CLY (SPF-S)
RED PINE – MI SOURCED

November 2024



COLUMNS AND BEAMS – GLT
DOUGLASS FIR (A-Z FOREST
RESOTORATION PROJECT)

GREAT LAKES MASS TIMBER COLLABORATIVE

PARTICIPANT STATES

GREAT LAKES MASS TIMBER

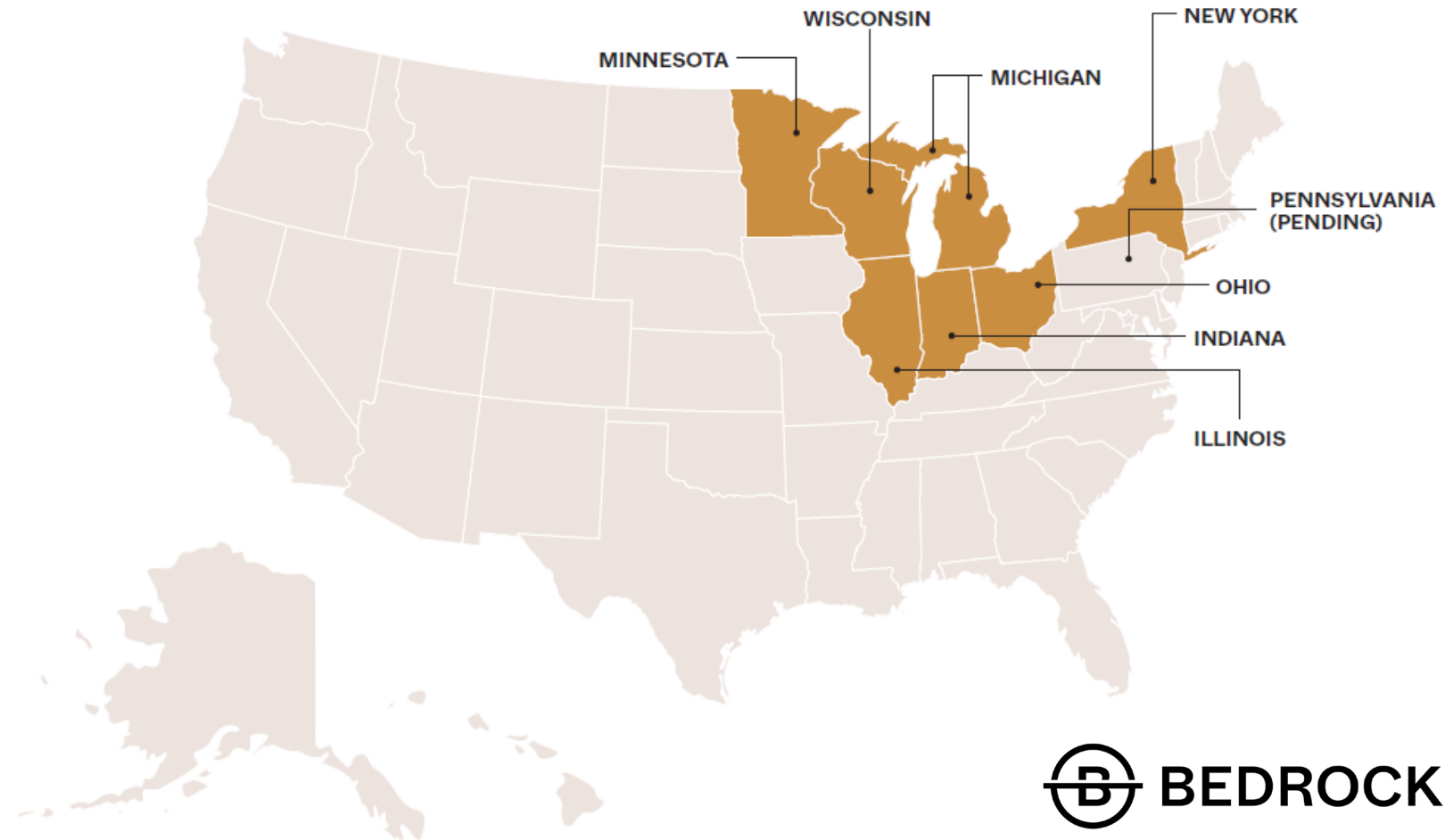
THE GREAT LAKES MASS TIMBER (GLMT) ECOSYSTEM

Shared Strengths and Opportunities

- + Manufacturing culture and heritage
- + University engagement
- + High percentage of forested acres and established forest products industries
- + Growing mass timber awareness and knowledge, but with a strong need to increase significantly
- + State or municipal climate and sustainability goals

Shared Weaknesses and Threats

- + Slow adoption of building codes that include mass timber
- + Insurance policies unfavorable to mass timber³
- + Hardwood species common in the region not yet in mass timber production certifications
- + Reduced milling and trucking infrastructure and capacity
- + Few or no existing policies and incentives for mass timber





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Connect with me on LinkedIn!



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Masstimber.msu.edu/

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