

Disclaimer

This presentation was developed by a third party and is not funded by WoodWorks or the Softwood Lumber Board.



### **SPEAKERS**



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### **Environmental**

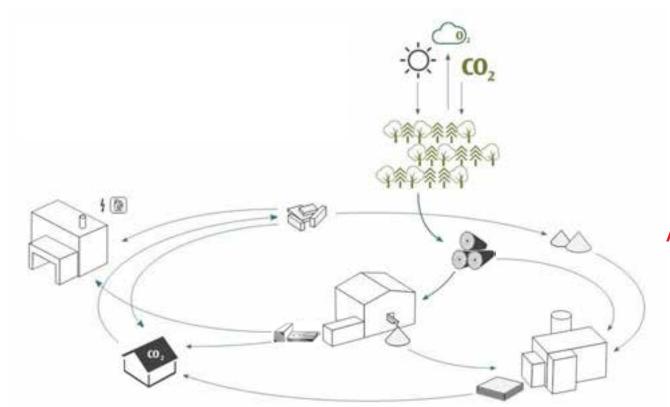
### Social

### Governance



### **Circularity**

## Renewable Resource | Carbon Sequestration





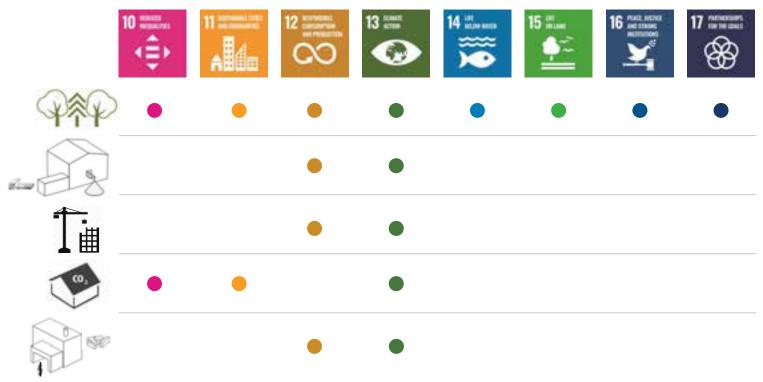
Source: Building with Wood – Proactive Climate Protection, Dovetail Partners, Inc.<sup>1</sup>

# Environmental Social Governance UN Sustainable Development Goals



### **ESG**

### **UN Sustainable Development Goals**



## Mass Timber Cost & Design Optimization Checklists

### Overview

- Aid in design & cost optimization of mass timber projects
- Guiding discussions between:
  - Designers (architects & engineers)
  - Builders (general contractors, estimators, fabricators & installers)
  - Owners (developers & construction managers)

### Pre-Design Checklist:

- ✓ Design & Builder Team
- Contractual Considerations
- ✓ Design Goals
- Contact WoodWorks

**Download** Checklists at

www.woodworks.org

<u>www.woodworks.org/wp-content/uploads/wood\_solution\_paper-Mass-Timber-Design-Cost-Optimization-Checklists.pdf</u>

Potential Benefits	Project Goal  ✓	Value Add  ✓
Fast construction		
Aesthetic Value (Leasing velocity/ premiums) Healthy Building / Biophilia		
Lightweight structure		
Labor shortage solution  • small crews  • entry level workers		
Just-in-time delivery (ideal for dense urban sites)		
Environmentally friendly (low carbon footprint)		
Healthy forests/ wildfire resiliency & support rural economies		



### **Healthy Buildings**

### **Productivity**

### The JLL 3-30-300 formula:

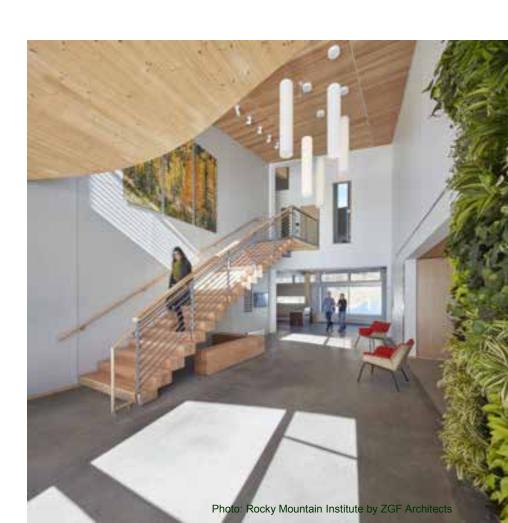
"...the average order of magnitude for a company's cost per square foot:"

\$3 utilities \$30 rent \$300 payroll

10% energy increase = \$0.30/ sf 10% rent reduction = \$3/ sf 10% productivity improvement = \$30/ sf

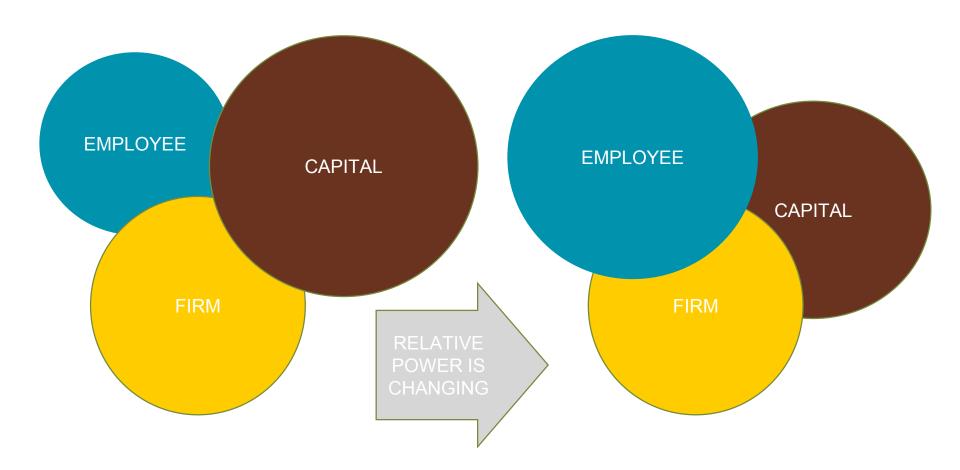
Source: JLL,

https://www.us.jll.com/en/trends-and-insights/workplace/a-surprising-way-to-cut-real-estate-costs



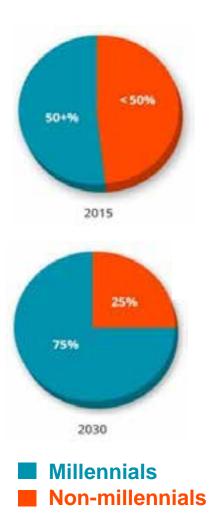


### **INSTITUTIONAL OFFICE: STAKEHOLDERS**



### MILLENNIAL WORKFORCE





## THE CONSUMER of THE PRODUCT



## **QUESTION**

# THE FIRM AND/OR THEIR LABOR QUESTION:

**HOW TO ATTRACT & RETAIN TALENT?** 

**HOW TO DRIVE PRODUCTIVITY?** 

DOES THE PRODUCT (A MASS TIMBER BLDG)
HELP?





Source: BPS (2017), processed.

COMPARISON BETWEEN THE TOTAL NUMBER OF WORKERS AND NUMBER OF HIGH- EDUCATED WORKERS (HL)

## **NOT PRODUCT**



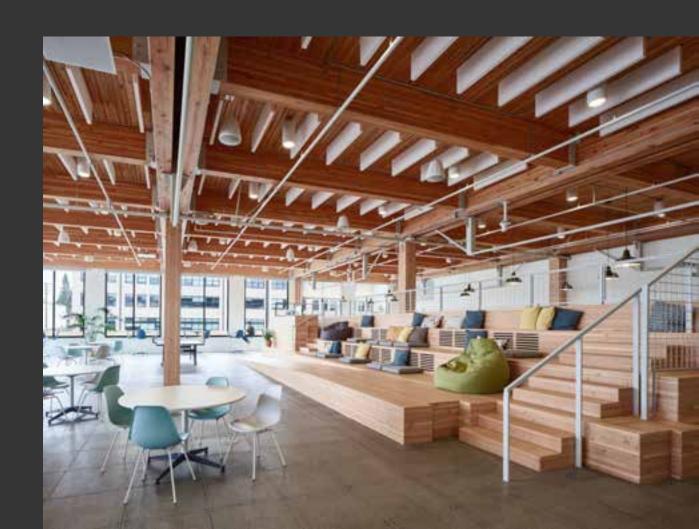
Humans as a factor of production

(creativity not needed)















### **Business Case for Mass Timber**

Substantively communicate the business case of mass timber buildings in relevant and relatable fashion through case studies across six property sub-types.



### **Audiences**

Investors: resilient asset

Occupants: desired experience







### **Investor Stakeholders**

- Institutional equity investors
- ESG equity investors
- Local investors / firms
- Sources of debt, large and small
- Real Estate Developers







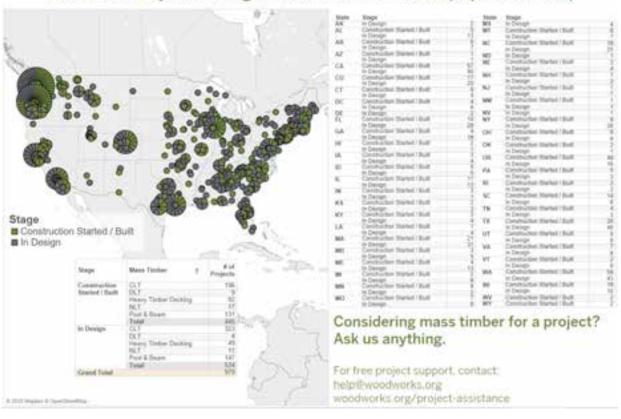




### **Selection Criteria**

- Scale
- Impetuses
- Location
- Perspective
- Asset Class
- Status

#### Mass Timber Projects In Design and Constructed in the US (September 2020)



### **Asset Categories**

Six Pro	perty S	Sub-Ty	pes
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Institutional Office Commercial

Purpose-Built / Owner Occupied Commercial

Institutional For-Rent Residential and/or Mixed Use

For-Sale Housing Condo, Townhome & Detached Homes

Purpose-Built Affordable / Dorms Gov't-related housing

Redevelopment/ Vertical Additions Commercial, Mixed-Use or Housing

## **\_BUSINESS CASE**

## **CAN MASS TIMBER BE A USEFUL TOOL?**

**TO RESPOND TO:** 

**OCCUPANT:** 

A SOCIALLY-RESPONSIBLE, HEALTHY, INSPIRING, PRODUCTIVE EXPERIENCE

**INVESTOR:** 

AN ESG, LOWER-VOLATILITY, DIFFERENTIATED CASH FLOWING ASSET

**SOCIETY:** 

A LOCALLY-SOURCED, LOWER-CARBON, PROVEN, JOB-CREATING 'CHANGE'

# INDICATIVE TRENDS

- 1. A PRUDENT INVESTMENT?

  EARLY EXAMPLES SUGGEST YES
- 2. POSITIVE SOCIAL IMPACTS?

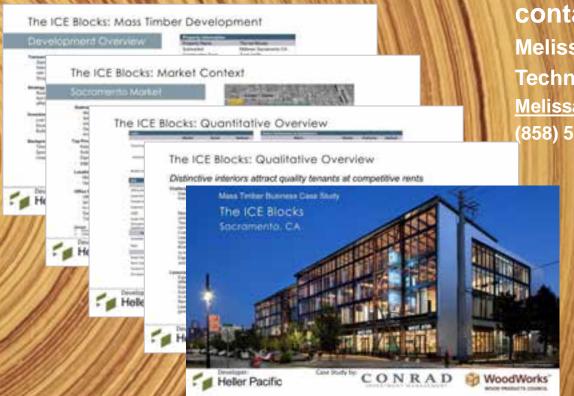
  BEING RECOGNIZED & VALUED... CONFUSIONS REMAIN
- 3. INNOVATION BEING REWARDED?

  MKT: YES, VIA A PREMIUM AND/OR A TENANT

  A&E: WHAT IS OPTIMAL STILL A WORK IN PROGRESS
- 4. IT SEEMS SIMPLE; IS IT?

  TOUGHER THAN IT LOOKS, NEED TO LOVE CHALLENGES

## Mass Timber Business Case Studies



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**Questions?**