

# Closing Plenary

Presented by Chris Duvall

**COUGHLINPORTERLUNDEEN**  
STRUCTURAL CIVIL SEISMIC ENGINEERING

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Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.



# Type IV Changes – Impact to the Design Community

New Design Opportunities

Meet Market Demand

Local Products



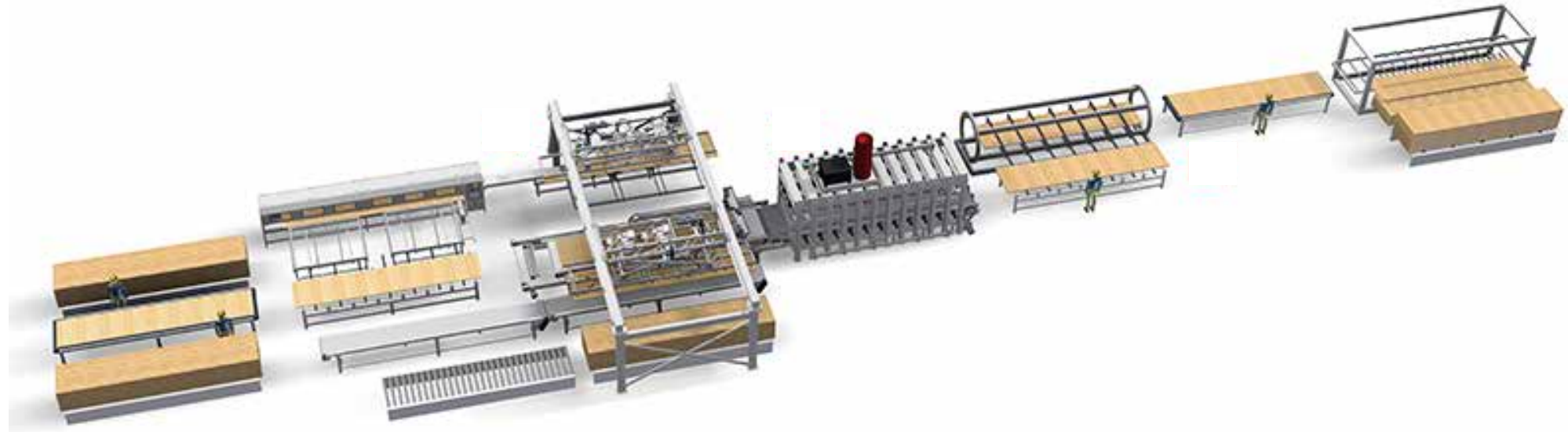
*Image credit: DLR Group*

# Type IV Changes – Impact to the Design Community

Utilize Small Tree Material (regrowth)

*" In less than 8 hours, U.S. Timberlands can re-grow all the wood fiber consumed from all North American mass timber construction in 2018."*

*- 2019 State of the Industry North American Mass Timber*



*Image credit: Kallesoe A/S*

# Type IV Changes – Impact to the Design Community

## Advancements in Technology and Fabrication

- Fire Resistant Adhesives
- Digital Manufacturing



*Image credit: Techno Fast*



# Type IV Changes – Impact to the Design Community

Provides another material option in addition to steel and concrete for building heights above 85 feet



*Mass Timber Multi Family in San Francisco created for the Mission Housing Design Competition | Image credit: DLR Group San Francisco*



*Mjøstårnet by Voll Arkitekter in Brumunddal, Norway, has been verified as the world's tallest timber building at 280 ft*



# Overcoming Barriers

Emerging Industry

Re-Envisioning Wood

Seismic Codification

AHJ Approval



*Tukwila Library | Coughlin Porter Lundeen*

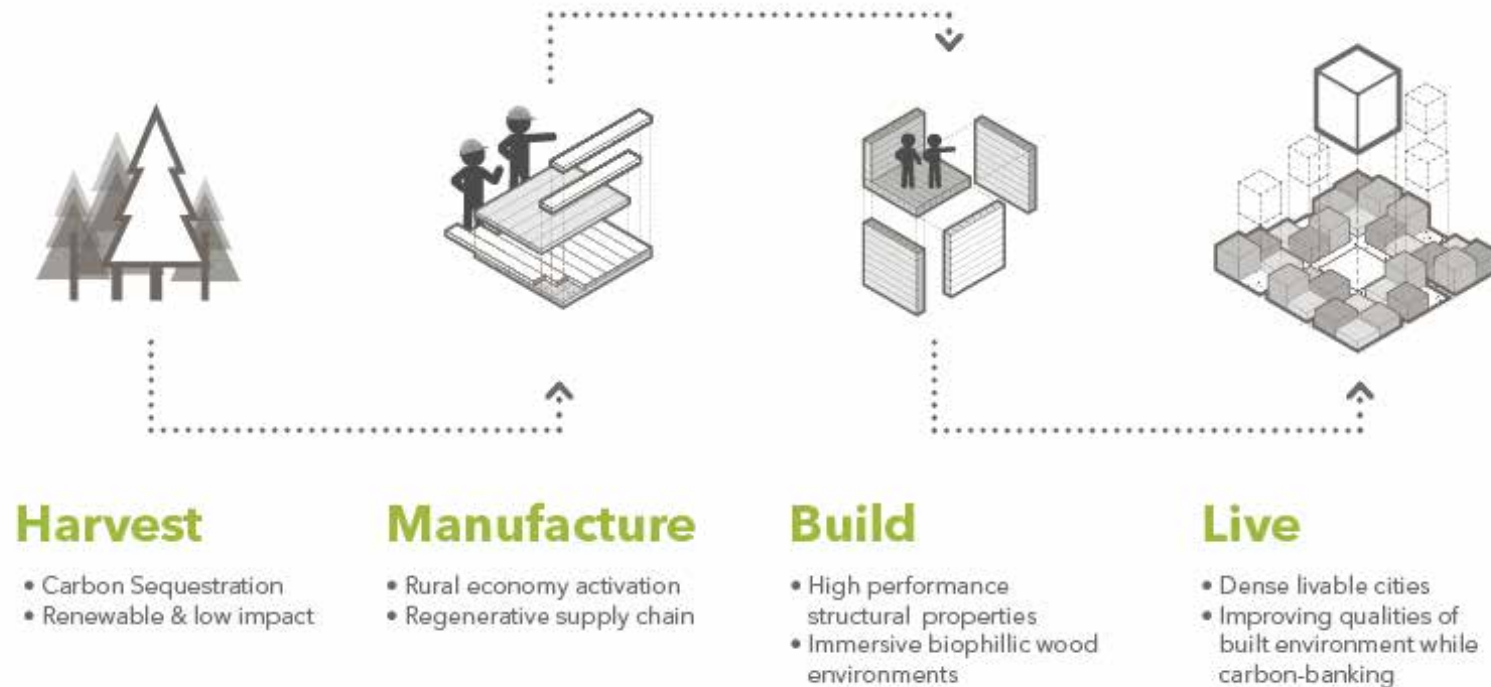


*International House, Sydney | Image Credit: HESS*

# Overcoming Barriers

Supply Chain

Industry Familiarity/Expertise



*Image credit: GGLO*



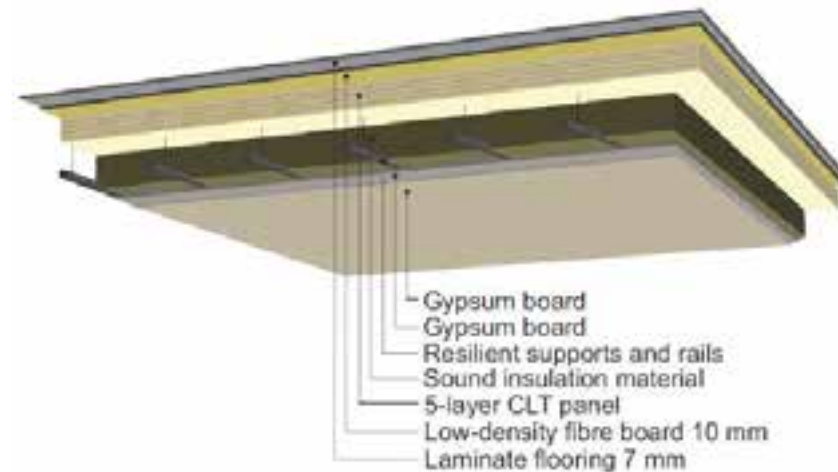
# Overcoming Barriers

## Damage/Repair Techniques

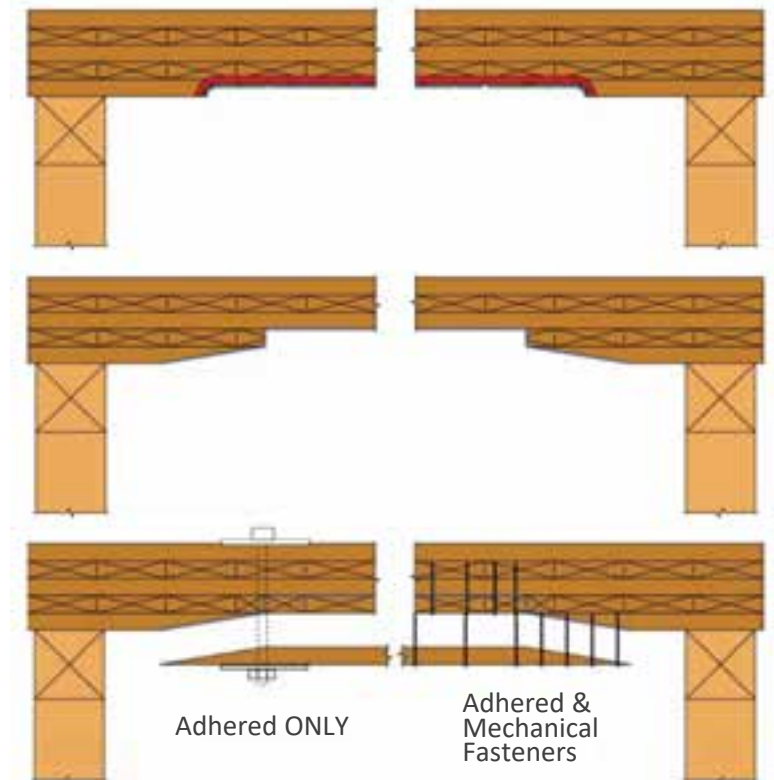
- Fire
- Water (Rot)

## Tested Assemblies

- Fire
- Seismic
- Acoustics
- Vibration



*Image credit: CLT Handbook*



*Image credit: SmartLam*

# > QUESTIONS?

This concludes The American Institute  
of Architects Continuing Education  
Systems Course

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