

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

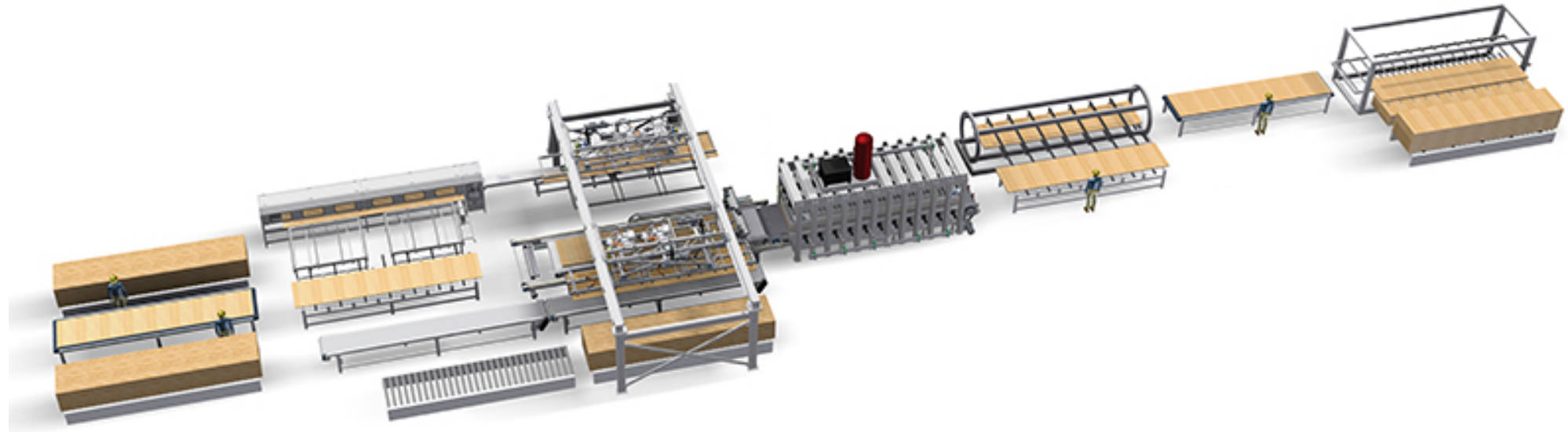


Image credit: Kallesoe A/S

Type IV Changes – Impact to the Design Community

Advancements in Technology and Fabrication

- Fire Resistant Adhesives
- Digital Manufacturing

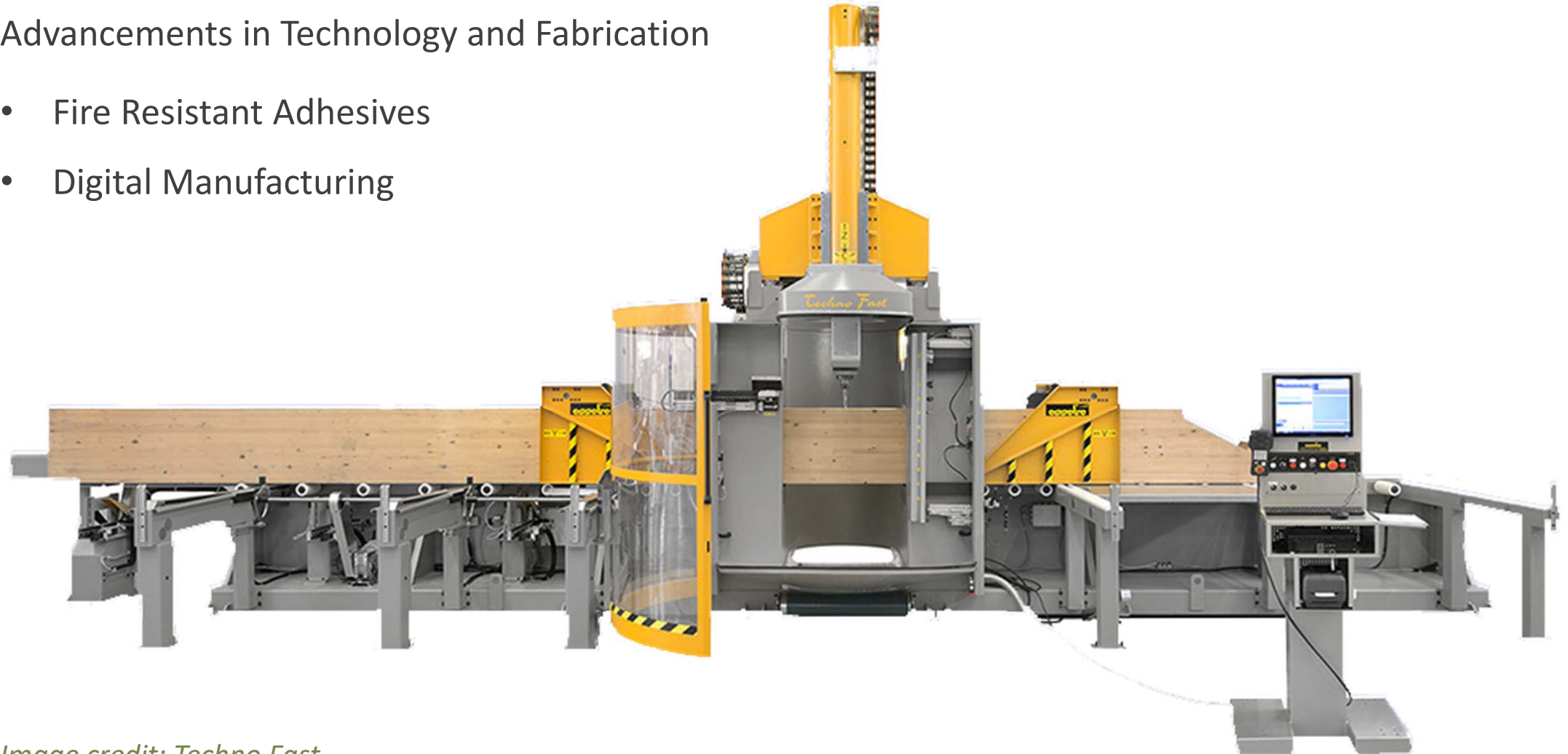


Image credit: Techno Fast

Type IV Changes – Impact to the Design Community

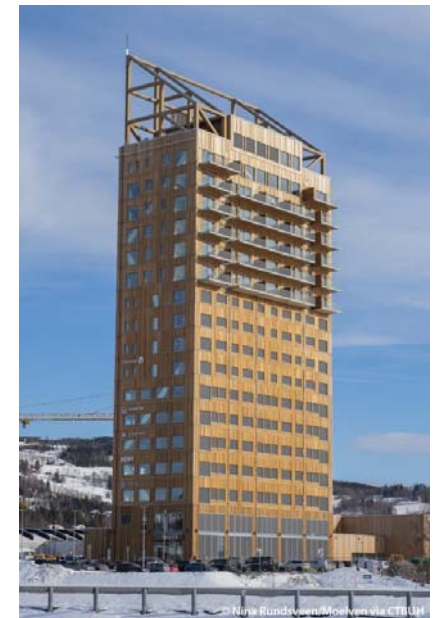
Provides another material option in addition to steel and concrete for building heights above 85 feet



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

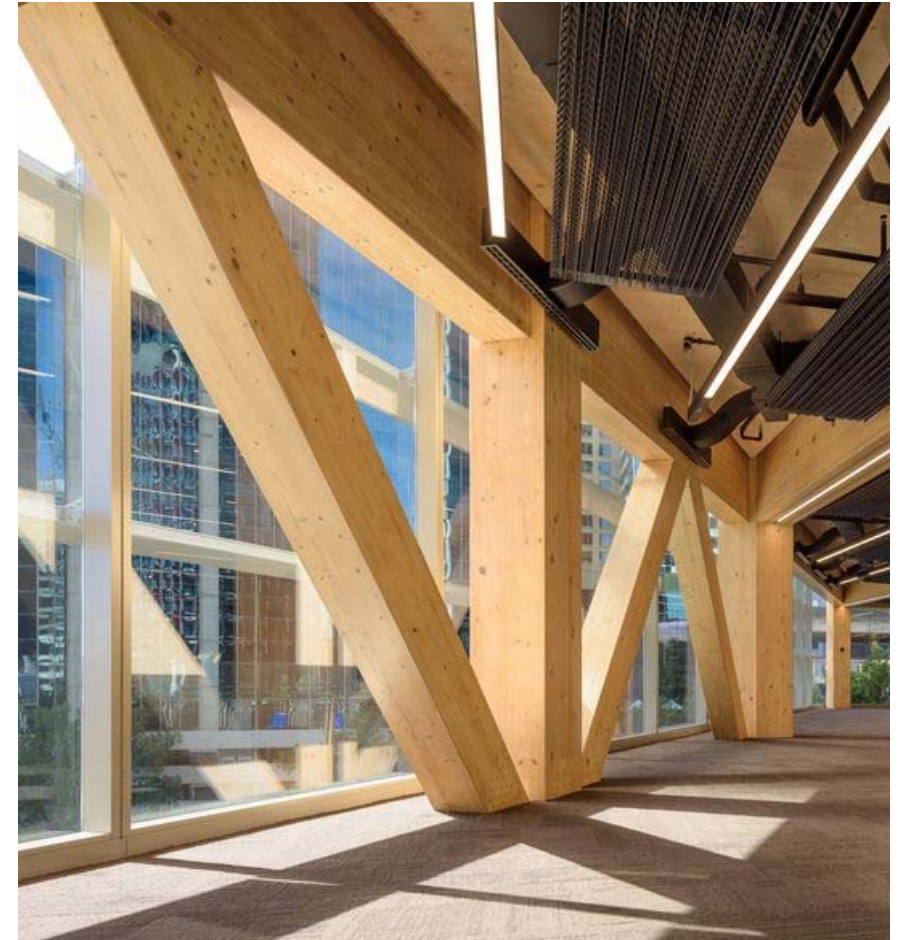
Re-Envisioning Wood

Seismic Codification

AHJ Approval



Tukwila Library | Coughlin Porter Lundeen



International House, Sydney | Image Credit: HESS

Overcoming Barriers

Supply Chain

Industry Familiarity/Expertise

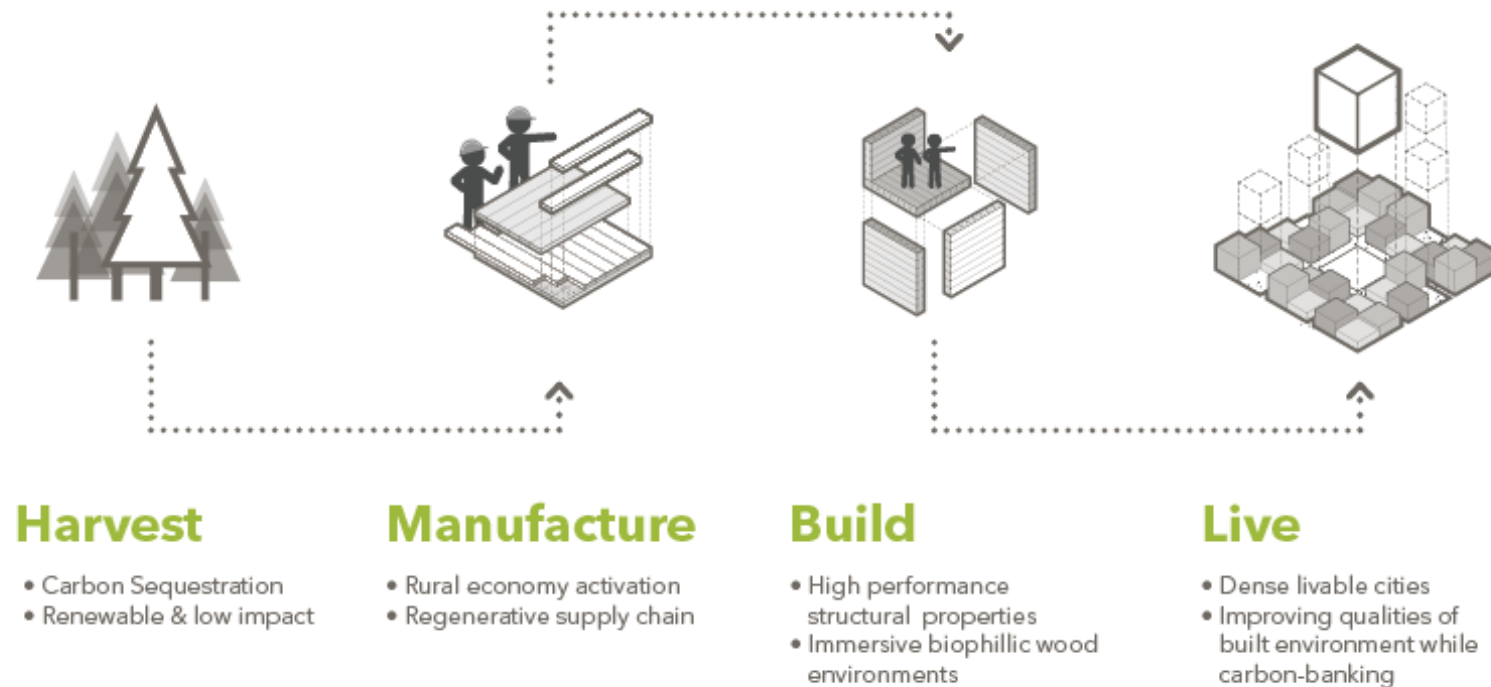


Image credit: GGLO

Overcoming Barriers

Damage/Repair Techniques

- Fire
- Water (Rot)

Tested Assemblies

- Fire
- Seismic
- Acoustics
- Vibration

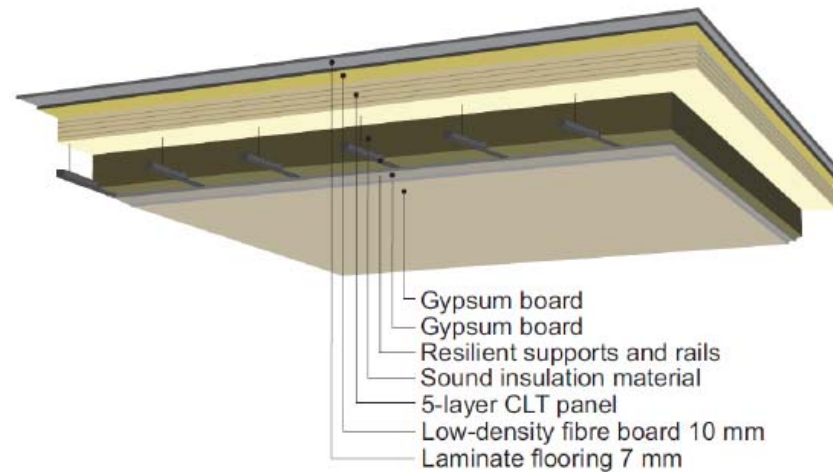


Image credit: CLT Handbook

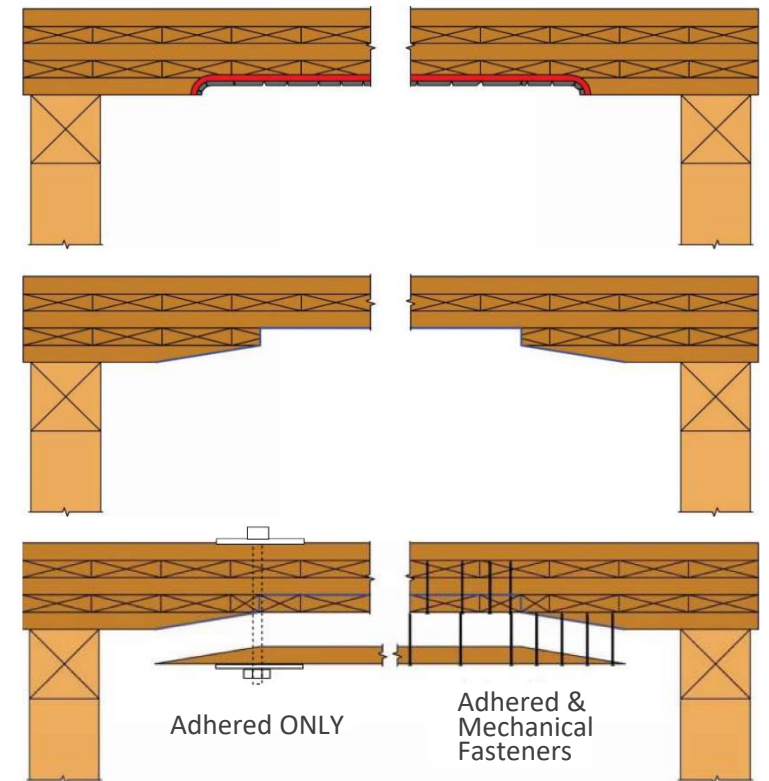


Image credit: SmartLam

> QUESTIONS?

This concludes The American Institute
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