



Co|Lab & Mass Timber Construction

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



DISCUSSION TOPICS

- Introduce Co|Lab
- Highlight Building
 - Under Construction
 - Final Product
- Share Takeaways



WHAT IS CO|LAB?

- 8,600 SF innovation lab
- Supports HITTT's R&D Program
 - Materials, Approaches, Technology
- Host events, tours, and projects
 - HITTT project mockups & R&D
- Platform for Collaboration
 - Internal & External

CO|LAB

VALIDATED BY CERTIFICATIONS



LEED v4
Platinum
BD+C



ILFI ZERO ENERGY
On-site PV solar
12 month performance



ILFI Petal
Materials
Place
Beauty

THE WHY



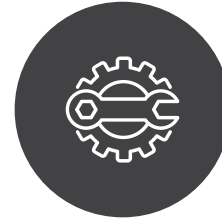
LABOR SHORTAGE

Driving productivity
Workforce development



SAFETY CONCERNS

Encouraging a culture of
safety



INNOVATION GAP

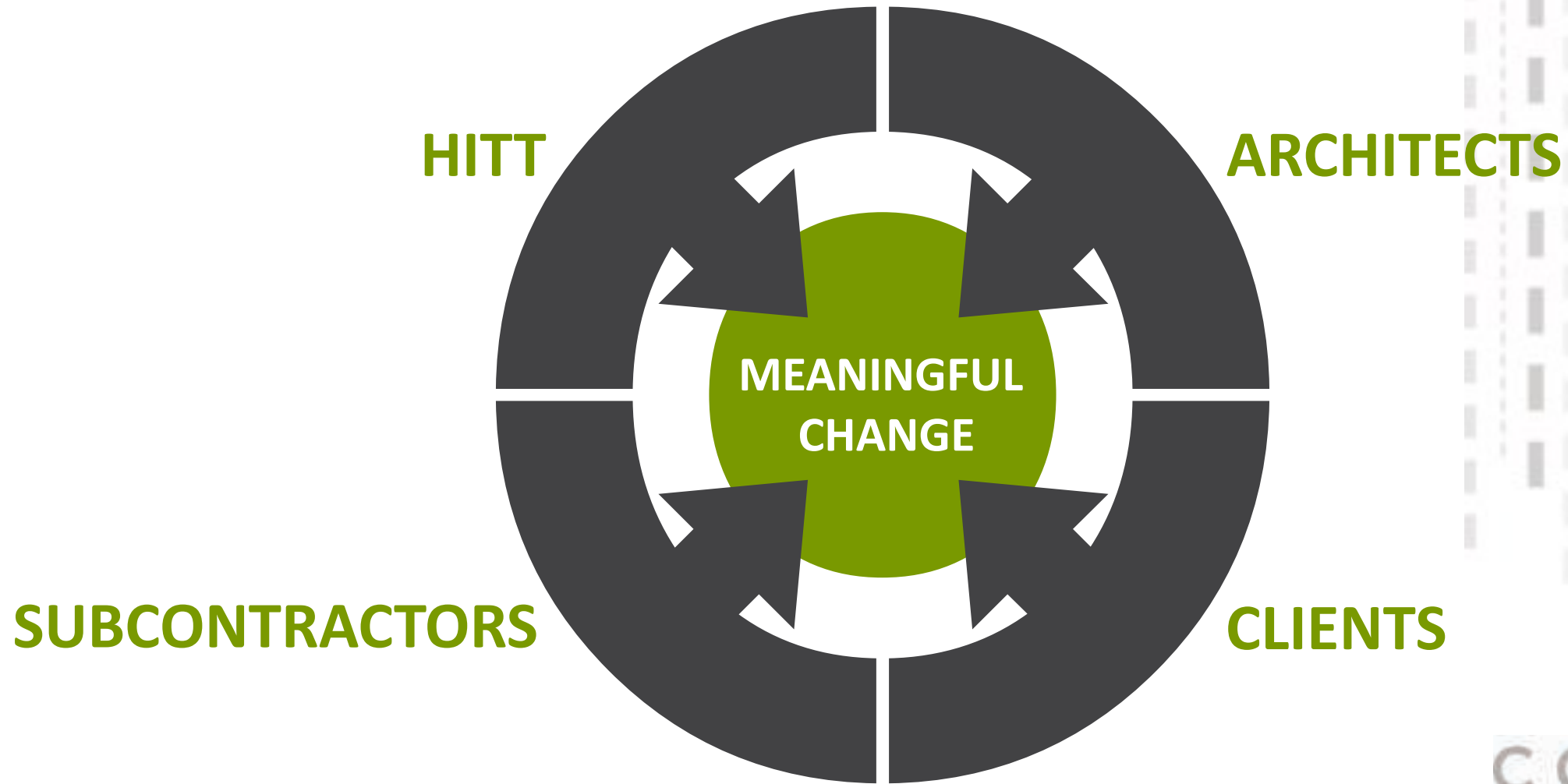
Less than 1% of revenues
spent on R&D



FLOOD OF TECHNOLOGY

Venture capital flooding
the market with new
innovations

IT TAKES A VILLAGE

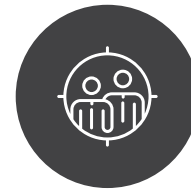


BIG PICTURE GOALS



PHYSICAL

State-of-the-art facility
Testing new or different design strategies
Push the envelope in AEC community



CULTURAL

Inspire innovative thinking
Educate stakeholders
Discover alignment and develop partnerships

CO | LAB



ABOUT THE BUILDING

























TAKEAWAYS





JURISDICTIONS/CODE

- Code hurdle not what it was
 - Virginia Construction Code 2017 (~IBCC)
 - Sit down during schematic
- Inspectors
 - Education



DESIGN PROCESS

- EARLY COORDINATION
- Bring in subs early – design/build
- REVIT model translated into language that CNC machines can use for fabrication
- Leverage fabricator's in house engineers
- Wood \neq Steel



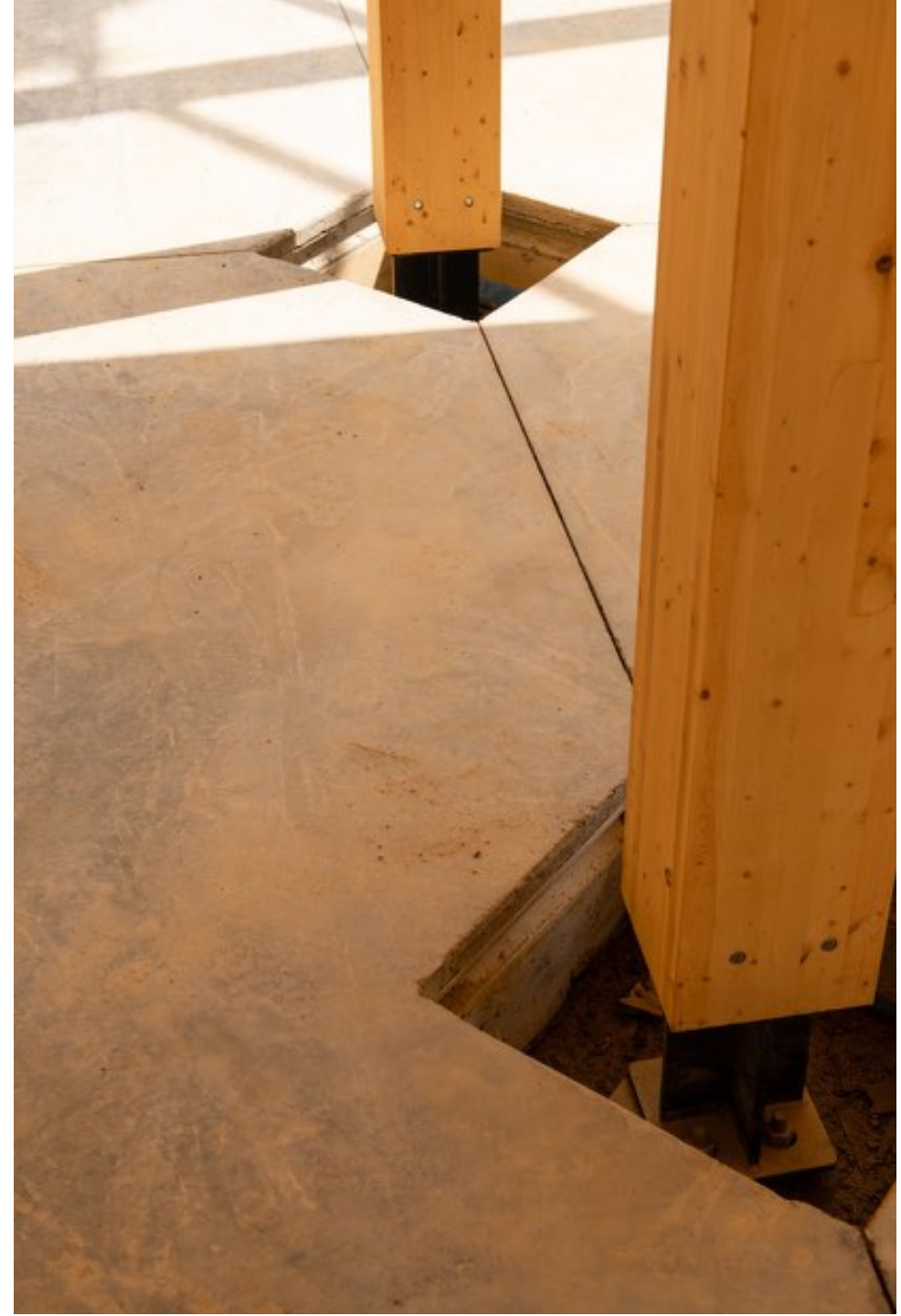
- Hybrid Erection Teams – Timber/Steel

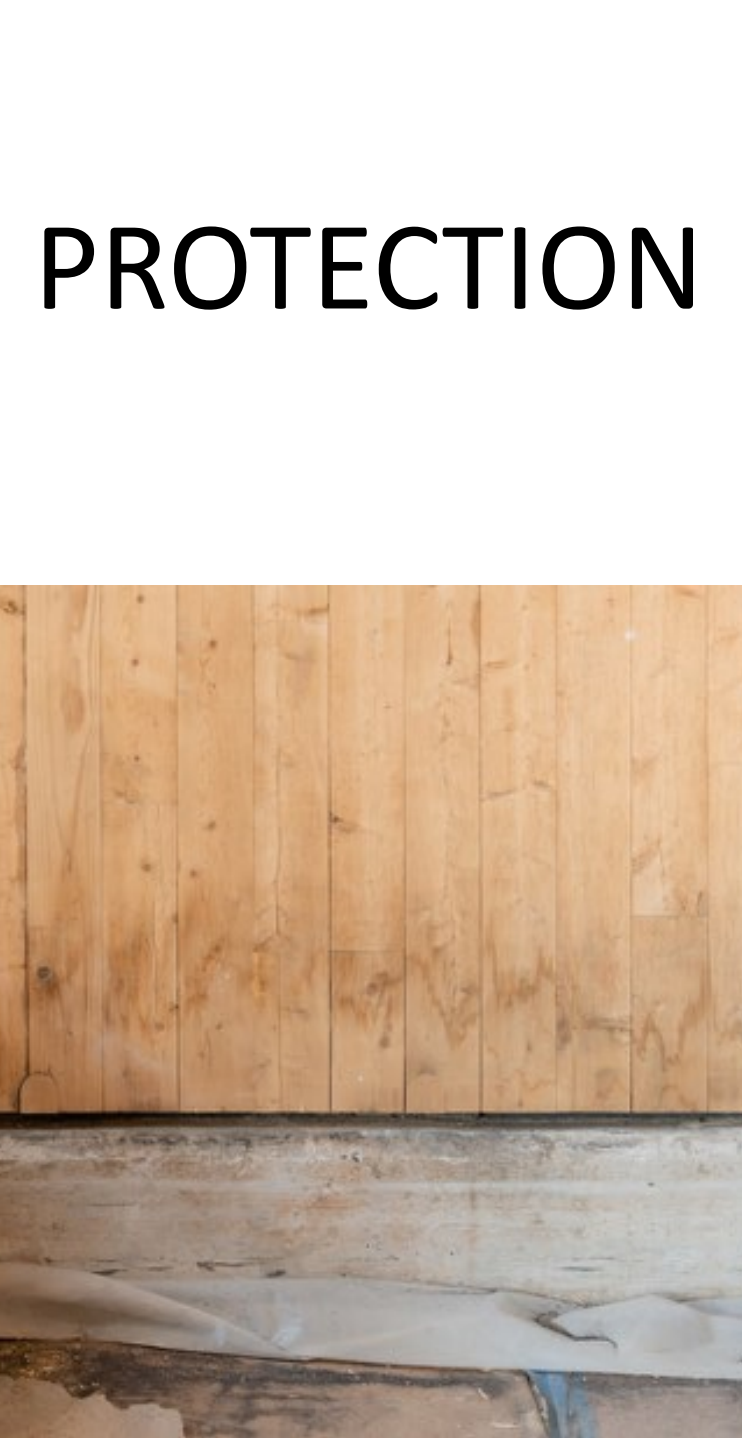
DETAILS

- Exposed versus not
- Connections
- External design review

TOLLERANCES

- Connections
- Customization







CLOSING

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