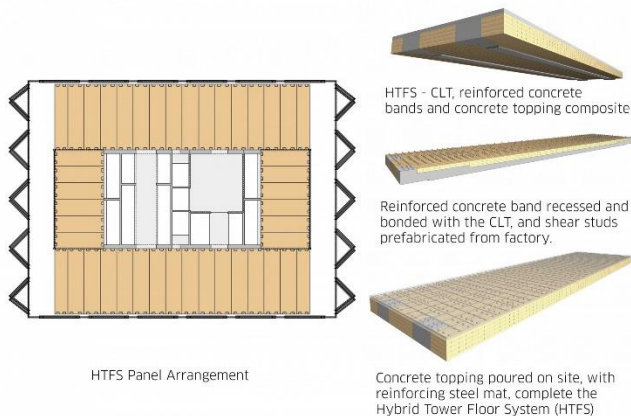


# Acceleration of Mass Timber and Innovative Wood-based Products for Buildings

## PROJECT DESCRIPTION

FPIinnovations' Building Systems group provides product development acceleration by providing performance data via numerical simulation and laboratory testing. Under the Supply Chain Resiliency Grant, and in partnership with four main players in the building design area, three BC-based wood-based systems were accelerated.

- 1) **Mass timber façade:** The first wood-based building envelope solution accessible to all designers.
- 2) **Hybrid timber floor system:** a mass timber long-span solution for the supertall tower category that reduces the environmental impact of tall building development in high-density urban areas.



- 3) **Energy efficient prefabricated wood panel:** a cost-effective Step 3 solution to improve the thermal performance of building envelope and to comply with the BC Energy Step Code.

In developing new building systems collaboratively, FPIinnovations, RDH, EllisDon, DIALOG, and Winton Homes and Cottages are generating new economic opportunities in wood-based, energy efficient, low carbon building.

## PARTNERS

- **Ministry of Jobs, Economic, Recovery, and Innovation** Supply Chain Resiliency Grant
- **RDH** – Mass Timber Façade
- **EllisDon** – Hybrid Timber Floor System
- **DIALOG** – Hybrid Timber Floor System
- **Winton Homes and Cottages** – Energy Efficient Prefabricated Wood Panel

## NEXT STEPS

- Scale-up the technologies with supply chain partners to be market-ready
- Perform large-scale mock-up tests by 2022.
- Pursue demonstration projects in 2023.



1) Mass timber façade



3) Energy efficient prefabricated wood panel

## For more information:

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