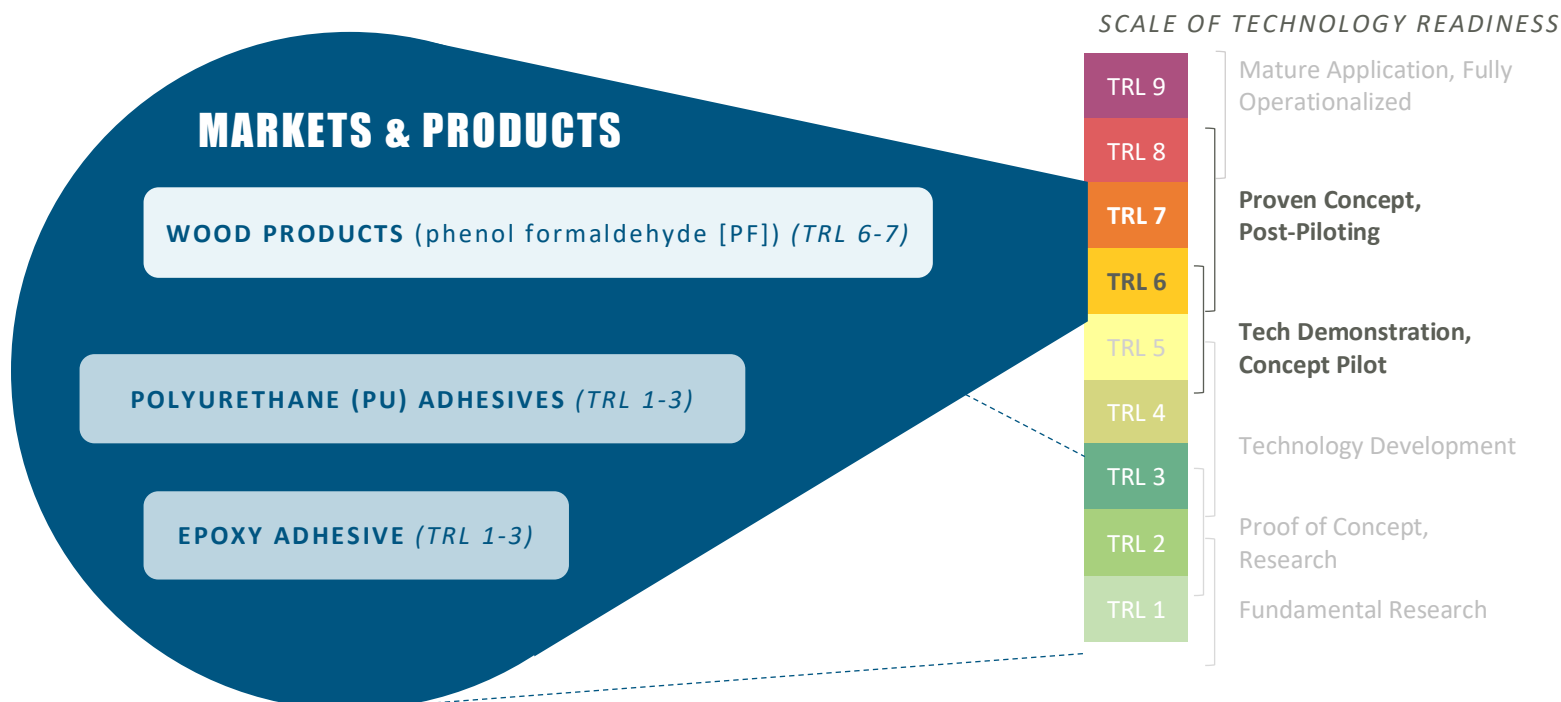


HIGH-PERFORMANCE LIGNIN MARKET DEVELOPMENT OPPORTUNITIES



This report was developed in collaboration with the Nextfor Community, informed by five Innovation Forums held between 2018 – 2019. The community clearly identified near-term opportunities and challenges for applications of high-performance lignin. This document series outlines the emergent themes and ideas for high-performance lignin applications, with additional detail available to registered Nextfor Members at <https://nextfor.ca/>.

APPLICATION: **RESINS & ADHESIVES**



OPPORTUNITIES FOR COMMERCIALIZATION

Within the next two years, this application has opportunities in the following:

- Capturing significant share of existing PF market
- Integrating into existing product lines with minimal modification
- Access to significant buying power within the industry

COMMERCIAL READINESS CHALLENGES

GENERAL INDUSTRY CHALLENGES:

1. Engage customers & end users
2. Optimize public perception & buy-in
3. Streamline supply chain processes
4. Achieve large-scale volume of supply
5. De-risk product for end users

APPLICATION-SPECIFIC CHALLENGES:

- Uphold international standards & codes
- Improve PU/Epoxy materials properties (viscosity, curing time, ageing, product consistency) to meet or exceed industry expectations
- Stimulate regulatory pull to encourage market acceptance