
CONSTRUCTION'S LEADING TECHNOLOGY FORUM

Robotic Construction Debris Recycling: A Real Nail Biter

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Urban Machine

Converting 37 million tons of wood waste into premium lumber products





The Problem We are Solving

- 37M Tons of lumber wasted annually
- In 60 years all landfills will be full
- Lumber price volatility
- Lumber Shortages

Lumber Price Index

\$1645

May 2021

\$1497

March 2022

2022

2017



ноw? Make it Circular

A circular economy focuses on salvaged materials– giving that resource a second life as a part of a new project.



the forest



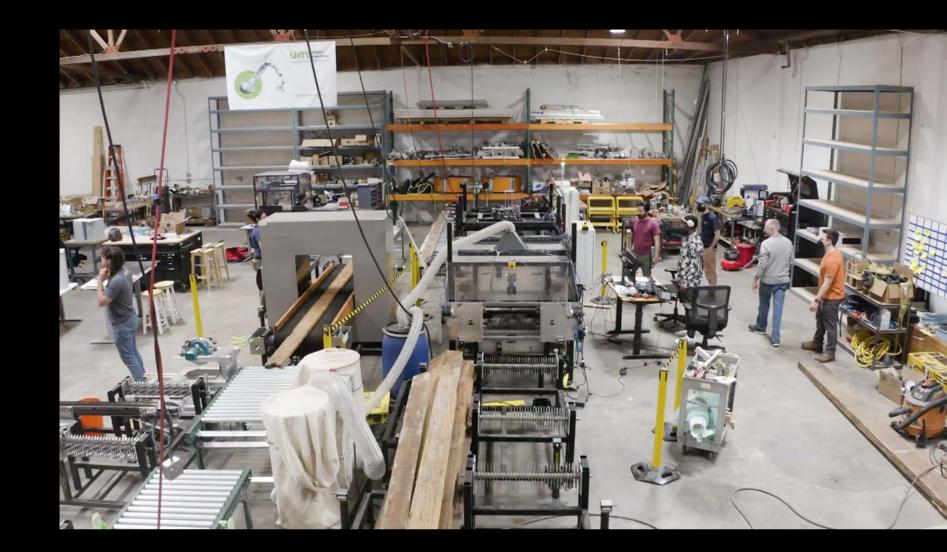
Reclaimed, Premium Lumber Our Partners





Robotics & AI The Machine

- Precision end effectors
- High speed gantries
- Vision systems to remove nails, screws & staples





Enough Business Let's Talk Tech

So much prototyping!

- Awesome Ash
- Brave Baobab
- Charming Cypress

80/20 is King!





Our Hardware Shuttle Races





Manipulation End Effectors







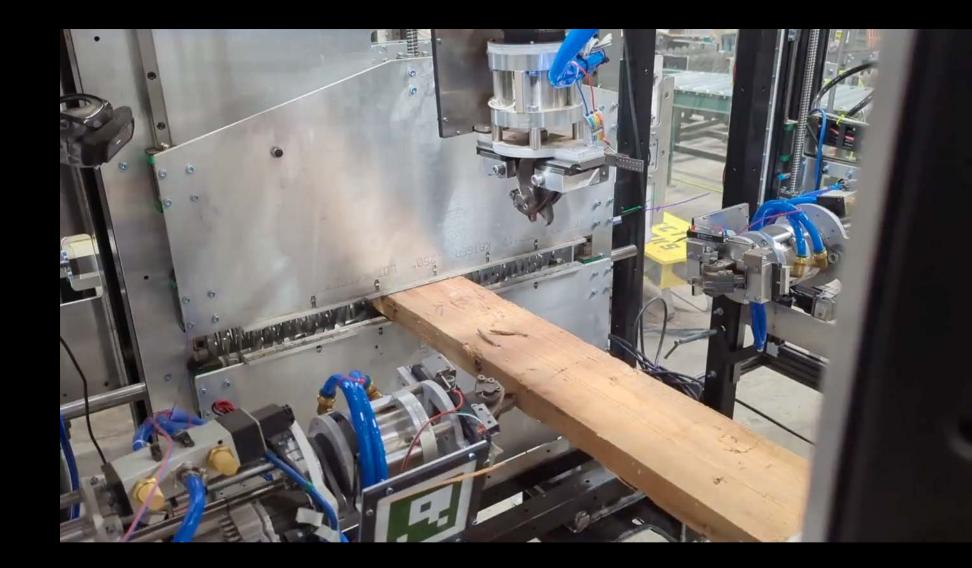


Our Hardware Spiked Rollers





Our Hardware Nail Songs





Our Hardware Blast Gates





Artificial Intelligence Perception





Process model / throughput Simulation





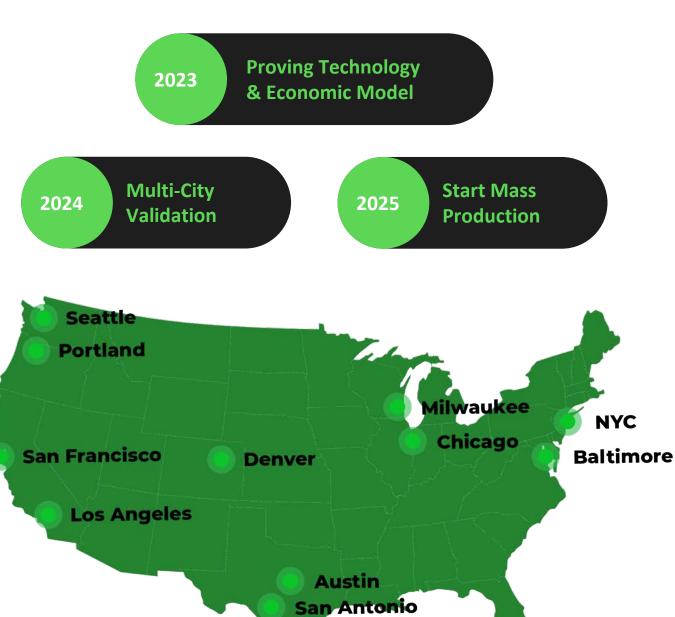
The Robot Now Field Model







Next Steps Scaling



Looking for More Partners!

- Owners
- Demo Contractors
- Designers
- GCs







urbanmachine.build



HILTON UNION SQUARE SAN FRANCISCO

