Better, faster, cheaper building projects. For everyone.
Telecom evolved

$800+ Billion Industry
Automotive evolved
$900+ Billion Industry

1870

2018
Construction?
$1.3+$ Trillion Industry

1833

2018

KATERRA
Katerra is an end-to-end building services provider.

- Architecture
- Interior Design
- Engineering
- Manufacturing
- Building Material Supply
- General Contracting
- Skilled Labor
- Renovations
Our Progress

3,500+ Global Team

- Manufacturing: 350
- Design: 300
- Construction: 250
- Supply Chain: 400
- Software: 50
- Engineering: 50
What We Build
Flexible solutions across the building life-cycle.

Materials
- Direct Material Sales
- Curated catalog of structural components, finish items, and kitchen & bath products
- Management of all logistics, including delivery and installation

New Build
- End-to-End Services
- Fully-integrated delivery of building projects, including design, materials procurement, manufacturing, and construction

Renovations
- Renovation Services
- Fully-integrated renovation services for multifamily market rate, affordable, commercial, and retail markets

KATERRA
Integrated Factory

Shifting labor from the jobsite to the factory. Extending factory precision to the jobsite.

Seamless link between manufacturing and construction.
Katerra Technology Solutions
Precision RFID tracking of every factory component, from order to fabrication to install.
Katerra Technology Solutions

A single-enclosure electrical system, integrating multiple energy sources, while lowering installation and ownership costs.
Katerra Technology Solutions
Complete home automation for multifamily buildings.
Market Demand – U.S.
Forest Resources – U.S.
Forest Restoration Needs – PNW

PNW forest restoration needs (green = forest densities by county, red/orange = fuel reduction restoration needs by watersheds, blue = beetle infestation restoration needs by points (IDEX engineering undergraduate students 2015))
Forest resource technologies evolved
Supply Chain Scenarios

**SUPPLY CHAIN 1 (existing)**
- harvesting
- log processing
- milling
- panel pressing (CLT)
- subtractive manufacturing (CLT)
- systems integration site
- site construction

**SUPPLY CHAIN 2 (proposed)**
- harvesting
- log processing
- milling
- panel pressing (CLT)
- subtractive manufacturing (CLT)
- systems integration factory
- site construction

**SUPPLY CHAIN 3 (proposed)**
- harvesting
- log processing
- milling
- panel pressing (CLT)
- subtractive manufacturing (CLT)
- additive manufacturing (CLT)
- systems integration factory
- site construction
Manufacturing Clusters

BIOMASS CLUSTER (mechanical processes)
- Log processing: debarking, CT scanning, grading, sorting [multiple mills (AI, MT)]
- Chipping: feedstock pre-processing for pulp and paper or biofuel combustion and conversion
- Log and forest residuals grinding

BIOENERGY CLUSTER (combustion + solar processes)
- Biomass generation: combined heat and power production
- Solar generation: combined heat and power production

BIOBUILDING CLUSTER (manufacturing processes)
- Material processing: sawn timber rolling and kiln-drying
- Component manufacturing: CLT planting, cross-laminated timber panel pressing, digital fabrication
- Component manufacturing: engineered high performance non-structural exterior building walls
- Component manufacturing: MDF+ mechanical, electrical, plumbing, cas, fire subassemblies (Spokane, WA, Spokane, WA)

ADVANCED MANUFACTURING CLUSTER
- Assembly manufacturing: hybrid CLT integrated design and manufacturing of building wall and floor panel assemblies

BIOFUEL CLUSTER (conversion processes)
- Forest residuals processing: engineered feedstock manufacturing for use as fiber or biofuel
- Construction/demolition residuals processing: upcycling engineered biofuel manufacturing for use as fiber or biofuel
- Building design and construction: integrated design and construction of buildings (Bozeman, MT, Spokane, WA, +)
Forest Resources – Saw Log
Species – PNW

- Pseudotsuga menziesii (Douglas-fir)
- Pinus ponderosa (Ponderosa Pine)
- Tsuga heterophylla (Western Hemlock)
- Abies grandis (Grand Fir)
LCA – Building, District, and Bioregional System Boundaries