



# Investing in the Real Estate Value Chain

Spring 2024

Annie Veldman & Sidney Kanell



# Market Overview

While an unfavorable market environment has recently hampered activity across the real estate sector, signals suggest that declining interest rates will fuel reacceleration, making now the time to proactively invest in PropTech

## The heightened interest rate environment has caused the broader real estate sector to struggle

- Capital costs have substantially increased, making debt difficult to come by
- In the office sector, the impact is compounded by high vacancy due to the rise of remote work
- A housing crisis has emerged, with supply dwindling as homeowners are reluctant to sell and take out new mortgages; the build-up of excess demand has caused housing prices to remain high
- On the flip side, industrial and retail have remained relatively resilient, and growth in data centers has boomed from AI tailwinds
- Construction starts are materially down due to scarcity of capital, in addition to rising materials costs and labor shortages

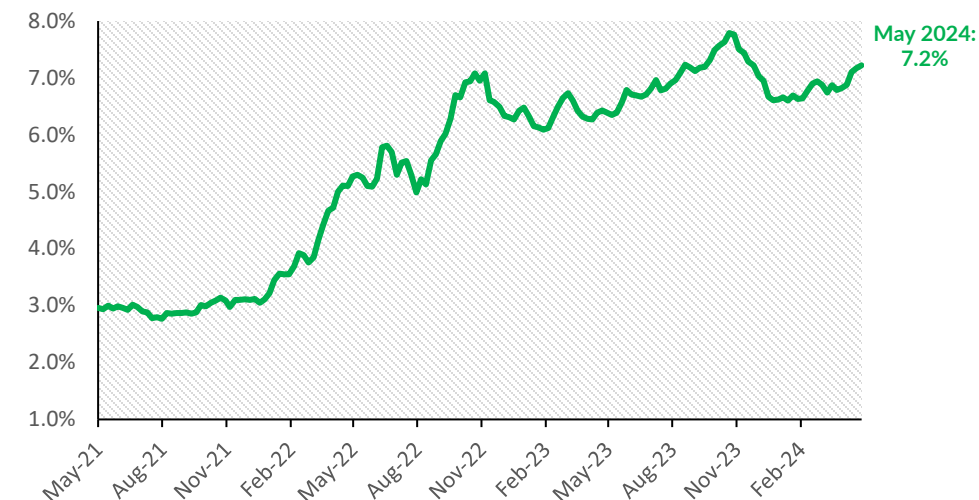
## As a result, real estate stakeholders have cut costs and innovation has been put on pause

- Stakeholders tied to project and transaction volume have been focused on reducing fixed costs as revenue has decreased, wary of adopting new technologies that may compress margins short-term
- In response, investors cooled on the sector; U.S. PropTech growth equity funding decreased 62% YoY in 2023, disproportionate to the broader software growth equity market, which decreased 33% YoY, and companies that did raise money did so in smaller rounds, with the average U.S. PropTech deal size decreasing 45% YoY<sup>2</sup>

## However, the majority consensus is that interest rates have reached their peak and the U.S. is poised for a near-term soft landing

- The Fed has signaled rate cuts may begin as early as 2H24; as rates decrease, transaction volume will pick up
- There will be an increase in both appetite and available capital to adopt technology in order to stay on pace with the market
- Going forward, the global PropTech market is projected to grow from \$35B in 2023 to \$133B in 2032, an ~16% CAGR<sup>3</sup>

U.S. 30-Yr Fixed Rate Mortgage: 2021 - 2024<sup>1</sup>



# Why Now?

Favorable market forces, the ongoing degradation of information silos, and the advent of Artificial Intelligence are coming together to drive accelerated demand for technology in real estate



## Market Forces

- Until rates went up and transactions slowed, the real estate market had been booming for over a decade
  - During the boom, stakeholders rejected change and technology adoption. Business was better than ever, and there was no logical reason to introduce incremental risk - “if it ain’t broke, don’t fix it”
- During tougher times, the focus has shifted towards efficiency and strategies to stay ahead of competition. Once the market turns, there will be a race to capture growth and stakeholders at the forefront of technology adoption will have an advantage over laggards
- There is an undersupply of inventory in multifamily, industrial, data centers, and healthcare facilities. After two stagnant years, the market is desperate for construction to resume, and developers are hungry to meet demand. There is a growing need for solutions that drive efficiency and combat margin pressure, which resulted from inflation of input costs and labor



## Breaking Down Silos

- Real estate is a largely relationship-driven industry revolving around real assets and a multitude of stakeholders (architects, engineers, developers, contractors, brokers, lenders, investors, property managers, service providers, tenants, and occupants)
  - These stakeholders are historically siloed, hindering communication and transfer of data
  - While certain inefficiencies stem from misaligned incentives and may prove challenging to disrupt in the short term, others are more susceptible to change due to market readiness and the availability of more advanced technology
- Technology has been hacking away at silos for decades, which has improved transparency, communication, and overall market efficiency. Examples include democratized market data (e.g., CoStar, Reonomy), online listing marketplaces (e.g., Zillow, Opendoor), and platforms that facilitate collaboration across key parties (e.g., Procore for construction, Qualia for closing)
  - Natural market forces point to a future where stakeholders are interconnected and information flows freely, and we are in the early innings

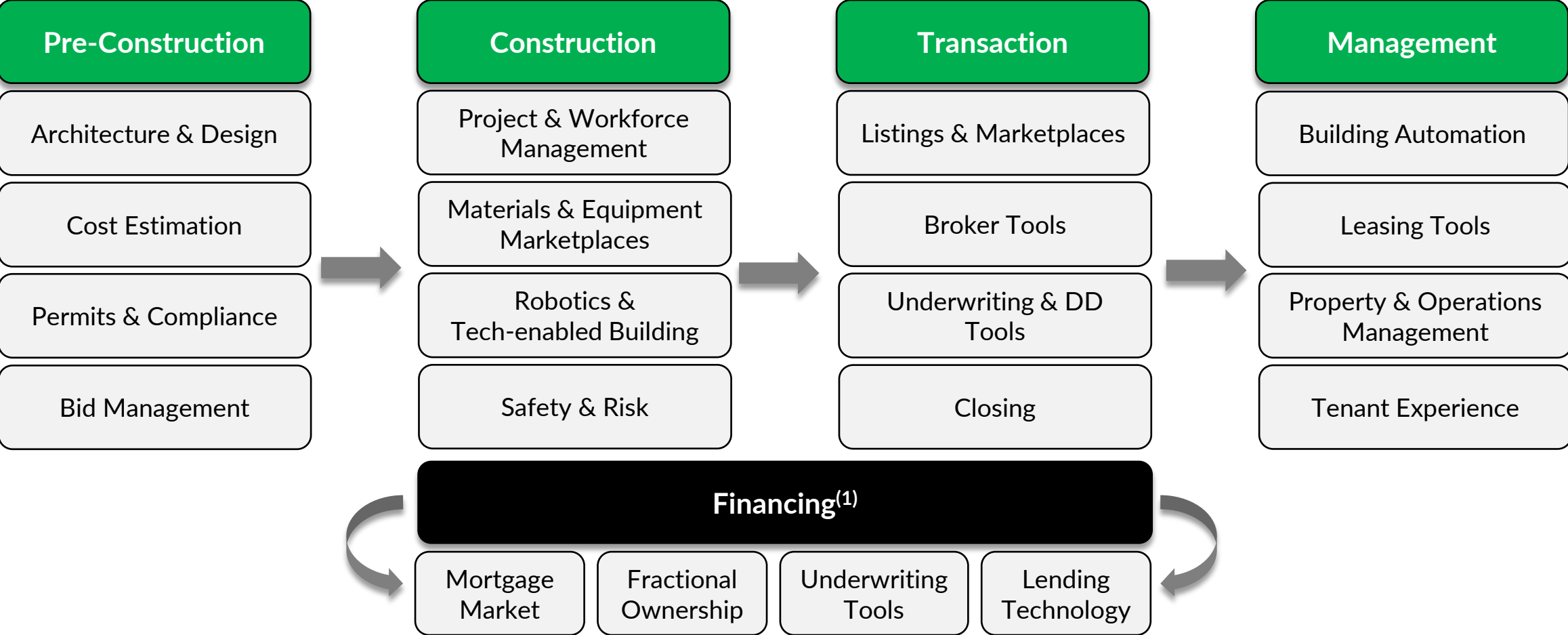


## Rise of Artificial Intelligence

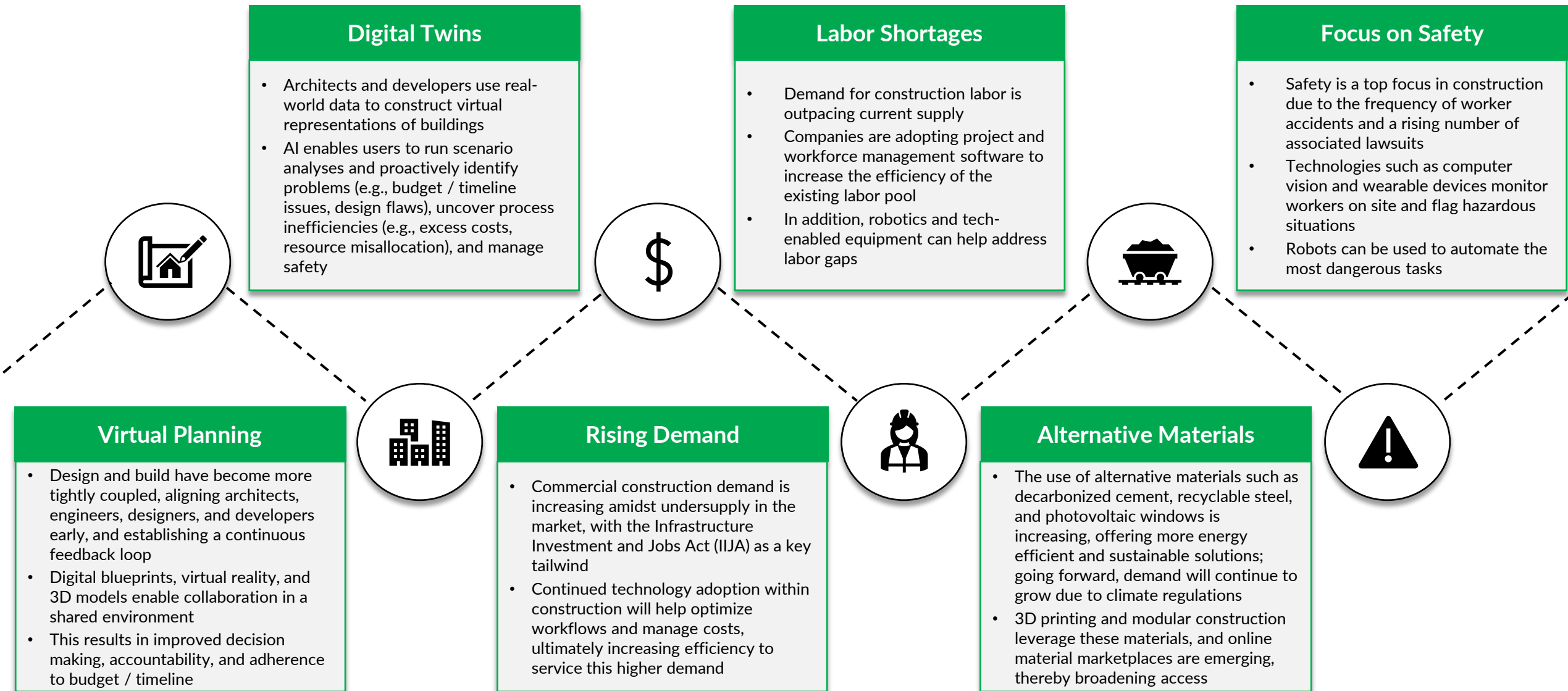
- Real estate is notorious for resisting technology due to old-fashioned attitudes and industry-specific complexity (e.g., data locked in physical assets, large web of stakeholders)
  - But AI represents a true step-function change in terms of increased productivity and ROI, establishing a catalyst for faster adoption
- Use cases include predictive analytics, data consolidation and optimization, automated maintenance, co-pilots and chatbots, computer vision monitoring, and robotics
- PropTech is dominated by a few large incumbents, which are difficult to displace despite their antiquated solutions. So far, the pain of ripping and replacing has generally outweighed the potential incremental benefit of a more modern alternative
  - But these large players are slow to innovate and will face competition from new entrants whose technology redefines what is possible in real estate

# Real Estate Value Chain

PropTech will connect stakeholders and create leverage across the entire real estate value chain



# Trends Shaping the Future: Pre-Construction & Construction



# Trends Shaping the Future: Transactions

## Desire for a Connected Ecosystem



- Both commercial and residential transactions involve a multitude of stakeholders, each of which has a siloed process consisting of multiple systems – examples include manual data entry and documentation, spreadsheets, lead generation software, emails, Google Docs, underwriting technology tools (especially commercial), e-signing, etc.
- Stakeholders are managing and paying for each of these solutions separately, as a comprehensive end-to-end solution has yet to penetrate the market
- The market needs end-to-end solutions, which connect all key stakeholders and workflows, from lead gen through close

## Data Utilization



- Online marketplaces, public & private databases, transaction management software, and underwriting tools, introduce a vast amount of data into the ecosystem
- There is a large, untapped opportunity to activate data to improve probability to close and transaction speed
- Brokerages, lenders, and real estate investors can use this data to improve client lead generation, conversion, listing marketing efforts, due diligence efficiency, or even sell to third parties for market research or advertising purposes

## Focus on Increased Efficiency



- Commercial Transactions: speed is an increasing differentiator in the transaction process – the faster a lender can model data and get a quote, or an investor can underwrite an asset, the more likely they are to win a deal
- Residential Transactions: the recent National Association of Realtors (NAR) ruling is expected to shrink commission dollars and increase barriers to entry, meaning brokers will need to become more efficient with both time and costs
- Technology that can automate tasks such as lead conversion, data collection, underwriting, and closing will see high demand

## Large Network Effects



- Commercial Transactions: large intermediaries and investors leverage the same legacy reporting and valuation software, like ARGUS and CoStar – these tools are deeply engrained into workflows and are often interconnected across key parties in the transaction
- Residential Transactions: listing marketplaces like Zillow benefit from network effects as they aggregate supply and demand. Platforms that have the most listings attract the most buyers / sellers which in turn attracts more agents
- This establishes a challenging dynamic for new entrants, but those that can break through and capture the attention and wallets of the largest stakeholders are poised to benefit from a flywheel effect

# Trends Shaping the Future: Management

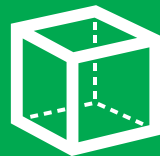
## Modern Property Management

- A few large incumbents dominate property management (PM) software, resulting in a rise of point solutions
- The scope of PM has broadened as portfolios have increased in complexity (e.g., mixed-use properties, diverse ownership structures) and tenant experience has become a top priority
- The traditional PM model is cumbersome; a combination of best-in-class tech and services can displace traditional property managers (especially in resi), allowing owners to keep more margin and gain better insight into property performance



## Accessible Leasing

- Brokers and PMs leverage technology to access and engage a broader range of prospective tenants
- 3D and virtual tours allow prospective renters to view properties sight unseen, at any time of day, increasing both reach and efficiency
- Flexible payment platforms and deposit alternatives are expanding prospective tenant bases, while providing additional security to PMs



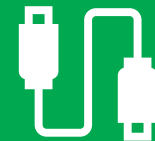
## Action-Oriented Building Automation

- IoT devices such as sensors, lights, thermostats, and energy meters have become widely available, more cost effective, and easier to install; as such, smart buildings are on the rise across residential and commercial real estate
- So far, building automation has centered around data collection and production of insights
- The next generation of building automation will focus on driving action (e.g., controlling energy consumption, assigning predictive maintenance tasks, activating security measures etc.)

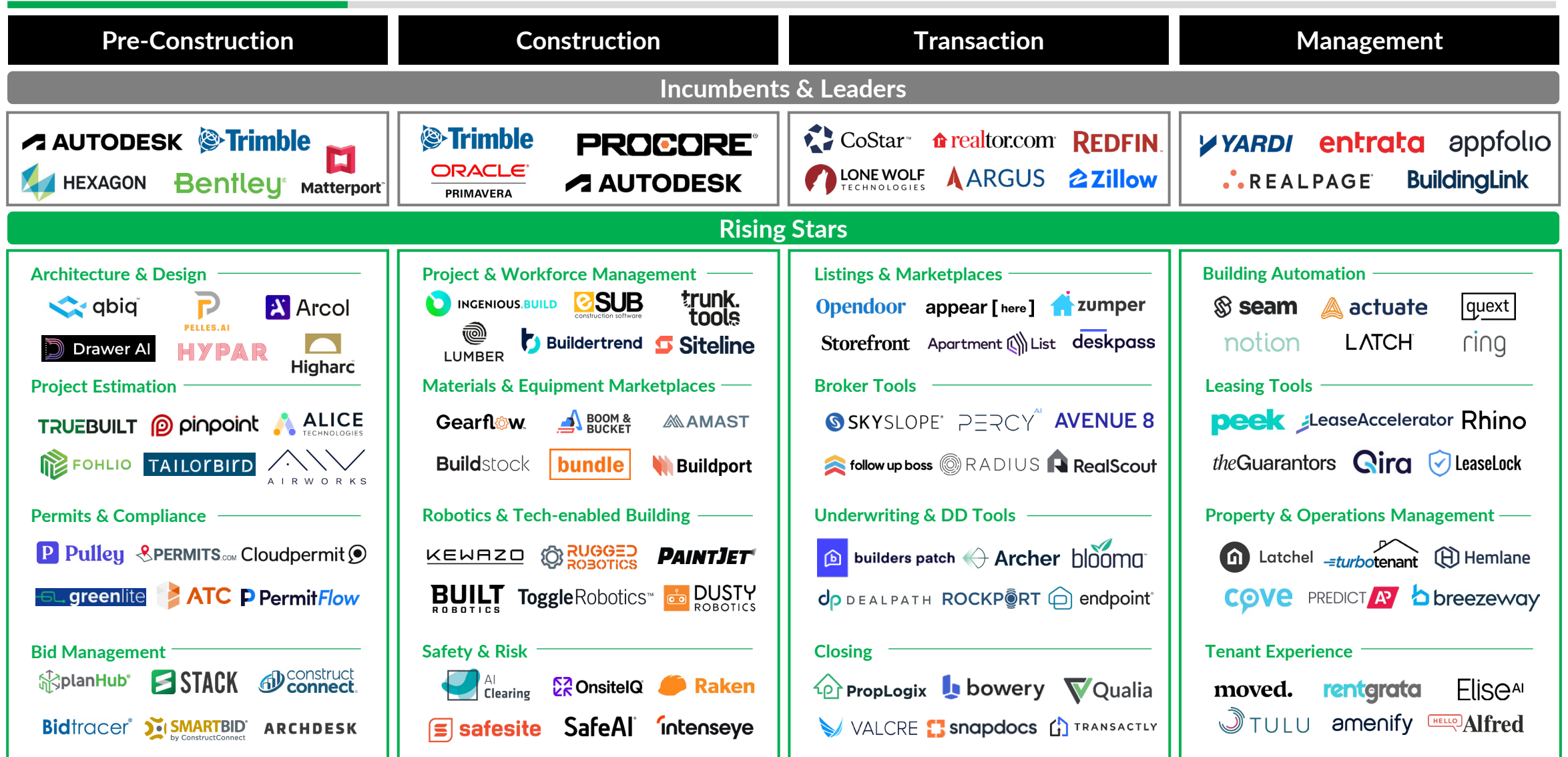


## Tech-forward Tenant Base

- Property managers need to meet young, digitally-native renters where they are, from leasing, to move-in, and ongoing communication and engagement
- Digital payments and maintenance portals are increasingly table stakes; nice-to-haves such as AI chat-bots and neighbor communication platforms are early but gaining traction
- In the office sector, occupant-facing solutions were gaining steam, especially as hybrid workforces became the norm, but budget cuts have hindered growth for the short term



# Real Estate Value Chain: Market Landscape







CATALYST

*Please send any inquiries to [annie@catalyst.com](mailto:annie@catalyst.com) or [sidney@catalyst.com](mailto:sidney@catalyst.com)*