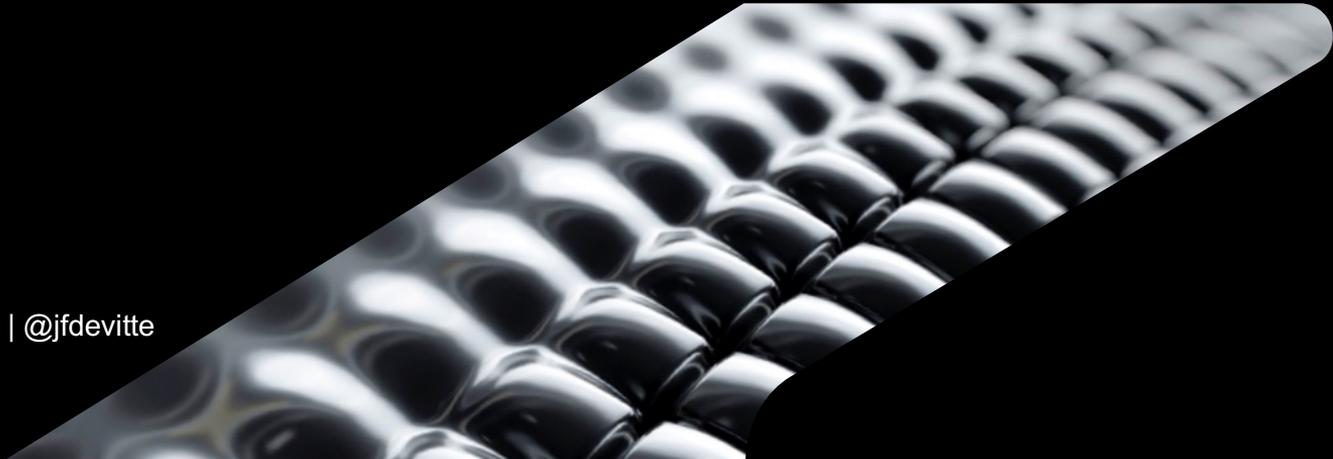




# A brief history of technology for the built environment

Jeff Herriman  
Managing Director, Ascentage

Jessie Devitte  
Managing Partner, Building Ventures | @jfdevitte

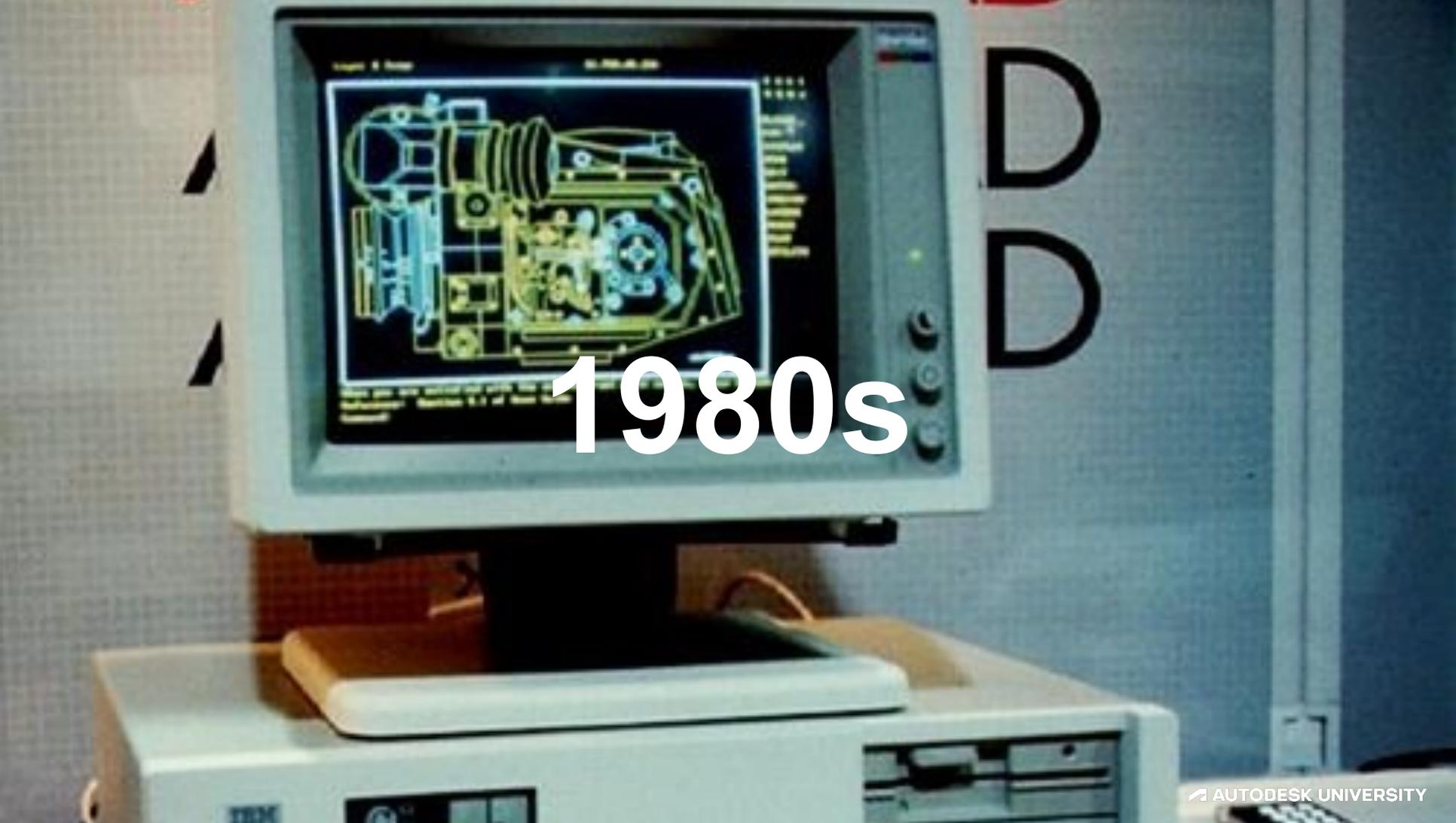




... in the beginning



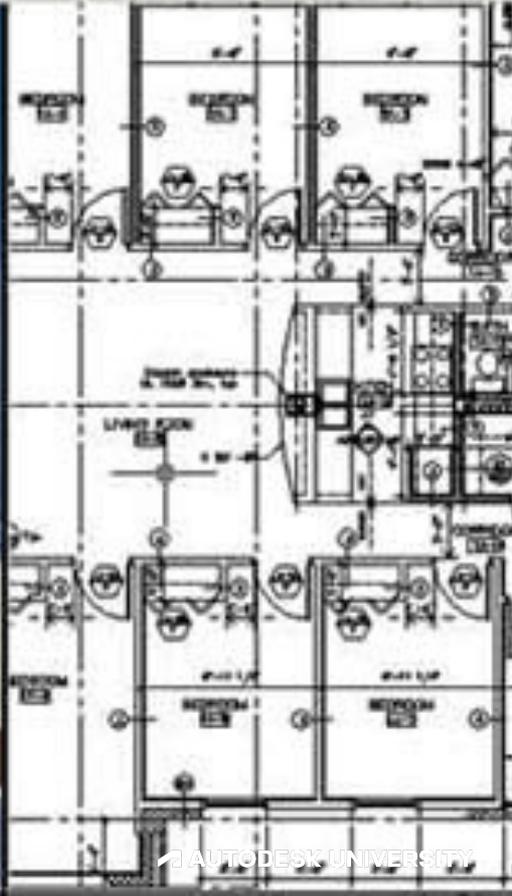
1960s



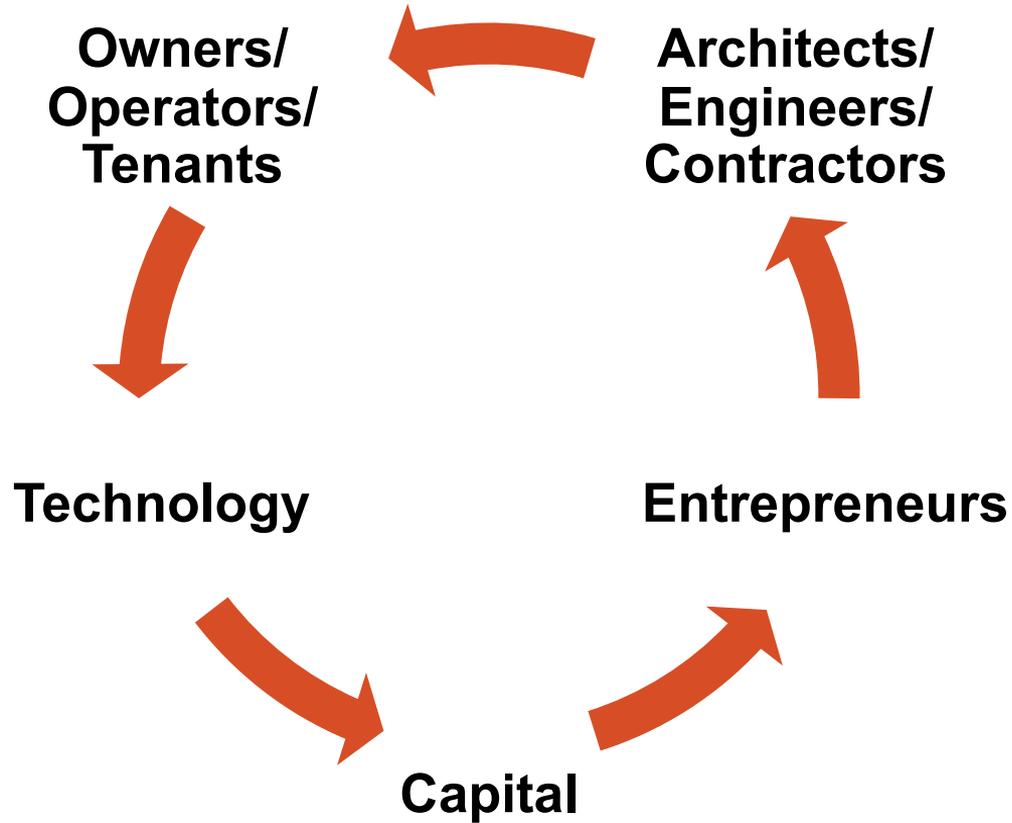
1980s



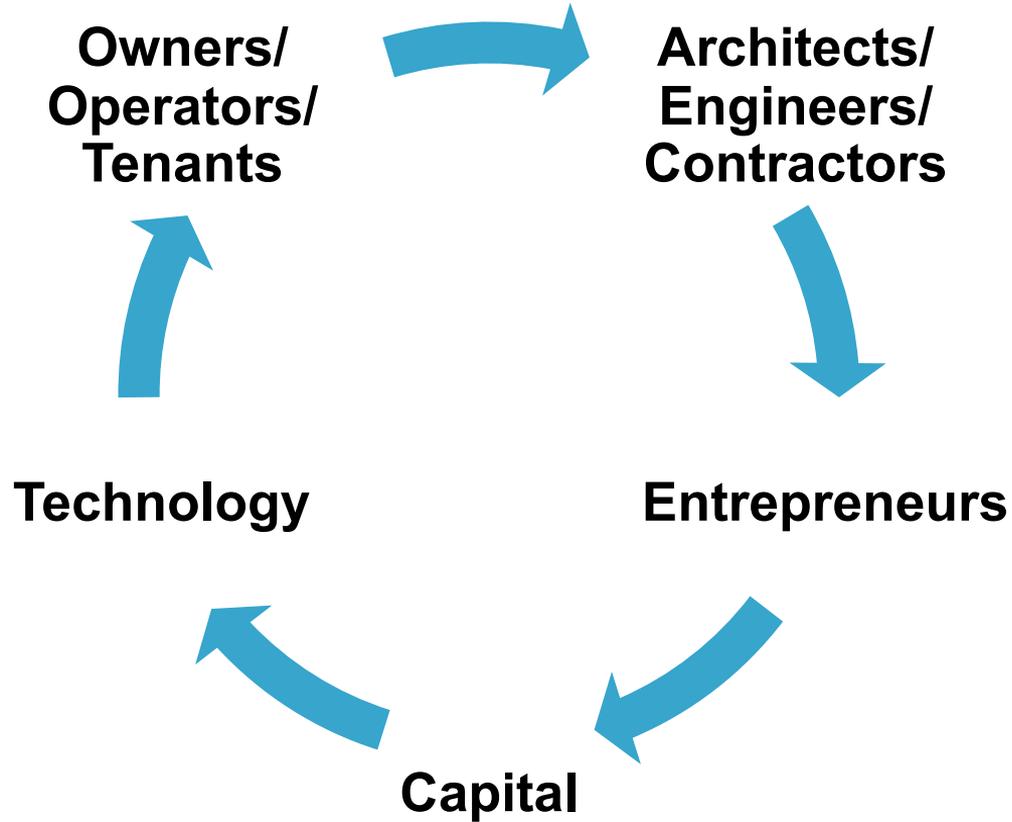
2000s



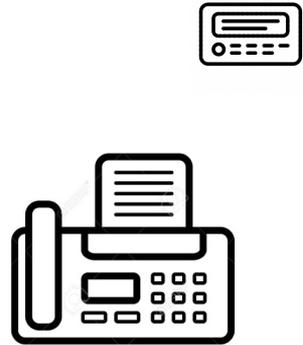
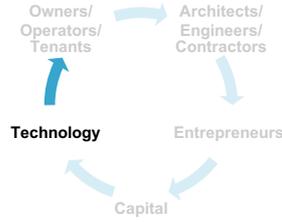
# The vicious circle



# The virtuous circle



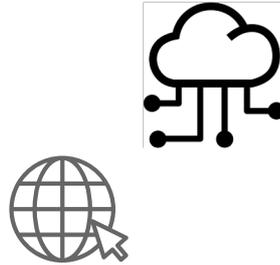
# Hardware and software advances



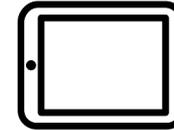
1980s



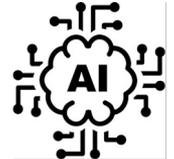
1990s



2000s

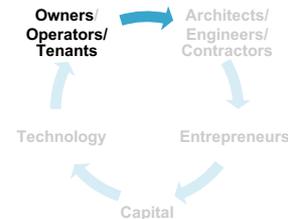


2010s



2020s

# Residential



Integrated platform for homebuilders delivering customization and efficiency

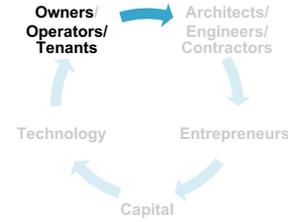


Vertically integrated developer and manufacturer of affordable housing



Affordable, geothermal heating and cooling at scale

# Sustainability / occupant experience



Building IoT solution optimizing energy savings and occupant comfort/health



Air filtration technology reducing energy use for healthier, greener buildings



ESG SaaS platform for building portfolio owner and occupiers

# Infrastructure

**1967**

UK government  
sponsored CADCentre

**AVEVA**<sup>™</sup>

Energy asset management

**1996**

MWH Engineering

**Innovyze**<sup>®</sup>

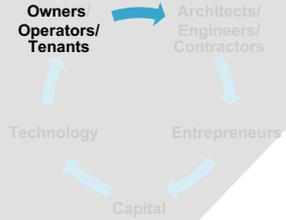
Water infrastructure  
asset management

**AgileAssets**<sup>™</sup>

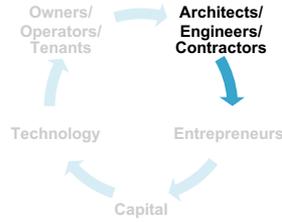
Transportation asset  
management

**1994**

Pavement condition  
assessment tool for DOTs



# Design tools



1980s

**CAD**



1990s

**AEC**



2000s

**BIM**



2010s

**Design  
Platforms**

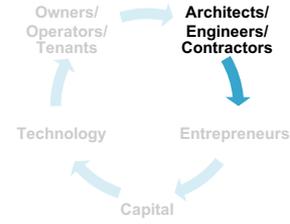
**FORGE**

2020s

**Digital  
Twin**



# Construction field tools



Year  
Founded

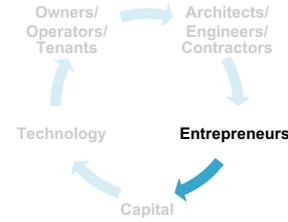
1994

2014

constructw@re



# The role of the entrepreneur



**Fed Negro**  
Founder & CEO



**Ian Keough**  
Co-founder & CEO



**Andrew Zukoski**  
Co-founder & CEO



**Cameron Page**  
Founder & CEO

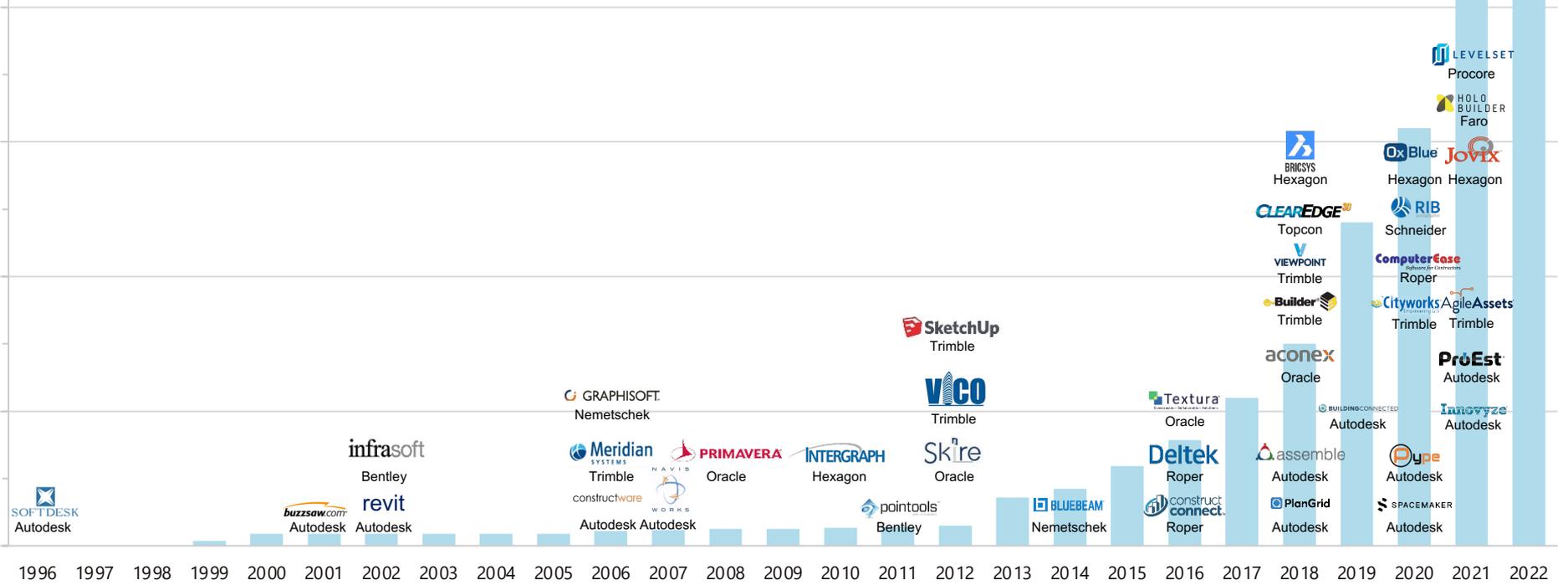
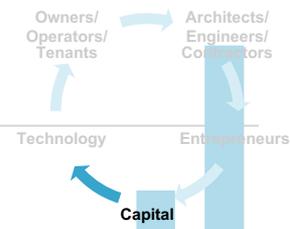


**Fraser Patterson**  
Founder & CEO



# \$5.5 billion and counting...

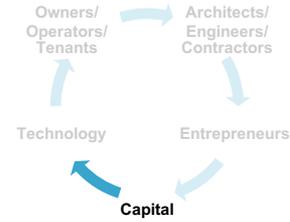
## Cumulative Venture Funding and Notable Strategic M&A Transactions



Sources: Capital IQ, Pitchbook, company websites, press releases

Bar chart represents cumulative construct tech venture funding; logos represent notable strategic M&A transactions

# The increasing impact of private equity



## Venture Capital



## Growth Capital



## Buyout Capital



# The next 25 years

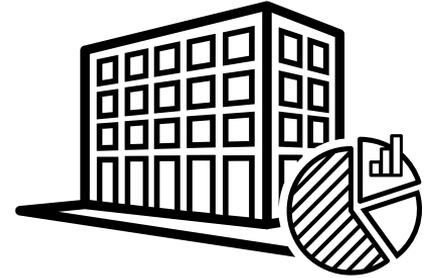
Artificial  
Intelligence



Automation



Asset  
Management





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