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# Winning in Design **\$** Manufacturing

Autodesk University 2021

Scott Reese, Executive Vice President, Product Development and Manufacturing Solutions

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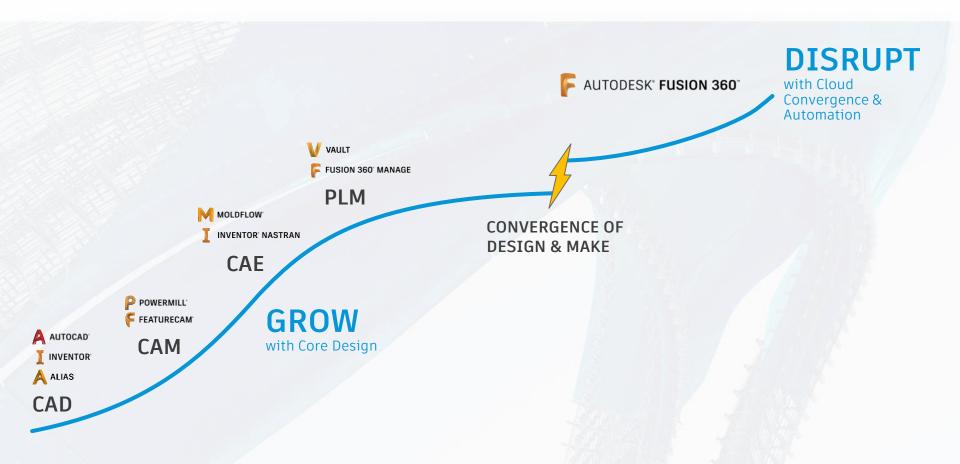
METAL SHOP

# \$38B

#### DESIGN & MANUFACTURING TAM THROUGH FY26

Sources: TAM Figures: "Cambashi FY22 Application TAM" TMO Figures: "Models based on Cambashi FY22 Professions Dataset and Autodesk estimates"

# **Discontinuous Disruption Powers Opportunity**









#### PRODUCTS ARE GETTING SMARTER

#### PROCESSES ARE DIGITIZING

SUPPLY CHAINS ARE REORGANIZING





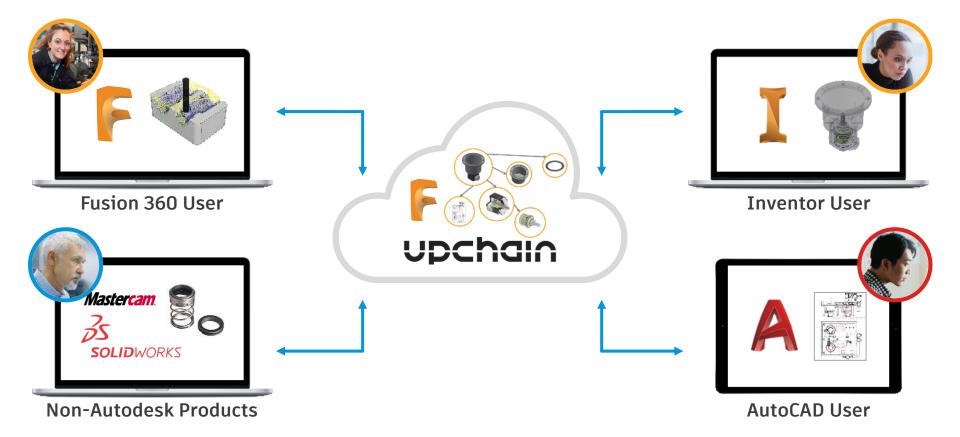
#### DIFFERENTIATE WITH DATA

#### ACCELERATE CONVERGENCE WITH PLATFORM



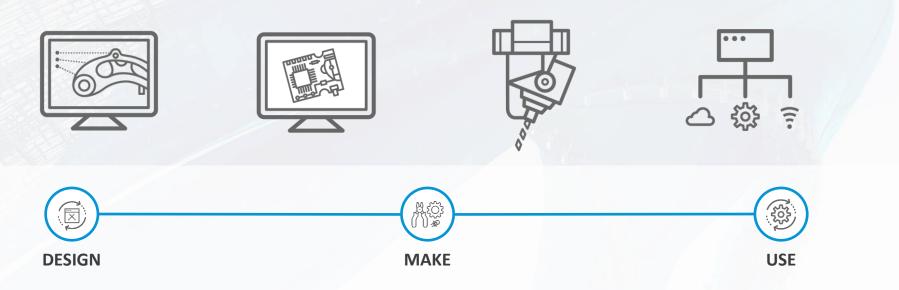
#### EXPAND TO ADJACENT MARKETS

## Deliver Common-Cloud Data & Lifecycle Management



# Digital Transformation: Design & Manufacturing

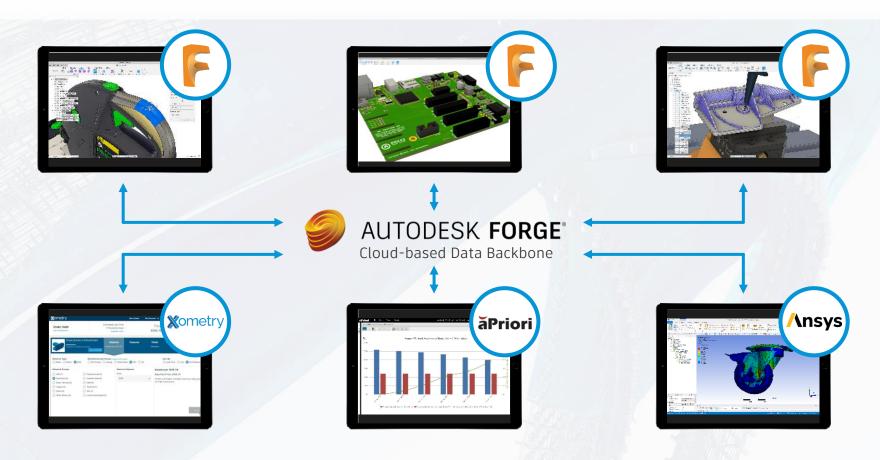
Driving data through the product lifecycle



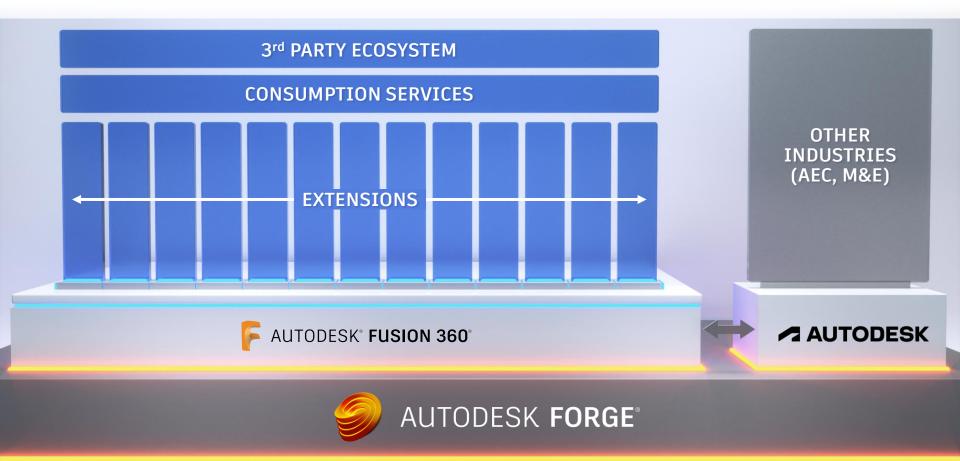
#### **DESIGN & MAKE CONVERGENCE**

Share shift from siloed legacy solutions to an integrated cloud-based platform

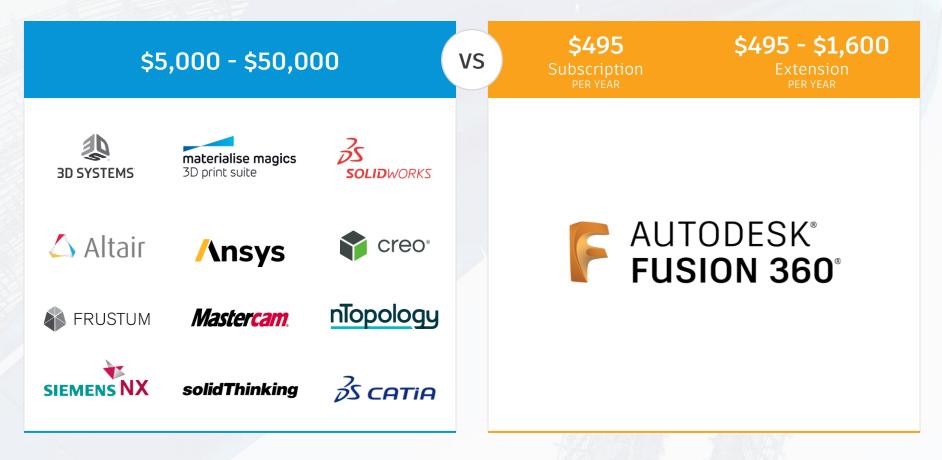
# Ignite the Partner Manufacturing Ecosystem



# Design & Manufacturing Platform



## Fusion 360 Business Model is Disruptive



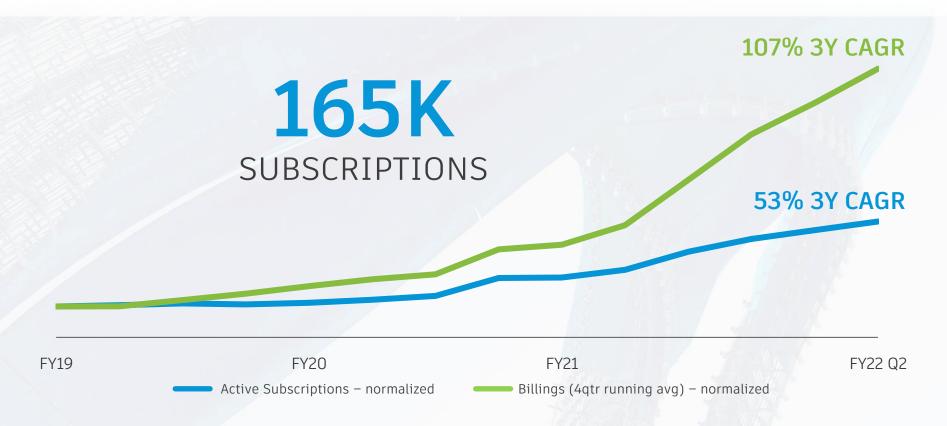
# Expanded Workflows With Extensions





# Commercial Subscriptions and Billings Accelerate

#### AUTODESK" FUSION 360"



Generative Design for Modeling

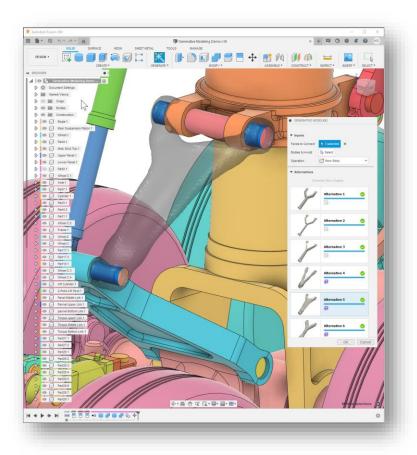
AI Drawing Creation Shop Floor Automation

Generative Design for Modeling

AI Drawing Creation Shop Floor Automation

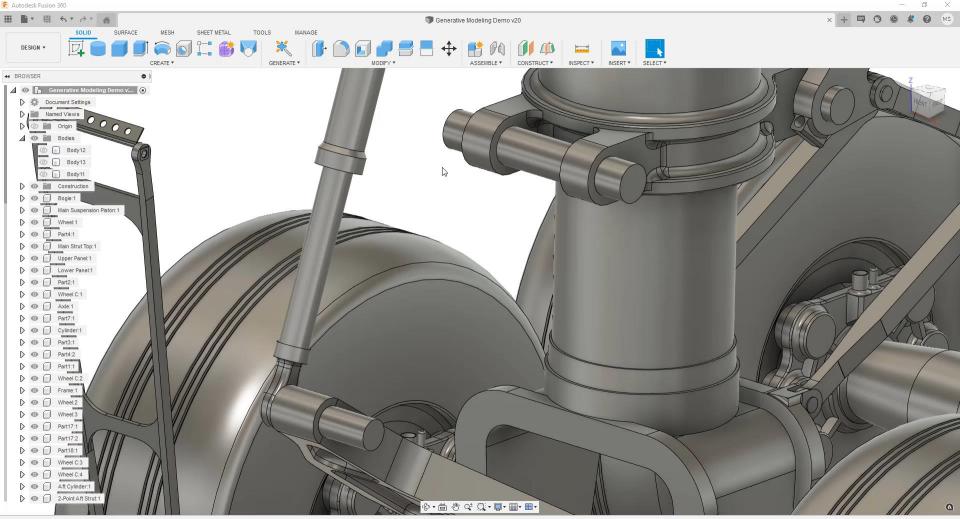
# Generative Design for Modeling

- Expands the accessibility of generative design
- New workflow for rapidly exploring design alternatives focused on geometric connections
- Provides multiple shape alternatives and construction methods



# Generative Design for Modeling – Use Cases





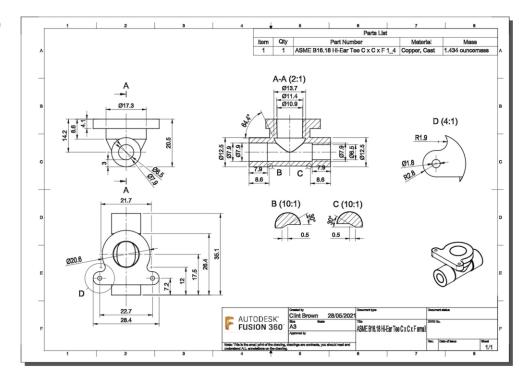
Generative Design for Modeling

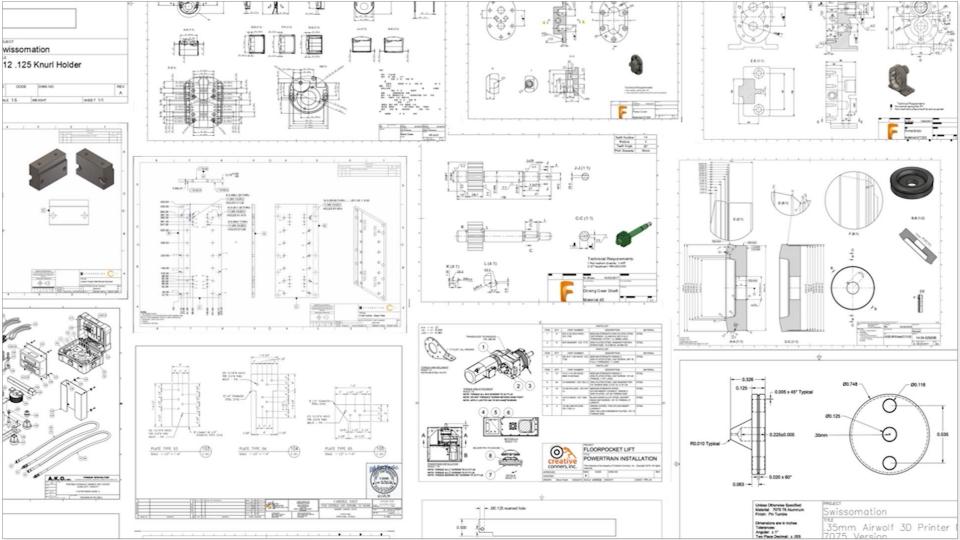
#### AI Drawing Creation

#### -Shop Floor Automation

# Artificial Intelligence Drawing Creation

- AI tool that will help to speed up drawing creation by automating the placement of views & dimensions in your manufacturing drawings
- Automatically creating drawing sheets and laying out views of components
- Adding some dimensions and annotations, based on an AI algorithm





Generative Design for Modeling

AI Drawing Creation

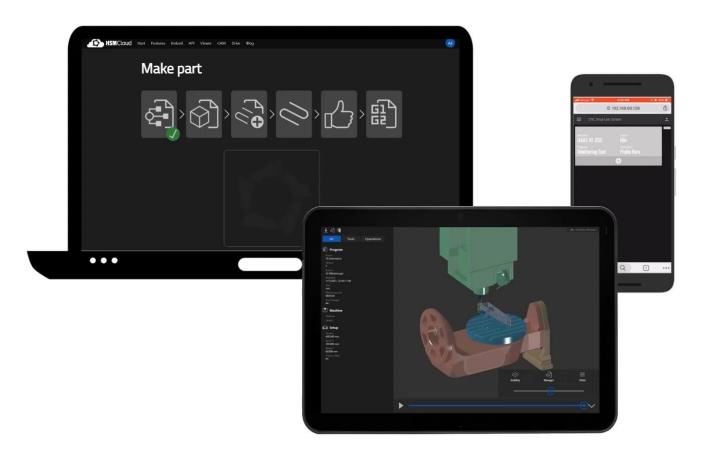
Shop Floor Automation

A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PRO

# Shop Floor Automation

- Digitizing historically analogue processes
- Automatically generate machine code to drive CNC equipment
- Extend our target market to machine operators & improve ratio of operators to machines





#### \$38B **DESIGN &**

MANUFACTURING TAM

AUTODESK" FUSION 360" 165K SUBSCRIPTIONS

# WHY WE WIN:

STRENGTH IN **CORE DESIGN** & MAKE

**BRIDGE SILOS** WITH DATA

CONVERGE WITH PLATFORM

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